AIR QUALITY IMPACT ASSESSMENT
57 TATTERSALL ROAD, KINGS PARK

Rush Metal Recyclers

15 October 2019

Job Number 17030671

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1 INTRODUCTION

Todoroski Air Sciences has prepared this report for Barker Ryan Stewart on behalf of Rush Metal Recyclers (hereafter referred to as the Proponent). It presents an assessment of the potential air quality impacts associated with the proposed operation of a scrap metal recycling facility at 57 Tattersall Road, Kings Park (hereafter referred to as the Project).

To assess the potential air quality impacts associated with the Project, this report incorporates the following aspects:

- A background and description of the Project;
- Review of the existing meteorological and air quality environment surrounding the Project site;
- Description of the dispersion modelling approach used to assess potential air quality impacts;
- Presentation of the predicted operational air quality levels in the surrounding environment; and,
- A discussion of the potential mitigation and management measures for the Project.

This air quality assessment has been prepared in general accordance with the New South Wales (NSW) Environment Protection Authority (EPA) document *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (**NSW EPA, 2017a**).

2 PROJECT SETTING AND DESCRIPTION

2.1 Project setting

The Project site is located at 57 Tattersall Road, Kings Park NSW is approximately two kilometres (km) north of Blacktown. The local land use surrounding the site is comprised of various industrial and commercial properties.

Figure 2-1 presents the location of the Project and the sensitive receptor locations assessed as discrete receptors in this study. The nearest sensitive receptors to the Project are located along Sunnyholt Road, Blacktown (Receptors 3-5), approximately 550 metres (m) to the east from the Project boundary. The nearest residential receptor to the west of the site is located at a distance of approximately 600m on Chedley Place, Marayong (Receptor 13). The Blacktown North Public School (Receptor 1) is located approximately 750m southeast of the Project site.

Figure 2-2 presents a pseudo three-dimensional visualisation of the topography surrounding the Project location. Project site can be characterised as relatively flat, with gently undulating hills in all directions.

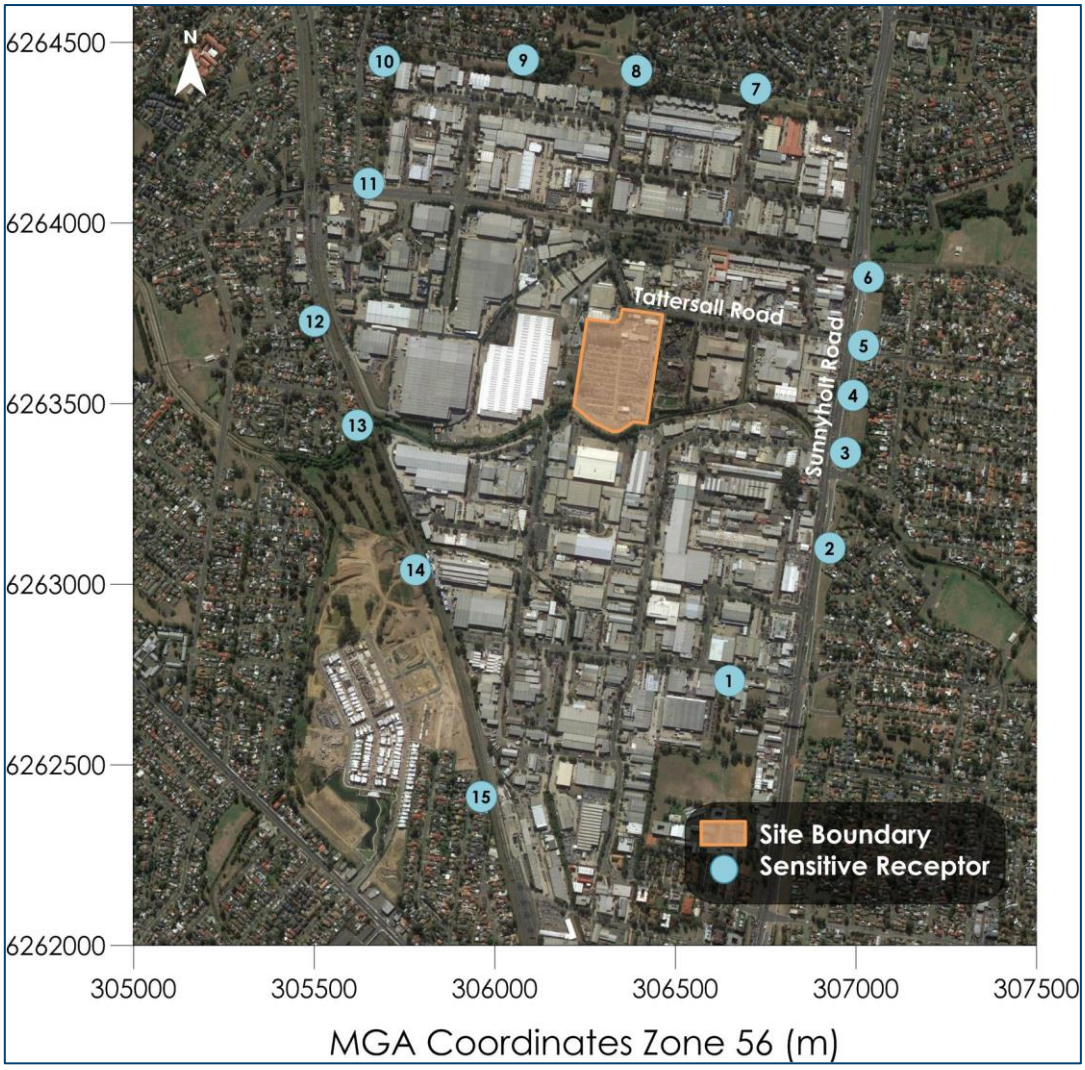

Figure 2-1: Project location

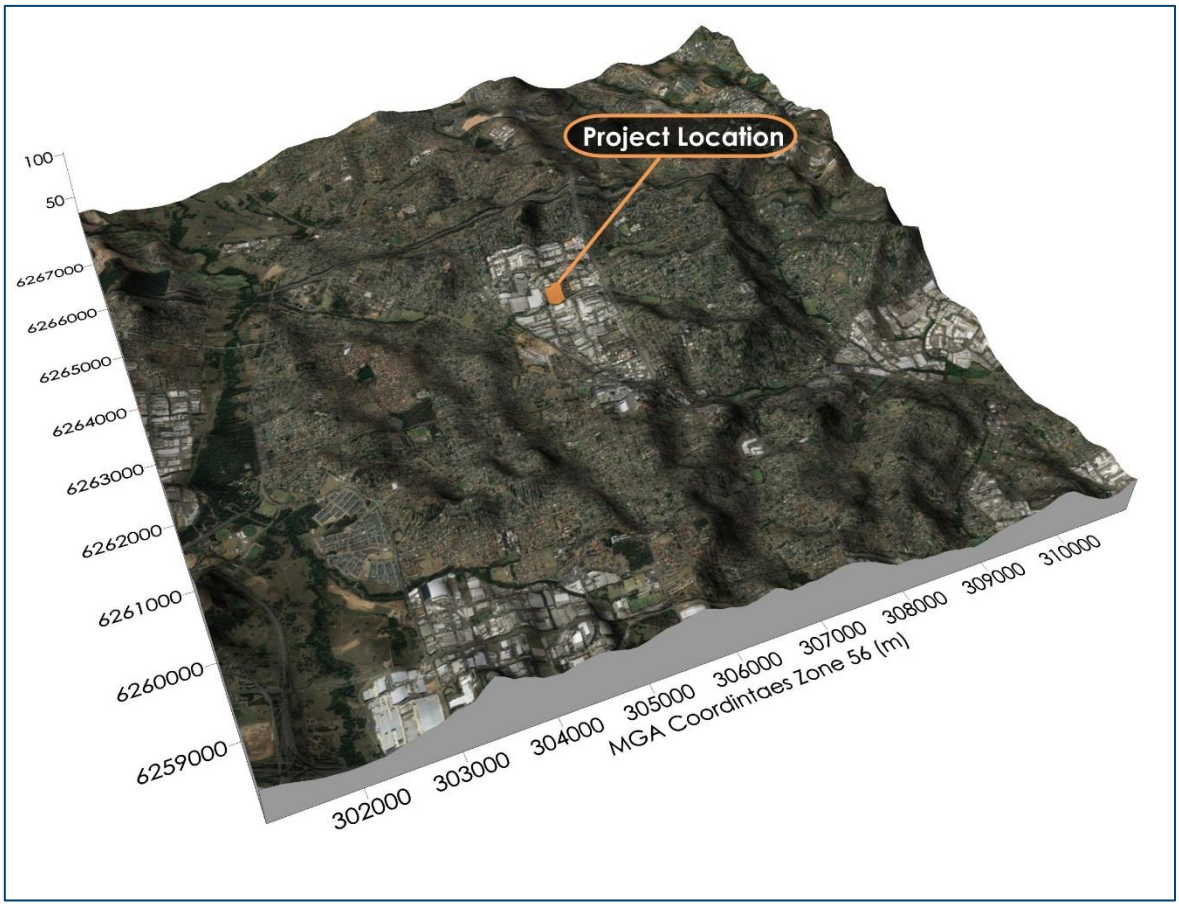

Figure 2-2: Representative view of topography surrounding the Project location

2.1.1 Existing operations

The existing site activities include the 'Pick and Payless' spare parts operation and car shredding activities. The site has a processing capacity of 30,000 tonnes per annum, and is currently shredding approximately 9,000 tonnes of cars per annum.

The site is currently approved to operate between 8am to 5pm, Monday to Sunday.

2.1.2 Proposed operations

The proposed Project is seeking approval to allow certain materials to be processed at the site and increase processing capacity to 130,000 tonnes per annum. The composition of materials to be processed is anticipated to comprise:

- <1% copper wire;
- 10% cars;
- 70% light gauge scrap metal; and
- 20% heavy gauge metal.

The Project proposes to extend the sites operational hours to 6am to 6pm, Monday to Sunday.

The scrap metal processing and shearing are to be conducted on concreted areas. An indicative site layout is presented in **Figure 2-3**.

2.1.3 Process description

A brief summary of the Projects process operations is provided as follows:

- Materials are delivered by truck to the site.
- Any fluids and/or hazardous materials such as oils, coolant, petrol, airbags, batteries, gas tanks etc. are removed from cars.
- Copper wire is processed inside building B by a copper granulator system which includes shredding and screening.
- Light gauge materials are sorted into shreddable and non-shreddable scrap by eliminating gas bottles, stones or other materials not suitable for shredding.
- Heavy gauge materials are sorted to eliminate materials that are not suitable for shearing.
- Cars and light gauge scrap metal are processed by a Taurus Redline Bravo B16H pre-shredder to create a homogeneous feed which is then fed into the Thor 2121 K hammermill shredder, with a capacity of 30 tonnes per hour.
- Shredded material is sorted automatically into ferrous and non-ferrous material. Approximately 80% ferrous metal and 4% non-ferrous metal is anticipated with the remaining 16% as waste.
- Non-ferrous metals and waste are sorted by the following plant equipment:
  - ZORBA plant (rotating trammel, 'flip flop' screen and eddy current separators);
  - ZURIK plant (induction sorting and sensor sorting for insulated copper wire);
  - Finesmaster (magnetic separator and eddy current separators); and
  - KSS sensor sorter.
- Heavy gauge scrap is put through the shear.
- Sorted materials are stockpiled before materials are loaded to trucks for off-site recycling.

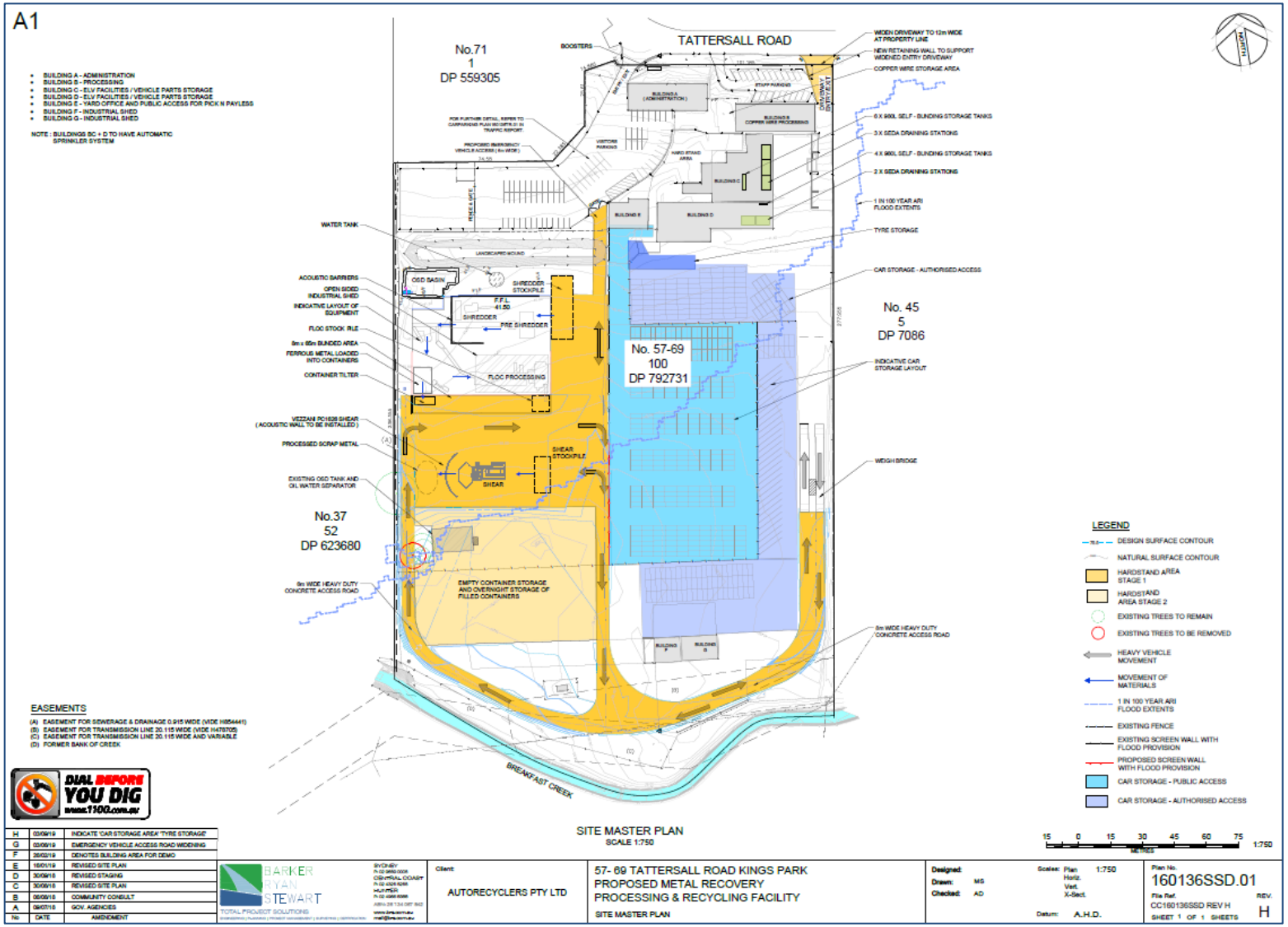

Figure 2-3: Indicative site plan layout

3 AIR QUALITY 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 potential air emissions generated by the Project and the applicable air quality criteria.

Table 3-1 summarises the air quality goals that are relevant to this study as outlined in the NSW EPA document *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (**NSW EPA, 2017a**).

Table 3-1: Air quality impact assessment criteria adopted for Project

Pollutant	Averaging period	Percentile	Concentration		Units	Assessment location
Deposited Dust	Annual	100	2[a]	4[b]	g/m^2/month	Receptor
TSP	Annual	100	90		µg/m^3	Receptor
Particulate matter ≤10µm (PM_{10})	Annual	100	25		µg/m^3	Receptor
	24-hour	100	50		µg/m^3	Receptor
Particulate matter ≤2.5µm (PM_{25})	Annual	100	8		µg/m^3	Receptor
	24-hour	100	25		µg/m^3	Receptor
Lead	Annual	100	0.5		µg/m^3	Receptor
Manganese and compounds	1-hour	99.9	0.018		mg/m^3	Boundary
Magnesium oxide fumes	1-hour	99.9	0.18		mg/m^3	Boundary
Iron oxide fumes	1-hour	99.9	0.09		mg/m^3	Boundary
Chromium III compounds	1-hour	99.9	0.009		mg/m^3	Boundary
Chromium VI compounds	1-hour	99.9	0.00009		mg/m^3	Boundary
Copper dusts and mists	1-hour	99.9	0.018		mg/m^3	Boundary
Zinc oxide fumes	1-hour	99.9	0.09		mg/m^3	Boundary
Nickel and nickel compounds	1-hour	99.9	0.00018		mg/m^3	Boundary
Odour	Nose-response time	99	2[c]		OU	Receptor

[a] Maximum increase in deposited dust level

[b] Maximum total deposited dust level

[C] Assessment criteria for urban population as per the Approved Methods affected population selection criteria

4 EXISTING ENVIRONMENT

This section describes the existing environment including the climate and ambient air quality in the area surrounding the Project.

4.1 Local climatic conditions

Long-term climatic data from the Bureau of Meteorology (BoM) weather station at Horsley Park Equestrian Centre Automatic Weather Station (AWS) (Site No. 067119) were used to characterise the local climate in the proximity of the Project. The Horsley Park AWS is located approximately 12.5km southwest of the Project.

Table 4-1 and **Figure 4-1** present a summary of data from the Horsley Park station collected over an approximate 13 to 20-year period for the various meteorological parameters.

The data indicate that January is the hottest month with a mean maximum temperature of 29.8 degrees Celsius (ºC) and July as the coldest month with a mean minimum temperature of 5.9ºC.

Rainfall exhibits variability and seasonal fluctuations across the year. The data indicate that February is the wettest month with an average rainfall of 108.7 millimetres (mm) over 7.3 days and September is the driest month with an average rainfall of 35.8mm over 5.0 days.

Humidity levels exhibit variability and seasonal flux across the year. Mean 9am humidity levels range from 61 per cent (%) in October to 81% in March. Mean 3pm humidity levels range from 42% in August and September to 55% in June.

Mean 9am wind speeds range from 8.9 kilometres per hour (km/h) in March to 12.5km/h in October. Mean 3pm wind speeds range from 12.9km/h in June to 19.9km/h in December.

Table 4-1: Monthly climate statistics summary – Horsley Park Equestrian Centre AWS

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
Temperature													
Mean max. temperature (ºC)	29.8	28.7	26.8	23.7	20.5	17.6	17.2	19.0	22.3	24.7	26.5	28.2	23.7
Mean min. temperature (ºC)	17.8	17.8	16.1	12.9	9.0	7.2	5.9	6.5	9.4	11.7	14.4	16.2	12.1
Rainfall													
Rainfall (mm)	78.6	108.7	80.6	76.3	46.8	76.7	39.4	40.7	35.8	54.9	81.3	64.6	769.2
Mean No. of rain days (≥1mm)	7.8	7.3	8.0	7.2	5.5	6.3	5.6	4.5	5.0	5.6	7.1	7.0	76.9
9am conditions													
Mean temperature (ºC)	22.0	21.5	19.4	17.5	13.8	11.1	10.3	12.0	15.6	18.1	19.2	20.9	16.8
Mean relative humidity (%)	73	77	81	76	77	80	78	70	65	61	70	71	73
Mean wind speed (km/h)	10.1	9.7	8.9	10.5	10.7	10.3	10.8	11.7	12.2	12.5	11.8	10.7	10.8
3pm conditions													
Mean temperature (ºC)	28.2	27.1	25.3	22.2	19.2	16.6	16.1	17.8	20.8	22.5	24.2	26.5	22.2
Mean relative humidity (%)	49	53	54	53	52	55	50	42	42	45	50	48	49
Mean wind speed (km/h)	19.4	17.0	14.8	14.4	13.0	12.9	13.9	16.1	18.1	19.8	19.5	19.9	16.6

Source: **Bureau of Meteorology, 2017 (accessed May 2017)**

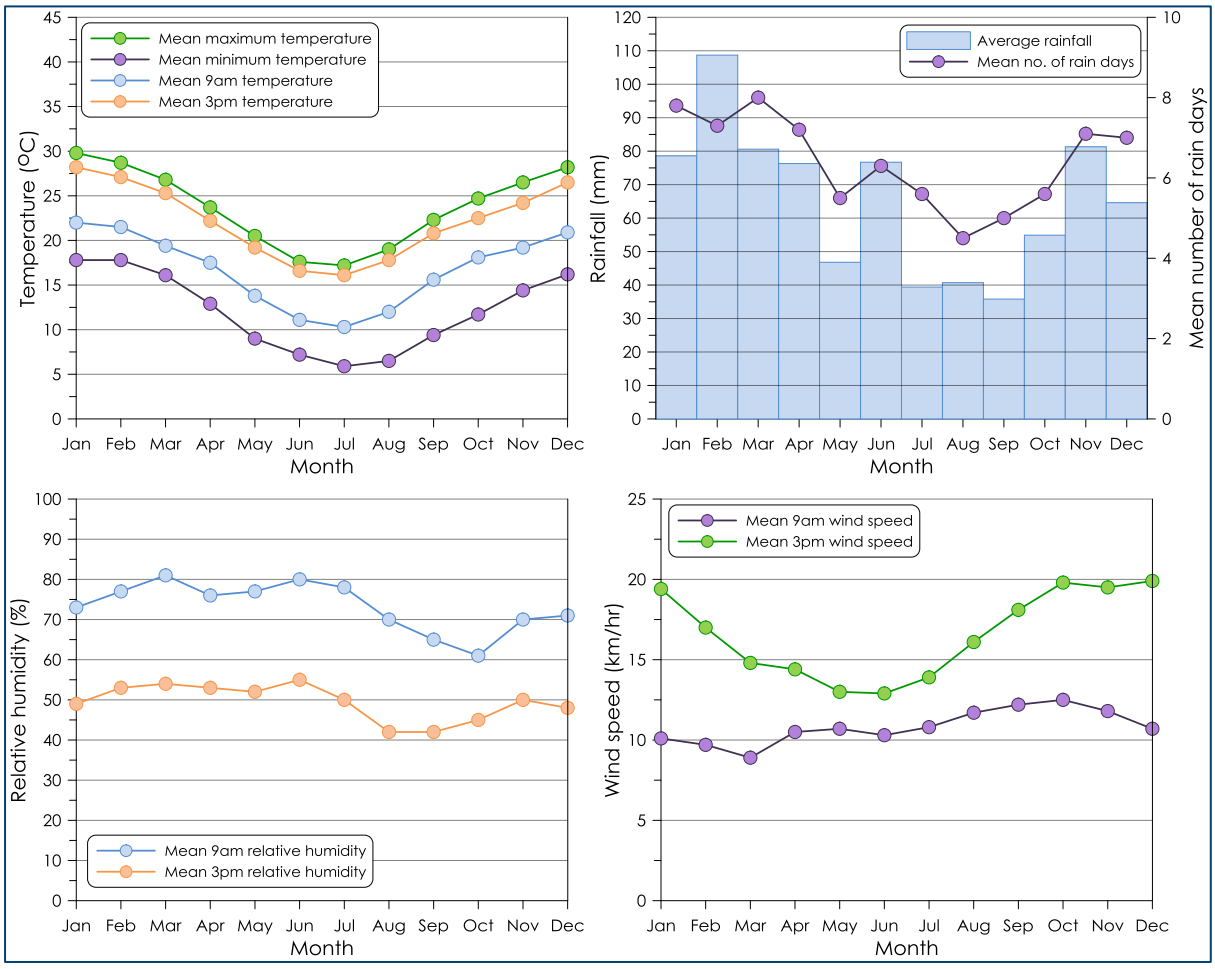

Figure 4-1: Monthly climate statistics summary – Horsley Park Equestrian Centre AWS

4.2 Local meteorological conditions

A review of the latest five years of available meteorological data, found the 2015 calendar period to be representative of the area based on a long-term meteorological analysis of data collected from the Horsley Park Equestrian Centre AWS. Annual and seasonal windroses prepared from data collected for the 2015 calendar year are presented in **Figure 4-2**.

