
Appendix F

Air quality impact assessment



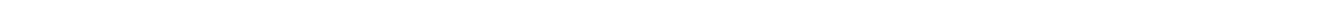
HVO CONTINUATION PROJECT AMENDMENT

Air Quality Impact Assessment

Final | Revision 0

29 July 2025

Project: 22019



HVO Continuation Project Amendment

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Acronyms and definitions

| Abbreviation | Definition |
|-------------------|--------------------------------------------------------------------------------|
| AQGGMP | Air Quality and Greenhouse Gas Management Plan |
| BoM | Bureau of Meteorology |
| CO | Carbon monoxide |
| CSIRO | Commonwealth Scientific and Industrial Research Organisation |
| DPHI | Department of Planning, Housing and Infrastructure |
| EPA | NSW Environment Protection Authority |
| EPL | Environment Protection Licence |
| HVAS | High volume air sampler |
| HVO | Hunter Valley Operations |
| HVO Complex | Hunter Valley Operations North and South Operations |
| Mtpa | Million tonnes per annum |
| NEPM | National Environment Protection Measure |
| NEPC | National Environment Protection Council of Australia |
| NGER | National Greenhouse and Energy Reporting |
| NSW | New South Wales |
| NO | Nitric oxide |
| NO ₂ | Nitrogen dioxide |
| NO _x | Oxides of nitrogen |
| OEH | Office of Environment and Heritage |
| PM _{2.5} | Particulate matter with equivalent aerodynamic diameters less than 2.5 microns |
| PM ₁₀ | Particulate matter with equivalent aerodynamic diameters less than 10 microns |
| POEO Act | <i>Protection of the Environment Operations (POEO) Act 1997</i> |
| ROM | Run-of-mine |
| SO ₂ | Sulphur dioxide |
| SSD | State Significant Development |
| TEOM | Tapered Element Oscillating Microbalance |
| TSP | Total suspended particulate matter |

Executive Summary

This report provides an assessment of the potential air quality impacts of a proposed amendment to the Hunter Valley Operations (HVO) Continuation Project. The potential air quality impacts of the original HVO Continuation Project were assessed by Jacobs (2022). This subsequent assessment of the amended Project has adopted a similar assessment approach but supplemented with more recent information on the existing environment.

In summary, the assessment has involved identifying the key air quality issues, characterising the existing environment, quantifying emissions to air and modelling to determine the potential impact of the amended Project on local air quality. The key air quality issues were identified as mining dust, post-blast fume and diesel exhaust. These issues were the focus of the assessment. The key outcomes of the modelling and subsequent assessment are:

- Emissions from mining activities (i.e. particulate matter) may present an air quality impact risk with respect to particulate matter with equivalent aerodynamic diameter of 10 microns or less (PM₁₀). Specifically, there is potential risk that HVO influences an exceedance on 1 day at Jerrys Plains (for 2029 and 2034 scenario) and on 1 day at Maison Dieu (for 2034). The contributions of HVO to the selected locations on these days would be less than 11 micrograms per cubic metre (µg/m³) and well below the air quality assessment criteria from the existing development consents. Nevertheless, it will be necessary for HVO to respond to any potential increases in offsite air quality risks and minimise its contribution to air quality. HVO is committed to proactively modifying or shutting down any activities that may be increasing the risk of air quality impacts. Modelling has shown that the implementation of modifying operations in response to the trigger levels defined in the Air Quality and Greenhouse Gas Management Plan (AQGGMP) can reduce HVO's contributions to air quality such that HVO would not be the cause of an exceedance. Modelling of annual average PM₁₀ concentrations showed compliance with air quality assessment criteria at all sensitive receptors. Concentrations of PM₁₀ due to the amended Project are expected to be lower than the concentrations due to the original Project at sensitive receptors.
- Emissions from mining activities (i.e. particulate matter) are not expected to result in any adverse air quality impacts with respect to particulate matter with equivalent aerodynamic diameter of 2.5 microns or less (PM_{2.5}). This outcome is based on modelling which showed compliance with air quality assessment criteria at all sensitive receptors. Concentrations of PM_{2.5} due to the amended Project are expected to be lower than the concentrations due to the original Project at sensitive receptors.
- Emissions from mining activities (i.e. particulate matter) are not expected to result in any adverse air quality impacts with respect to total suspended particulates (TSP). This outcome is based on modelling which showed compliance with air quality assessment criteria at all sensitive receptors. Concentrations of TSP due to the amended Project are expected to be lower than the concentrations due to the original Project at sensitive receptors.
- Emissions from mining activities (i.e. particulate matter) are not expected to result in any adverse air quality impacts with respect to deposited dust. This outcome is based on modelling which showed compliance with air quality assessment criteria at all sensitive receptors. Deposition levels due to the amended Project are expected to be lower than deposition levels due to the original Project at sensitive receptors.
- Dust concentrations and deposition levels would comply with NSW Government's NSW Voluntary Land Acquisition and Mitigation Policy (VLAMP) criteria at all private sensitive receptors not subject to existing air quality acquisition rights with the exception of annual average PM₁₀, annual average PM_{2.5} and annual average deposited dust at Lot 8/3005 (Property 121). The number of lots with risk of a VLAMP exceedance is expected to reduce with the amended Project, relative to the original Project.
- Emissions associated with post blast fume (as nitrogen dioxide or NO₂) are not expected to result in any adverse air quality impacts, based on modelling which showed compliance with air quality assessment criteria at all sensitive receptors. The amended Project will not change the proposed blasting activities, so potential impacts are expected to be similar to those of the original Project.
- Emissions from diesel exhausts associated with off-road vehicles and equipment are not expected to result in any adverse air quality impacts (as NO₂), based on modelling which showed compliance with air quality assessment criteria at all sensitive receptors. Concentrations of NO₂ concentrations due to the amended Project are expected to be lower than the concentrations due to the original Project at sensitive receptors.
- The existing AQGGMP will be reviewed and updated as part of the implementation of the amended Project. This will include a review of the existing monitoring to check that the network provides adequate coverage, particularly in areas identified by the modelling with a potential for increased air quality impact risk.

Based on this assessment, it has been concluded that the amended Project is unlikely to affect air quality beyond the range of historically measured fluctuations of key air quality indicators around the region. In addition, it is relevant to note that the amended Project is expected to result in a lower air quality risk than the original Project. This is largely because the amended Project proposes significantly (approximately 23%) lower quantities of material moved in each year. As such, particulate matter emissions and impacts are expected to be lower than originally estimated.

1 Introduction

1.1 Background

Hunter Valley Operations (HVO) is a well-established multi-pit open cut coal mining complex, comprising two mine sites separated by the Hunter River, HVO North and HVO South. HVO is approximately 24 kilometres (km) north-west of Singleton in the Hunter Valley of New South Wales (NSW) (refer to Figure 1). While the two mine sites are approved under separate development consents issued under the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act), they operate as one complex with fully integrated environmental management systems.

HVO North operates under Development Consent DA 450-10-2003 issued by the then NSW Minister for Infrastructure and Planning in 2004, which allows extraction of up to 22 million tonnes per annum (Mtpa) of run-of-mine (ROM) coal until 31 December 2026. HVO North comprises the approved mining areas of West Pit, Mitchell Pit, Carrington Pit and North Pit, as well as the Hunter Valley (HV) and Howick Coal Preparation Plants (CPP) and the Howick and HVO North mine infrastructure area (MIA). The Newdell Load Point (LP) and Hunter Valley (HVLP) train loading facilities are also at HVO North.

HVO South operates under Project Approval (PA) 06_0261 issued by the then NSW Minister for Planning in 2009 and comprises the approved mining areas of Riverview Pit, Cheshunt Pit, Riverview South East Extension and South Lemington Pits 1 and 2, as well as the MIA, and the Lemington CPP (LCPP) and rail loop (approved but not constructed). PA 06_0261 allows extraction of up to 20 Mtpa of ROM coal until 24 March 2030.

The key components and approved disturbance areas associated with the HVO Complex are illustrated in Figure 2.

Significant coal resources remain across the HVO Complex beyond what is currently approved for extraction under the existing development consents. HVO is therefore seeking approval for the HVO Continuation Project (the Project) from the NSW Minister for Planning and Public Spaces, or delegate, under the provisions of Part 4 of EP&A Act. The Project broadly comprises the continuation of mining at HVO North and HVO South, beyond the current approved mining completion dates of 2026 and 2030 respectively. The Project will seek to maintain separate development consents for HVO North and South, as is currently the case.

Given that the two mine sites operate as one complex, one environmental impact statement (EIS, EMM 2022a) was prepared to support the two State Significant Development (SSD) applications for the Project, being:

- SSD-11826681 – HVO North Open Cut Coal Continuation Project
- SSD-11826621 – HVO South Open Cut Coal Continuation Project.

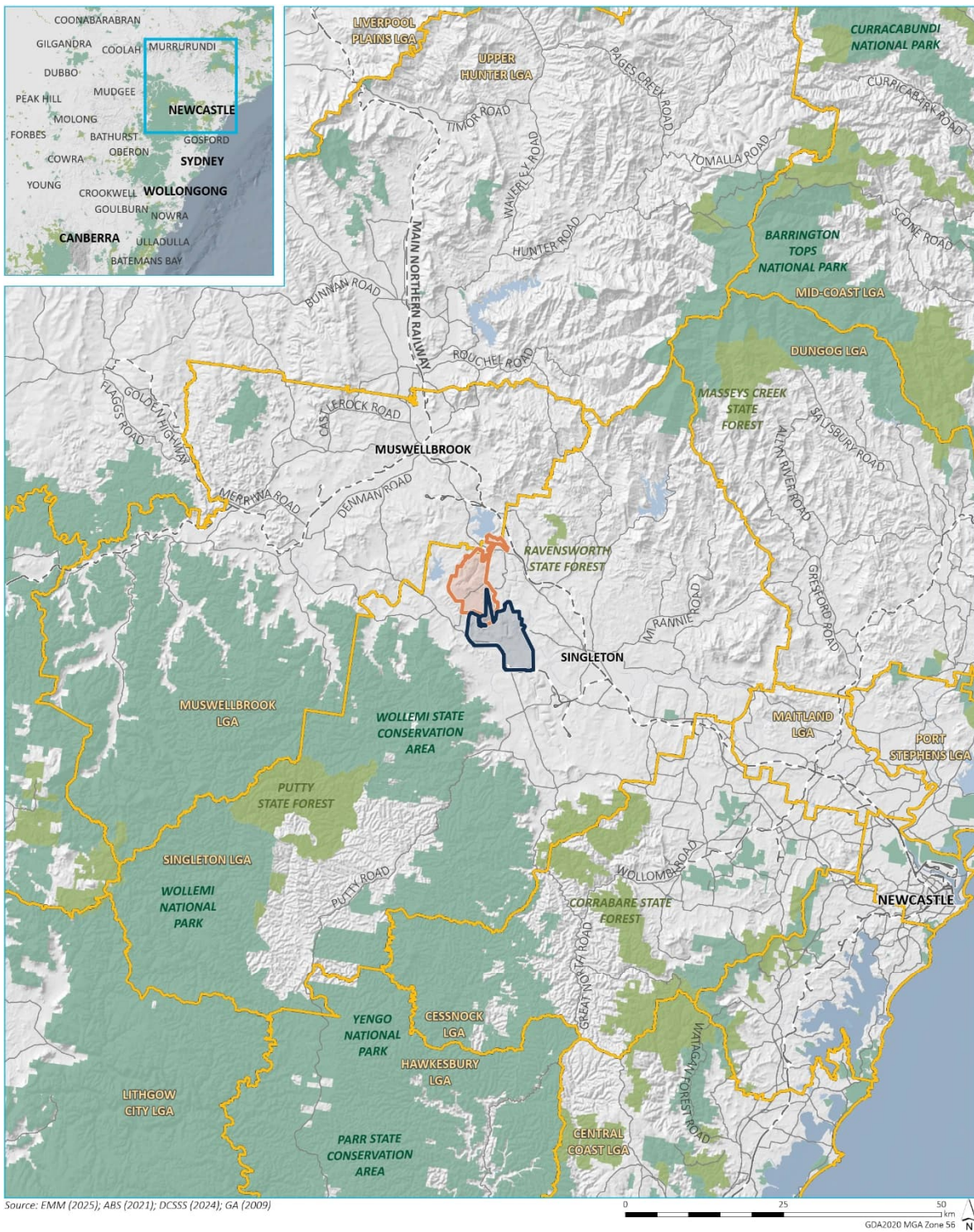
The EIS was subsequently placed on public exhibition from Monday 30 January 2023 through to Monday 27 February 2023. During the public exhibition of the EIS, a total of 1,060 submissions were received by the NSW Department of Planning, Housing and Infrastructure (DPHI) from individuals, organisations, public authorities, councils, and government agencies for the two SSD applications. Most of the community submissions supported the Project.