Analysis of the windroses shows that on an annual basis, winds are predominately from the southwest sector. During summer, winds from the south and east sectors are most frequent. The autumn and spring distributions are similar to the annual distribution, with prevailing winds from the southwest. During winter time the highest percentage of winds come from the southwest and west-southwest.

The windroses show a wind distribution pattern that is generally typical of the expected patterns for this area.

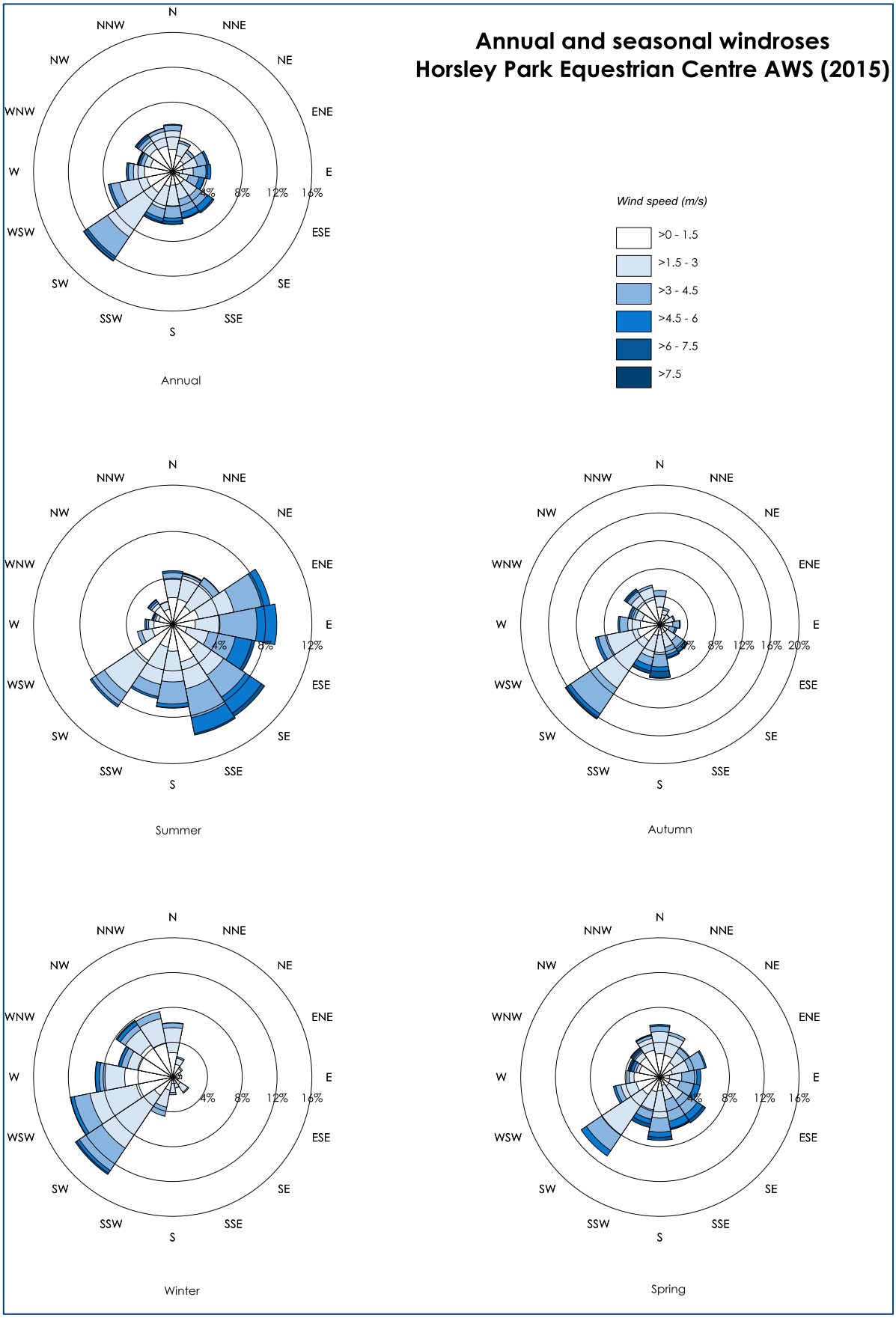

Figure 4-2: Annual and seasonal windroses for Horsley Park Equestrian Centre AWS (2015)

4.3 Ambient air quality

The main sources of air pollutants in the area surrounding the Project include emissions from local anthropogenic activities (such as motor vehicle exhaust and domestic wood heaters), agricultural activities, and industrial and commercial activities.

Available data from the nearest air quality monitors operated by the NSW Office of Environment and Heritage (OEH) were used to quantify the existing background level for assessed pollutants at the Project site.

The NSW OEH air quality monitoring station at Prospect is located approximately 5km south of the Project site. Data from the Prospect monitoring site are considered the most representative of the background levels in the vicinity of the Project site. Data from this monitor have therefore been used to quantify the existing ambient levels of air pollutants in this study.

4.3.1 PM_{10} monitoring

A summary of the available PM_{10} data from the Prospect monitoring site is presented in **Table 4-2**. Recorded 24-hour average PM_{10} concentrations are presented in **Figure 4-3**.

A review of **Table 4-2** indicates that the annual average PM_{10} concentrations at Prospect were below the relevant criterion of 25µg/m^3. The maximum 24-hour average PM_{10} concentrations recorded at Prospect were found to exceed the relevant criterion of 50µg/m^3 in 2013, 2015 and 2016.

Table 4-2: Summary of PM_{10} levels from NSW OEH monitoring (µg/m^3)

Year	Prospect	Criteria
Annual average		
2012	17.3	25
2013	19.2	25
2014	17.6	25
2015	17.6	25
2016	18.9	25
Maximum 24-hour average		
2012	38.7	50
2013	**81.8**	50
2014	44.3	50
2015	**68.7**	50
2016	**110.1**	50

Figure 4-3 presents the 24-hour average for PM_{10} concentrations recorded at the Prospect monitoring site from January 2012 to December 2016. The monitoring data reviewed indicate that the 24-hour average PM_{10} levels were at times above the NSW EPA 24-hour average goal of 50µg/m^3 during the period reviewed. These exceedances can be attributed to local and regional events such as bushfires and dust storms.

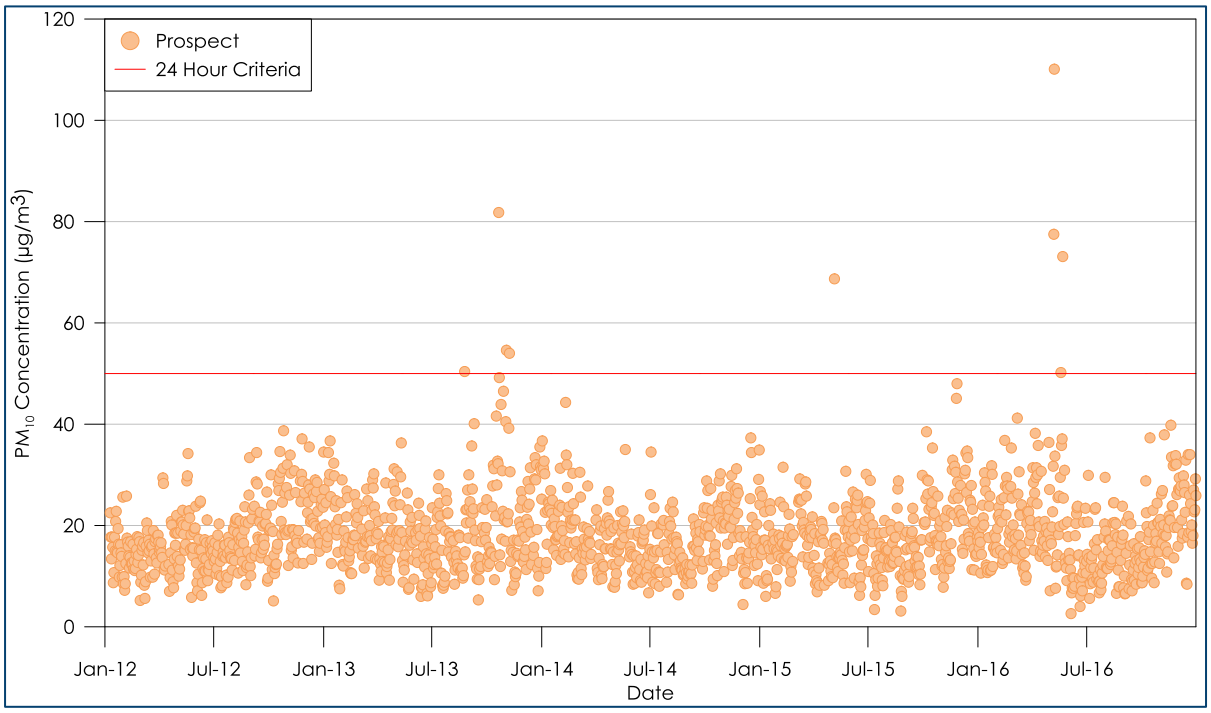

Figure 4-3: Daily 24-hour average PM_{10} concentrations

4.3.1 $PM_{2.5}$ monitoring

A summary of the available $PM_{2.5}$ data from the Prospect monitoring site is presented in **Table 4-3**. The recorded 24-hour average $PM_{2.5}$ concentrations are presented in **Figure 4-4**.

A review of **Table 4-3** indicates that the annual average $PM_{2.5}$ concentrations at Prospect were above the relevant criterion of 8µg/m³. The maximum 24-hour average $PM_{2.5}$ concentrations recorded at the Prospect monitor were on occasion above the relevant criterion of 25µg/m³.

Table 4-3: Summary of $PM_{2.5}$ levels from NSW OEH monitoring (µg/m³)

Year	Prospect	Criteria
Annual average		
2015	8.2	8
2016	8.7	8
Maximum 24-hour average		
2015	29.6	25
2016	84.9	25

Figure 4-4 presents the daily 24-hour average for $PM_{2.5}$ concentrations recorded at the Prospect NSW OEH monitoring sites from January 2015 to December 2016. The monitoring data reviewed indicate that the 24-hour average $PM_{2.5}$ exceeded the NSW EPA 24-hour average goal of 25µg/m³ during the period reviewed. These exceedances can be attributed to local and regional events such as bushfires and dust storms.

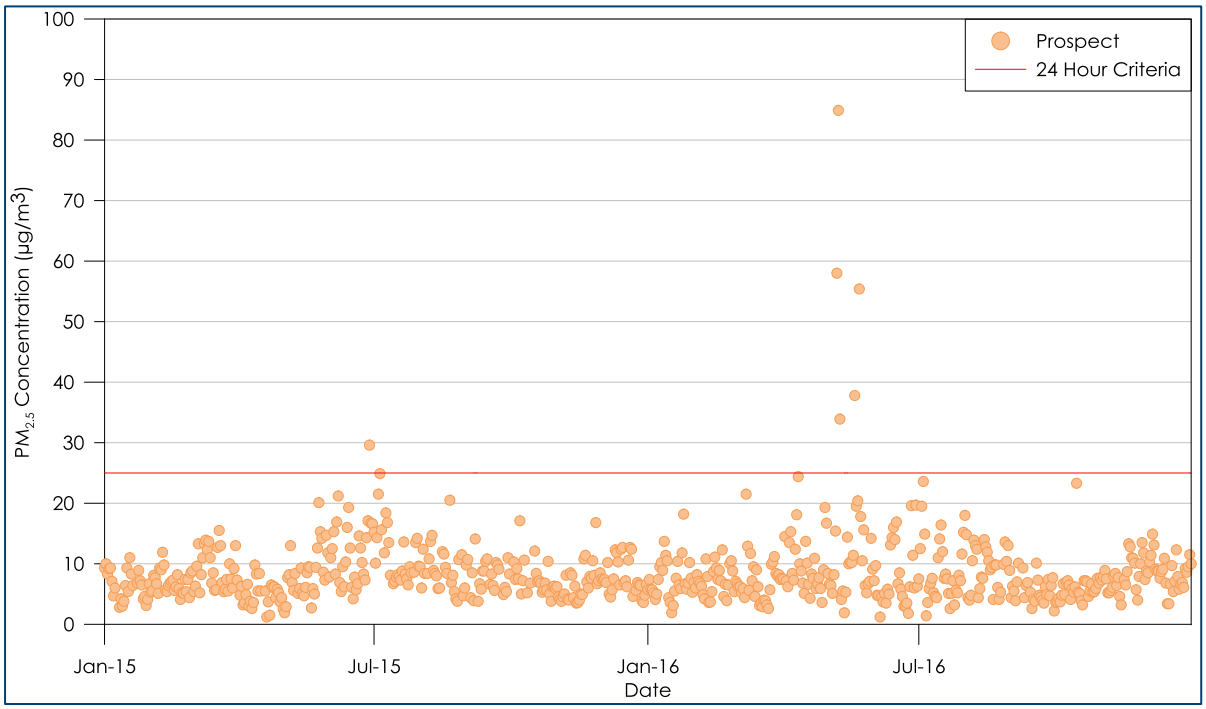

Figure 4-4: Daily 24-hour average $PM_{2.5}$ concentrations

4.3.1 Estimated background air quality levels

4.3.1.1 PM_{10} and $PM_{2.5}$ concentrations

In correlation with the meteorological data set used, the 2015 year data set was selected to represent background concentrations at the subject site and surrounding sensitive receptors.

As outlined above, there are no readily available site specific monitoring data for the site, and therefore, the background dust levels for the Project site were assumed to be similar to those at the NSW OEH monitoring site at Prospect.

The annual average PM_{10} and $PM_{2.5}$ values from the Prospect monitoring station for the 2015 calendar period were used to represent the background levels for the Project.

As shown in **Table 4-3**, the background concentration of $PM_{2.5}$ exceeds the annual average criteria of 8µg/m^3. To demonstrate compliance, the contribution of $PM_{2.5}$ from the Project should be minimal or otherwise best management practices will be implemented to minimise $PM_{2.5}$ emissions as far as is practical.

4.3.1.2 TSP and Deposited dust

In the absence of data, estimates of the annual average background TSP and deposited dust concentrations can be determined from a relationship between $PM_{10,}$ TSP and deposited dust concentrations and the measured PM_{10} levels.

This relationship assumes that an annual average PM_{10} concentration of 25µg/m^3 corresponds to a TSP concentration of 90µg/m^3 and a dust deposition value of 4g/m^2/month. This assumption is based on the NSW EPA air quality impact criteria.

Applying this relationship with the measured annual average PM_{10} concentration of 17.6µg/m^3 in 2015, results in an approximate annual average TSP concentration and deposition value of 63.4µg/m^3 and 2.8g/m^2/month, respectively.

4.3.1 Summary of background pollutant concentrations

The annual average background concentrations applied in this assessment are outlined in **Table 4-4.**

Table 4-4: Summary of background pollutant concentrations

Pollutant	Averaging Period	Units	Value
PM_{10}	Annual	µg/m^3	17.6
$PM_{2.5}$	Annual	µg/m^3	8.2
TSP	Annual	µg/m^3	63.4
Deposited dust	Annual	g/m^2/month	2.8

Ambient (background) concentration data for PM_{10} and $PM_{2.5}$ data from Prospect have been applied in the Level 2 contemporaneous assessment of 24-hour average impacts.

5 DISPERSION MODELLING APPROACH

5.1 Introduction

The following sections are included to provide the reader with an understanding of the model and modelling approach applied for the assessment.

The CALPUFF model is an advanced "puff" model which can deal with the effects of complex local terrain on the dispersion meteorology over the entire modelling domain in a three-dimensional, hourly varying time step. CALPUFF is an air dispersion model approved by NSW EPA for use in air quality impact assessments. The model setup used is in general accordance with methods provided in the NSW EPA document *Generic Guidance and Optimum Model Setting for the CALPUFF Modeling System for Inclusion into the 'Approved Methods for the Modeling and Assessments of Air Pollutants in NSW, Australia* (**TRC**, **2011**).

5.2 Modelling methodology

5.2.1 Meteorological modelling

TAPM was applied to generate a 3D upper air data file for use in CALMET. The centre of analysis for TAPM was 33deg45min south and 150deg54.4min east (306342mE, 6263568mN). The simulation involved an outer grid of 30km, with three nested grids of 10km, 3km and 1km with 35 vertical grid levels.

The CALMET model was run for a single domain on a 10 x 10km area with 0.1km grid resolution. With the available meteorological data from the Penrith Lakes and Horsley Park Equestrian Centre BoM stations for January 2015 to December 2015 included in the simulation. CALMET generated meteorological data were extracted from a point within the CALMET domain and are graphically represented in **Figure 5-1** and **Figure 5-2**.

Figure 5-1 presents the annual and seasonal windroses from the CALMET data. The CALMET modelling results reflect the expected wind distribution patterns of the area based on consideration of the data measured at the Horsley Park and Penrith Lakes weather stations, the TAPM meteorological data and the expected terrain effects on the prevailing winds.

Figure 5-2 includes graphs of the temperature, wind speed, mixing height and stability classification over the modelling period and is consistent with the conditions expected to occur in the area.

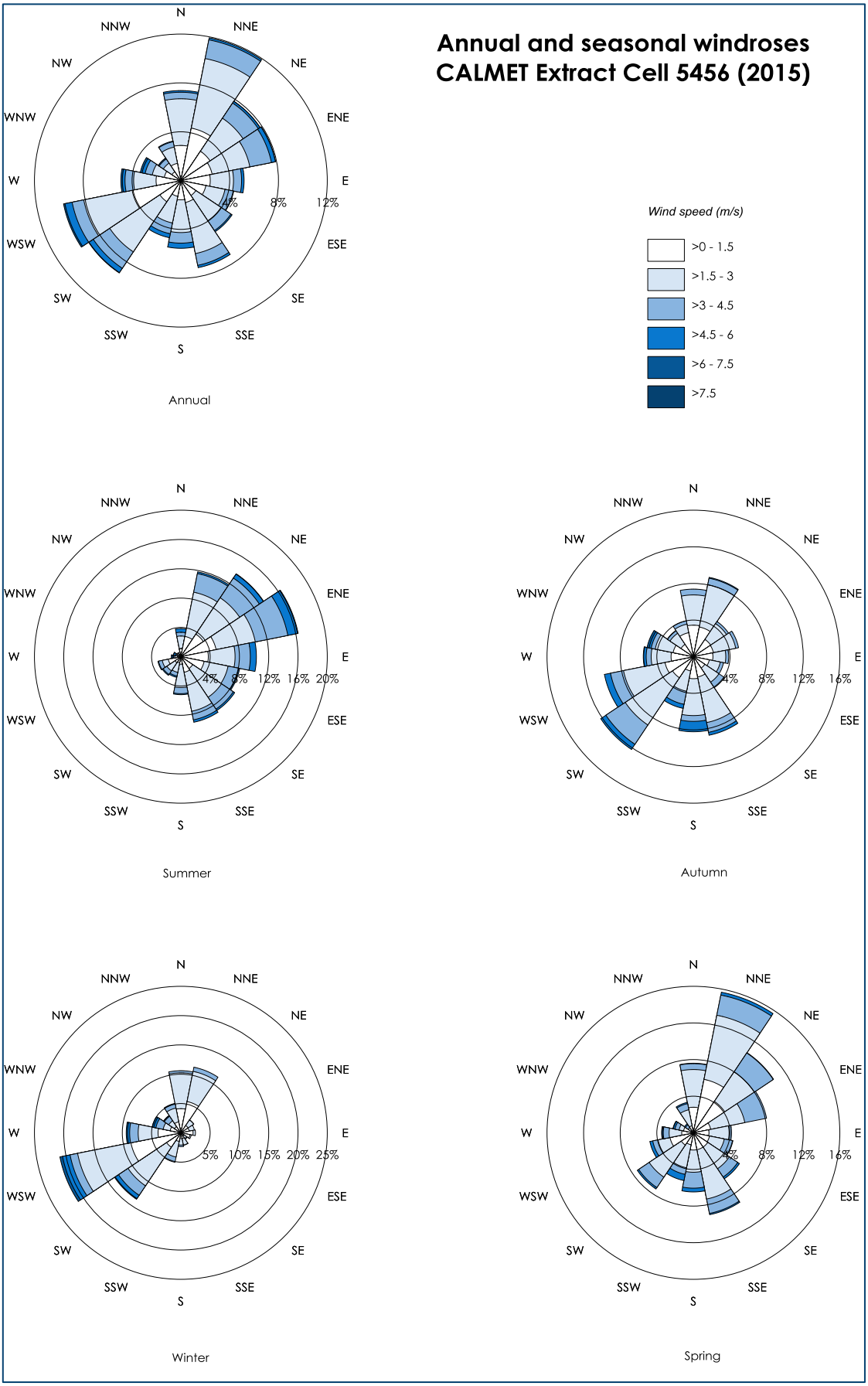

Figure 5-1: Windroses from CALMET extract (cell ref 5456)

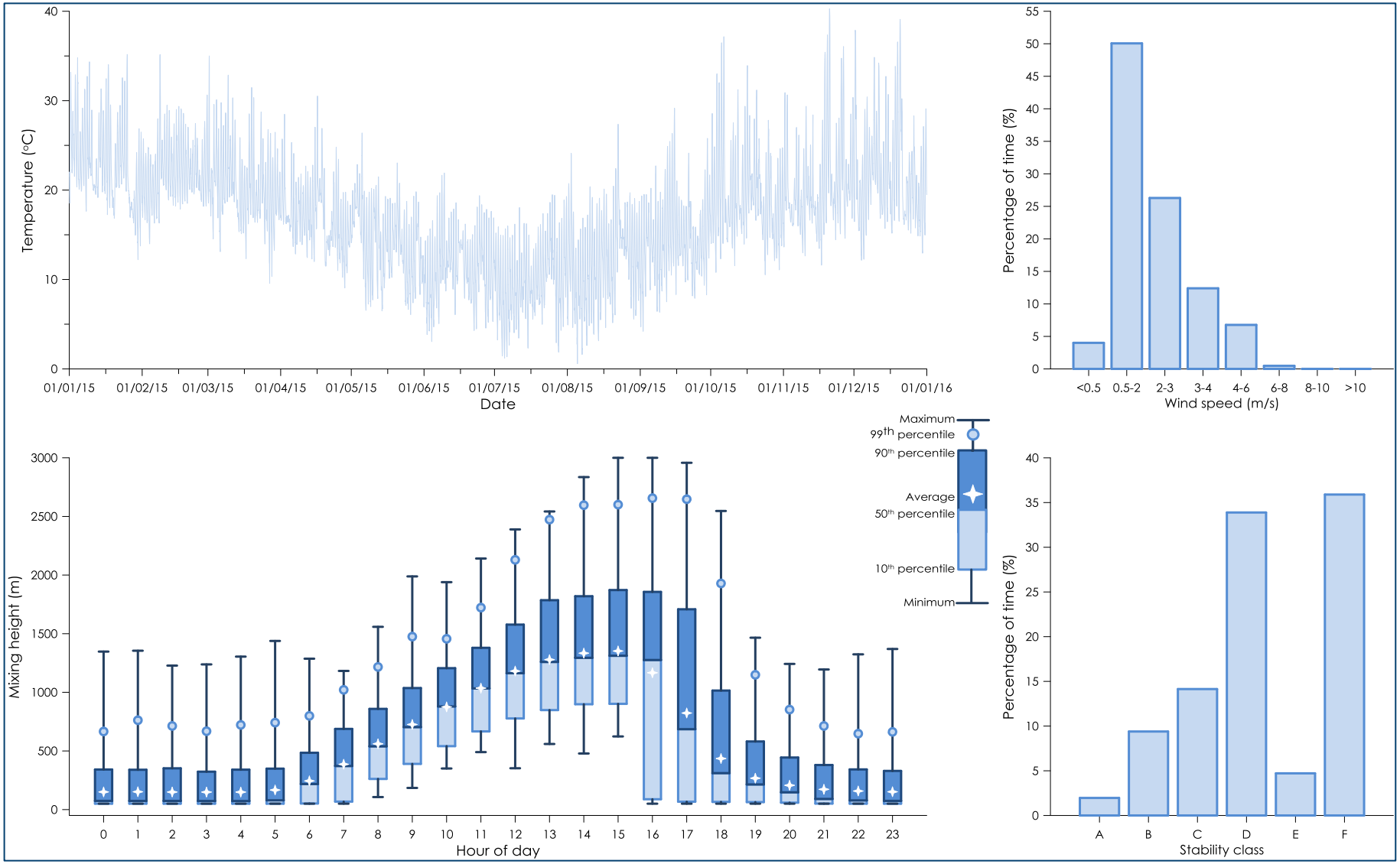

Figure 5-2: Meteorological analysis of CALMET extract (cell ref 5456)

5.2.2 Air dispersion modelling

The CALPUFF dispersion model was applied to provide predictions of the ground level concentrations of air pollutants based on the estimated emissions for the Project. 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.

5.3 Emission estimation

5.3.1 Dust

Activities associated with the Project have the potential to generate dust emissions from various activities including loading/unloading of material, sorting activities, shredding, conveying materials, screening materials, and windblown dust from the site. Movements of vehicles on the site may generate air emissions from the exhaust, brake wear and wheel generated dust when travelling on roads. **Table 5-1** provides a list of these activities and sources.

Dust emission estimates for the existing site and Project have been calculated by analysing the various types of dust generating activities taking place and utilising suitable emission factors sourced from both locally developed (**NPI 2012 and 2014**) and internationally developed documentation from the United States Environmental Protection Agency (US EPA) (**US EPA 1998 and 2006**).

The estimated dust emissions for activities associated with the site are presented in **Table 5-1**. Detailed calculations of the dust emission estimates are provided in the emissions inventory **Appendix A**. Where applicable, the implementation of proposed dust controls have been applied to the emission calculations. Further detail of the proposed control measures is provided in **Section 7**.

Table 5-1: Estimated annual dust emission rate for the Project (kg/year)

Activity	TSP emissions	PM_{10} emissions	$PM_{2.5}$ emissions
Hauling of copper wire (paved road)	2	0.3	0.1
Unloading of copper wire from truck	0.28	0.13	0.02
Loading copper wire to shredder	0.28	0.13	0.02
Conveying copper	0.28	0.13	0.02
Screening copper	3	1	0.3
Transfer of copper material to stockpiles	0.28	0.13	0.02
Unload copper materials to stockpiles	0.28	0.13	0.02
Loading copper materials to trucks for export off-site	0.28	0.13	0.02
Hauling copper material off-site	2	0.3	0.1
Hauling of waste/materials (paved road)	5,495	1,055	255
Unloading of materials from truck	152	72	11
Sorting to stockpiles	152	72	11
Transfer of material to stockpiles	152	72	11
Loading to shear	30	14	2
Shearing	30	14	2
Loading to pre-shredder and shredder	244	115	17
Conveying	244	115	17
Screening of non-ferrous metals	1,040	358	104
Transfer of material to stockpiles	152	72	11
Unload materials to stockpiles	152	72	11
Loading to trucks for export off-site	152	72	11
Hauling material off-site	5,595	1,074	260

Wind erosion of the site	4,650	2,325	350
Total emissions (not including copper granulating, pre-shredding or shredding)	**18,249**	**5,505**	**1,074**

Data provided by the hammermill shredder manufacturer indicates that under typical operating conditions the hammermill shredder emits 1kg of TSP per hour. This emission rate has also been applied for the pre-shredder and copper granulator. Dust emission estimates for the hammermill shredder have considered both uncontrolled and controlled scenarios. Control of shredder emissions is achieved via a "dust buster" system which essentially fills the shredder with foam to prevent the release of dust. The controlled scenario applies an 85% reduction with the use of the dust buster system.

The copper granulator has conservatively been modelled as uncontrolled. The equipment includes a dust bag filter system and as such the levels of dust generated from this source would be lower than those predicted.

Table 5-2: Estimated annual dust emission rate from the pre-shredder, hammermill shredder and copper granulator (kg/year)

Equipment	Scenario	TSP emissions	PM_{10} emissions	$PM_{2.5}$ emissions
Pre-shredder	Uncontrolled	3,467	1,733	867
Hammermill shredder	Uncontrolled	3,467	1,733	867
	Controlled	520	260	130
Copper granulator	Uncontrolled	300	150	75

5.3.2 Odour

Odour emission data were obtained from the EML testing report for the hammermill located at the adjacent Sell and Parker site, **EML (2014)**. The maximum concentration measured was 1,600 OU. This value has been adopted as a representative odour concentration from a scrap metal shredder and pre-shredder.

The hammermill shredder has two openings, one for the materials input and one for the materials output. Based on design specifications the opening area of the inlet was estimated to be approximately 8.9m^2 and the opening area of the outlet was estimated to be approximately 1.7m^2.

The pre-shredder similarly has two openings, one for the materials input and one for the materials output. Based on design specifications the opening area of the inlet and outlet are each approximately 8.1m^2.

An uncontrolled odour emission rate of 19,486OU/m^3/s was calculated for the hammermill shredder based on an air throughput velocity of 0.5m/s and a peak to mean ratio of 2.3 per the *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (**NSW EPA 2017a**). An uncontrolled odour emission rate of 29,918 OU/m^3/s was similarly determined for the pre-shredder.

Whilst the foam dust suppression system would significantly reduce the emission of odour from the shedding operations, for conservatism, no reduction in the uncontrolled odour emission rate from the shredder has been applied in the modelling assessment.

5.3.3 Other Pollutants

The US EPA *Speciate Data Browser for Auto Body Shredding – Composite* (**US EPA, 2009**) has been used to determine potential metal dust emissions from the pre-shredder and hammermill shredder. **Table 5-3** outlines the percentage of metals to $PM_{2.5}$ as relevant to this study.

Table 5-3: Relevant metal speciation of $PM_{2.5}$ from auto body shredding

Pollutant	Weight (%)
Lead	0.49
Manganese	0.088
Magnesium	0.1
Iron	5.76
Chromium	0.04
Copper	0.1
Zinc	2.1
Nickel	0.031

$PM_{2.5}$ from the shredding, conveying, screening and transfer of processed material activities associated with the copper granulator equipment was assumed to be 50% copper (**US EPA, 2008**).

The following conservative assumptions were made in this assessment to allow comparison with the NSW air quality criteria:

- All magnesium is magnesium oxide;
- All iron is iron oxide;
- All zinc is zinc oxide; and,
- Chromium VI is 25% of total chromium.

A review of the available literature found limited specific information on the fraction of chromium VI from the total chromium generated from shredding activities. For example, an extensive, detailed evaluation in the Canadian publication *Background Study on the Content of Shredder Residue* (**2014**) for the Basel Convention does not specifically reference chromium VI.

Studies that did examine the fraction of chromium VI are concerned with activities like metal arc welding indicated chromium VI percentages (of total chromium) in the range of 0.3 to 12.5 percent (**Cena et, al. 2014, Eagar et, al. 1998 and Yoon et, al. 2003**).

Due to the physical mechanisms involved in shredding, rather than the chemical heat processes involved in welding, the fraction of chromium VI (in total chromium) would be less for shredding. Nevertheless, for conservatism, an assumed fraction of 25% chromium VI of total chromium has been applied, which is double that of the highest value identified in the literature.

5.3.4 Neighbouring operation – cumulative effects

The air emissions presented in *Waste Metal Recovery Processing and Recycling Facility, 45 and 23-43 Tattersall Road, Kings Park, Blacktown* prepared by **ERM (2015)** for that facility, were included in the modelling for this Project and applied when assessing the cumulative impacts for particles, odour and lead at the receptors.

6 DISPERSION MODELLING RESULTS AND DISCUSSION

6.1 Dust concentrations

Table 6-1 presents the predicted particulate dispersion modelling results at each of the assessed sensitive receptor locations for both scenarios with and without controls on the hammermill shredder. The results show minimal incremental effects would arise at the sensitive receptor locations due to the Project. As the incremental effect is small, the results also show that the overall difference between the controlled and uncontrolled scenarios is minor.

Figure 6-1 to **Figure 6-6** present pollutant concentration isopleths showing the spatial distribution of the predicted controlled incremental impacts associated with the operation of the site (including existing activities and the Project) over the modelling domain for maximum 24-hour average $PM_{2.5}$ and PM_{10}, and annual average $PM_{2.5}$, PM_{10}, TSP and deposited dust (DD) levels.

Table 6-1: Particulate dispersion modelling results for sensitive receptors – Incremental impact*

Receptor ID	Controlled						Uncontrolled					
	$PM_{2.5}$ (µg/m³)		PM_{10} (µg/m³)		TSP (µg/m³)	DD (g/m²/month)	$PM_{2.5}$ (µg/m³)		PM_{10} (µg/m³)		TSP (µg/m³)	DD (g/m²/month)
	24-hour average	Annual average	24-hour average	Annual average	Annual average	Annual average	24-hour average	Annual average	24-hour average	Annual average	Annual average	Annual average
Criteria	-	-	-	-	-	**2**	-	-	-	-	-	**2**
R1	0.5	<0.1	1.8	0.1	0.2	<0.1	0.8	0.1	2.2	0.1	0.3	<0.1
R2	0.5	<0.1	1.5	0.1	0.2	<0.1	0.7	<0.1	1.9	0.1	0.3	<0.1
R3	1.0	0.1	3.0	0.2	0.3	<0.1	1.5	0.1	3.8	0.2	0.4	<0.1
R4	1.2	0.1	3.4	0.2	0.4	<0.1	1.7	0.1	4.3	0.2	0.5	<0.1
R5	1.1	0.1	3.0	0.2	0.5	<0.1	1.5	0.1	3.9	0.3	0.6	<0.1
R6	0.9	0.1	2.9	0.3	0.6	<0.1	1.3	0.1	3.6	0.3	0.6	<0.1
R7	0.8	0.1	2.4	0.2	0.3	<0.1	1.2	0.1	3.1	0.2	0.4	<0.1
R8	0.8	<0.1	2.1	0.1	0.3	<0.1	1.2	0.1	2.9	0.2	0.3	<0.1
R9	0.7	<0.1	1.9	0.1	0.3	<0.1	1.0	0.1	2.5	0.2	0.3	<0.1
R10	0.6	<0.1	1.4	0.1	0.2	<0.1	0.8	<0.1	2.0	0.1	0.2	<0.1
R11	0.8	<0.1	2.1	0.1	0.2	<0.1	1.2	0.1	2.8	0.2	0.3	<0.1
R12	0.9	<0.1	2.4	0.1	0.3	<0.1	1.3	0.1	3.2	0.2	0.3	<0.1
R13	0.8	0.1	2.3	0.2	0.4	<0.1	1.2	0.1	3.1	0.3	0.5	<0.1
R14	1.2	0.1	3.4	0.3	0.5	<0.1	1.8	0.1	4.5	0.3	0.6	<0.1
R15	0.6	<0.1	1.7	0.1	0.3	<0.1	0.8	0.1	2.2	0.2	0.3	<0.1
Maximum	**1.2**	**0.1**	**3.4**	**0.3**	**0.6**	**<0.1**	**1.8**	**0.1**	**4.5**	**0.3**	**0.6**	**<0.1**

*Total site impact including existing operations and Project

The predicted annual cumulative $PM_{2.5}$, PM_{10}, TSP and dust deposition levels would either be below the relevant criteria, or not cause additional exceedances of the criteria at the assessed sensitive receptor locations when including the estimated background levels set out in **Section 4.3.3**.

A summary of the maximum cumulative impacts for an annual averaging period is shown in **Table 6-2**. Note that levels need to be presented to two decimal places in order to show any effect. It is important to note that neither the measurement nor modelling can in fact accurately determine the concentrations of these pollutants at such low levels.

Overall, the modelling results show the Project would have a minimal impact at nearby assessed receptors and it is unlikely that the Project would result in any discernible change to existing background air quality levels. It is noted that the existing background $PM_{2.5}$ levels would already exceed the criterion value, as shown in red.

Table 6-2: Maximum predicted annual average particulate levels at sensitive receptors – Cumulative impact

Pollutant	Maximum controlled incremental impact at receptor*	Maximum uncontrolled incremental impact at receptor*	Predicted Sell and Parker impact	Measured background concentration	Maximum cumulative controlled impact at receptor	Maximum cumulative uncontrolled impact at receptor	Criteria	Units
$PM_{2.5}$	0.1	0.1	0.0	8.2	8.3	8.3	8	$\mu g/m^3$
PM_{10}	0.3	0.3	0.2	17.6	17.9	17.9	25	$\mu g/m^3$
TSP	0.6	0.6	0.4	63.4	64.0	64.0	90	$\mu g/m^3$
DD	<0.1	<0.1	0.0	2.8	2.8	2.8	4	g/m^2/month

*Total site impact including existing operations and Project

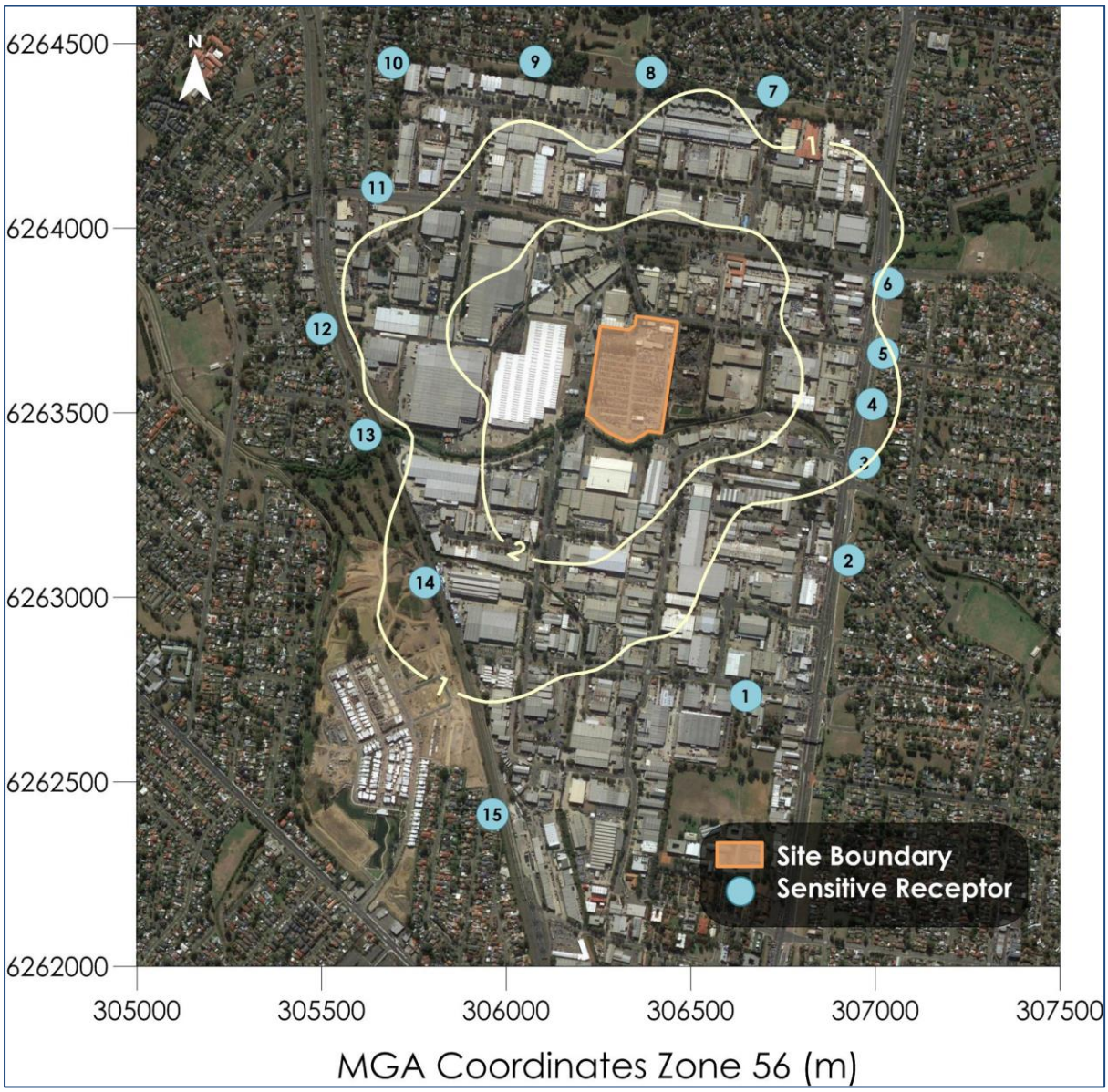

Figure 6-1: Predicted incremental maximum 24-hour average $PM_{2.5}$ concentrations (µg/m³)