To respond to matters raised in submissions on the Project during the public exhibition period, a Submissions Report (EMM, 2023a) was prepared, along with an Amendment Report (EMM 2023b) outlining proposed amendments to the HVO North Project.

During the subsequent assessment of the Project by DPHI, a number of requests for information (RFI) were issued to HVO, who provided responses as required. In response to an RFI received 5 July 2024, HVO completed a detailed review of the Project and is subsequently seeking to amend the SSD applications in the following ways:

- Reduce the project mine plan to avoid coal extraction within gas Domain 1 at HVO North and reduce the total ROM coal to be extracted by the amended Project by approximately 220 Mt.
- Maintain the current approved maximum annual ROM coal production from HVO North of 22 Mtpa but reduce the proposed maximum annual production limit at HVO South from 18 Mtpa to 13 Mtpa.
- Propose a maximum annual production limit for the HVO Complex of 26 Mtpa ROM, compared to the current approved maximum annual production of 42 Mtpa.
- Reduce the proposed life of mining operations at HVO North by five years, from the end of 2050 to the end of 2045.
- Reduce the proposed life of mining operations at HVO South by three years from the end of 2045 to the end of 2042.
- Expansion of the HVO North ROM coal stockpile to improve coal management.

- Remove approval for the construction and operation of the LCPP and associated rail facilities, which is currently approved, but not constructed, under the HVO South Project Approval.
- Temporary transport of product coal by truck from the Howick CPP to the Liddell stockpile for transport to market via the Liddell coal handling and train loading facilities during upgrades of the Newdell LP.
- Establishment of a levee (Mitchell East Levee) to provide flood protection for the final void in Mitchell Pit.
- Minor alterations to disturbance boundaries to accommodate construction activities such as Lemington Road and electricity transmission lines.



Source: EMM (2025); ABS (2021); DCSSS (2024); GA (2009)

KEY

- Existing HVO North development consent boundary (DA 450-10-2003)
- Existing HVO South project approval boundary (PA 06_0261)

- Existing environment
- Rail line
- Major road
- Named watercourse
- Named waterbody
- NPWS reserve
- State forest
- Local government area

INSET KEY

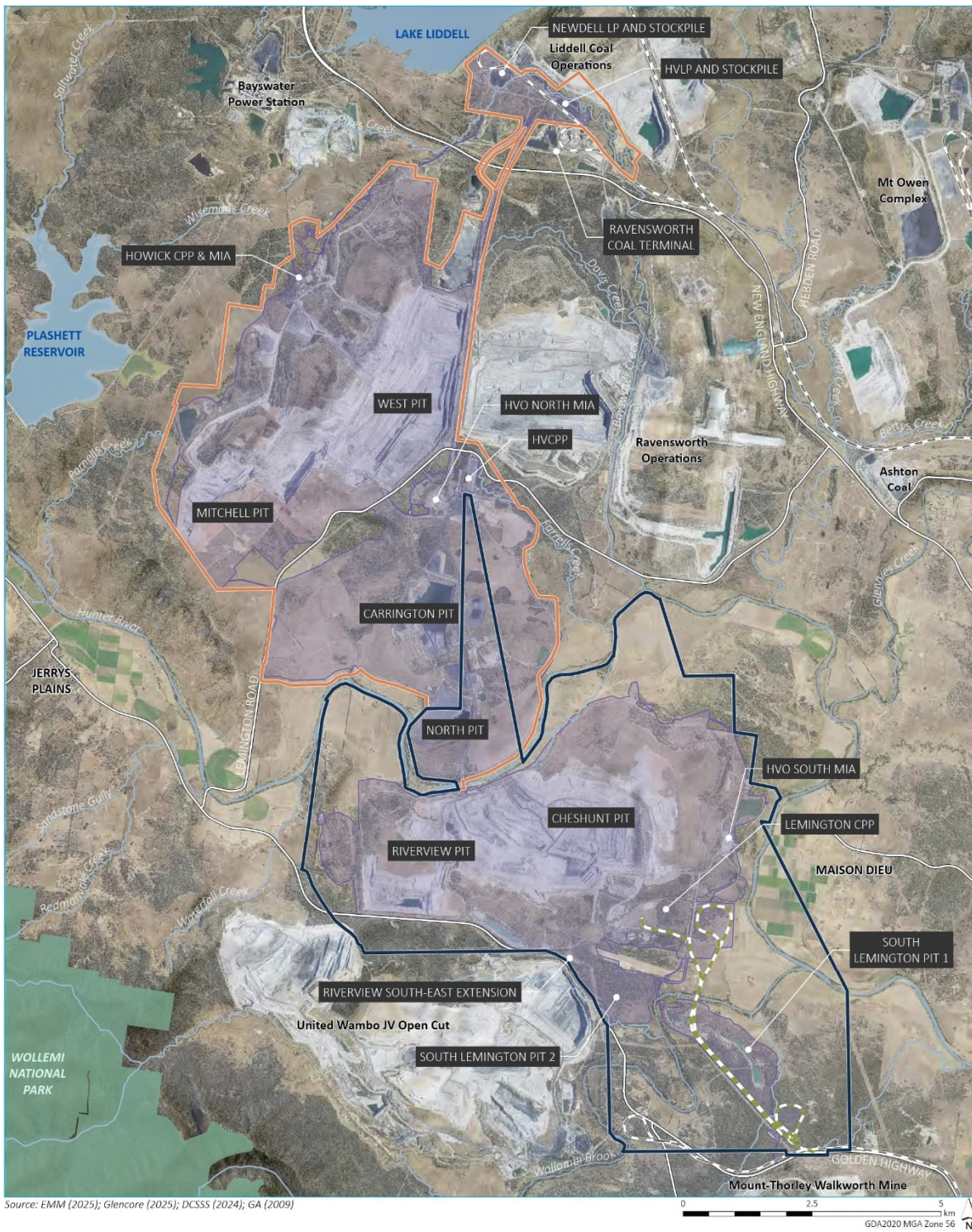
- NPWS reserve
- State forest

Regional locality

HVO Continuation Project
Amendment AQIA
Figure 1.1



Figure 1 Regional locality



Source: EMM (2025); Glencore (2025); DCSSS (2024); GA (2009)

KEY

- Existing HVO North development consent boundary (DA 450-10-2003)
- Existing HVO South project approval boundary (PA 06_0261)
- Existing and approved disturbance area
- South Lemington Rail Loop and haul route (approved, not yet constructed)

- Existing environment
- Rail line
- Major road
- Named watercourse
- Named waterbody
- NPWS reserve

Local context

HVO Continuation Project
Amendment AQIA
Figure 1.2



Figure 2 Local context

1.2 The Project

As noted in Section 1.1, the Project broadly comprises the continuation of mining at HVO North and HVO South, beyond the current approved mining completion dates of 2026 and 2030, respectively. The key components of the amended HVO North Continuation Project and HVO South Continuation Project are illustrated on Figure 3 and summarised in the sections below.

1.2.1 HVO North

The key Project elements at HVO North for which approval is sought include those activities required to carry out open cut coal mining and processing and include:

- changes to the HVO North development consent boundary
- continuation of mining operations at HVO North until 31 December 2045
- production of up to 22 Mtpa with no separation of extraction limits between West Pit and Carrington Pit
- infrastructure upgrades, as listed below:
 - realignment of Lemington Road and construction of a new bridge over the Hunter River
 - relocation of the HVO North site access road off the existing Lemington Road
 - increase in the capacity of Parnells Dam from approximately 1 gigalitre (GL) to approximately 4 GL
 - realignment of transmission and telecommunication lines that are currently within the proposed mining area
 - upgrades to the HVO North MIA
 - expansion of the HVO North ROM coal stockpile to improve coal management
 - maintenance and ancillary activities as required to facilitate operations, including the replacement of plant and equipment, where required
 - construction of access roads to facilitate service provider access
 - use of demountable/temporary buildings and other ancillary temporary facilities to enable construction activities and mining operations, as required
 - access road establishment to an existing mine-owned property east of realigned Lemington Road
- transport product coal by truck or overland conveyor from all CPPs to loading points (HVLP and Newdell LP)
- receipt of ROM coal from HVO South via internal haul roads for processing at all CPP facilities approved for HVO North
- management of tailings in accordance with a Tailings Management Strategy
- upgrade of product coal infrastructure as follows:
 - establishment of a new Newdell product stockpile and upgrade of the existing Newdell train loading facility or an extension of the product coal stockpile footprint at the HVLP to increase the total stockpile capacity of the load point
 - construction of a haul road to enable ROM coal to be transported to the neighbouring Ravensworth Operations ROM pad via haul truck for processing, from where product coal is then transferred to the Ravensworth Coal Terminal for transport to market.
 - ability to temporarily transport product coal by truck from the Howick CPP to the Liddell stockpile for transport to market via the Liddell coal handling and train loading facilities during upgrades of the Newdell LP
- implementation of a revised water management system including construction of levees, clean water diversions and the Carrington West Wing low permeability barrier wall
- establishment of a levee (Mitchell East Levee) to provide flood protection for the final void in Mitchell Pit
- continued employment of up to 1,500 full time equivalents (FTE) across the HVO complex.

Other than as modified above, all activities that are currently approved under the existing HVO North development consent are intended to continue. Key aspects and outcomes of the approved development at HVO North (under DA 450-10-2003 as modified) that will remain the same under the Project include the following:

- the maximum allowable annual ROM coal extraction and processing rate of 22 Mtpa
- receipt of ROM coal from HVO South via internal haul road for processing at all CPP facilities approved for HVO North
- approved heights of overburden emplacement areas
- continued avoidance of the Aboriginal heritage site known as Carrington Mine – Colluvial Deposit 1 (CM-CD1)
- operating hours, annual workforce numbers and associated operational traffic generation.

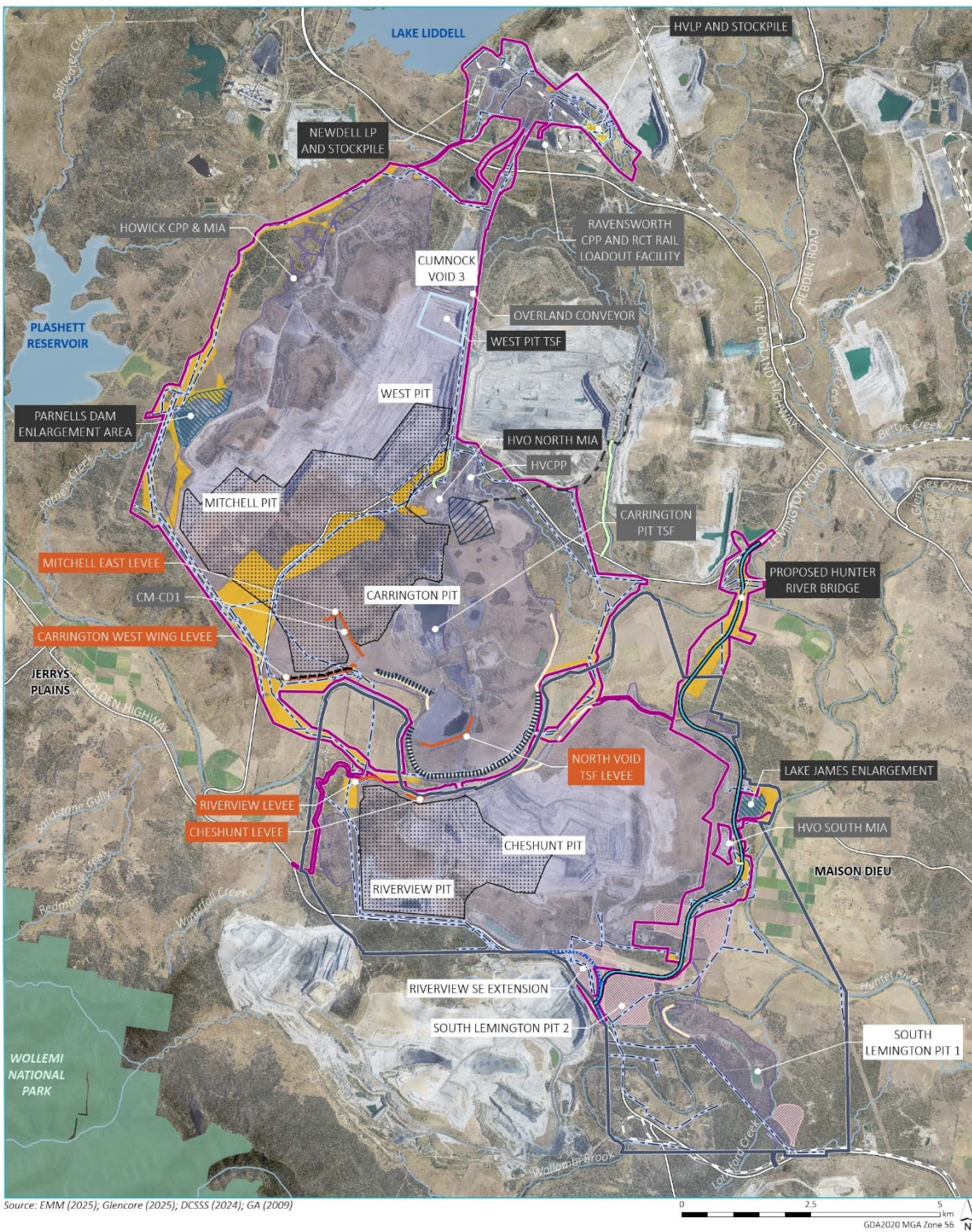
1.2.2 HVO South

The key Project elements at HVO South for which approval is sought include those activities required to carry out open cut coal mining and processing and include:

- changes to the HVO South development consent boundary
- continuation of mining operations at HVO South until 31 December 2042
- a reduction in the approved maximum extraction rate from 20 Mtpa to 13 Mtpa
- removal of coal extraction from the mine plan for the Riverview South East Extension (RSEE), and South Lemington Pit 1 and 2 (SLP 1 and 2)
- infrastructure upgrades including:
 - relocation of some 11 kilovolt (kV) and 66 kV Ausgrid transmission lines
 - realignment of internal transmission lines to support mining activities
 - HVO South access road relocation to join the realigned Lemington Road
 - access roads to facilitate service provider access
 - use of demountable/temporary buildings and other ancillary temporary facilities including laydown areas to enable construction activities and mining operations, as required.
 - removal of the approval for the construction and operation of the LCPP and rail facilities
 - removal of the construction and operation of the approved conveyor from HVO South to the HVCPP at HVO North (the conveyor has not been constructed).
- continuation of integrated water management with HVO North and water transfers with other mining operations (where permitted under the development consents that apply to those other mining operations)
- construction of the Cheshunt and Riverview flood protection levees
- enlargement of Lake James from approximately 0.7 GL to 1.9 GL
- continued employment of up to 1,500 FTE across the HVO complex.

Other than as modified above, all activities that are currently approved under the existing HVO South development consent are intended to continue. Key aspects of the currently approved development at HVO South (under PA 06_0261 as modified) that will remain the same for the Project include:

- no change to the receipt of HVO South coal at all CPPs approved for HVO North via internal haul road for processing
- no change to operating hours
- no change in annual workforce numbers or associated operational traffic generation
- no increase to approved heights of overburden emplacement areas.



Source: EMM (2025); Glencore (2025); DCSSS (2024); GA (2009)

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| <p>KEY</p> <ul style="list-style-type: none"> Amended proposed HVO North development consent boundary Proposed HVO South development consent boundary Existing and approved disturbance area Additional disturbance area Previous approved area not retained Existing low permeability barrier wall Existing levee Proposed HVO continuation project element Approved barrier wall (not yet constructed) Alternative Golden Highway alignment Lemington Road realignment Levee Mine access road Proposed haul route to Ravensworth Operations Transmission line Dam enlargement Mining area Product stockpile ROM coal stockpile enlargement area West Pit TSF | <ul style="list-style-type: none"> Existing environment Rail line Major road Named watercourse Named waterbody NPWS reserve <p>Label format</p> <ul style="list-style-type: none"> Existing item Levee Project related item |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Proposed conceptual layout

HVO Continuation Project
Amendment AQIA
Figure 1.3



Figure 3 Proposed conceptual layout

1.2.3 Purpose

This air quality impact assessment (AQIA) has been prepared by Airen Consulting to assess the impact of the amended Project on air quality. The potential air quality impacts of the original HVO Continuation Project were assessed by Jacobs (2022). This subsequent assessment of the amended Project has adopted a similar assessment approach but supplemented with more recent information on the existing environment.

1.3 Report Structure

The report is structured as follows:

- Section 1 provides a summary of the amended Project.
- Section 2 identifies the key air quality issues to be addressed.
- Section 3 outlines the relevant air quality assessment criteria.
- Section 4 discusses key features of the existing environment.
- Section 5 provides an overview of the methods used to assess the potential for air quality impacts.
- Section 6 provides an assessment of the potential air quality impacts.
- Section 7 outlines the measures to mitigate or otherwise effectively manage potential impacts.
- Section 8 provides the conclusions of the assessment.

2 Key Issues

Air quality issues can arise when emissions from an industry or activity lead to a deterioration in the ambient air quality. Potential air quality issues have been identified from a review of the amended Project and associated activities. This identification process has considered the types of emissions to air and proximity of these emission sources to sensitive receptors.

Emissions from HVO (both as approved and as proposed for the amended Project) will occur from a variety of activities including material handling, material transport, processing, wind erosion, blasting and potentially, from the spontaneous combustion of coal. These emissions will mainly comprise of particulate matter in the form of total suspended particulates (TSP), particulate matter with equivalent aerodynamic diameter of 10 microns or less (PM₁₀) and particulate matter with equivalent aerodynamic diameter of 2.5 microns or less (PM_{2.5}). There would also be relatively minor emissions from machinery exhausts such as carbon monoxide (CO), oxides of nitrogen (NO_x) and particulate matter. Spontaneous combustion of coal has historically not been an issue at HVO.

The amended Project will not introduce any new activity that changes the nature of air quality issues at HVO from those identified for the Project as proposed in the EIS (as per EMM, 2022a and Jacobs, 2022).

The key issues have been identified, and will remain, as:

- Mining dust (i.e. particulate matter in the form of TSP, PM₁₀, PM_{2.5} and deposited dust)
- Post-blast fume (as nitrogen dioxide [NO₂])
- Products of combustion (primarily NO_x, PM₁₀ and PM_{2.5}) from diesel equipment exhausts.

These issues are the focus of the assessment.

3 Air Quality Criteria

Air quality is typically quantified by the concentrations of substances in the ambient air. Air pollution occurs when the concentration (or some other measure of intensity) of one or more substances known to cause health, nuisance and/or environmental effects, exceeds a certain level. Regarding human health and nuisance effects, the substances most relevant to HVO have been identified (from Section 2) as particulate matter in the form of TSP, PM₁₀, PM_{2.5} and deposited dust and NO₂.

The existing development consents for HVO North (DA 450-10-2003) and HVO South (PA 06_0261) require HVO to “ensure that all reasonable and feasible mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances” of criteria for PM₁₀, PM_{2.5}, TSP and deposited dust. Table 1 shows the existing development consent criteria. The existing Environment Protection Licence (EPL 640) for HVO does not include specific air quality limits but includes requirements to minimise dust emissions and to monitor air quality.

Table 1 Air quality criteria from DA-450-10-2003 and PA 06_0261

| Air quality indicator | Averaging time | ^d Air quality criteria from DA 450-10-2003 (HVO North) | Air quality criteria from PA 06_0261 (HVO South) |
|-----------------------------------------|---------------------------|---------------------------------------------------------------------------|--------------------------------------------------|
| Particulate matter (PM ₁₀) | 24-hour | ^b 50 micrograms per cubic metre (µg/m ³) | ^b 50 µg/m ³ |
| | Annual | ^a 30 µg/m ³ | ^{a,d} 25 µg/m ³ |
| Particulate matter (PM _{2.5}) | 24-hour | Nil | ^b 25 µg/m ³ |
| | Annual | Nil | ^{a,d} 8 µg/m ³ |
| Particulate matter (TSP) | Annual | ^a 90 µg/m ³ | ^{a,d} 90 µg/m ³ |
| Deposited dust ^c | Annual (maximum increase) | ^b 2 grams per square metre per month (g/m ² /month) | Nil |
| | Annual (maximum total) | ^a 4 g/m ² /month | Nil |

^a Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources).

^b Incremental impact (i.e. incremental increase in concentrations due to the development on its own).

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

^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agreed to by the Secretary.

The NSW Environment Protection Authority (EPA) has developed assessment criteria for a range of air quality indicators including particulate matter and NO₂. These criteria are outlined in the “Approved Methods for the Modelling and Assessment of Air Pollutants in NSW” (EPA, 2022), hereafter referred to as the Approved Methods. Most of the EPA criteria referred to in this report have been drawn from national standards for air quality set by the National Environmental Protection Council of Australia (NEPC) as part of the National Environment Protection Measures (NEPMs) (NEPC, 1998 and updates to 2021).

The amended Project has been assessed in terms of its ability to comply with the relevant air quality criteria set by the EPA as part of the Approved Methods. These criteria are outlined in Table 2 and apply to existing and potentially sensitive receptors, where the Approved Methods defines a sensitive receptor as including “a location where people are likely to work or reside; this may include a dwelling, school, hospital, office or public recreational area”.

Table 2 EPA air quality assessment criteria

| Air quality indicator | Averaging time | Criterion | Application |
|-----------------------------------------|---------------------------|---------------------------|-------------------------------------|
| Particulate matter (PM ₁₀) | 24-hour | 50 µg/m ³ | Cumulative, at sensitive receptors |
| | Annual | 25 µg/m ³ | Cumulative, at sensitive receptors |
| Particulate matter (PM _{2.5}) | 24-hour | 25 µg/m ³ | Cumulative, at sensitive receptors |
| | Annual | 8 µg/m ³ | Cumulative, at sensitive receptors |
| Particulate matter (TSP) | Annual | 90 µg/m ³ | Cumulative, at sensitive receptors |
| Deposited dust | Annual (maximum increase) | 2 g/m ² /month | Incremental, at sensitive receptors |
| | Annual (maximum total) | 4 g/m ² /month | Cumulative, at sensitive receptors |
| Nitrogen dioxide (NO ₂) | 1-hour | 164 µg/m ³ | Cumulative, at sensitive receptors |
| | Annual | 31 µg/m ³ | Cumulative, at sensitive receptors |

Source: EPA, 2022.

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

The NSW Voluntary Land Acquisition and Mitigation Policy (VLAMP) (NSW Government, 2018) includes the NSW Government’s policy for voluntary mitigation and land acquisition to address dust (particulate matter) impacts from State significant mining, petroleum and extractive industry developments. The VLAMP brings the air quality criteria in line with the NEPM standards and EPA assessment criteria.

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

Table 3 VLAMP mitigation criteria for particulate matter

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

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

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

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

Table 4 VLAMP acquisition criteria for particulate matter

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

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

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

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

4 Existing Environment

The local setting, meteorological and air quality conditions of the Hunter Valley were comprehensively reviewed by Jacobs (2022). In summary, the existing environment can be described as follows:

- The most common winds are from the northwest in the cooler months and from the southeast in the warmer months. These patterns do not vary significantly from year to year.
- Air quality conditions are strongly correlated to the climatic conditions. For example, there was a deterioration in air quality conditions between 2017 and 2019 that was heavily influenced by drought, dust storms and bushfires. These conditions were not unique to the Hunter Valley.

Jacobs (2022) considered at least eight years of meteorological and air quality monitoring data (from 2013 to 2020). A review and consideration of more recent data has been carried out for the assessment of the amended Project. Relevant data up to 2024 are described below.

4.1 Rainfall

Rainfall can influence air quality conditions, particularly dust. The Bureau of Meteorology (BoM) collects rainfall information at many locations across Australia and data from two nearby monitoring locations are shown in Figure 4. Rainfall was well below the long-term average of 695 millimetres (mm) in 2017, 2018 and 2019, coinciding with drought, but exceeded the long-term average in 2020, 2021 and 2022. Rainfall was near the long-term average in 2024.