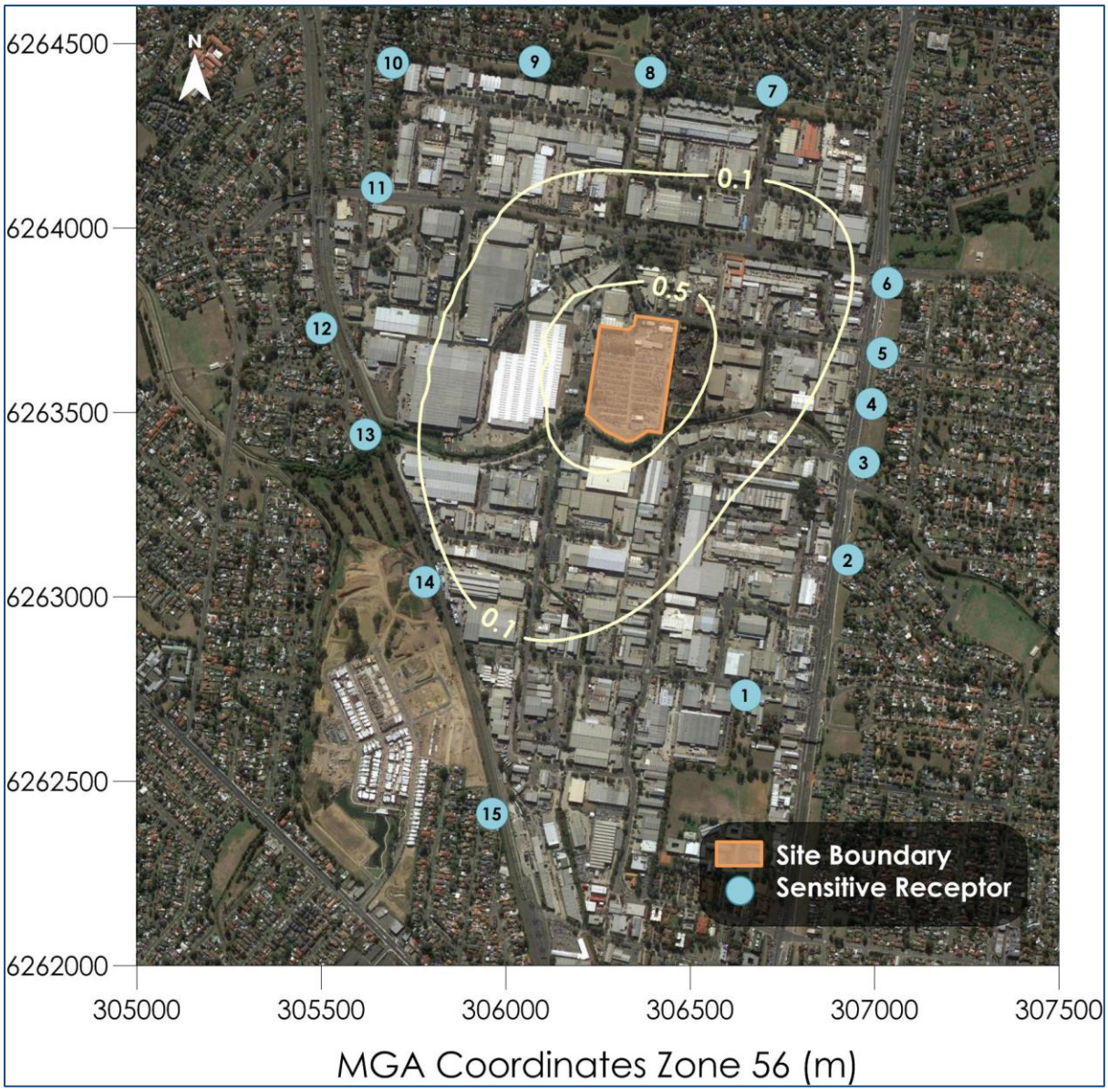

Figure 6-2: Predicted incremental annual average $PM_{2.5}$ concentrations (µg/m³)

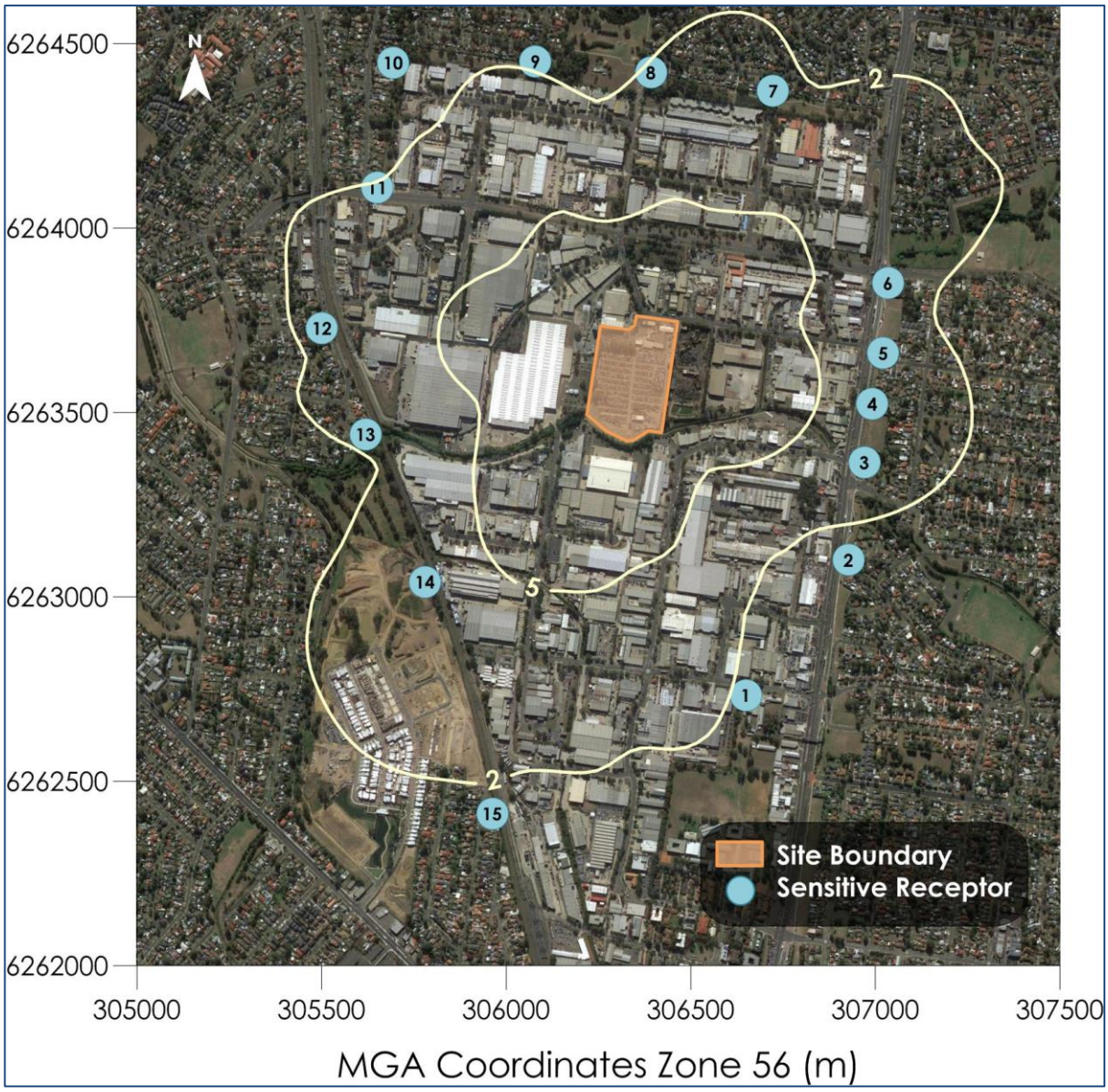

Figure 6-3: Predicted incremental maximum 24-hour average PM_{10} concentrations (µg/m³)

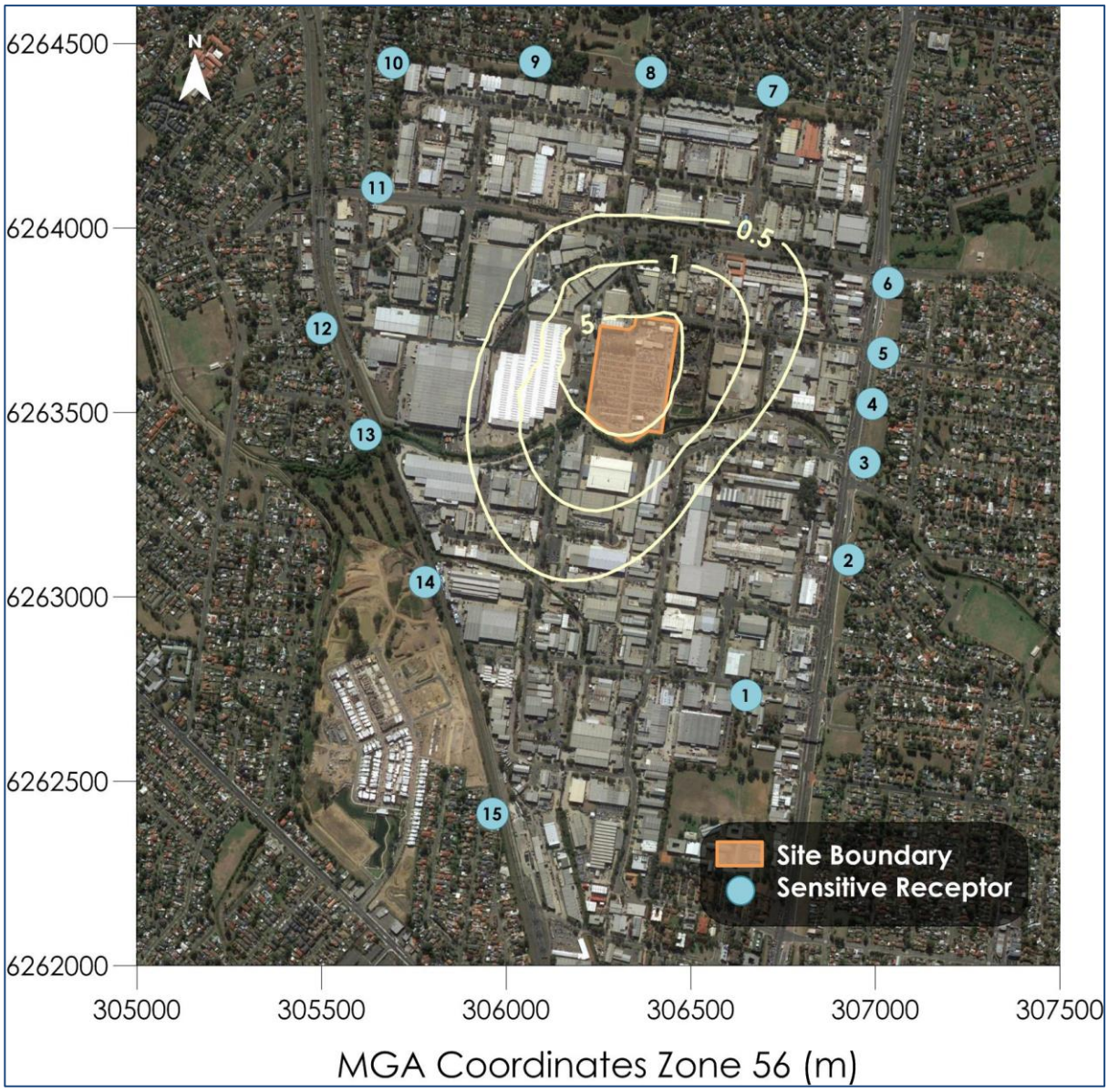

Figure 6-4: Predicted incremental annual average PM_{10} concentrations (µg/m³)

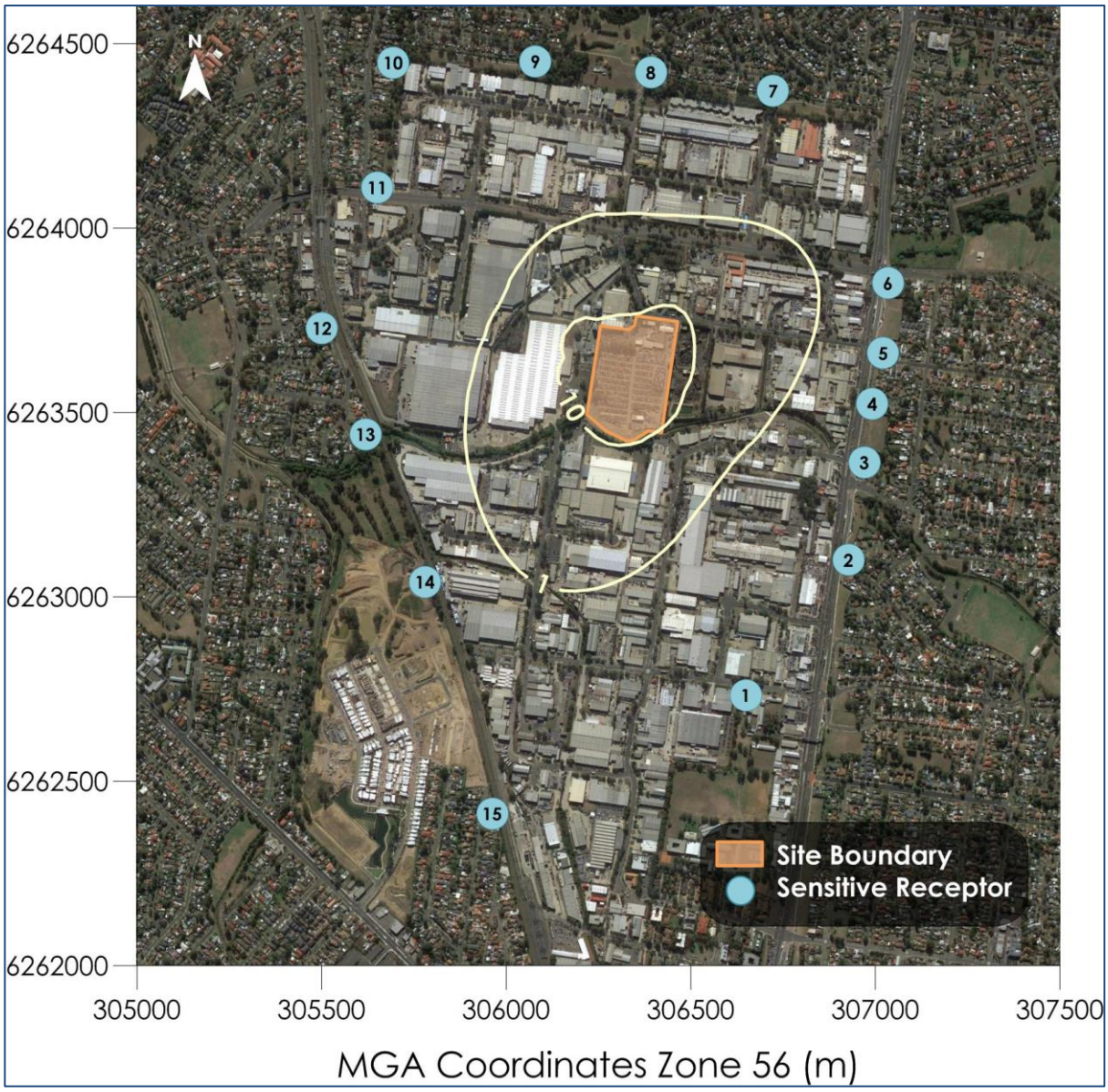

Figure 6-5: Predicted incremental annual average TSP concentrations (µg/m³)

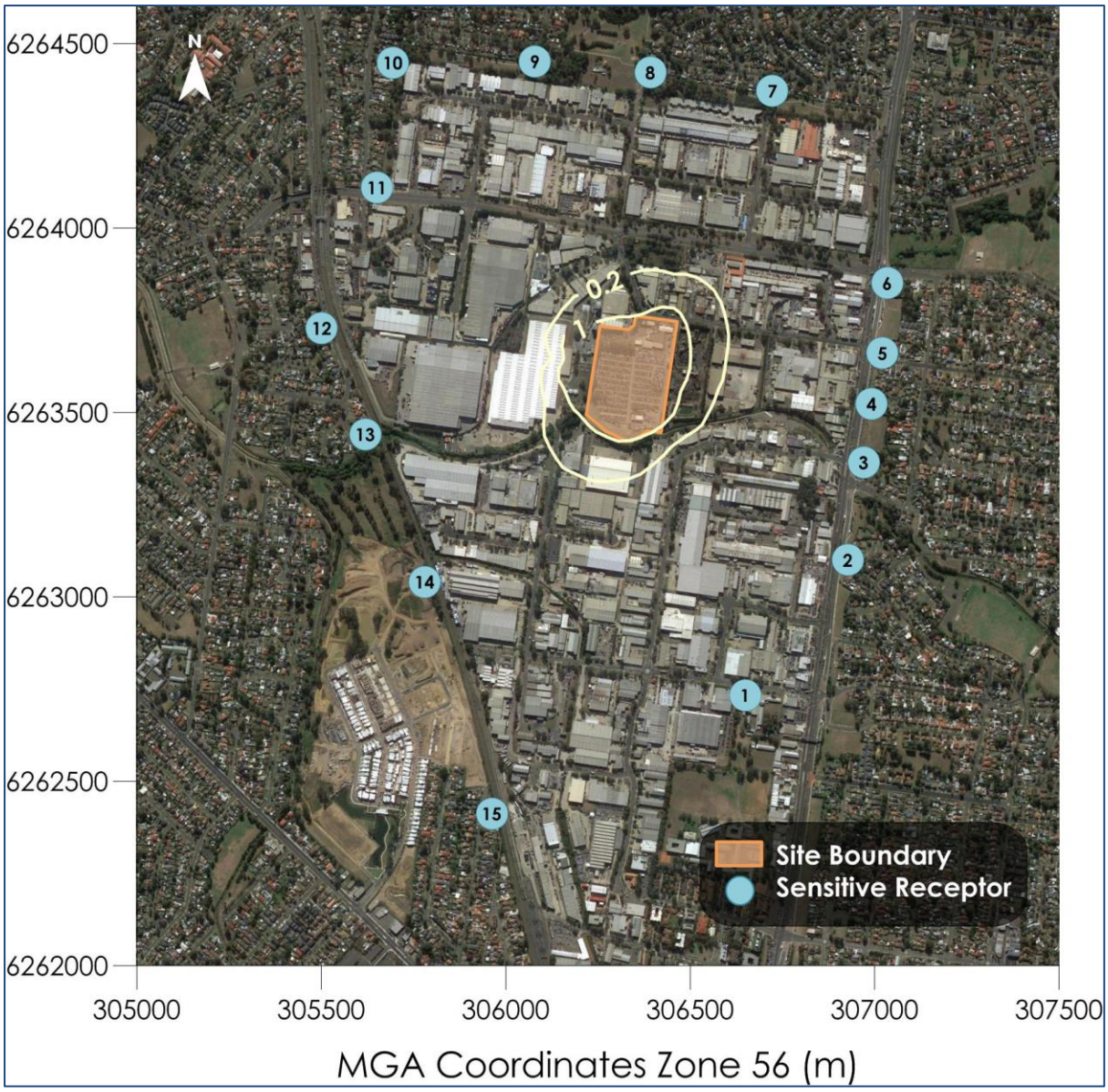

Figure 6-6: Predicted incremental annual average dust deposition levels (g/m²/month)

6.1.1 Assessment of Total (Cumulative) 24-hour average $PM_{2.5}$ and PM_{10} Concentrations

An assessment of total (cumulative) 24-hour average $PM_{2.5}$ and PM_{10} impacts was undertaken in accordance with the methods outlined in the *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (**NSW EPA**, **2017a**).

As shown in **Section 4.3** maximum background level data available for this assessment have in the past exceeded or come close to criterion level on occasion. As a result, the Level 1 NSW EPA approach of adding maximum background levels to maximum predicted levels from the Project would show levels above the criterion whether or not the Project was operating.

In such situations, the NSW EPA applies a Level 2 contemporaneous assessment approach where the measured background levels are added to the day's corresponding predicted dust level from the Project.

Ambient (background) dust concentration data corresponding with the year of modelling (2015) from the NSW OEH monitoring site at Prospect was added with the predicted contribution from the existing local sources to represent the prevailing local background levels at the surrounding sensitive receptors. The effects of the project were added to this to determine the total cumulative impact as set out in the tables in **Appendix B**.

Assessment of cumulative 24-hour average $PM_{2.5}$ and PM_{10} was conducted per the NSW EPA Level 2 contemporaneous assessment method as outlined in the *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (**NSW EPA**, **2017a**) to examine the potential maximum total (cumulative) 24-hour average $PM_{2.5}$ and PM_{10} impacts for the proposed Project

Table 6-3 and **Table 6-4** provide a summary of the findings from the Level 2 assessment at each assessed receptor location for the scenarios with and without controls respectively. The results for both scenarios are the same and indicate that it is unlikely that cumulative impacts would arise at the assessed receptor locations due to the Project. Detailed tables of the full assessment results are provided in **Appendix B**.

Table 6-3: NSW EPA contemporaneous assessment - maximum number of additional days above 24-hour average criterion (with controls)

Receptor ID	PM_{10}	$PM_{2.5}$
R1	0	0
R2	0	0
R3	0	0
R4	0	0
R5	0	0
R6	0	0
R7	0	0
R8	0	0
R9	0	0
R10	0	0
R11	0	0
R12	0	0
R13	0	0
R14	0	0
R15	0	0

Table 6-4: NSW EPA contemporaneous assessment - maximum number of additional days above 24-hour average criterion (without controls)

Receptor ID	PM_{10}	$PM_{2.5}$
R1	0	0
R2	0	0
R3	0	0
R4	0	0
R5	0	0
R6	0	0
R7	0	0
R8	0	0
R9	0	0
R10	0	0
R11	0	0

Receptor ID	PM_{10}	$PM_{2.5}$
R12	0	0
R13	0	0
R14	0	0
R15	0	0

6.2 Odour concentrations

Table 6-5 presents the predicted odour dispersion modelling results at each of the assessed sensitive receptor locations. The results show minimal incremental effects would arise at the sensitive receptor locations due to the Project.

Figure 6-7 presents odour concentration isopleths showing the spatial distribution of the predicted controlled incremental impacts associated with the operation of the Project (alone) over the modelling domain.

Table 6-5: Predicted 99th percentile ground level odour concentrations at sensitive receptors (OU)

Receptor ID	Project incremental (uncontrolled)	Sell and Parker incremental	Cumulative	Criteria
R1	0.1	0.0	0.2	2
R2	0.1	0.1	0.2	
R3	0.2	0.1	0.3	
R4	0.2	0.1	0.3	
R5	0.2	0.1	0.3	
R6	0.3	0.1	0.3	
R7	0.2	0.0	0.3	
R8	0.2	0.0	0.3	
R9	0.2	0.0	0.2	
R10	0.2	0.0	0.2	
R11	0.2	0.0	0.2	
R12	0.2	0.0	0.3	
R13	0.3	0.0	0.3	
R14	0.3	0.0	0.3	
R15	0.1	0.0	0.2	
Maximum	**0.3**	**0.1**	**0.3**	

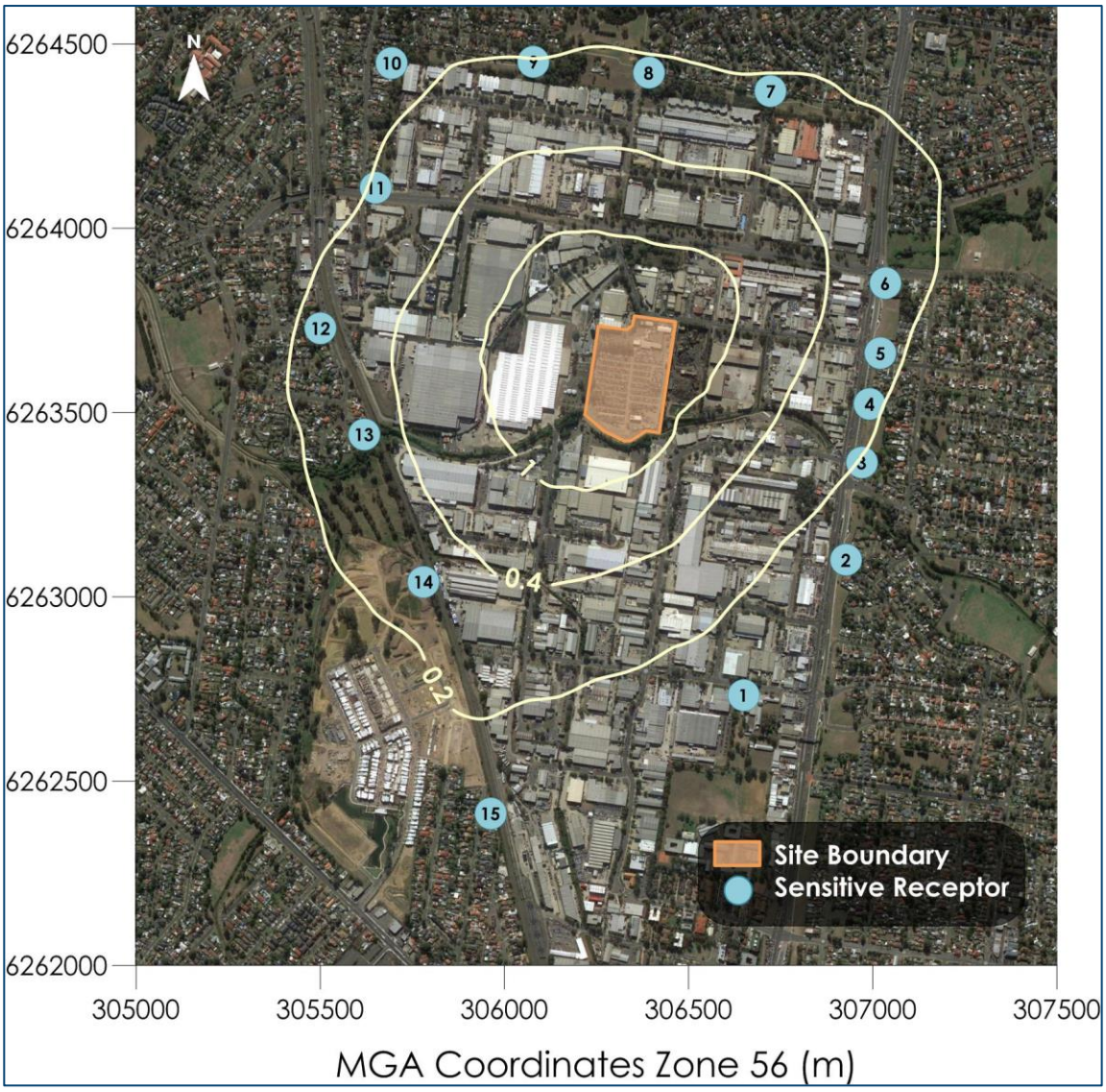

Figure 6-7: Predicted 99th percentile nose-response average ground level odour concentrations (OU)

6.3 Other pollutant concentrations

Table 6-6 presents the predicted lead dispersion modelling results at each of the assessed sensitive receptor locations. The results show minimal incremental effects would arise at the sensitive receptor locations due to the Project.

Table 6-7 gives the highest 99.9th percentile predicted off-site impacts for metal species. The results show minimal incremental effects would arise beyond the site boundary due to the Project.

Table 6-6: Maximum annual lead dispersion modelling results for sensitive receptor – Cumulative impact (µg/m³)

Receptor ID	Incremental controlled annual average	Incremental uncontrolled annual average	Predicted Sell and Parker impact	Cumulative controlled annual average	Cumulative uncontrolled annual average	Criteria (µg/m³)
R1	0.00	0.02	0.00	0.00	0.02	0.5
R2	0.00	0.01	0.00	0.00	0.01	
R3	0.00	0.02	0.00	0.00	0.02	
R4	0.00	0.02	0.00	0.00	0.02	
R5	0.00	0.03	0.00	0.00	0.03	
R6	0.00	0.03	0.00	0.00	0.03	
R7	0.00	0.03	0.00	0.00	0.03	
R8	0.00	0.02	0.00	0.00	0.02	
R9	0.00	0.02	0.00	0.00	0.02	
R10	0.00	0.01	0.00	0.00	0.01	
R11	0.00	0.02	0.00	0.00	0.02	
R12	0.00	0.02	0.00	0.00	0.02	
R13	0.00	0.03	0.00	0.00	0.03	
R14	0.01	0.04	0.00	0.01	0.04	
R15	0.00	0.02	0.00	0.00	0.02	
Maximum	**0.01**	**0.04**	**0.00**	**0.01**	**0.04**	

Table 6-7: 1-hour metal dispersion modelling results – highest 99.9th percentile off-site impact (mg/m³)

Pollutant	Controlled	Uncontrolled	Criteria
Manganese and compounds	0.00021	0.00037	0.018
Magnesium oxide fumes	0.00024	0.00042	0.18
Iron oxide fumes	0.01394	0.02424	0.09
Chromium VI compounds	0.00002	0.00004	0.00009
Copper dusts and mists	0.00330	0.00328	0.018
Zinc oxide fumes	0.00508	0.00884	0.09
Nickel and nickel compounds	0.00008	0.00013	0.00018

7 MITIGATION AND MANAGEMENT MEASURES

The proposed activities at the Project site will generate dust, metal and odour emissions, therefore it is prudent to take reasonable and practicable measures to prevent and minimise excessive generation of pollutant emissions to the surrounding environment.

To ensure that pollutant generation during operational activities is managed and the potential for off-site impacts is reduced, appropriate operational and physical mitigation measures would be utilised.

To identify potential mitigation options, the following guidance has been reviewed with regard to Best Management Practice for the industry:

- Proposal for Minimum Environmental Standards in the Scrap Metal Industry: Consultation Paper (**NSW EPA, 2017b**);
- Best Practice Environmental Management Guideline for Scrap Metal Recycling Facilities Operating Fragmentisers (**QLD DEHP, 2016**); and,
- BREF style report – Metal fragmentising operations industrial emissions directive (**BMRA, 2013**).

Table 7-1 summarises the potential mitigation strategies which may be employed.

Table 7-1: Mitigation and management options

Source	Mitigation and management
General	Activities to be assessed during adverse weather conditions and modified as required (e.g. cease activity where reasonable levels of dust cannot be maintained using the available means).
	Yard to be wetted down at times to prevent fugitive dust from leaving site.
Hauling Activities	Haul routes are to be hardstand.
	Site speed limits are restricted and enforced.
	All vehicle loads are covered for transporting material off- site.
	On-site vehicle engines will be switched off when not in use.
Wind Erosion	Material stockpile size maintained appropriately.
	Hard site surfaces are regularly swept to reduce dust and debris accumulations and limit potential for dust to be tracked off-site by trucks.
	Removal of any fluids/hazardous materials will be undertaken on hardstand area to ensure that the potential for soil contamination would be minimised and thus minimise the potential for contaminated windblown dust to migrate off-site.
Processing	Staff are trained and competent in the identification of acceptable and unacceptable material to be processed. Unacceptable material such as fluids, oils, coolant, petrol, airbags, batteries, gas tanks etc. are removed prior to processing. An investigation would be conducted into the occurrence of any flame event.
	Material stockpile areas are located next to respective process equipment.
	The 'dust buster' foaming agent dust suppressant is used to control emissions from the hammermill shredder.
	To ensure maximum performance, plant is operated and maintained per the manufacturer's user manual.

8 DISCUSSION AND CONCLUSIONS

This report has assessed the potential air quality impacts associated with the proposed operation of a scrap metal recycling facility.

The study uses an advanced air dispersion model incorporating the local terrain and meteorological monitoring data. The estimated air emissions applied in the modelling include the cumulative emissions from similar adjacent operations and the background to provide a conservative assessment of the potential cumulative air quality effects which may arise due to the Project.

The Project overall would comprise approximately 60% of the total emissions from the site, with the majority of the Project emissions arising due to vehicle movements associated with incoming and outgoing material.

It is predicted that all of the assessed air emissions would either meet or not cause additional exceedances of the applicable assessment criteria at or beyond the Project boundary and at all assessed sensitive receptor locations.

Nevertheless, the Project would apply appropriate air quality management measures to ensure it minimises the potential occurrence of excessive air emissions from the site.

Overall, it is concluded that the Project would not lead to any unacceptable level of environmental harm or impact.

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Appendix A

Emissions Inventory

Proposed Scrap Metal Management Facility

The dust emissions from the Project have been estimated from the operational description of the proposed activities provided by the Proponent and 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 National Pollutant Inventory Emission Estimation Technique Manuals (**NPI 2012** and **NPI 2014**), the US EPA AP42 Emission Factors (**US EPA, 1998** and **US EPA, 2006**) and manufacturer's specifications for the hammermill shredder.

Table A-1: Emission factor equations

Activity	Emission factor equation	Variable
Loading / sorting / conveying material	$EF_{TSP} = k \times 0.0016 \times \left(\frac{U}{2.2}^{1.3} \Big/ \frac{M^{1.4}}{2}\right) kg/tonne$	K_{tsp} = 0.74 U = wind speed (m/s) M = moisture content (%)
Screening	$EF_{TSP} = 0.0125\, kg/t$ $EF_{PM10} = 0.0043\, kg/t$	-
Hauling on paved surfaces	$EF_{TSP} = k \times (sL)^{0.91} \times (W)^{1.02}\ kg/VKT$	k_{TSP} = 3.23 (g/VKT) sL = road surface silt loading (g/m²) W = average weight of vehicles (tons)
Wind erosion	$EF_{TSP} = 850\, kg/ha/year$	-
Shredding, pre-shredding, copper granulating	$EF_{TSP} = 1\, kg/hr$	-

Table A-2: Emissions Inventory

Activity	TSP emission (kg/y)	PM10 emission (kg/y)	PM25 emission (kg/y)	Intensity	Units	Emission Factor TSP	Emission Factor PM10	Emission Factor PM25	Units	Variable 1	Units	Variable 2	Units	Variable 3	Units	Variable 4 - TSP	Variable 4 - PM10	Variable 4 - PM25	Units	Variable 5	Units
Hauling of copper wire (paved road)	2	0.3	0.1	240	tonnes/ year	0.0068	0.0013	0.0003	kg/t	8	tonnes/load	12	Vehicle gross (tonnes)	0.2	km/return trip	0.322	0.062	0.015	kg/VKT	10	road surface silt loading (g/m²)
Unloading of copper wire from truck	0.28	0.13	0.02	240	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Loading copper wire to shredder	0.28	0.13	0.02	240	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Shredding copper wire	300	150	75	240	tonnes/ year	1.0000	0.5000	0.25	kg/hr	300	number of operational hour is a yr	0.8	processing capacity (t/hr)								
Conveying copper	0.28	0.13	0.02	240	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Screening copper	3	1	0.3	240	tonnes/ year	0.0125	0.0043	0.0013	kg/t												
Transfer of copper material to stockpiles	0.28	0.13	0.02	240	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Unload copper materials to stockpiles	0.28	0.13	0.02	240	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Loading copper materials to trucks for export off-site	0.28	0.13	0.02	240	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Hauling copper material off-site	2	0.3	0.1	240	tonnes/ year	0.0070	0.0013	0.0003	kg/t	20	tonnes/load	30	Vehicle gross (tonnes)	0.2	km/return trip	0.820	0.157	0.038	kg/VKT	10	road surface silt loading (g/m²)
Hauling of waste/ materials (paved road)	5,495	1,055	255	130,000	tonnes/ year	0.0423	0.0081	0.0020	kg/t	8	tonnes/load	12	Vehicle gross (tonnes)	1.1	km/return trip	0.322	0.062	0.015	kg/VKT	10	road surface silt loading (g/m²)
Unloading of materials from truck	152	72	11	130,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Sorting to stockpiles	152	72	11	130,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Transfer of material to stockpiles	152	72	11	130,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Loading to shear	30	14	2	26,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Shearing	30	14	2	26,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								
Loading to pre-shredder	122	58	9	104,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %	122	58						
Pre-shredding	3,467	1,733	867	104,000	tonnes/ year	1.0000	0.5000	0.25	kg/hr	3,467	number of operational hour in a yr	30	processing capacity in t/hr								
Loading to shredder	122	58	9	104,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %								

Shredding (controlled)	520	260	130	104,000	tonnes/ year	1.0000	0.5000	0.25	kg/hr	3,467	number of operational hour in a yr	30	processing capacity in t/hr	85	control efficiency %					
Shredding (uncontrolled)	3,467	1,733	867	104,000	tonnes/ year	1.0000	0.5000	0.25	kg/hr	3,467	number of operational hour in a yr	30	processing capacity in t/hr							
Conveying	244	115	17	208,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %							
Screening	1,040	358	104	83,200	tonnes/ year	0.0125	0.0043	0.0013	kg/t											
Transfer of material to stockpiles	152	72	11	130,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %							
Unload materials to stockpiles	152	72	11	130,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %							
Loading to trucks for export off-site	152	72	11	130,000	tonnes/ year	0.0012	0.0006	0.0001	kg/t	0.99	average of (wind speed/2.2)^1.3 in m/s	2	moisture content in %							
Hauling material off-site	5,595	1,074	260	130,000	tonnes/ year	0.0430	0.0083	0.0020	kg/t	20	tonnes/load	30	Vehicle gross (tonnes)	1.1	km/return trip	0.811	0.156	0.038	kg/VKT	10	road surface silt loading (g/m^2)
Wind Erosion	4,650	2,325	350	5.47	ha	850	425	64	kg/ha/yr											
Total controlled	**22,536**																			
Total uncontrolled	**25,483**																			

Appendix B

Contemporaneous 24-hour PM_{10} and $PM_{2.5}$ assessment

Table B-1: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R1

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	20/05/2015	10.2	12.0	0.9	12.9
26/11/2015	45.1	45.3	0.1	45.3	31/07/2015	15.6	16.5	0.7	17.2
07/10/2015	38.5	38.5	0.0	38.5	25/07/2015	9.2	10.5	0.7	11.2
17/10/2015	35.3	35.3	0.0	35.3	06/06/2015	26.6	27.4	0.7	28.1
14/12/2015	34.7	34.8	0.1	34.9	17/06/2015	6.2	7.0	0.6	7.7
12/12/2015	34.3	34.3	0.0	34.3	06/07/2015	17.0	17.8	0.6	18.4
15/12/2015	33.4	33.4	0.0	33.4	24/04/2015	ND	1.1	0.6	1.7
20/11/2015	32.9	33.3	0.2	33.5	30/07/2015	15.2	16.4	0.5	16.8
23/11/2015	31.7	31.7	0.0	31.7	24/07/2015	11.7	13.0	0.4	13.5
09/02/2015	31.5	31.5	0.0	31.5	30/05/2015	20.8	21.8	0.4	22.2

ND- No Data

Table B-2: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R1

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	20/05/2015	10.2	12.2	1.1	13.3
26/11/2015	45.1	45.3	0.1	45.4	31/07/2015	15.6	16.7	0.9	17.6
07/10/2015	38.5	38.5	0.0	38.5	06/06/2015	26.6	27.6	0.9	28.5
17/10/2015	35.3	35.3	0.0	35.3	25/07/2015	9.2	10.6	0.8	11.5
14/12/2015	34.7	34.8	0.1	34.9	17/06/2015	6.2	7.2	0.8	8.0
12/12/2015	34.3	34.3	0.0	34.3	06/07/2015	17.0	17.9	0.8	18.7
15/12/2015	33.4	33.4	0.0	33.4	24/04/2015	ND	1.3	0.7	2.0
20/11/2015	32.9	33.4	0.2	33.5	30/05/2015	20.8	21.9	0.5	22.5
23/11/2015	31.7	31.7	0.0	31.7	30/07/2015	15.2	16.5	0.5	17.0
09/02/2015	31.5	31.5	0.0	31.5	24/07/2015	11.7	13.1	0.5	13.6

ND- No Data

Table B-3: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R2

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.9	0.2	69.0	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	05/07/2015	28.9	29.6	0.7	30.4
26/11/2015	45.1	45.3	0.1	45.3	02/07/2015	10.9	11.6	0.7	12.4
07/10/2015	38.5	38.5	0.0	38.5	03/08/2015	11.8	12.5	0.7	13.3
17/10/2015	35.3	35.3	0.0	35.3	24/04/2015	ND	1.2	0.6	1.8
14/12/2015	34.7	34.8	0.0	34.8	05/08/2015	13.1	13.6	0.5	14.2
12/12/2015	34.3	34.3	0.0	34.3	08/05/2015	17.2	17.7	0.5	18.3
15/12/2015	33.4	33.4	0.0	33.4	29/09/2015	17.2	17.8	0.5	18.3
20/11/2015	32.9	33.3	0.1	33.4	06/06/2015	26.6	27.2	0.5	27.7
23/11/2015	31.7	31.7	0.0	31.7	11/08/2015	16.6	17.4	0.5	17.8
09/02/2015	31.5	31.5	0.0	31.5	27/06/2015	22.9	23.4	0.5	23.9

ND- No Data

Table B-4: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R2

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.9	0.2	69.1	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	05/07/2015	28.9	29.9	0.9	30.8
26/11/2015	45.1	45.3	0.1	45.3	02/07/2015	10.9	11.8	0.9	12.8
07/10/2015	38.5	38.5	0.0	38.5	03/08/2015	11.8	12.7	0.9	13.7
17/10/2015	35.3	35.3	0.0	35.3	24/04/2015	ND	1.3	0.8	2.1
14/12/2015	34.7	34.8	0.1	34.9	08/05/2015	17.2	17.9	0.7	18.5
12/12/2015	34.3	34.3	0.0	34.3	05/08/2015	13.1	13.8	0.7	14.4
15/12/2015	33.4	33.4	0.0	33.4	27/06/2015	22.9	23.6	0.6	24.2
20/11/2015	32.9	33.3	0.1	33.4	29/09/2015	17.2	17.9	0.6	18.6
23/11/2015	31.7	31.7	0.0	31.7	06/06/2015	26.6	27.4	0.6	28.0
09/02/2015	31.5	31.5	0.0	31.5	11/08/2015	16.6	17.5	0.6	18.1

ND- No Data

Table B-5: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R3

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	69.3	0.6	70.0	05/07/2015	28.9	30.4	1.5	31.9
27/11/2015	48.0	48.0	0.0	48.0	08/05/2015	17.2	18.5	1.3	19.8
26/11/2015	45.1	45.3	0.1	45.4	14/07/2015	9.3	10.4	1.1	11.6
07/10/2015	38.5	38.5	0.0	38.5	31/05/2015	14.8	15.9	1.0	16.9
17/10/2015	35.3	35.3	0.0	35.3	07/05/2015	17.5	18.2	0.7	19.0
14/12/2015	34.7	34.8	0.0	34.8	03/08/2015	11.8	12.5	0.7	13.2
12/12/2015	34.3	34.3	0.0	34.3	06/05/2015	68.7	69.3	0.6	70.0
15/12/2015	33.4	33.4	0.0	33.4	09/05/2015	16.4	17.2	0.6	17.8
20/11/2015	32.9	33.2	0.0	33.3	04/08/2015	15.2	15.8	0.6	16.4
23/11/2015	31.7	31.7	0.0	31.7	27/07/2015	13.6	14.2	0.6	14.8
09/02/2015	31.5	31.5	0.0	31.5	04/07/2015	24.4	25.0	0.6	25.5