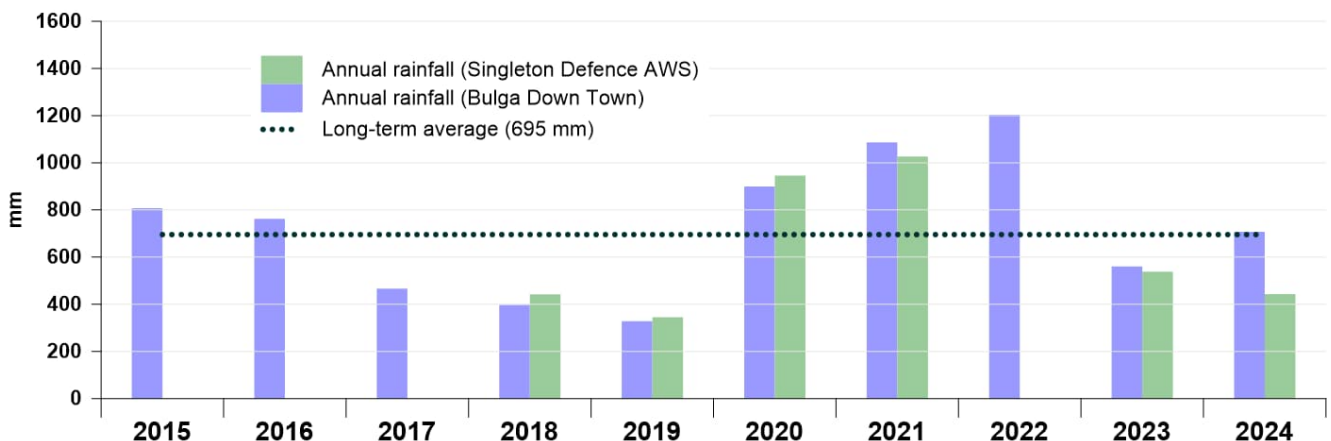


Figure 4 Annual rainfall

4.2 Meteorology

Meteorological conditions are important for determining the transport of emissions, and the potential influences on air quality. The EPA prescribes the minimum requirements for meteorological data that are to be used for air quality assessments. These requirements are outlined in the Approved Methods and include minimum data capture rates, siting and operation, and data preparation. Meteorological stations that are used for the purposes of air quality assessments can be classified (EPA, 2022) as either “site specific” or “site representative”. Data from site-specific meteorological stations are preferred however site representative data are also acceptable where site-specific meteorological data are not available provided that the data adequately describe the expected meteorological conditions at the site of interest. Air quality assessments that involve modelling are usually carried out using at least one year of site-specific or site-representative meteorological data that is 90% or more complete.

HVO operates two meteorological stations, referred to as “Cheshunt” and “Corporate”. Wind-roses have been prepared from the data collected in 2024 (Figure 5 and Figure 6). The wind-roses show the frequency of wind speeds and wind directions based on hourly records. The circular format of the wind rose shows the direction from which the wind blew and the length of each “spoke” around the circle shows how often the wind blew from that direction. The different colours of each spoke provide details on the speed of the wind from each direction.

Figure 5 and Figure 6 show that winds in 2024 were from the west-northwest or southeast, depending on the season. This pattern of winds is common for many parts of the Hunter Valley and reflects the northwest-southeast alignment of the valley. Wind patterns in 2024 were also similar to the patterns presented by Jacobs (2022) from data collected between 2013 and 2020.

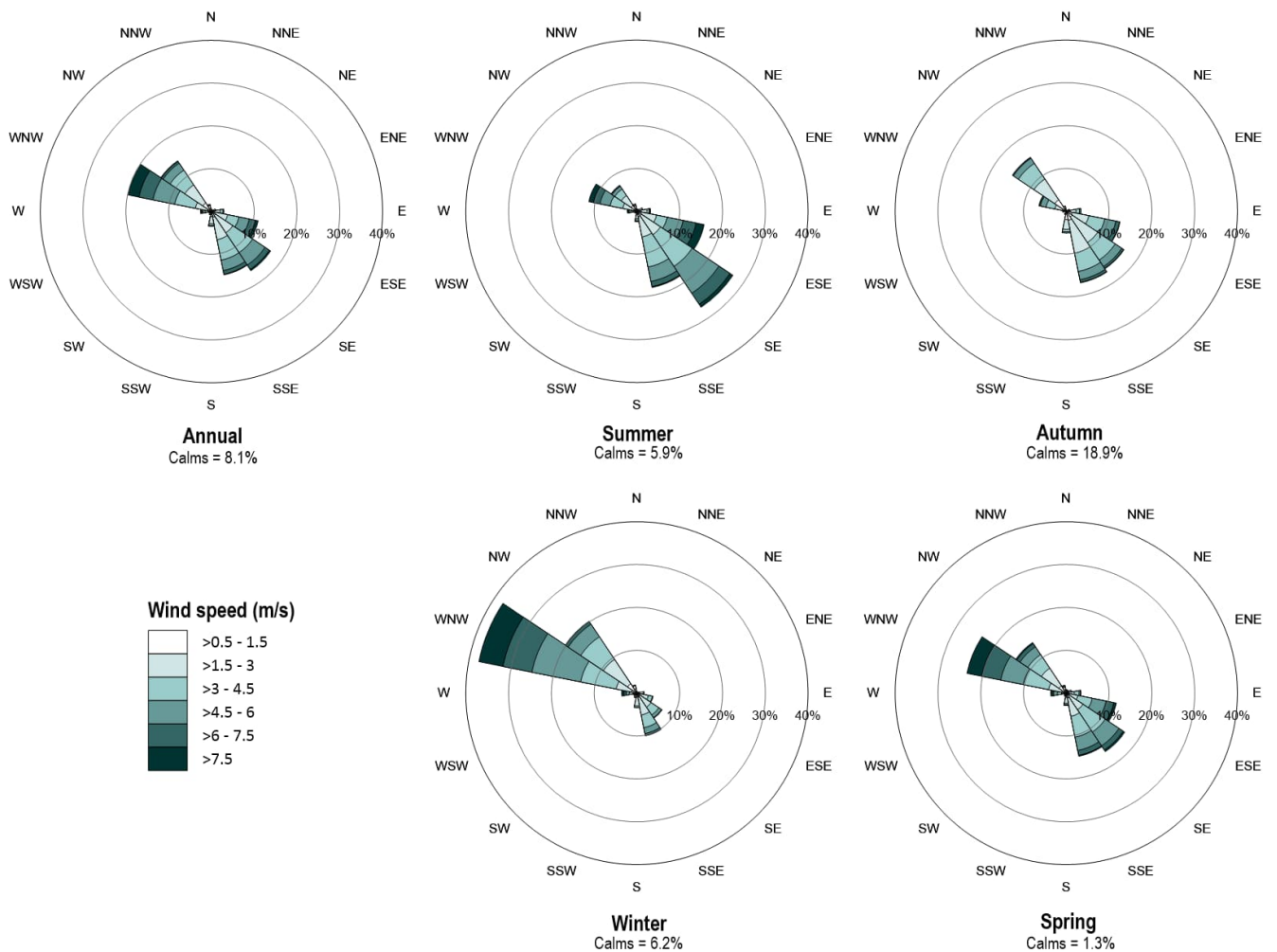


Figure 5 Annual and seasonal wind-roses from data collected at Cheshunt in 2024

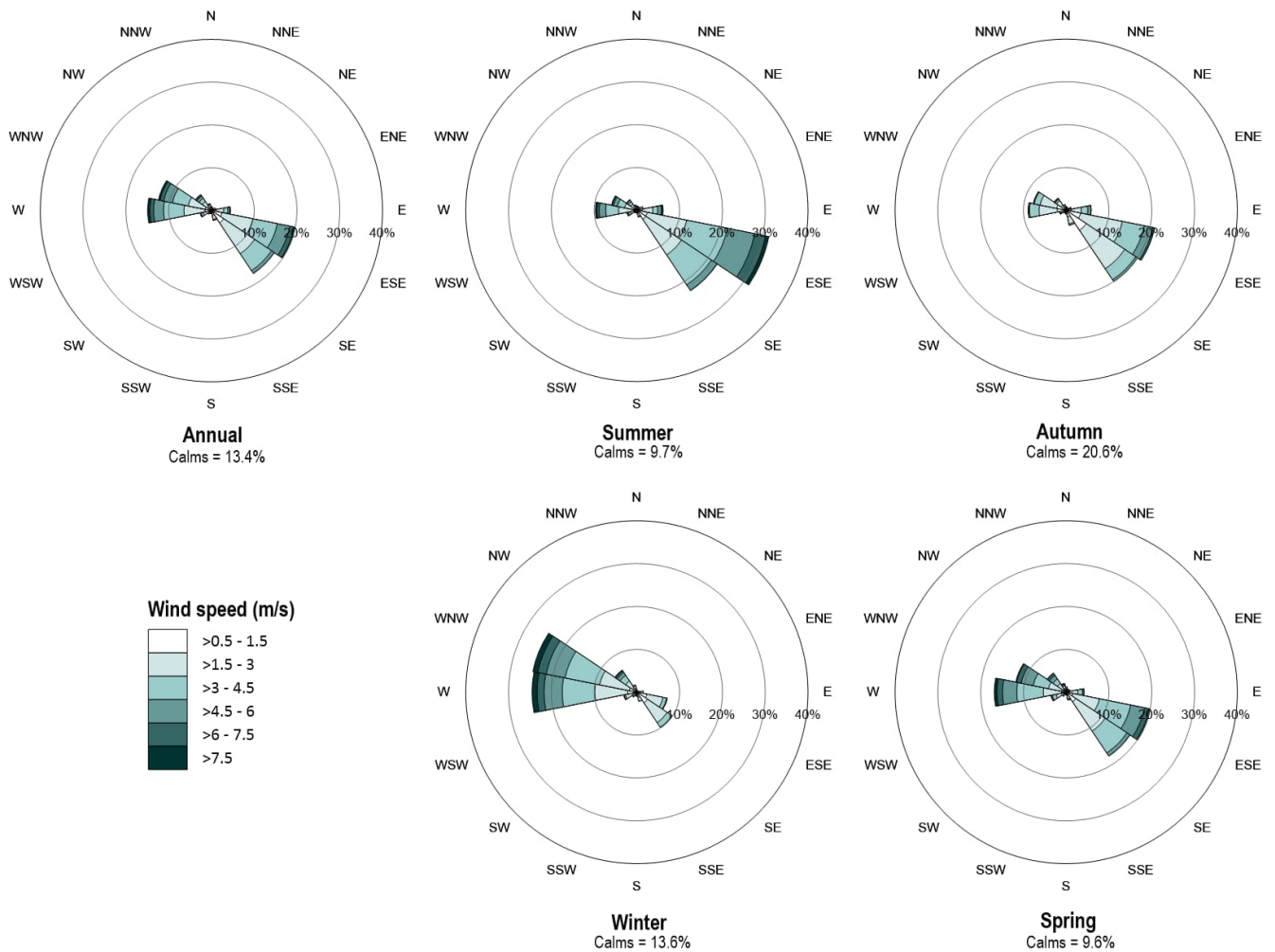


Figure 6 Annual and seasonal wind-roses from data collected at Corporate in 2024

Table 5 provides annual statistics from the HVO wind speed data. These statistics are within the ranges presented by Jacobs (2022).

Table 5 Wind speed statistics from data collected at HVO meteorological stations in 2024

| Statistic | Cheshunt | Corporate |
|--------------------------------------|----------|-----------|
| Percentage complete (%) | 100 | 99 |
| Mean wind speed (m/s) | 3.5 | 2.6 |
| Percentage of calms (<= 0.5 m/s) (%) | 8.1 | 13 |

Meteorological data from the 2024 calendar year have been used to inform the modelling of the amended Project. The data from 2024 meet the requirements of the Approved Methods in terms of minimum data capture rates, siting and operation, and data preparation. These data are “site-specific” and exhibit the same patterns as historical data. Annexure A provides details of the meteorological modelling to simulate conditions across HVO and surrounds.

4.3 Air Quality

There is an extensive air quality monitoring network in the Hunter Valley and most mining companies are required to operate multiple monitoring stations as part of their development consents. The DPHI also conducts monitoring as part of their Upper Hunter Air Quality Monitoring Network. Jacobs (2022) analysed at least eight years of air quality monitoring data (from 2013 to 2020). Data up to the end of 2024 have now been considered and are described below, where relevant.

Figure 7 shows the rolling annual average PM₁₀ concentrations from data collected at various DPHI air quality monitoring sites since 2011. These data clearly show an increase in PM₁₀ concentrations at rural and urban locations from 2017 onwards, reflecting the onset

of drought conditions, and increased bushfire activity in 2019. A deterioration in air quality conditions over these years was not unique to the Hunter Valley. The rolling annual average PM₁₀ concentrations decreased rapidly from 2020 to 2022, as rainfall increased, and have returned to more typical levels in 2024. The use of years with elevated air quality levels, largely driven by extraordinary events or extreme climatic conditions (or both) are avoided in modelling studies primarily because they do not address the definition of representative. In addition, extraordinary events cannot be reliably simulated in air dispersion models as it is not possible to identify all possible factors that led to these events, for example, the factors that influence the time, location, and intensity of bushfires.

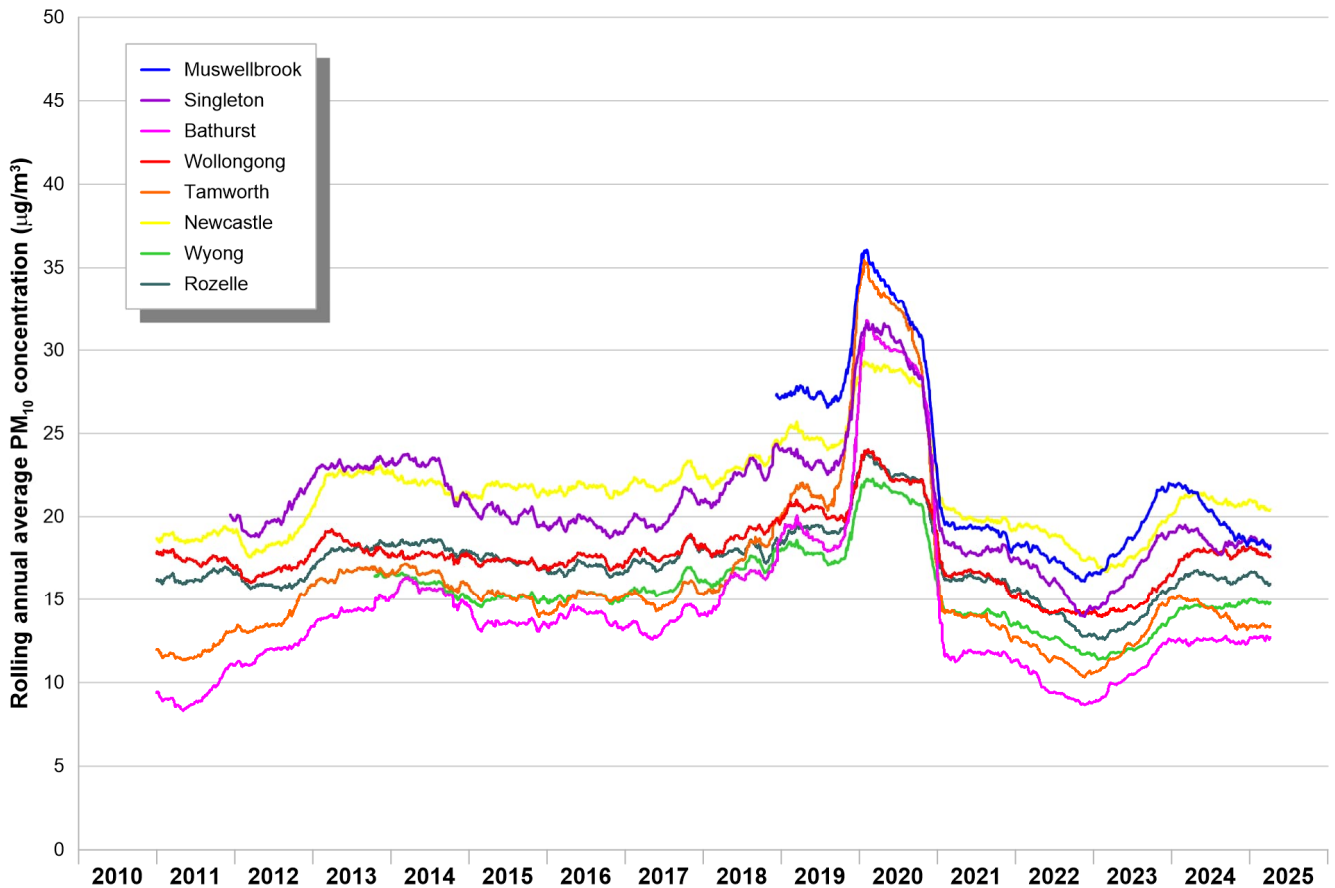


Figure 7 Rolling annual average PM₁₀ concentrations at various NSW air quality monitoring sites

Table 6 summarises the measured PM₁₀ concentrations in 2024, from relevant DPHI monitoring locations. These data exhibit similar statistics to the long-term records presented by Jacobs (2022).

Table 6 Summary of measured PM₁₀ concentrations in 2024

| Statistic | Camberwell | Jerrys Plains | Maison Dieu | Warkworth | EPA criterion |
|--------------------------------------------------|------------|---------------|-------------|-----------|---------------|
| Maximum 24-hour average (µg/m ³) | 166.0 | 57.9 | 59.4 | 82.4 | 50 |
| Number of days above 50 µg/m ³ (days) | 6 | 3 | 4 | 27 | - |
| Annual average (µg/m ³) | 19.4 | 18.7 | 18.4 | 28.3 | 25 |

Table 7 summarises the measured PM_{2.5} concentrations in 2024, from relevant monitoring locations. These data exhibit similar statistics to the long-term records presented by Jacobs (2022).

Table 7 Summary of measured PM_{2.5} concentrations in 2024

| Statistic | Camberwell | Singleton | Thelander | Kelly | EPA criterion |
|--------------------------------------------------|------------|-----------|-----------|-------|---------------|
| Maximum 24-hour average (µg/m ³) | 17.2 | 21.0 | 16.1 | 26.8 | 25 |
| Number of days above 25 µg/m ³ (days) | 0 | 0 | 0 | 2 | - |
| Annual average (µg/m ³) | 5.9 | 7.4 | 5.4 | 7.3 | 8 |

Table 8 summarises the measured TSP concentrations in 2024, from relevant monitoring locations. These data exhibit similar statistics to the long-term records presented by Jacobs (2022), with the exception of Warkworth which experienced levels higher than other locations.

Table 8 Summary of measured TSP concentrations in 2024

| Statistic | Kilburnie South | Maison Dieu | Warkworth | Knodlers Lane | Long Point | EPA criterion |
|---------------------------------------------|-----------------|-------------|-----------|---------------|------------|---------------|
| Annual average ($\mu\text{g}/\text{m}^3$) | 55 | 50 | 138 | 79 | 47 | 90 |

Table 9 shows the measured deposited dust levels in 2024, from relevant monitoring locations. These data exhibit similar statistics to the long-term records presented by Jacobs (2022), with the exception of Warkworth which experienced levels higher than other locations.

Table 9 Summary of measured deposited dust in 2024

| Statistic | D118 | D119 | D122 | DL14 | DL21 | DL22 | DL30 | Knodlers Lane | Warkworth | EPA criterion |
|-------------------------------------------------------|------|------|------|------|------|------|------|---------------|-----------|---------------|
| Annual average ($\text{g}/\text{m}^2/\text{month}$) | 1.5 | 1.0 | 1.0 | 1.2 | 1.3 | 2.0 | 4.3 | 1.5 | 8.3 | 4 |

Table 10 shows the measured NO_2 concentrations from Singleton in 2024. These data show that the maximum NO_2 concentrations have not exceeded the EPA's 1-hour average criterion of $164 \mu\text{g}/\text{m}^3$, which came into effect in 2022. Annual averages have not exceeded the EPA's annual average criterion of $31 \mu\text{g}/\text{m}^3$. The same conclusions were derived by Jacobs (2022), based on long-term records.

Table 10 Summary of measured NO_2 concentrations in 2024

| Statistic | Singleton | EPA criterion |
|-----------------------------------------------------|-----------|---------------|
| Maximum 1-hour average ($\mu\text{g}/\text{m}^3$) | 66 | 164 |
| Annual average ($\mu\text{g}/\text{m}^3$) | 13 | 31 |

One of the objectives for reviewing the air quality monitoring data was to determine appropriate background levels to be added to modelled source contributions for the assessment of potential cumulative impacts. Table 11 shows the assumed background levels that would apply at sensitive receptors. Ambient air quality data from the 2024 calendar year have been used to inform the modelling of the amended Project, consistent with the meteorological data year. The 2024 data provide for a more contemporary representation of industry and operations in the Hunter Valley, compared to the 2014 data used in the EIS, and meet all necessary EPA criteria for establishing background levels.

Table 11 Assumed background levels that apply at sensitive receptors

| Air quality indicator | Averaging time | Assumed background level | Notes |
|------------------------------------------|----------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Particulate matter (PM_{10}) | 24-hour | Up to $40 \mu\text{g}/\text{m}^3$ | Daily variable background concentrations. Derived from the measured PM_{10} concentrations (Table 6) less the modelled contribution from mining operations in 2024. Figure 8 shows the derived background PM_{10} . |
| | Annual | $10 \mu\text{g}/\text{m}^3$ | Derived from the daily variable background PM_{10} concentrations described above. |
| Particulate matter ($\text{PM}_{2.5}$) | 24-hour | Up to $15 \mu\text{g}/\text{m}^3$ | Daily variable background concentrations. Derived from the measured $\text{PM}_{2.5}$ concentrations (Table 7) less the modelled contribution from mining operations in 2024. Figure 8 shows the derived background PM_{10} . |
| | Annual | $5 \mu\text{g}/\text{m}^3$ | Derived from the daily variable background $\text{PM}_{2.5}$ concentrations described above. |
| Particulate matter (TSP) | Annual | $55 \mu\text{g}/\text{m}^3$ | Annual average TSP from all monitoring sites in 2024. |
| Deposited dust | Annual | $2.5 \text{g}/\text{m}^2/\text{month}$ | Annual average deposited dust from all monitoring sites in 2024. |
| Nitrogen oxides (NO_x) | 1-hour | Up to $305 \mu\text{g}/\text{m}^3$ | Hourly variable NO_x from Singleton in 2024. |
| | Annual | $22 \mu\text{g}/\text{m}^3$ | Annual average NO_x from Singleton in 2024. |

As noted in Table 11 above, daily variable background PM_{10} and $\text{PM}_{2.5}$ concentration datasets were derived from the 2024 monitoring data. Figure 8 shows a graphical representation of the assumed background PM_{10} and $\text{PM}_{2.5}$ concentrations that were used in this assessment and added to the model results. This represents a contemporaneous assessment approach as per the Approved Methods and aims to remove the potential for double counting of modelled emission sources for future operational scenarios.

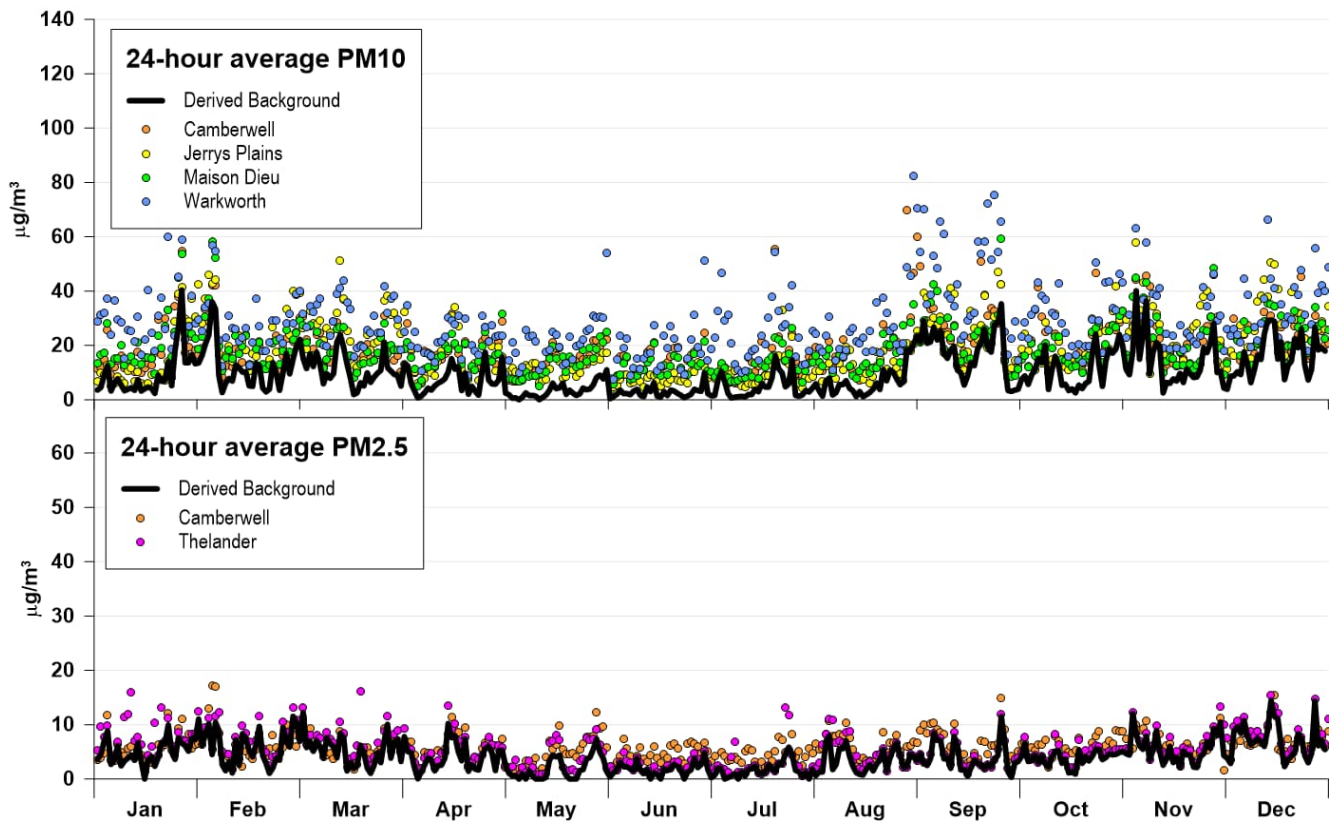


Figure 8 Assumed background PM₁₀ and PM_{2.5} concentrations

5 Assessment Methodology

This assessment has followed the procedures outlined in the Approved Methods (EPA, 2022). The Approved Methods include guidelines for the preparation of meteorological data, reporting requirements and air quality assessment criteria to assess the significance of expected impacts. Specific methodologies for each of the identified key issues (from Section 2) are described below.