Table B-6: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R3

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	69.5	0.8	70.3	05/07/2015	28.9	30.8	1.9	32.7
27/11/2015	48.0	48.0	0.0	48.0	08/05/2015	17.2	18.8	1.6	20.5
26/11/2015	45.1	45.3	0.1	45.5	14/07/2015	9.3	10.7	1.4	12.1
07/10/2015	38.5	38.5	0.0	38.5	31/05/2015	14.8	16.1	1.3	17.4
17/10/2015	35.3	35.3	0.0	35.3	07/05/2015	17.5	18.4	0.9	19.3
14/12/2015	34.7	34.8	0.0	34.8	03/08/2015	11.8	12.7	0.9	13.5
12/12/2015	34.3	34.3	0.0	34.3	09/05/2015	16.4	17.4	0.8	18.1
15/12/2015	33.4	33.4	0.0	33.4	06/05/2015	68.7	69.5	0.8	70.3
20/11/2015	32.9	33.2	0.1	33.3	04/08/2015	15.2	16.0	0.8	16.7
23/11/2015	31.7	31.7	0.0	31.7	27/06/2015	22.9	23.7	0.7	24.4
09/02/2015	31.5	31.5	0.0	31.5	04/07/2015	24.4	25.1	0.7	25.8

Table B-7: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R4

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	69.3	0.6	70.0	05/07/2015	28.9	30.6	1.7	32.3
27/11/2015	48.0	48.0	0.0	48.0	08/05/2015	17.2	18.7	1.5	20.2
26/11/2015	45.1	45.3	0.1	45.5	14/07/2015	9.3	10.5	1.1	11.6
07/10/2015	38.5	38.5	0.0	38.5	31/05/2015	14.8	15.9	1.0	16.9
17/10/2015	35.3	35.3	0.0	35.3	27/07/2015	13.6	14.5	0.9	15.5
14/12/2015	34.7	34.8	0.0	34.8	04/07/2015	24.4	25.3	0.9	26.3
12/12/2015	34.3	34.3	0.0	34.3	04/06/2015	18.1	19.6	0.9	20.5
15/12/2015	33.4	33.4	0.0	33.4	07/05/2015	17.5	18.4	0.9	19.2
20/11/2015	32.9	33.2	0.0	33.2	06/05/2015	68.7	69.3	0.6	70.0
23/11/2015	31.7	31.7	0.0	31.8	26/05/2015	23.7	24.3	0.6	25.0
09/02/2015	31.5	31.5	0.0	31.5	01/09/2015	18.0	18.6	0.6	19.3

Table B-8: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R4

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local Background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local Background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	69.5	0.8	70.2	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	05/07/2015	28.9	31.1	2.2	33.2
26/11/2015	45.1	45.3	0.2	45.5	08/05/2015	17.2	19.1	1.9	21.0
07/10/2015	38.5	38.5	0.0	38.5	14/07/2015	9.3	10.7	1.4	12.1
17/10/2015	35.3	35.3	0.0	35.4	31/05/2015	14.8	16.2	1.3	17.5
14/12/2015	34.7	34.8	0.0	34.8	04/07/2015	24.4	25.6	1.2	26.8
12/12/2015	34.3	34.3	0.0	34.3	27/07/2015	13.6	14.8	1.2	15.9
15/12/2015	33.4	33.4	0.0	33.4	04/06/2015	18.1	19.8	1.1	20.9
20/11/2015	32.9	33.2	0.0	33.2	07/05/2015	17.5	18.6	1.1	19.6
23/11/2015	31.7	31.7	0.0	31.8	26/05/2015	23.7	24.5	0.8	25.3
09/02/2015	31.5	31.5	0.0	31.5	01/09/2015	18.0	18.8	0.8	19.6

Table B-9: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R5

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	69.3	0.6	69.9	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	05/07/2015	28.9	30.4	1.5	31.9
26/11/2015	45.1	45.3	0.1	45.4	08/05/2015	17.2	18.5	1.3	19.8
07/10/2015	38.5	38.5	0.0	38.5	04/06/2015	18.1	19.9	1.2	21.1
17/10/2015	35.3	35.3	0.0	35.4	04/07/2015	24.4	25.6	1.2	26.7
14/12/2015	34.7	34.8	0.0	34.8	06/08/2015	12.9	13.8	0.9	14.7
12/12/2015	34.3	34.3	0.0	34.3	18/06/2015	9.7	10.6	0.9	11.5
15/12/2015	33.4	33.4	0.0	33.4	01/06/2015	8.7	9.5	0.8	10.3
20/11/2015	32.9	33.2	0.0	33.2	26/05/2015	23.7	24.5	0.8	25.3
23/11/2015	31.7	31.8	0.1	31.8	14/07/2015	9.3	10.1	0.7	10.8
09/02/2015	31.5	31.5	0.0	31.5	07/05/2015	17.5	18.2	0.7	18.9

Table B-10: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R5

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	69.4	0.7	70.1	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	05/07/2015	28.9	30.9	2.0	32.8
26/11/2015	45.1	45.3	0.1	45.5	08/05/2015	17.2	18.8	1.6	20.5
07/10/2015	38.5	38.5	0.0	38.5	04/06/2015	18.1	20.2	1.5	21.7
17/10/2015	35.3	35.3	0.0	35.4	04/07/2015	24.4	25.9	1.5	27.4
14/12/2015	34.7	34.8	0.0	34.8	18/06/2015	9.7	10.8	1.1	11.9
12/12/2015	34.3	34.3	0.0	34.3	06/08/2015	12.9	14.0	1.1	15.1
15/12/2015	33.4	33.4	0.0	33.4	26/05/2015	23.7	24.7	1.0	25.7
20/11/2015	32.9	33.2	0.0	33.2	01/06/2015	8.7	9.7	1.0	10.7
23/11/2015	31.7	31.8	0.1	31.8	14/07/2015	9.3	10.3	0.9	11.2
09/02/2015	31.5	31.5	0.0	31.5	07/05/2015	17.5	18.4	0.9	19.3

Table B-11: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R6

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	69.2	0.5	69.8	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	16/07/2015	12.4	13.8	1.4	15.3
26/11/2015	45.1	45.3	0.1	45.4	04/07/2015	24.4	25.6	1.2	26.9
07/10/2015	38.5	38.5	0.0	38.5	05/07/2015	28.9	30.0	1.0	31.0
17/10/2015	35.3	35.3	0.0	35.4	01/07/2015	17.4	18.4	1.0	19.4
14/12/2015	34.7	34.8	0.0	34.8	05/06/2015	15.0	16.0	1.0	17.0
12/12/2015	34.3	34.3	0.0	34.3	18/06/2015	9.7	10.7	1.0	11.7
15/12/2015	33.4	33.4	0.0	33.4	04/06/2015	18.1	19.7	1.0	20.6
20/11/2015	32.9	33.2	0.0	33.2	28/07/2015	18.6	19.5	0.9	20.4
23/11/2015	31.7	31.8	0.1	31.8	07/08/2015	11.9	12.8	0.9	13.6
09/02/2015	31.5	31.5	0.0	31.5	29/05/2015	17.7	18.6	0.8	19.4

Table B-12: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R6

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	69.4	0.7	70.0	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	16/07/2015	12.4	14.2	1.8	16.0
26/11/2015	45.1	45.3	0.1	45.4	04/07/2015	24.4	26.0	1.6	27.6
07/10/2015	38.5	38.5	0.0	38.5	05/07/2015	28.9	30.3	1.4	31.7
17/10/2015	35.3	35.3	0.0	35.4	18/06/2015	9.7	11.0	1.3	12.3
14/12/2015	34.7	34.8	0.0	34.8	05/06/2015	15.0	16.3	1.3	17.5
12/12/2015	34.3	34.3	0.0	34.3	04/06/2015	18.1	20.0	1.3	21.2
15/12/2015	33.4	33.4	0.0	33.4	01/07/2015	17.4	18.6	1.2	19.8
20/11/2015	32.9	33.2	0.0	33.2	28/07/2015	18.6	19.7	1.1	20.8
23/11/2015	31.7	31.8	0.1	31.9	07/08/2015	11.9	12.9	1.0	14.0
09/02/2015	31.5	31.5	0.0	31.5	29/05/2015	17.7	18.7	1.0	19.7

Table B-13: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R7

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.1	0.1	48.3	03/07/2015	21.5	22.7	1.2	23.9
26/11/2015	45.1	45.2	0.0	45.2	03/06/2015	21.7	22.6	0.9	23.6
07/10/2015	38.5	38.5	0.0	38.5	05/04/2015	10.3	11.1	0.8	12.0
17/10/2015	35.3	35.3	0.0	35.4	20/06/2015	12.2	12.9	0.7	13.6
14/12/2015	34.7	34.8	0.0	34.8	01/07/2015	17.4	18.1	0.7	18.8
12/12/2015	34.3	34.4	0.1	34.5	02/06/2015	17.1	17.7	0.6	18.4
15/12/2015	33.4	33.4	0.0	33.4	01/09/2015	18.0	18.6	0.6	19.2
20/11/2015	32.9	33.2	0.0	33.2	31/08/2015	11.1	11.7	0.6	12.3
23/11/2015	31.7	31.8	0.1	31.9	11/06/2015	24.0	24.6	0.6	25.1
09/02/2015	31.5	31.5	0.0	31.5	20/07/2015	18.5	19.0	0.5	19.6

Table B-14: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R7

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.1	0.1	48.3	03/07/2015	21.5	23.0	1.5	24.6
26/11/2015	45.1	45.2	0.0	45.2	03/06/2015	21.7	22.9	1.2	24.2
07/10/2015	38.5	38.5	0.0	38.5	05/04/2015	10.3	11.4	1.1	12.6
17/10/2015	35.3	35.4	0.1	35.4	01/07/2015	17.4	18.4	1.0	19.3
14/12/2015	34.7	34.8	0.0	34.8	20/06/2015	12.2	13.1	0.9	14.0
12/12/2015	34.3	34.4	0.1	34.6	02/06/2015	17.1	17.9	0.8	18.7
15/12/2015	33.4	33.4	0.0	33.4	01/09/2015	18.0	18.8	0.8	19.6
20/11/2015	32.9	33.2	0.0	33.2	31/08/2015	11.1	11.9	0.8	12.6
23/11/2015	31.7	31.8	0.1	31.9	11/06/2015	24.0	24.8	0.8	25.5
09/02/2015	31.5	31.5	0.0	31.5	20/07/2015	18.5	19.2	0.7	20.0

Table B-15: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R8

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.1	0.1	48.2	03/07/2015	21.5	22.6	1.1	23.6
26/11/2015	45.1	45.3	0.1	45.3	20/06/2015	12.2	13.0	0.8	13.8
07/10/2015	38.5	38.6	0.1	38.8	03/06/2015	21.7	22.4	0.7	23.1
17/10/2015	35.3	35.4	0.1	35.4	07/07/2015	17.7	18.4	0.7	19.0
14/12/2015	34.7	34.8	0.0	34.8	28/06/2015	30.1	30.7	0.6	31.4
12/12/2015	34.3	34.4	0.1	34.5	03/05/2015	9.7	10.3	0.6	10.9
15/12/2015	33.4	33.4	0.0	33.4	01/09/2015	18.0	18.6	0.6	19.2
20/11/2015	32.9	33.2	0.0	33.2	31/08/2015	11.1	11.6	0.5	12.2
23/11/2015	31.7	31.8	0.1	32.0	17/04/2015	19.2	19.7	0.5	20.2
09/02/2015	31.5	31.5	0.0	31.6	28/07/2015	18.6	19.0	0.4	19.5

Table B-16: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R8

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.1	0.1	48.2	03/07/2015	21.5	23.0	1.5	24.4
26/11/2015	45.1	45.3	0.1	45.3	20/06/2015	12.2	13.3	1.1	14.4
07/10/2015	38.5	38.6	0.1	38.8	03/06/2015	21.7	22.7	1.0	23.7
17/10/2015	35.3	35.4	0.1	35.5	07/07/2015	17.7	18.6	0.9	19.4
14/12/2015	34.7	34.8	0.0	34.8	28/06/2015	30.1	30.9	0.8	31.8
12/12/2015	34.3	34.4	0.1	34.6	01/09/2015	18.0	18.8	0.8	19.7
15/12/2015	33.4	33.4	0.0	33.4	03/05/2015	9.7	10.5	0.8	11.2
20/11/2015	32.9	33.2	0.0	33.2	31/08/2015	11.1	11.8	0.7	12.6
23/11/2015	31.7	31.9	0.2	32.0	17/04/2015	19.2	19.9	0.7	20.5
09/02/2015	31.5	31.5	0.0	31.6	28/07/2015	18.6	19.1	0.5	19.7

Table B-17: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R9

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.1	15/06/2015	20.2	21.1	0.9	22.1
26/11/2015	45.1	45.3	0.1	45.3	28/06/2015	30.1	31.0	0.9	31.9
07/10/2015	38.5	38.7	0.2	38.8	23/05/2015	15.6	16.2	0.6	16.9
17/10/2015	35.3	35.4	0.1	35.5	26/05/2015	23.7	24.3	0.6	24.8
14/12/2015	34.7	34.8	0.0	34.8	02/05/2015	12.3	12.8	0.5	13.4
12/12/2015	34.3	34.4	0.1	34.4	30/04/2015	11.0	11.5	0.5	12.0
15/12/2015	33.4	33.4	0.0	33.4	01/05/2015	9.9	10.4	0.5	10.9
20/11/2015	32.9	33.2	0.0	33.2	13/03/2015	19.9	20.3	0.4	20.8
23/11/2015	31.7	31.8	0.1	32.0	10/06/2015	25.2	25.6	0.4	26.0
09/02/2015	31.5	31.7	0.2	31.8	12/01/2015	10.1	10.5	0.4	10.9

Table B-18: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R9

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.1	0.1	48.1	15/06/2015	20.2	21.5	1.3	22.7
26/11/2015	45.1	45.3	0.1	45.3	28/06/2015	30.1	31.3	1.2	32.5
07/10/2015	38.5	38.7	0.2	38.9	23/05/2015	15.6	16.4	0.8	17.3
17/10/2015	35.3	35.4	0.1	35.6	26/05/2015	23.7	24.4	0.7	25.2
14/12/2015	34.7	34.8	0.0	34.8	02/05/2015	12.3	12.9	0.6	13.6
12/12/2015	34.3	34.4	0.1	34.5	30/04/2015	11.0	11.6	0.6	12.3
15/12/2015	33.4	33.4	0.0	33.4	01/05/2015	9.9	10.5	0.6	11.1
20/11/2015	32.9	33.2	0.0	33.2	03/07/2015	21.5	22.0	0.5	22.6
23/11/2015	31.7	31.9	0.2	32.0	13/03/2015	19.9	20.4	0.5	20.9
09/02/2015	31.5	31.7	0.2	31.9	10/06/2015	25.2	25.7	0.5	26.2

Table B-19: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R10

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.1	26/05/2015	23.7	24.4	0.7	25.1
26/11/2015	45.1	45.2	0.0	45.2	15/06/2015	20.2	20.9	0.7	21.6
07/10/2015	38.5	38.7	0.2	38.8	24/08/2015	10.1	10.6	0.5	11.0
17/10/2015	35.3	35.4	0.1	35.5	30/04/2015	11.0	11.4	0.4	11.9
14/12/2015	34.7	34.8	0.0	34.8	19/07/2015	13.2	13.6	0.4	14.0
12/12/2015	34.3	34.4	0.1	34.4	08/08/2015	20.2	20.5	0.3	20.9
15/12/2015	33.4	33.4	0.0	33.4	31/03/2015	11.6	11.9	0.3	12.3
20/11/2015	32.9	33.2	0.0	33.2	12/03/2015	25.0	25.3	0.3	25.6
23/11/2015	31.7	31.8	0.1	31.9	21/06/2015	19.0	19.3	0.3	19.6
09/02/2015	31.5	31.7	0.2	31.9	23/04/2015	ND	0.5	0.3	0.8

ND- No Data

Table B-20: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R10

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.1	26/05/2015	23.7	24.7	1.0	25.7
26/11/2015	45.1	45.2	0.0	45.2	15/06/2015	20.2	21.1	0.9	22.1
07/10/2015	38.5	38.7	0.2	38.9	24/08/2015	10.1	10.7	0.6	11.3
17/10/2015	35.3	35.4	0.1	35.6	30/04/2015	11.0	11.6	0.6	12.1
14/12/2015	34.7	34.8	0.0	34.8	19/07/2015	13.2	13.7	0.5	14.2
12/12/2015	34.3	34.4	0.1	34.4	08/08/2015	20.2	20.6	0.4	21.1
15/12/2015	33.4	33.4	0.0	33.4	31/03/2015	11.6	12.0	0.4	12.5
20/11/2015	32.9	33.2	0.0	33.2	21/06/2015	19.0	19.4	0.4	19.9
23/11/2015	31.7	31.8	0.1	31.9	23/04/2015	ND	0.6	0.4	1.0
09/02/2015	31.5	31.7	0.2	31.9	12/03/2015	25.0	25.4	0.4	25.8

ND – No Data

Table B-21: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R11

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.1	21/06/2015	19.0	20.0	1.0	21.1
26/11/2015	45.1	45.2	0.0	45.2	26/05/2015	23.7	24.6	0.9	25.6
07/10/2015	38.5	38.6	0.1	38.8	23/04/2015	ND	0.9	0.7	1.6
17/10/2015	35.3	35.5	0.2	35.7	24/05/2015	19.1	19.7	0.6	20.3
14/12/2015	34.7	34.8	0.0	34.8	15/06/2015	20.2	20.7	0.5	21.3
12/12/2015	34.3	34.4	0.1	34.5	16/04/2015	17.1	17.7	0.5	18.2
15/12/2015	33.4	33.4	0.0	33.5	12/03/2015	25.0	25.5	0.5	26.0
20/11/2015	32.9	33.2	0.0	33.2	08/07/2015	16.8	17.3	0.5	17.8
09/02/2015	31.5	31.7	0.0	31.8	14/06/2015	26.0	26.4	0.4	26.9
23/11/2015	31.7	31.8	0.3	32.1	08/08/2015	20.2	20.6	0.4	21.0

ND – No Data

Table B-22: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R11

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.1	0.1	48.1	21/06/2015	19.0	20.4	1.4	21.8
26/11/2015	45.1	45.2	0.0	45.2	26/05/2015	23.7	25.0	1.3	26.3
07/10/2015	38.5	38.7	0.2	38.8	23/04/2015	ND	1.1	1.0	2.1
17/10/2015	35.3	35.5	0.2	35.7	24/05/2015	19.1	19.9	0.8	20.8
14/12/2015	34.7	34.8	0.0	34.8	15/06/2015	20.2	20.9	0.7	21.7
12/12/2015	34.3	34.4	0.1	34.5	16/04/2015	17.1	17.9	0.7	18.6
15/12/2015	33.4	33.5	0.1	33.5	08/07/2015	16.8	17.5	0.7	18.2
20/11/2015	32.9	33.2	0.0	33.2	12/03/2015	25.0	25.7	0.7	26.4
09/02/2015	31.5	31.8	0.1	31.8	14/06/2015	26.0	26.6	0.6	27.2
23/11/2015	31.7	31.8	0.3	32.2	08/08/2015	20.2	20.7	0.5	21.2

ND – No Data

Table B-23: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R12

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.1	0.1	48.2	14/06/2015	26.0	27.2	1.2	28.4
26/11/2015	45.1	45.2	0.0	45.2	21/06/2015	19.0	20.1	1.1	21.1
07/10/2015	38.5	38.5	0.0	38.5	11/06/2015	24.0	24.9	0.9	25.8
17/10/2015	35.3	35.4	0.1	35.4	17/05/2015	14.2	15.1	0.9	16.0
14/12/2015	34.7	34.8	0.0	34.9	15/06/2015	20.2	21.0	0.8	21.9
12/12/2015	34.3	34.4	0.1	34.6	24/05/2015	19.1	19.9	0.8	20.8
15/12/2015	33.4	33.6	0.2	33.9	26/06/2015	21.0	21.8	0.8	22.5
20/11/2015	32.9	33.2	0.0	33.2	20/07/2015	18.5	19.1	0.6	19.7
23/11/2015	31.7	31.7	0.0	31.7	31/03/2015	11.6	12.1	0.5	12.7
09/02/2015	31.5	31.5	0.0	31.5	12/06/2015	23.5	24.0	0.5	24.5

Table B-24: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R12

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local Background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.1	0.1	48.3	14/06/2015	26.0	27.6	1.6	29.2
26/11/2015	45.1	45.2	0.0	45.2	21/06/2015	19.0	20.4	1.4	21.9
07/10/2015	38.5	38.5	0.0	38.5	11/06/2015	24.0	25.3	1.3	26.5
17/10/2015	35.3	35.4	0.1	35.5	17/05/2015	14.2	15.4	1.2	16.6
14/12/2015	34.7	34.8	0.1	34.9	15/06/2015	20.2	21.3	1.1	22.4
12/12/2015	34.3	34.4	0.1	34.6	24/05/2015	19.1	20.2	1.1	21.3
15/12/2015	33.4	33.7	0.3	33.9	26/06/2015	21.0	22.0	1.0	23.1
20/11/2015	32.9	33.2	0.0	33.2	20/07/2015	18.5	19.3	0.8	20.0
23/11/2015	31.7	31.7	0.0	31.7	31/03/2015	11.6	12.3	0.7	13.0
09/02/2015	31.5	31.5	0.0	31.6	12/06/2015	23.5	24.1	0.6	24.8