5.1 Mining Dust

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

Figure 9 shows an overview of the model inputs and outputs. Annexure A provides details of all model settings.

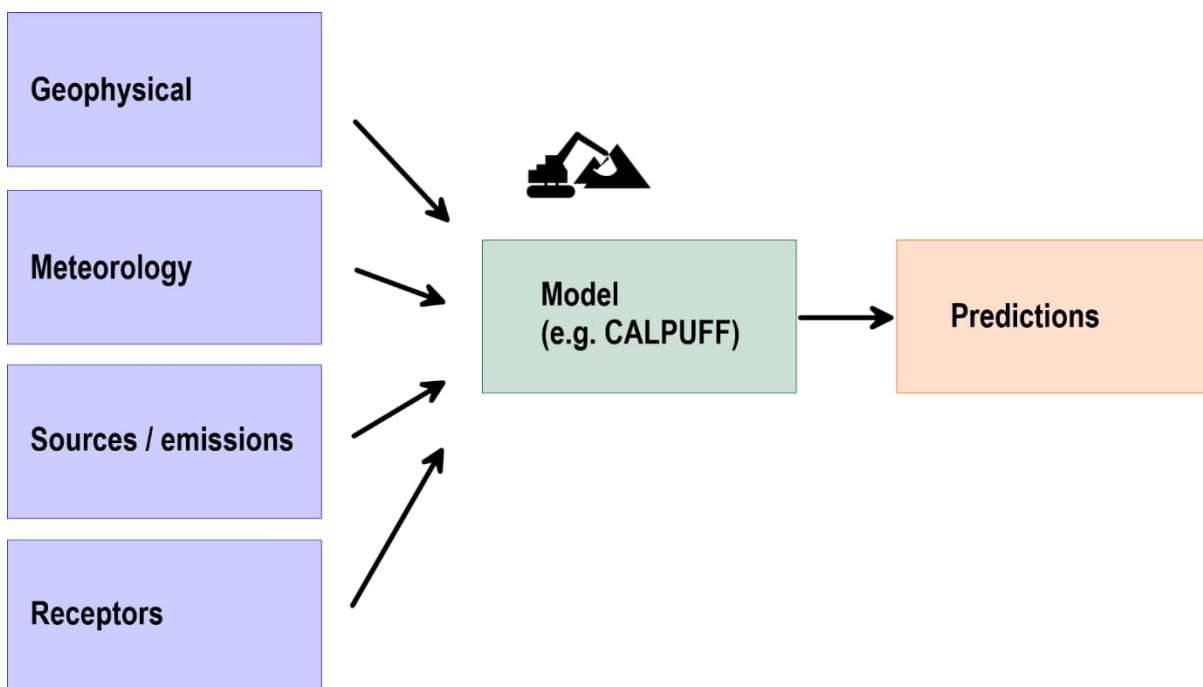


Figure 9 Overview of model inputs and outputs

Dust (particulate matter) is the most significant emission to air from the operations and estimates of these emissions are required by the dispersion model. Total dust emissions have been estimated for the proposed operations using the material handling schedule, equipment listing, and site layout plans combined with emission factors from:

- “Emission Estimation Technique Manual for Mining” (NPI, 2012); and
- “Compilation of Air Pollutant Emission Factors” (AP 42) (US EPA, 1985 and updates).

The HVO production schedule and equipment usage forecasts have been used to identify a range of future operational years to be assessed. Figure 10 shows the estimated ROM coal and overburden movements at HVO over the life of the amended Project. There are no specific guidelines or procedures which define an adequate level of information to demonstrate that selected scenarios are representative of worst-case impacts. The worst-case for one location may be different to the worst-case for another location so it is important to consider scenarios of mining at various locations and intensities as well as potential for cumulative effects with other existing or approved operations.

Three future operational scenarios have been selected: Year 3 (2029), Year 8 (2034) and Year 15 (2041). These three scenarios address the periods of anticipated maximum material handling quantities, maximum haul distances, and varying proximities to local

communities. Figure 10 shows that the total material moved in each year of the amended Project is significantly (approximately 23%) lower than the estimates for the original Project as presented in Jacobs (2022) (depicted as “material movements assessed in the EIS”).

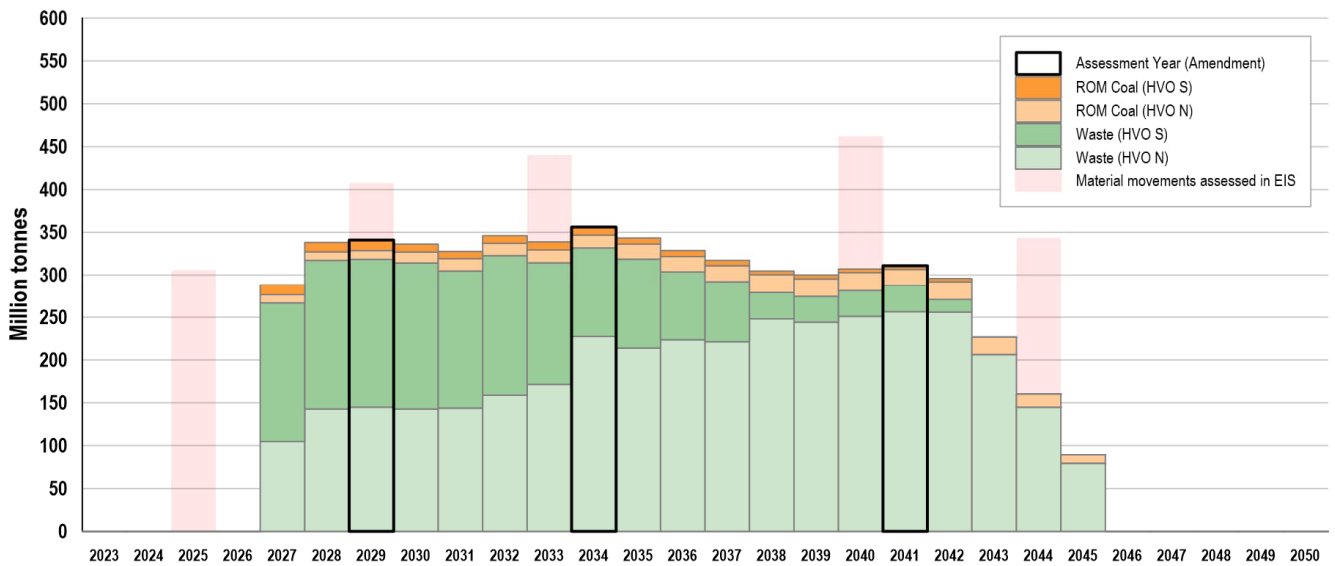


Figure 10 Estimated ROM coal and overburden movements from HVO with the amended Project

A scenario for a historical, representative year (2024) was also developed to determine existing contributions to air quality and for establishing background levels in the absence of modelled sources.

The modelling has considered contributions from the amended Project as well as from existing, surrounding mining operations, and in the case of future operating scenarios, approved mining operations. Table 12 shows the assumed ROM coal production data from each operation in the model domain. The data for 2024 were derived from the Annual Review produced by each mining operation and available on their respective websites. The Annual Reviews also included overburden handling quantities and plans showing the mining locations which are important for determining site dust emissions.

Production data and location of mining operations for future mining scenarios have been sourced from publicly available materials including relevant assessment documents (i.e. Environmental Assessments, EISs etc.) for the existing and approved operations. These have been included in the model for future mining scenarios reflective of their current approved life and maximum approved production limit in accordance with the development consent in place at the time of completing this assessment. Estimated production quantities for the amended Project were provided by HVO.

Table 12 Assumed ROM coal production from each mining operation in the model domain

| Operation | ROM coal production (Mtpa) Future calendar years are indicative | | | |
|--------------------------------------------|-----------------------------------------------------------------|---------------|---------------|----------------|
| | 2024 | Year 3 (2029) | Year 8 (2034) | Year 15 (2041) |
| Ashton Coal Underground (DA 309-11-2001-i) | 2.64 | 8.6 | 8.6 | - |
| HVO North | 8.48 | 10.2 | 15.0 | 19.2 |
| HVO South | 6.35 | 12.3 | 9.4 | 4.3 |
| Mt Owen Mine (SSD-5850) | 9.16 | 10 | 10 | - |
| Mt Thorley Mine (SSD 6465) | 0.07 | 10 | 10 | - |
| Ravensworth Mine (09_0176) | 13.2 | 16 | 16 | - |
| Rixs Creek North Mine (MP 08_0102) | 1.24 | 6 | 6 | - |
| Rixs Creek South Mine (SSD 6300) | 2.93 | 3.6 | 3.6 | - |
| United Wambo Mine (SSD-7142) | 9.00 | 10 | 10 | 10 |
| Wambo Mine (DA 305-7-2003 & DA 177-8-2004) | 1.8 | 9.75 | 9.75 | 9.75 |
| Warkworth Mine (SSD 6464) | 16.66 | 18 | 18 | - |

Table 13, Table 14 and Table 15 summarise the estimated annual TSP, PM₁₀ and PM_{2.5} emissions, respectively, due to HVO (with the amended Project) as well as all other operating, or assumed to be operating, mines in the model domain. It should be noted that the main intent of the inventories was to capture the most significant emission sources that may affect off-site air quality. Not every source will be captured. However, the contribution of emissions from sources not identified will be captured in the air quality monitoring data and these data have been added to the predicted amended Project contributions. Full details on the emission calculations, including assumptions, emission controls and allocation of emissions to modelled locations are provided in Annexure B.

Table 13 Estimated TSP emissions from modelled mining operations

| Operation | Annual emissions (kilograms per year (kg/y)) | | | |
|--------------------------------------------|----------------------------------------------|---------------|---------------|----------------|
| | 2024 | Year 3 (2029) | Year 8 (2034) | Year 15 (2041) |
| Ashton Coal Underground (DA 309-11-2001-i) | 114,877 | 114,877 | 114,877 | - |
| HVO North | 6,921,428 | 7,989,043 | 11,186,388 | 11,728,154 |
| HVO South | 4,830,108 | 8,301,517 | 5,662,533 | 2,717,808 |
| Mt Owen Mine (SSD-5850) | 4,515,950 | 4,790,830 | 4,790,830 | - |
| Mt Thorley-Warkworth | 6,612,392 | 6,897,991 | 6,897,991 | - |
| Ravensworth Mine (09_0176) | 5,765,210 | 6,364,414 | 6,364,414 | - |
| Rixs Creek North Mine (MP 08_0102) | 1,526,637 | 2,163,648 | 2,163,648 | - |
| Rixs Creek South Mine (SSD 6300) | 2,072,123 | 2,201,304 | 2,201,304 | - |
| United Wambo Mine (SSD-7142) | 3,940,601 | 3,907,400 | 3,907,400 | 3,907,400 |

Table 14 Estimated PM₁₀ emissions from modelled mining operations

| Operation | Annual emissions (kg/y) | | | |
|--------------------------------------------|-------------------------|---------------|---------------|----------------|
| | 2024 | Year 3 (2029) | Year 8 (2034) | Year 15 (2041) |
| Ashton Coal Underground (DA 309-11-2001-i) | 37,954 | 37,954 | 37,954 | - |
| HVO North | 2,219,447 | 2,627,951 | 3,573,469 | 3,705,338 |
| HVO South | 1,586,257 | 2,748,459 | 1,909,778 | 1,012,668 |
| Mt Owen Mine (SSD-5850) | 1,403,523 | 1,483,484 | 1,483,484 | - |
| Mt Thorley-Warkworth | 2,163,524 | 2,246,555 | 2,246,555 | - |
| Ravensworth Mine (09_0176) | 1,862,530 | 2,036,000 | 2,036,000 | - |
| Rixs Creek North Mine (MP 08_0102) | 510,687 | 688,684 | 688,684 | - |
| Rixs Creek South Mine (SSD 6300) | 637,063 | 673,367 | 673,367 | - |
| United Wambo Mine (SSD-7142) | 1,315,691 | 1,279,488 | 1,279,488 | 1,279,488 |