Table B-25: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R13

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.2	0.2	48.4	11/06/2015	24.0	25.2	1.2	26.3
26/11/2015	45.1	45.2	0.0	45.2	26/06/2015	21.0	22.1	1.1	23.1
07/10/2015	38.5	38.5	0.0	38.5	29/06/2015	24.5	25.3	0.8	26.1
17/10/2015	35.3	35.3	0.0	35.4	23/07/2015	15.8	16.6	0.8	17.4
14/12/2015	34.7	34.9	0.1	35.0	15/07/2015	14.0	14.8	0.7	15.5
12/12/2015	34.3	34.3	0.0	34.4	25/05/2015	30.7	31.5	0.7	32.2
15/12/2015	33.4	33.7	0.3	34.0	31/03/2015	11.6	12.3	0.7	13.0
20/11/2015	32.9	33.2	0.0	33.2	13/06/2015	24.9	25.6	0.7	26.3
23/11/2015	31.7	31.7	0.0	31.7	14/06/2015	26.0	26.6	0.6	27.2
09/02/2015	31.5	31.5	0.0	31.5	21/07/2015	16.5	17.1	0.6	17.8

Table B-26: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R13

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.2	0.2	48.5	11/06/2015	24.0	25.5	1.5	27.1
26/11/2015	45.1	45.2	0.0	45.2	26/06/2015	21.0	22.4	1.4	23.8
07/10/2015	38.5	38.5	0.0	38.5	29/06/2015	24.5	25.6	1.1	26.7
17/10/2015	35.3	35.4	0.1	35.4	23/07/2015	15.8	16.9	1.0	17.9
14/12/2015	34.7	34.9	0.1	35.0	15/07/2015	14.0	15.1	1.0	16.1
12/12/2015	34.3	34.3	0.0	34.4	25/05/2015	30.7	31.8	1.0	32.8
15/12/2015	33.4	33.8	0.4	34.1	13/06/2015	24.9	25.9	0.9	26.8
20/11/2015	32.9	33.2	0.0	33.2	31/03/2015	11.6	12.5	0.9	13.4
25/05/2015	30.7	31.7	0.0	31.7	21/07/2015	16.5	17.4	0.9	18.3
23/11/2015	31.7	31.5	0.0	31.5	30/06/2015	24.7	25.5	0.8	26.3

Table B-27: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R14

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.1	15/07/2015	14.0	15.8	1.7	17.5
26/11/2015	45.1	45.2	0.0	45.2	24/06/2015	15.2	16.6	1.3	17.9
07/10/2015	38.5	38.5	0.0	38.5	21/07/2015	16.5	17.7	1.2	18.9
17/10/2015	35.3	35.3	0.0	35.3	27/06/2015	22.9	24.2	1.2	25.3
14/12/2015	34.7	34.9	0.1	35.0	07/06/2015	19.1	20.6	1.1	21.6
12/12/2015	34.3	34.3	0.0	34.3	25/05/2015	30.7	31.8	1.0	32.8
15/12/2015	33.4	33.5	0.1	33.6	28/05/2015	19.0	20.4	1.0	21.4
20/11/2015	32.9	33.2	0.0	33.2	23/07/2015	15.8	16.8	1.0	17.7
25/05/2015	30.7	31.7	0.0	31.7	23/06/2015	15.1	16.2	0.9	17.1
23/11/2015	31.7	31.5	0.0	31.5	13/06/2015	24.9	25.8	0.8	26.7

Table B-28: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R14

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.1	15/07/2015	14.0	16.4	2.3	18.6
26/11/2015	45.1	45.2	0.0	45.2	24/06/2015	15.2	17.0	1.7	18.8
07/10/2015	38.5	38.5	0.0	38.5	27/06/2015	22.9	24.5	1.6	26.1
17/10/2015	35.3	35.3	0.0	35.3	21/07/2015	16.5	18.0	1.5	19.5
14/12/2015	34.7	34.9	0.1	35.0	07/06/2015	19.1	20.9	1.5	22.4
12/12/2015	34.3	34.3	0.0	34.3	25/05/2015	30.7	32.1	1.3	33.4
15/12/2015	33.4	33.5	0.1	33.6	28/05/2015	19.0	20.8	1.3	22.1
20/11/2015	32.9	33.2	0.0	33.2	23/07/2015	15.8	17.1	1.3	18.4
25/05/2015	30.7	31.7	0.0	31.7	23/06/2015	15.1	16.5	1.2	17.7
23/11/2015	31.7	31.5	0.0	31.5	13/06/2015	24.9	26.1	1.1	27.2

Table B-29: Controlled 24-hour average PM_{10} concentration – Sensitive receptor location R15

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	07/06/2015	19.1	20.3	0.9	21.2
26/11/2015	45.1	45.2	0.0	45.2	15/07/2015	14.0	14.9	0.8	15.8
07/10/2015	38.5	38.5	0.0	38.5	10/07/2015	18.4	19.8	0.7	20.6
17/10/2015	35.3	35.3	0.0	35.3	22/07/2015	12.3	13.1	0.7	13.8
14/12/2015	34.7	34.8	0.1	34.9	23/06/2015	15.1	15.9	0.6	16.5
12/12/2015	34.3	34.3	0.0	34.3	30/05/2015	20.8	22.0	0.6	22.6
15/12/2015	33.4	33.4	0.0	33.4	19/05/2015	13.1	14.3	0.5	14.8
20/11/2015	32.9	33.2	0.0	33.2	06/06/2015	26.6	27.3	0.5	27.8
23/11/2015	31.7	31.7	0.0	31.7	28/05/2015	19.0	20.0	0.5	20.5
09/02/2015	31.5	31.5	0.0	31.5	11/07/2015	10.5	11.3	0.5	11.8

Table B-30: Uncontrolled 24-hour average PM_{10} concentration – Sensitive receptor location R15

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
06/05/2015	68.7	68.7	0.0	68.7	-	-	-	-	-
27/11/2015	48.0	48.0	0.0	48.0	07/06/2015	19.1	20.6	1.1	21.7
26/11/2015	45.1	45.2	0.0	45.2	15/07/2015	14.0	15.2	1.1	16.2
07/10/2015	38.5	38.5	0.0	38.5	10/07/2015	18.4	20.0	1.0	21.0
17/10/2015	35.3	35.3	0.0	35.3	22/07/2015	12.3	13.3	0.8	14.1
14/12/2015	34.7	34.9	0.1	35.0	30/05/2015	20.8	22.2	0.8	23.0
12/12/2015	34.3	34.3	0.0	34.3	23/06/2015	15.1	16.0	0.8	16.8
15/12/2015	33.4	33.4	0.0	33.4	06/06/2015	26.6	27.5	0.7	28.2
20/11/2015	32.9	33.2	0.0	33.2	19/05/2015	13.1	14.4	0.7	15.1
23/11/2015	31.7	31.7	0.0	31.7	28/05/2015	19.0	20.1	0.6	20.7
09/02/2015	31.5	31.5	0.0	31.5	27/06/2015	22.9	23.6	0.6	24.2

Table B-31: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R1

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	20/05/2015	2.7	3.1	0.3	3.4
04/07/2015	21.5	21.5	0.0	21.5	31/07/2015	9.6	9.9	0.2	10.1
07/06/2015	21.2	21.3	0.1	21.4	06/06/2015	16.9	17.2	0.2	17.4
21/08/2015	20.5	20.5	0.0	20.5	06/07/2015	15.6	15.8	0.2	16.0
25/05/2015	20.1	20.3	0.1	20.4	17/06/2015	4.2	4.4	0.2	4.7
14/06/2015	19.3	19.3	0.0	19.3	25/07/2015	9.5	9.8	0.2	10.0
09/07/2015	18.4	18.4	0.0	18.4	24/04/2015	6.1	6.4	0.2	6.5
27/06/2015	17.1	17.2	0.1	17.4	30/05/2015	14.7	14.9	0.1	15.1
07/10/2015	17.1	17.1	0.0	17.1	25/05/2015	20.1	20.3	0.1	20.4
06/06/2015	16.9	17.2	0.2	17.4	27/05/2015	14.2	14.3	0.1	14.5

Table B-32: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R1

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	25.0	20/05/2015	2.7	3.2	0.4	3.6
04/07/2015	21.5	21.5	0.0	21.5	06/06/2015	16.9	17.3	0.3	17.6
07/06/2015	21.2	21.4	0.1	21.5	31/07/2015	9.6	10.0	0.3	10.3
21/08/2015	20.5	20.5	0.0	20.6	06/07/2015	15.6	15.9	0.3	16.2
25/05/2015	20.1	20.3	0.2	20.5	17/06/2015	4.2	4.5	0.3	4.8
14/06/2015	19.3	19.3	0.0	19.3	25/07/2015	9.5	9.9	0.3	10.1
09/07/2015	18.4	18.4	0.0	18.4	24/04/2015	6.1	6.4	0.3	6.7
27/06/2015	17.1	17.3	0.2	17.5	25/05/2015	20.1	20.3	0.2	20.5
07/10/2015	17.1	17.1	0.0	17.1	30/05/2015	14.7	15.0	0.2	15.2
06/06/2015	16.9	17.3	0.3	17.6	27/05/2015	14.2	14.4	0.2	14.6

Table B-33: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R2

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	25.2	0.3	25.4	05/07/2015	24.9	25.2	0.3	25.4
04/07/2015	21.5	21.6	0.1	21.6	03/08/2015	12.4	12.6	0.2	12.9
07/06/2015	21.2	21.3	0.0	21.3	02/07/2015	10.1	10.3	0.2	10.6
21/08/2015	20.5	20.5	0.0	20.5	24/04/2015	6.1	6.4	0.2	6.6
25/05/2015	20.1	20.2	0.1	20.3	27/06/2015	17.1	17.3	0.2	17.5
14/06/2015	19.3	19.3	0.0	19.3	08/05/2015	5.6	5.8	0.2	6.0
09/07/2015	18.4	18.4	0.0	18.4	06/06/2015	16.9	17.1	0.2	17.3
27/06/2015	17.1	17.3	0.2	17.5	29/09/2015	11.0	11.2	0.2	11.3
07/10/2015	17.1	17.1	0.0	17.1	05/08/2015	ND	0.2	0.2	0.3
06/06/2015	16.9	17.1	0.2	17.3	11/08/2015	8.4	8.6	0.1	8.7
10/07/2015	16.8	16.9	0.0	16.9	04/10/2015	7.4	7.6	0.1	7.7

ND – No Data

Table B-34: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R2

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	25.3	0.4	25.6	05/07/2015	24.9	25.3	0.4	25.6
04/07/2015	21.5	21.6	0.1	21.7	03/08/2015	12.4	12.7	0.3	13.1
07/06/2015	21.2	21.3	0.1	21.4	02/07/2015	10.1	10.4	0.3	10.8
21/08/2015	20.5	20.5	0.0	20.5	24/04/2015	6.1	6.5	0.3	6.8
25/05/2015	20.1	20.3	0.1	20.4	27/06/2015	17.1	17.4	0.3	17.7
14/06/2015	19.3	19.3	0.0	19.3	08/05/2015	5.6	5.8	0.2	6.1
09/07/2015	18.4	18.4	0.0	18.4	06/06/2015	16.9	17.2	0.2	17.4
27/06/2015	17.1	17.4	0.3	17.7	29/09/2015	11.0	11.3	0.2	11.5
07/10/2015	17.1	17.1	0.0	17.1	05/08/2015	ND	0.2	0.2	0.4
06/06/2015	16.9	17.2	0.2	17.4	11/08/2015	8.4	8.6	0.2	8.8
10/07/2015	16.8	16.9	0.0	16.9	04/10/2015	7.4	7.6	0.2	7.8

ND – No Data

Table B-35: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R3

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	25.4	0.5	25.9	05/07/2015	24.9	25.4	0.5	25.9
04/07/2015	21.5	21.7	0.2	21.9	08/05/2015	5.6	6.0	0.4	6.5
07/06/2015	21.2	21.3	0.0	21.3	14/07/2015	6.7	7.0	0.3	7.4
21/08/2015	20.5	20.5	0.0	20.5	31/05/2015	11.8	12.1	0.3	12.4
25/05/2015	20.1	20.2	0.1	20.3	07/05/2015	6.9	7.1	0.2	7.4
14/06/2015	19.3	19.3	0.0	19.3	03/08/2015	12.4	12.6	0.2	12.8
09/07/2015	18.4	18.5	0.1	18.6	27/06/2015	17.1	17.3	0.2	17.5
27/06/2015	17.1	17.3	0.2	17.5	09/05/2015	8.4	8.6	0.2	8.8
07/10/2015	17.1	17.1	0.0	17.1	06/05/2015	13.0	13.2	0.2	13.4
06/06/2015	16.9	17.0	0.1	17.1	04/08/2015	8.4	8.6	0.2	8.8
10/07/2015	16.8	16.9	0.0	16.9	04/07/2015	21.5	21.7	0.2	21.9

Table B-36: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R3

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	25.6	0.7	26.4	05/07/2015	24.9	25.6	0.7	26.4
04/07/2015	21.5	21.8	0.3	22.0	08/05/2015	5.6	6.2	0.6	6.8
07/06/2015	21.2	21.3	0.0	21.3	14/07/2015	6.7	7.2	0.5	7.6
21/08/2015	20.5	20.5	0.0	20.5	31/05/2015	11.8	12.3	0.5	12.7
25/05/2015	20.1	20.2	0.1	20.3	03/08/2015	12.4	12.7	0.3	13.0
14/06/2015	19.3	19.3	0.0	19.3	27/06/2015	17.1	17.4	0.3	17.7
09/07/2015	18.4	18.5	0.1	18.7	07/05/2015	6.9	7.2	0.3	7.5
27/06/2015	17.1	17.4	0.3	17.7	09/05/2015	8.4	8.7	0.3	9.0
07/10/2015	17.1	17.1	0.0	17.1	06/05/2015	13.0	13.3	0.3	13.5
06/06/2015	16.9	17.1	0.2	17.2	04/08/2015	8.4	8.7	0.3	8.9
10/07/2015	16.8	16.9	0.0	16.9	04/07/2015	21.5	21.8	0.3	22.0

Table B-37: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R4

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.7	-	-	-	-	-
05/07/2015	24.9	25.5	0.6	26.1	05/07/2015	24.9	25.5	0.6	26.1
04/07/2015	21.5	21.8	0.3	22.1	08/05/2015	5.6	6.1	0.5	6.6
07/06/2015	21.2	21.3	0.0	21.3	31/05/2015	11.8	12.1	0.3	12.5
21/08/2015	20.5	20.5	0.0	20.5	14/07/2015	6.7	7.0	0.3	7.4
25/05/2015	20.1	20.2	0.0	20.2	04/07/2015	21.5	21.8	0.3	22.1
14/06/2015	19.3	19.3	0.0	19.3	27/07/2015	ND	0.3	0.3	0.6
09/07/2015	18.4	18.6	0.2	18.7	04/06/2015	15.3	15.7	0.3	15.9
27/06/2015	17.1	17.3	0.2	17.5	07/05/2015	6.9	7.2	0.3	7.4
07/10/2015	17.1	17.1	0.0	17.1	26/05/2015	15.3	15.5	0.2	15.7
06/06/2015	16.9	17.0	0.1	17.1	01/09/2015	9.8	10.0	0.2	10.2
10/07/2015	16.8	16.9	0.0	16.9	04/08/2015	8.4	8.6	0.2	8.8

ND – No Data

Table B-38: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R4

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.7	-	-	-	-	-
05/07/2015	24.9	25.7	0.8	26.6	05/07/2015	24.9	25.7	0.8	26.6
04/07/2015	21.5	21.9	0.4	22.4	08/05/2015	5.6	6.3	0.7	7.0
07/06/2015	21.2	21.3	0.0	21.3	31/05/2015	11.8	12.3	0.5	12.8
21/08/2015	20.5	20.5	0.0	20.5	14/07/2015	6.7	7.2	0.5	7.6
25/05/2015	20.1	20.2	0.1	20.2	04/07/2015	21.5	21.9	0.4	22.4
14/06/2015	19.3	19.3	0.0	19.4	27/07/2015	ND	0.4	0.4	0.8
09/07/2015	18.4	18.6	0.2	18.9	04/06/2015	15.3	15.8	0.4	16.2
27/06/2015	17.1	17.4	0.3	17.7	07/05/2015	6.9	7.3	0.4	7.6
07/10/2015	17.1	17.1	0.0	17.1	26/05/2015	15.3	15.6	0.3	15.9
06/06/2015	16.9	17.1	0.1	17.2	27/06/2015	17.1	17.4	0.3	17.7
10/07/2015	16.8	16.9	0.0	16.9	01/09/2015	9.8	10.1	0.3	10.4

ND – No Data

Table B-39: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R5

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.7	0.1	29.8	-	-	-	-	-
05/07/2015	24.9	25.4	0.5	26.0	05/07/2015	24.9	25.4	0.5	26.0
04/07/2015	21.5	21.9	0.4	22.3	08/05/2015	5.6	6.0	0.4	6.4
07/06/2015	21.2	21.3	0.0	21.3	04/07/2015	21.5	21.9	0.4	22.3
21/08/2015	20.5	20.5	0.0	20.5	04/06/2015	15.3	15.8	0.4	16.2
25/05/2015	20.1	20.1	0.0	20.2	18/06/2015	7.8	8.1	0.3	8.4
d14/06/2015	19.3	19.3	0.0	19.3	06/08/2015	8.4	8.7	0.3	8.9
09/07/2015	18.4	18.6	0.2	18.8	26/05/2015	15.3	15.6	0.3	15.8
27/06/2015	17.1	17.3	0.1	17.4	01/06/2015	7.8	8.0	0.2	8.3
07/10/2015	17.1	17.1	0.0	17.1	14/07/2015	6.7	6.9	0.2	7.2
06/06/2015	16.9	17.1	0.1	17.2	07/05/2015	6.9	7.1	0.2	7.3
10/07/2015	16.8	16.9	0.0	16.9	01/09/2015	9.8	10.0	0.2	10.2

Table B-40: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R5

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.7	0.1	29.9	-	-	-	-	-
05/07/2015	24.9	25.7	0.8	26.4	05/07/2015	24.9	25.7	0.8	26.4
04/07/2015	21.5	22.1	0.6	22.6	08/05/2015	5.6	6.2	0.6	6.8
07/06/2015	21.2	21.3	0.0	21.3	04/07/2015	21.5	22.1	0.6	22.6
21/08/2015	20.5	20.5	0.0	20.5	04/06/2015	15.3	15.9	0.6	16.5
25/05/2015	20.1	20.2	0.0	20.2	18/06/2015	7.8	8.2	0.4	8.6
14/06/2015	19.3	19.3	0.0	19.4	06/08/2015	8.4	8.8	0.4	9.1
09/07/2015	18.4	18.7	0.3	18.9	26/05/2015	15.3	15.7	0.4	16.0
27/06/2015	17.1	17.3	0.2	17.6	01/06/2015	7.8	8.1	0.3	8.5
07/10/2015	17.1	17.1	0.0	17.1	14/07/2015	6.7	7.0	0.3	7.3
06/06/2015	16.9	17.1	0.2	17.3	07/05/2015	6.9	7.2	0.3	7.5
10/07/2015	16.8	16.9	0.0	16.9	01/09/2015	9.8	10.1	0.3	10.4

Table B-41: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R6

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.8	0.2	30.1	16/07/2015	7.8	8.3	0.5	8.7
05/07/2015	24.9	25.3	0.4	25.7	04/07/2015	21.5	21.9	0.4	22.3
04/07/2015	21.5	21.9	0.4	22.3	05/07/2015	24.9	25.3	0.4	25.7
07/06/2015	21.2	21.3	0.0	21.3	18/06/2015	7.8	8.1	0.3	8.5
21/08/2015	20.5	20.5	0.0	20.5	04/06/2015	15.3	15.7	0.3	16.0
25/05/2015	20.1	20.1	0.0	20.1	05/06/2015	8.3	8.6	0.3	8.9
14/06/2015	19.3	19.3	0.0	19.4	01/07/2015	15.2	15.5	0.3	15.8
09/07/2015	18.4	18.6	0.2	18.7	28/07/2015	8.6	8.9	0.3	9.1
27/06/2015	17.1	17.2	0.1	17.3	29/05/2015	7.3	7.6	0.2	7.8
07/10/2015	17.1	17.1	0.0	17.1	07/08/2015	10.8	11.0	0.2	11.3
06/06/2015	16.9	17.1	0.2	17.4	28/06/2015	29.6	29.8	0.2	30.1
10/07/2015	16.8	16.9	0.0	16.9	25/06/2015	7.3	7.5	0.2	7.8

Table B-42: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R6

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.9	0.3	30.3	16/07/2015	7.8	8.4	0.6	9.1
05/07/2015	24.9	25.5	0.6	26.0	04/07/2015	21.5	22.1	0.6	22.7
04/07/2015	21.5	22.1	0.6	22.7	05/07/2015	24.9	25.5	0.6	26.0
07/06/2015	21.2	21.3	0.0	21.3	18/06/2015	7.8	8.3	0.5	8.8
21/08/2015	20.5	20.5	0.0	20.5	04/06/2015	15.3	15.9	0.5	16.3
25/05/2015	20.1	20.1	0.0	20.2	05/06/2015	8.3	8.7	0.4	9.2
14/06/2015	19.3	19.3	0.0	19.4	01/07/2015	15.2	15.6	0.4	16.0
09/07/2015	18.4	18.6	0.2	18.8	28/07/2015	8.6	9.0	0.4	9.4
27/06/2015	17.1	17.3	0.1	17.4	28/06/2015	29.6	29.9	0.3	30.3
07/10/2015	17.1	17.1	0.0	17.1	25/06/2015	7.3	7.6	0.3	8.0
06/06/2015	16.9	17.2	0.3	17.5	29/05/2015	7.3	7.6	0.3	8.0
10/07/2015	16.8	16.9	0.0	16.9	07/08/2015	10.8	11.1	0.3	11.4