Table 15 Estimated PM_{2.5} emissions from modelled mining operations

| Operation | Annual emissions (kg/y) | | | |
|--------------------------------------------|-------------------------|---------------|---------------|----------------|
| | 2024 | Year 3 (2029) | Year 8 (2034) | Year 15 (2041) |
| Ashton Coal Underground (DA 309-11-2001-i) | 3,537 | 3,537 | 3,537 | - |
| HVO North (DA 450-10-2003) | 350,072 | 407,365 | 573,931 | 591,623 |
| HVO South (MP 06_0261) | 257,529 | 437,469 | 297,218 | 162,399 |
| Mt Owen Mine (SSD-5850) | 210,312 | 218,978 | 218,978 | - |
| Mt Thorley-Warkworth | 320,422 | 330,062 | 330,062 | - |
| Ravensworth Mine (09_0176) | 279,387 | 299,349 | 299,349 | - |
| Rixs Creek North Mine (MP 08_0102) | 89,325 | 110,843 | 110,843 | - |
| Rixs Creek South Mine (SSD 6300) | 113,113 | 117,227 | 117,227 | - |
| United Wambo Mine (SSD-7142) | 212,254 | 206,995 | 206,995 | 206,995 |

There will be operational controls in place at HVO (and other mining operations) which will also have a direct effect on emissions to air. Specifically, HVO is committed to the continued implementation of operational controls during adverse weather conditions to minimise air quality impacts, as per Section 6 of the approved Air Quality and Greenhouse Gas Management Plan (AQGGMP) (HVO, 2025). The operational controls will result in reduced levels of activity at HVO (and other mining operations) relative to the capacity considered as part of the current air quality modelling. In practice these operational controls, which will vary daily, will lead to lower emissions to air than for unconstrained activities. Consequently, the estimated emissions in Table 13, Table 14 and Table 15 should represent conservative estimates, as these further detailed operational controls are not included, and it follows that the predicted impacts of the amended Project will also be conservative. That is, the predicted impacts are likely to over-state actual impacts to some extent.

The mining operations were represented by a series of volume sources located according to the location of activities for each modelled scenario. Emissions from the dust generating activities were assigned to one or more of source location (refer to Annexure B for details of the allocations).

Dust emissions for all modelled mining sources have been considered to fit in one of three categories, as follows:

- Wind insensitive sources, where emissions are relatively insensitive to wind speed (for example, dozers).
- Wind sensitive sources, where emissions vary with the hourly wind speed, raised to the power of 1.3, a generic relationship published by the US EPA (1987). This relationship has been applied to sources such as loading and unloading of material to/from trucks and results in increased emissions with increased wind speed.
- Wind sensitive sources, where emissions also vary with the hourly wind speed, but raised to the power of 3, a generic relationship published by Skidmore (1998). This relationship has been applied to sources including wind erosion from stockpiles or emplacement areas, and results in increased emissions with increased wind speed.

Emissions from each volume source were developed on an hourly time step, considering the level of activity at that location and, in some cases, the hourly wind speed. This approach ensured that light winds corresponded with lower dust generation and higher winds, with higher dust generation.

Blasting activities and associated emissions were assumed to take place only during daylight hours (9 am to 5 pm for the purposes of the modelling) while all other activities have been modelled for 24 hours per day.

Pit retention (that is, retention of dust particles within the open pits) has been included in the model simulations. The pit retention calculation determines the fraction of dust emitted in the pit that may escape the pit. The "escaped fraction" is a function of the gravitational settling velocity of the particles and the wind speed and is shown by the following relationship (US EPA, 1995).

Equation 1:

$$\varepsilon = \frac{1}{\left(1 + \frac{v_g}{\alpha U_r}\right)}$$

where:

ε = escaped fraction for the particle size category

v_g = gravitational settling velocity (m/s)

U_r = approach wind speed at 10 m (m/s)

α = proportionality constant in the relationship between flux from the pit and the product of U_r and concentration in the pit (0.029)

To model the effect of pit retention, the emissions from mining sources within the open pits have been reduced by the calculation above. This approach means that much of the coarser dust would remain trapped in the pits. Typically, five per cent of the PM_{10} emissions are trapped in the pit using this calculation but application of Equation 1 means that emissions can be more dependent on the changing wind speeds.

Finally, the model results at identified sensitive receptors were then compared with the EPA air quality assessment criteria, previously discussed in Section 3. Contour plots have also been created to show the spatial distribution of model results. Section 6.1 provides the assessment of mining dust.

5.2 Post Blast Fume

Blasting activities have the potential to result in fume and particulate matter emissions. Particulate matter emissions from blasting are included in the mining dust modelling discussed in Section 5.1. Post-blast fume has also been quantified by modelling.

Post-blast fume can be produced in non-ideal explosive conditions of the ammonium nitrate/fuel oil (ANFO) and is visible as an orange / brown plume. The methodology for the operational post-blast fume modelling is outlined below:

- Blast modelled as a single volume source in a location indicative of the centre of HVO North and HVO South.
- Release height of 20 metres (m), effective plume height of 40 m, initial horizontal spread (sigma y) of 40 m and initial vertical spread (sigma z) of 10 m.
- Emissions assumed to occur every hour between 9 am and 5 pm, and on any day of the week.
- Blasting could be on any day of the week, a conservative assumption as, in accordance with current conditions within HVO North and South's approvals, blasting cannot occur on Sundays or public holidays unless written approval is obtained from the Secretary.
- NO_x emissions based on data presented in the Queensland Guidance Note for the management of oxides in open cut blasting (DEEDI, 2011). It was conservatively assumed that the initial NO₂ concentration in the plume would be 7 ppm (14.4 milligrams per cubic metres [mg/m³]) based on the Rating 2 Fume Category in the Queensland Guidance Note. Of the 291 blasts that occurred in 2024, 67% were rated as category 0, 20% were rated as category 1, 9% were rated as category 2, 3% were rated as category 3, and 1% were rated as category 4. The assumption of a blast fume rating of 2 for every hour between 9 am and 5 pm is therefore very conservative.
- The initial NO₂ concentration in the plume was converted to a total NO_x emission rate based on a detailed measurement program of NO_x in blast plumes in the Hunter Valley made by Attalla et al. (2008) which found that the NO:NO₂ ratio was typically 27:1, giving a NO_x:NO₂ ratio of approximately 18.6 g NO_x/g NO₂.
- Calculated emission of 891 grams per second (g/s) of NO_x per blast and an emission release time of 5 minutes.
- 20% of the NO_x is NO₂ at the points of maximum 1-hour average concentrations and at sensitive receptors.

Model results for post-blast fume have been compared to the applicable EPA air quality criterion for NO₂; that is 164 µg/m³ as a 1-hour average and taking background levels into account. Section 6.2 provides the assessment of operational post blast fume.

5.3 Diesel Exhaust

The most significant emissions from diesel exhausts are products of combustion including CO, NO_x, PM₁₀ and PM_{2.5}. It is the NO_x, or more specifically NO₂, and PM₁₀ (including PM_{2.5}) which have been assessed. DPHI monitoring data have shown that CO concentrations have not exceeded relevant air quality criteria at rural or urban monitoring stations in NSW, indicating that this substance represents a much lower air quality risk. The modelling for mining dust (Section 5.1) has considered emission factors that represent the contribution from both wheel-generated particulates and the exhaust particulates. These emission factors, including with control factors, are based on measured emissions which included diesel particulates in the form of both PM₁₀ and PM_{2.5}.

Table 16 provides the explicit estimates of PM₁₀ and PM_{2.5} emissions due only to diesel plant and equipment exhausts. Emission factors for "Industrial off-road vehicles and equipment" from the EPA's 2008 Air Emissions Inventory (EPA, 2012) were used for the calculations and it has been assumed that there will be no reduction to emissions in the future; a conservative approach. These factors relate to diesel exhaust and evaporative emissions.

Table 16 Estimated PM₁₀ and PM_{2.5} emissions from diesel engines

| Parameter | Value |
|-------------------------------------------------------------------------------------------------|---------|
| Estimated maximum annual fuel usage from HVO between 2027 and 2045 (kilolitres per year (kL/y)) | 201,047 |
| PM₁₀ calculations | |
| Diesel exhaust emission factor (kilograms/kilolitre (kg/kL)) | 2.84 |
| Diesel exhaust emission (all equipment) (kg/y) | 570,973 |
| PM_{2.5} calculations | |
| Diesel exhaust emission factor (kg/kL) | 2.75 |
| Diesel exhaust emission (all equipment) (kg/y) | 552,879 |

Emissions of NO_x from diesel exhausts have been estimated using fuel consumption data, provided by HVO, and an emission factor from the EPA's Air Emissions Inventory for 2008 (EPA, 2012). Table 17 shows the calculations. Again, it has been assumed that there will be no reduction to emissions in the future, which is a conservative approach.

Table 17 Estimated NO_x emissions from diesel engines

| Parameter | Value |
|---------------------------------------------------------------------------|-----------|
| Estimated maximum annual fuel usage from HVO between 2027 and 2045 (kL/y) | 201,047 |
| NO _x calculations | |
| Diesel exhaust emission factor (kg/kL) | 40.77 |
| Diesel exhaust emission (all equipment) (kg/y) | 8,196,686 |

The NO_x emission estimates from Table 17 have been explicitly modelled to provide an indication of the off-site NO₂ concentrations due to diesel exhaust emissions. Section 6.3 provides the assessment of operational diesel exhaust.

6 Air Quality Assessment

6.1 Mining Dust

This section provides an assessment of the amended Project in terms of mining dust, based on the methodology described in Section 5.1. Model results have been assessed for each of the key particulate matter classifications.

Contour plots are presented below, and tabulated results are provided in Annexure C. Comparisons with the modelling results of the original Project (as per Jacobs, 2022) are provided where an EPA assessment or VLAMP criterion exists.

Section 6.1.5 provides an assessment against the VLAMP criteria.

6.1.1 Particulate Matter (as PM₁₀)

Figure 11 shows the modelled maximum 24-hour average PM₁₀ concentrations due to HVO (with amended Project) for each assessment scenario. The EPA does not prescribe a project only criteria for 24-hour average PM₁₀, but the VLAMP refers to 50 µg/m³ for the purposes of determining land acquisition and mitigation rights. The modelling shows that the 50 µg/m³ criterion would not be exceeded at any private sensitive receptor.

Figure 11 also includes the model results for the original Project as per Jacobs (2022). The maximum 24-hour average PM₁₀ concentrations due to the amended Project are expected to be lower than the concentrations due to the original Project, at sensitive receptors.