Table B-43: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R7

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.7	0.1	29.8	-	-	-	-	-
05/07/2015	24.9	25.0	0.1	25.0	03/07/2015	14.3	14.7	0.4	15.1
04/07/2015	21.5	21.5	0.0	21.5	03/06/2015	12.5	12.8	0.3	13.2
07/06/2015	21.2	21.3	0.0	21.3	05/04/2015	3.5	3.8	0.3	4.1
21/08/2015	20.5	20.5	0.0	20.5	01/07/2015	15.2	15.5	0.3	15.7
25/05/2015	20.1	20.1	0.0	20.1	20/06/2015	6.7	6.9	0.2	7.2
14/06/2015	19.3	19.4	0.1	19.4	01/09/2015	9.8	10.0	0.2	10.2
09/07/2015	18.4	18.4	0.0	18.4	02/06/2015	11	11.2	0.2	11.4
27/06/2015	17.1	17.1	0.0	17.1	31/08/2015	6	6.2	0.2	6.4
07/10/2015	17.1	17.1	0.0	17.1	11/06/2015	6.2	6.4	0.2	6.6
06/06/2015	16.9	16.9	0.0	17.0	20/07/2015	8.8	9.0	0.2	9.2

Table B-44: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R7

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.7	0.1	29.9	-	-	-	-	-
05/07/2015	24.9	25.0	0.1	25.1	-	-	-	-	-
04/07/2015	21.5	21.5	0.0	21.6	03/07/2015	14.3	14.9	0.6	15.5
07/06/2015	21.2	21.3	0.0	21.3	03/06/2015	12.5	13.0	0.5	13.5
21/08/2015	20.5	20.5	0.0	20.5	05/04/2015	3.5	3.9	0.4	4.4
25/05/2015	20.1	20.1	0.0	20.1	01/07/2015	15.2	15.6	0.4	16.0
14/06/2015	19.3	19.4	0.1	19.5	01/09/2015	9.8	10.1	0.3	10.4
09/07/2015	18.4	18.4	0.0	18.4	20/06/2015	6.7	7.0	0.3	7.3
27/06/2015	17.1	17.1	0.0	17.2	31/08/2015	6.0	6.3	0.3	6.6
07/10/2015	17.1	17.1	0.0	17.1	11/06/2015	6.2	6.5	0.3	6.8
06/06/2015	16.9	17.0	0.0	17.0	20/07/2015	8.8	9.1	0.3	9.4
10/07/2015	16.8	16.9	0.0	16.9	02/06/2015	11.0	11.3	0.3	11.6

Table B-45: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R8

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.8	0.2	30.1	03/07/2015	14.3	14.7	0.4	15.1
05/07/2015	24.9	24.9	0.0	24.9	20/06/2015	6.7	7.0	0.3	7.3
04/07/2015	21.5	21.5	0.0	21.5	03/06/2015	12.5	12.8	0.3	13.0
07/06/2015	21.2	21.3	0.0	21.3	01/09/2015	9.8	10.0	0.2	10.3
21/08/2015	20.5	20.5	0.0	20.5	07/07/2015	ND	0.2	0.2	0.5
25/05/2015	20.1	20.1	0.0	20.1	28/06/2015	29.6	29.8	0.2	30.1
14/06/2015	19.3	19.4	0.1	19.4	31/08/2015	6.0	6.2	0.2	6.4
09/07/2015	18.4	18.4	0.0	18.4	03/05/2015	2.9	3.1	0.2	3.3
27/06/2015	17.1	17.1	0.0	17.1	17/04/2015	ND	0.2	0.2	0.3
07/10/2015	17.1	17.1	0.0	17.2	18/06/2015	7.8	7.9	0.1	8.1
06/06/2015	16.9	16.9	0.0	16.9	21/04/2015	3.7	3.8	0.1	4.0

ND – No Data

Table B-46: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R8

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.9	0.3	30.3	03/07/2015	14.3	14.9	0.6	15.5
05/07/2015	24.9	24.9	0.0	25.0	20/06/2015	6.7	7.1	0.4	7.6
04/07/2015	21.5	21.5	0.0	21.5	03/06/2015	12.5	12.9	0.4	13.3
07/06/2015	21.2	21.3	0.0	21.3	01/09/2015	9.8	10.2	0.4	10.5
21/08/2015	20.5	20.5	0.0	20.5	07/07/2015	ND	0.3	0.3	0.7
25/05/2015	20.1	20.1	0.0	20.1	28/06/2015	29.6	29.9	0.3	30.3
14/06/2015	19.3	19.4	0.1	19.5	31/08/2015	6.0	6.3	0.3	6.6
09/07/2015	18.4	18.4	0.0	18.4	03/05/2015	2.9	3.2	0.3	3.4
27/06/2015	17.1	17.1	0.0	17.1	17/04/2015	ND	0.3	0.3	0.5
07/10/2015	17.1	17.1	0.0	17.2	18/06/2015	7.8	8.0	0.2	8.2
06/06/2015	16.9	16.9	0.0	16.9	19/09/2015	6.4	6.6	0.2	6.8

ND – No Data

Table B-47: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R9

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.9	0.3	30.2	15/06/2015	12.6	12.9	0.3	13.3
05/07/2015	24.9	24.9	0.0	24.9	28/06/2015	29.6	29.9	0.3	30.2
04/07/2015	21.5	21.5	0.0	21.5	23/05/2015	9.4	9.6	0.2	9.8
07/06/2015	21.2	21.2	0.0	21.3	26/05/2015	15.3	15.5	0.2	15.7
21/08/2015	20.5	20.5	0.0	20.5	30/04/2015	4.4	4.6	0.2	4.7
25/05/2015	20.1	20.1	0.0	20.1	02/05/2015	1.9	2.1	0.2	2.2
14/06/2015	19.3	19.4	0.1	19.4	03/07/2015	14.3	14.5	0.2	14.6
09/07/2015	18.4	18.4	0.0	18.4	01/05/2015	2.5	2.6	0.1	2.8
27/06/2015	17.1	17.1	0.0	17.1	25/06/2015	7.3	7.4	0.1	7.6
07/10/2015	17.1	17.2	0.1	17.2	10/06/2015	9.5	9.6	0.1	9.7
06/06/2015	16.9	16.9	0.0	16.9	31/03/2015	7.3	7.4	0.1	7.5

Table B-48: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R9

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	30.1	0.5	30.6	15/06/2015	12.6	13.1	0.5	13.6
05/07/2015	24.9	24.9	0.0	24.9	28/06/2015	29.6	30.1	0.5	30.6
04/07/2015	21.5	21.5	0.0	21.5	23/05/2015	9.4	9.7	0.3	10.0
07/06/2015	21.2	21.3	0.0	21.3	26/05/2015	15.3	15.6	0.3	15.9
21/08/2015	20.5	20.5	0.0	20.5	03/07/2015	14.3	14.5	0.2	14.8
25/05/2015	20.1	20.1	0.0	20.1	30/04/2015	4.4	4.6	0.2	4.8
14/06/2015	19.3	19.4	0.1	19.5	02/05/2015	1.9	2.1	0.2	2.3
09/07/2015	18.4	18.4	0.0	18.4	25/06/2015	7.3	7.5	0.2	7.7
27/06/2015	17.1	17.1	0.0	17.1	01/05/2015	2.5	2.7	0.2	2.9
07/10/2015	17.1	17.2	0.1	17.2	31/03/2015	7.3	7.5	0.2	7.7
06/06/2015	16.9	16.9	0.0	16.9	10/06/2015	9.5	9.7	0.2	9.9

Table B-49: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R10

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.7	0.1	29.8	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	26/05/2015	15.3	15.6	0.3	15.9
04/07/2015	21.5	21.5	0.0	21.5	15/06/2015	12.6	12.9	0.3	13.1
07/06/2015	21.2	21.2	0.0	21.3	24/08/2015	5.4	5.6	0.2	5.7
21/08/2015	20.5	20.5	0.0	20.5	30/04/2015	4.4	4.5	0.1	4.7
25/05/2015	20.1	20.1	0.0	20.1	19/07/2015	7.3	7.4	0.1	7.6
14/06/2015	19.3	19.3	0.0	19.4	31/03/2015	7.3	7.4	0.1	7.5
09/07/2015	18.4	18.4	0.0	18.4	21/06/2015	14.6	14.7	0.1	14.8
27/06/2015	17.1	17.1	0.0	17.1	23/04/2015	6.5	6.6	0.1	6.8
07/10/2015	17.1	17.2	0.1	17.2	08/08/2015	13.7	13.8	0.1	13.9
06/06/2015	16.9	16.9	0.0	16.9	16/04/2015	5.5	5.6	0.1	5.7

Table B-50: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R10

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.8	0.2	29.9	26/05/2015	15.3	15.7	0.4	16.1
05/07/2015	24.9	24.9	0.0	24.9	15/06/2015	12.6	13.0	0.4	13.4
04/07/2015	21.5	21.5	0.0	21.5	24/08/2015	5.4	5.6	0.2	5.8
07/06/2015	21.2	21.3	0.0	21.3	30/04/2015	4.4	4.6	0.2	4.8
21/08/2015	20.5	20.5	0.0	20.5	19/07/2015	7.3	7.5	0.2	7.7
25/05/2015	20.1	20.1	0.0	20.1	31/03/2015	7.3	7.5	0.2	7.7
14/06/2015	19.3	19.4	0.1	19.4	21/06/2015	14.6	14.8	0.2	15.0
09/07/2015	18.4	18.4	0.0	18.4	23/04/2015	6.5	6.7	0.2	6.9
27/06/2015	17.1	17.1	0.0	17.1	28/06/2015	29.6	29.8	0.2	29.9
07/10/2015	17.1	17.2	0.1	17.2	16/04/2015	5.5	5.7	0.2	5.9
06/06/2015	16.9	16.9	0.0	16.9	08/08/2015	13.7	13.9	0.2	14.0

Table B-51: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R11

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	21/06/2015	14.6	15.0	0.4	15.4
04/07/2015	21.5	21.5	0.0	21.5	26/05/2015	15.3	15.7	0.4	16.0
07/06/2015	21.2	21.3	0.0	21.3	23/04/2015	6.5	6.8	0.3	7.1
21/08/2015	20.5	20.5	0.0	20.5	24/05/2015	12.6	12.8	0.2	13.1
25/05/2015	20.1	20.1	0.0	20.1	15/06/2015	12.6	12.8	0.2	13.0
14/06/2015	19.3	19.5	0.2	19.6	16/04/2015	5.5	5.7	0.2	5.9
09/07/2015	18.4	18.4	0.0	18.4	12/03/2015	13.7	13.9	0.2	14.1
27/06/2015	17.1	17.1	0.0	17.1	08/07/2015	11.8	12.0	0.2	12.2
07/10/2015	17.1	17.1	0.0	17.2	14/06/2015	19.3	19.5	0.2	19.6
06/06/2015	16.9	16.9	0.0	16.9	08/08/2015	13.7	13.8	0.1	14.0

Table B-52: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R11

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	21/06/2015	14.6	15.2	0.6	15.8
04/07/2015	21.5	21.5	0.0	21.5	26/05/2015	15.3	15.8	0.5	16.4
07/06/2015	21.2	21.3	0.0	21.3	23/04/2015	6.5	6.9	0.4	7.3
21/08/2015	20.5	20.5	0.0	20.5	24/05/2015	12.6	12.9	0.3	13.3
25/05/2015	20.1	20.1	0.0	20.1	15/06/2015	12.6	12.9	0.3	13.2
14/06/2015	19.3	19.5	0.2	19.8	16/04/2015	5.5	5.8	0.3	6.1
09/07/2015	18.4	18.4	0.0	18.4	12/03/2015	13.7	14.0	0.3	14.2
27/06/2015	17.1	17.1	0.0	17.1	08/07/2015	11.8	12.1	0.3	12.3
07/10/2015	17.1	17.2	0.1	17.2	14/06/2015	19.3	19.5	0.2	19.8
06/06/2015	16.9	16.9	0.0	16.9	08/08/2015	13.7	13.9	0.2	14.1

Table B-53: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R12

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	14/06/2015	19.3	19.7	0.4	20.2
04/07/2015	21.5	21.5	0.0	21.5	21/06/2015	14.6	15.0	0.4	15.4
07/06/2015	21.2	21.3	0.0	21.3	11/06/2015	6.2	6.5	0.3	6.9
21/08/2015	20.5	20.5	0.0	20.5	17/05/2015	8.5	8.8	0.3	9.1
25/05/2015	20.1	20.2	0.0	20.2	24/05/2015	12.6	12.9	0.3	13.2
14/06/2015	19.3	19.7	0.4	20.2	15/06/2015	12.6	12.9	0.3	13.2
09/07/2015	18.4	18.4	0.0	18.4	26/06/2015	14.3	14.6	0.3	14.9
27/06/2015	17.1	17.1	0.0	17.1	20/07/2015	8.8	9.0	0.2	9.2
07/10/2015	17.1	17.1	0.0	17.1	31/03/2015	7.3	7.5	0.2	7.7
06/06/2015	16.9	16.9	0.0	16.9	31/07/2015	9.6	9.8	0.2	10.0

Table B-54: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R12

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	14/06/2015	19.3	19.9	0.6	20.6
04/07/2015	21.5	21.5	0.0	21.5	21/06/2015	14.6	15.2	0.6	15.8
07/06/2015	21.2	21.3	0.0	21.3	11/06/2015	6.2	6.7	0.5	7.2
21/08/2015	20.5	20.5	0.0	20.5	17/05/2015	8.5	9.0	0.5	9.5
25/05/2015	20.1	20.2	0.1	20.2	15/06/2015	12.6	13.0	0.4	13.5
14/06/2015	19.3	19.9	0.6	20.6	24/05/2015	12.6	13.0	0.4	13.5
09/07/2015	18.4	18.4	0.0	18.4	26/06/2015	14.3	14.7	0.4	15.2
27/06/2015	17.1	17.1	0.0	17.1	20/07/2015	8.8	9.1	0.3	9.4
07/10/2015	17.1	17.1	0.0	17.1	31/03/2015	7.3	7.6	0.3	7.8
06/06/2015	16.9	16.9	0.0	16.9	31/07/2015	9.6	9.9	0.3	10.1

Table B-55: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R13

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	11/06/2015	6.2	6.6	0.4	7.0
04/07/2015	21.5	21.5	0.0	21.5	26/06/2015	14.3	14.7	0.4	15.0
07/06/2015	21.2	21.3	0.1	21.4	29/06/2015	16.7	17.0	0.3	17.3
21/08/2015	20.5	20.5	0.0	20.5	23/07/2015	7.5	7.8	0.3	8.1
25/05/2015	20.1	20.4	0.3	20.7	15/07/2015	7.1	7.4	0.3	7.7
14/06/2015	19.3	19.5	0.2	19.7	25/05/2015	20.1	20.4	0.3	20.7
09/07/2015	18.4	18.5	0.1	18.6	13/06/2015	16.0	16.3	0.3	16.5
27/06/2015	17.1	17.2	0.1	17.3	21/07/2015	13.6	13.8	0.2	14.1
07/10/2015	17.1	17.1	0.0	17.1	31/03/2015	7.3	7.5	0.2	7.8
06/06/2015	16.9	16.9	0.0	17.0	30/06/2015	16.6	16.8	0.2	17.0

Table B-56: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R13

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	11/06/2015	6.2	6.8	0.6	7.4
04/07/2015	21.5	21.5	0.0	21.5	26/06/2015	14.3	14.8	0.5	15.4
07/06/2015	21.2	21.4	0.1	21.5	15/07/2015	7.1	7.6	0.4	8.0
21/08/2015	20.5	20.5	0.0	20.5	29/06/2015	16.7	17.1	0.4	17.6
25/05/2015	20.1	20.5	0.4	20.9	23/07/2015	7.5	7.9	0.4	8.4
14/06/2015	19.3	19.6	0.3	19.9	25/05/2015	20.1	20.5	0.4	20.9
09/07/2015	18.4	18.6	0.2	18.7	13/06/2015	16.0	16.4	0.4	16.8
27/06/2015	17.1	17.2	0.1	17.4	21/07/2015	13.6	14.0	0.4	14.3
07/10/2015	17.1	17.1	0.0	17.1	30/06/2015	16.6	16.9	0.3	17.3
06/06/2015	16.9	17.0	0.0	17.0	31/03/2015	7.3	7.6	0.3	8.0

Table B-57: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R14

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	15/07/2015	7.1	7.7	0.6	8.4
04/07/2015	21.5	21.5	0.0	21.5	24/06/2015	8.3	8.8	0.5	9.2
07/06/2015	21.2	21.7	0.4	22.1	27/06/2015	17.1	17.5	0.4	18.0
21/08/2015	20.5	20.7	0.2	20.8	07/06/2015	21.2	21.7	0.4	22.1
25/05/2015	20.1	20.5	0.4	20.8	21/07/2015	13.6	14.0	0.4	14.4
14/06/2015	19.3	19.4	0.1	19.4	25/05/2015	20.1	20.5	0.4	20.8
09/07/2015	18.4	18.6	0.2	18.8	23/07/2015	7.5	7.9	0.4	8.2
27/06/2015	17.1	17.5	0.4	18.0	28/05/2015	8.6	9.0	0.3	9.3
07/10/2015	17.1	17.1	0.0	17.1	23/06/2015	10.2	10.5	0.3	10.9
06/06/2015	16.9	17.1	0.2	17.3	13/06/2015	16.0	16.3	0.3	16.6

Table B-58: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R14

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	15/07/2015	7.1	8.0	0.9	9.0
04/07/2015	21.5	21.5	0.0	21.5	24/06/2015	8.3	9.0	0.7	9.7
07/06/2015	21.2	21.9	0.6	22.5	27/06/2015	17.1	17.7	0.6	18.4
21/08/2015	20.5	20.8	0.2	21.0	07/06/2015	21.2	21.9	0.6	22.5
25/05/2015	20.1	20.6	0.5	21.2	21/07/2015	13.6	14.2	0.6	14.7
14/06/2015	19.3	19.4	0.1	19.5	23/07/2015	7.5	8.0	0.5	8.5
09/07/2015	18.4	18.7	0.2	18.9	25/05/2015	20.1	20.6	0.5	21.2
27/06/2015	17.1	17.7	0.6	18.4	28/05/2015	8.6	9.2	0.5	9.7
07/10/2015	17.1	17.1	0.0	17.1	23/06/2015	10.2	10.7	0.5	11.2
06/06/2015	16.9	17.2	0.3	17.5	13/06/2015	16.0	16.4	0.4	16.9

Table B-59: Controlled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R15

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	07/06/2015	21.2	21.5	0.3	21.8
04/07/2015	21.5	21.5	0.0	21.5	15/07/2015	7.1	7.4	0.3	7.7
07/06/2015	21.2	21.5	0.3	21.8	10/07/2015	16.8	17.1	0.2	17.4
21/08/2015	20.5	20.6	0.1	20.7	30/05/2015	14.7	15.0	0.2	15.2
25/05/2015	20.1	20.2	0.1	20.3	22/07/2015	8.3	8.5	0.2	8.7
14/06/2015	19.3	19.3	0.0	19.3	06/06/2015	16.9	17.1	0.2	17.3
09/07/2015	18.4	18.4	0.0	18.4	23/06/2015	10.2	10.4	0.2	10.6
27/06/2015	17.1	17.3	0.2	17.5	19/05/2015	9.4	9.7	0.2	9.8
07/10/2015	17.1	17.1	0.0	17.1	27/06/2015	17.1	17.3	0.2	17.5
06/06/2015	16.9	17.1	0.2	17.3	31/05/2015	11.8	12.0	0.2	12.1

Table B-60: Uncontrolled 24-hour average $PM_{2.5}$ concentration – Sensitive receptor location R15

Ranked by Highest to Lowest Background Concentration					Ranked by Highest to Lowest Predicted Incremental Concentration				
Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level	Date	Measured background level (Prospect)	Local background level (Prospect + existing sources)	Predicted increment due to proposed new plant	Total cumulative 24-hr average level
28/06/2015	29.6	29.6	0.0	29.6	-	-	-	-	-
05/07/2015	24.9	24.9	0.0	24.9	07/06/2015	21.2	21.7	0.4	22.1
04/07/2015	21.5	21.5	0.0	21.5	15/07/2015	7.1	7.5	0.4	7.9
07/06/2015	21.2	21.7	0.4	22.1	10/07/2015	16.8	17.2	0.4	17.6
21/08/2015	20.5	20.7	0.1	20.8	30/05/2015	14.7	15.1	0.3	15.4
25/05/2015	20.1	20.3	0.2	20.4	06/06/2015	16.9	17.2	0.3	17.5
14/06/2015	19.3	19.3	0.0	19.3	22/07/2015	8.3	8.6	0.3	8.9
09/07/2015	18.4	18.4	0.0	18.4	23/06/2015	10.2	10.5	0.3	10.7
27/06/2015	17.1	17.4	0.2	17.6	31/05/2015	11.8	12.1	0.3	12.3
07/10/2015	17.1	17.1	0.0	17.1	19/05/2015	9.4	9.7	0.2	10.0
06/06/2015	16.9	17.2	0.3	17.5	27/06/2015	17.1	17.4	0.2	17.6