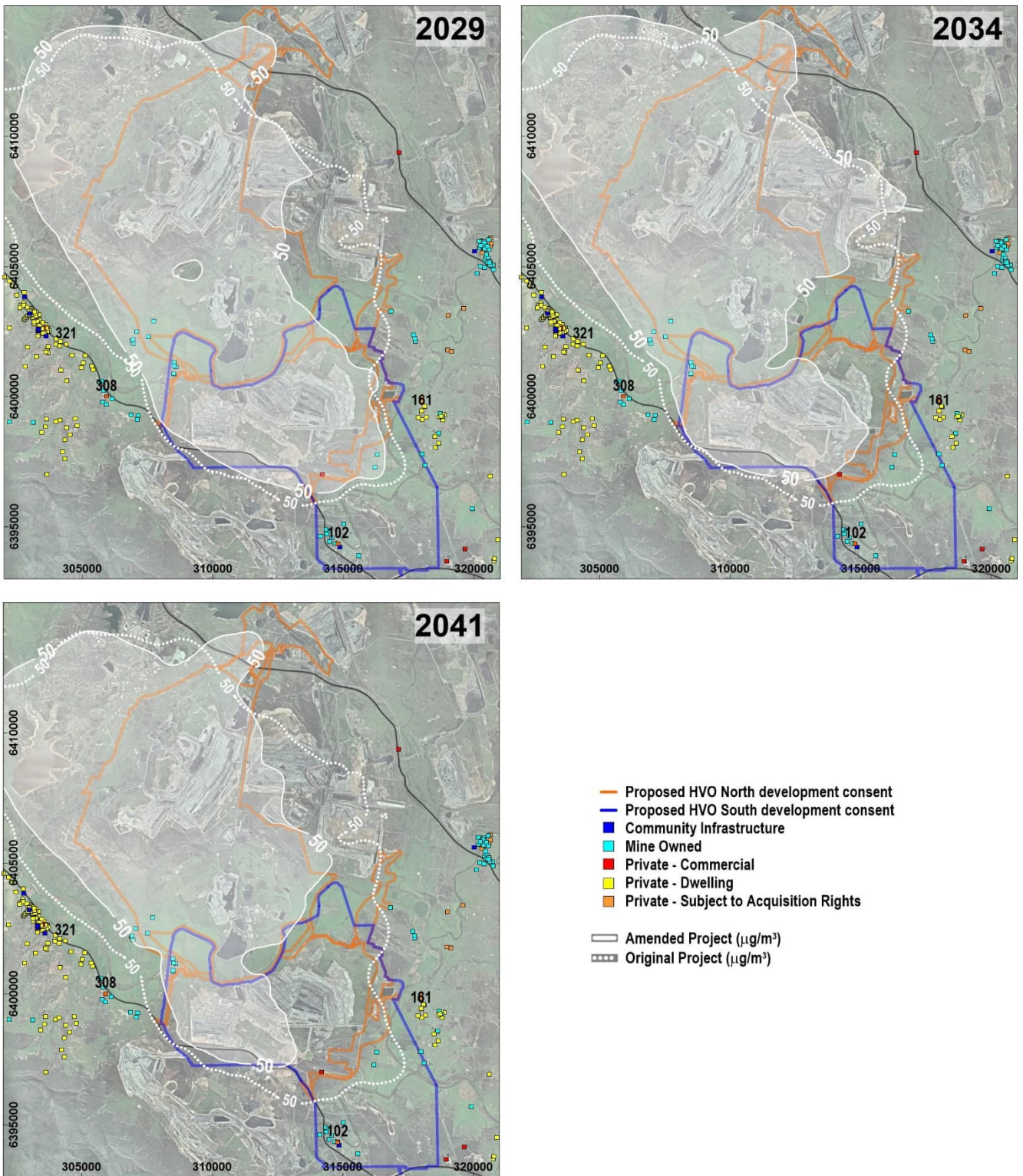


Figure 11 Modelled maximum 24-hour average PM₁₀ due to HVO

Figure 12 shows the modelled maximum 24-hour average PM₁₀ concentrations due to HVO (with amended Project) and other sources of PM₁₀. These results show that, in a representative year, many locations across the model domain are expected to experience in the maximum PM₁₀ concentrations above 50 µg/m³. As noted in and Section 4.3 and in the EIS (EMM, 2022a and Jacobs, 2022), due to drought and bushfires, most locations in the Hunter Valley and NSW, have historically recorded one or more days each year when the 24-hour average PM₁₀ concentration exceeded 50 µg/m³. Jacobs (2022) did not provide contours of maximum cumulative 24-hour PM₁₀ concentrations for the original Project.

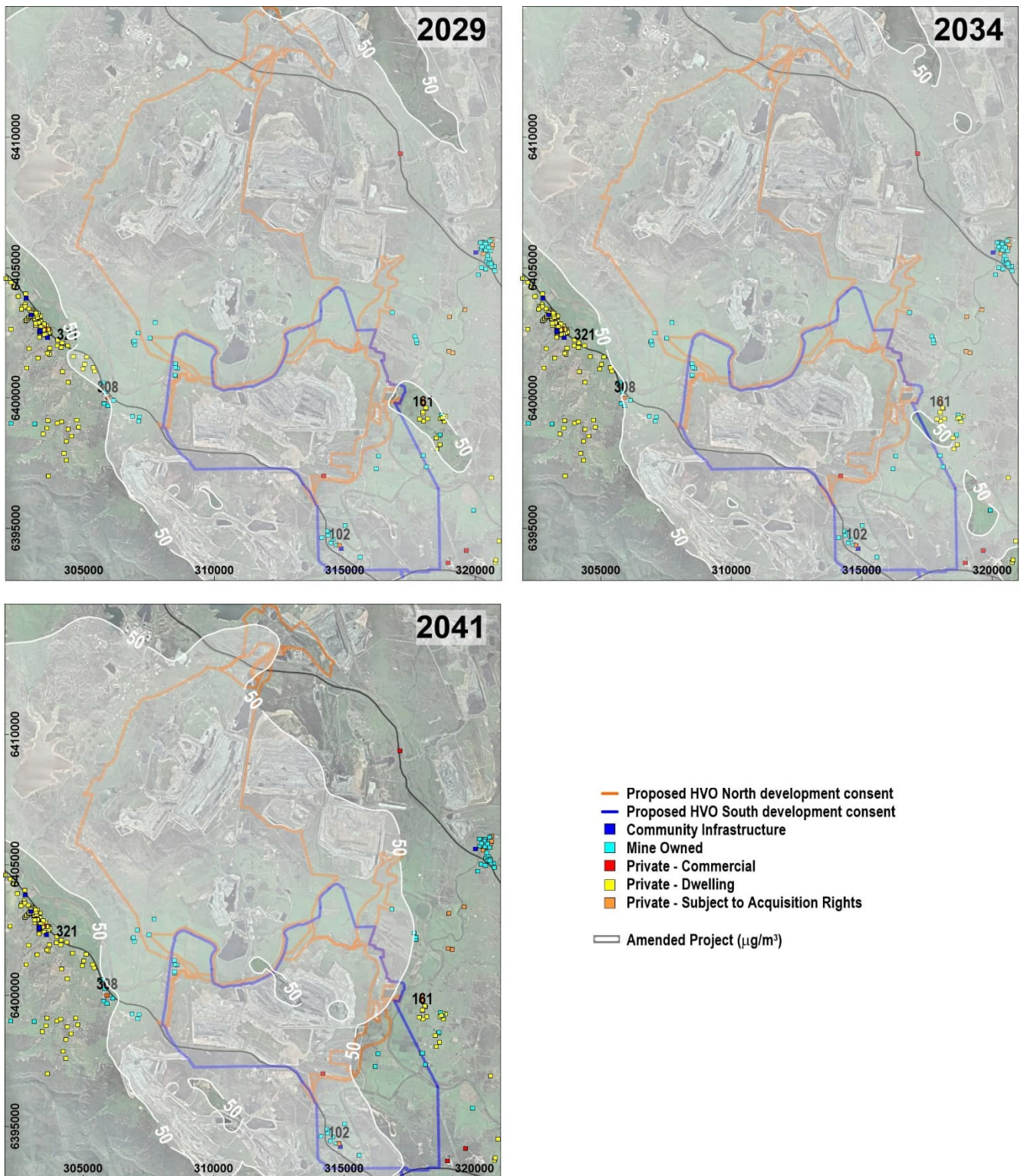


Figure 12 Modelled maximum 24-hour average PM₁₀ due to HVO and other sources

Further investigation of the potential for HVO (with the amended Project) to cause an exceedance has been carried out. This involved examining contemporaneous background and mining contributions for each day in the modelling year; a “Level 2” assessment by the Approved Methods.

Figure 13 to Figure 15 show time series of 24-hour average PM₁₀ concentrations at properties 161, 308 and 321 respectively. These three private sensitive receptors represent the closest communities of Maison Dieu and Jerrys Plain to HVO. The results show that concentrations would be well below 50 µg/m³ for most days of the year (>99% of the time) at each location. There is however a potential risk that HVO influences an exceedance in the following circumstances:

- In 2029 at receptor 308 (Jerrys Plains) on 1 day in the year, when background levels are in the order of 40 µg/m³ or more.
- In 2034 at receptor 161 (Maison Dieu) on 1 day in the year, when background levels are in the order of 35 µg/m³ or more.
- In 2034 at receptor 308 (Jerrys Plains) on 1 day in the year, when background levels are in the order of 40 µg/m³ or more.

The contributions of HVO to the selected locations on these days are less than 11 µg/m³ and well below the air quality compliance criteria from the existing development consents for HVO North and HVO South (that is, 50 µg/m³ due to the development on its own as per DA 450-10-2003 and PA 06_0261). However, in these circumstances, it will be necessary for HVO to respond to any potential increases in offsite air quality risks and minimise its contribution to air quality. This outcome was also determined for the original Project (Jacobs, 2022) with risks of causing exceedances expected to be lower for the amended Project.

HVO is committed to proactively modifying or shutting down any activities that may be increasing the risk of air quality impacts. The AQGGMP (HVO, 2025) outlines the proactive and reactive management measures that are implemented (and will continue to be implemented) at HVO. These measures, discussed in Section 7, are consistent with best practice. Modelling (Airen, 2024) has shown that the implementation of modifying operations in response to the trigger levels defined in the AQGGMP can reduce HVO’s contributions to air quality such that HVO would not be the cause of an exceedance.

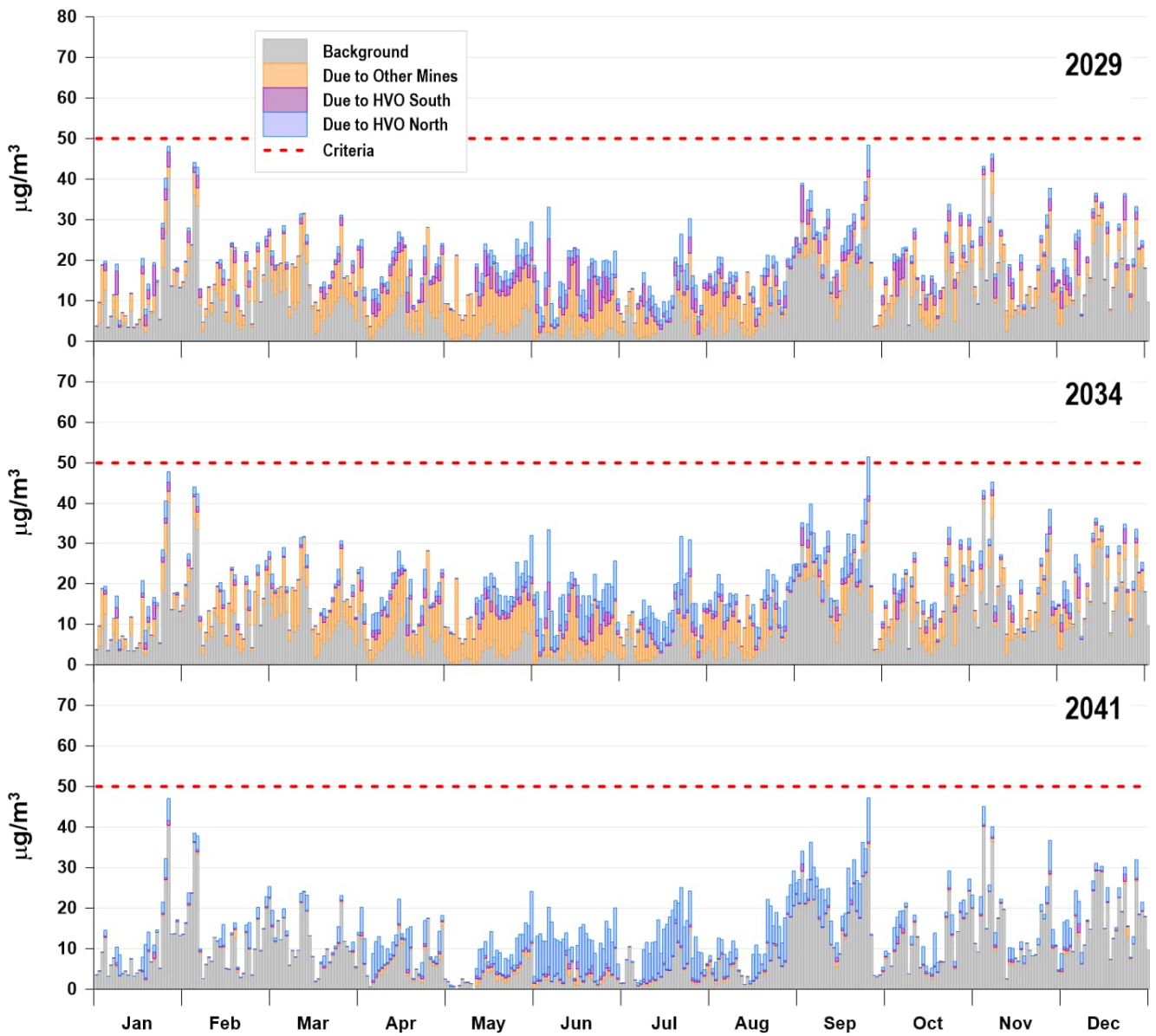


Figure 13 Time series of modelled 24-hour average PM₁₀ concentrations at receptor 161 (Maison Dieu)

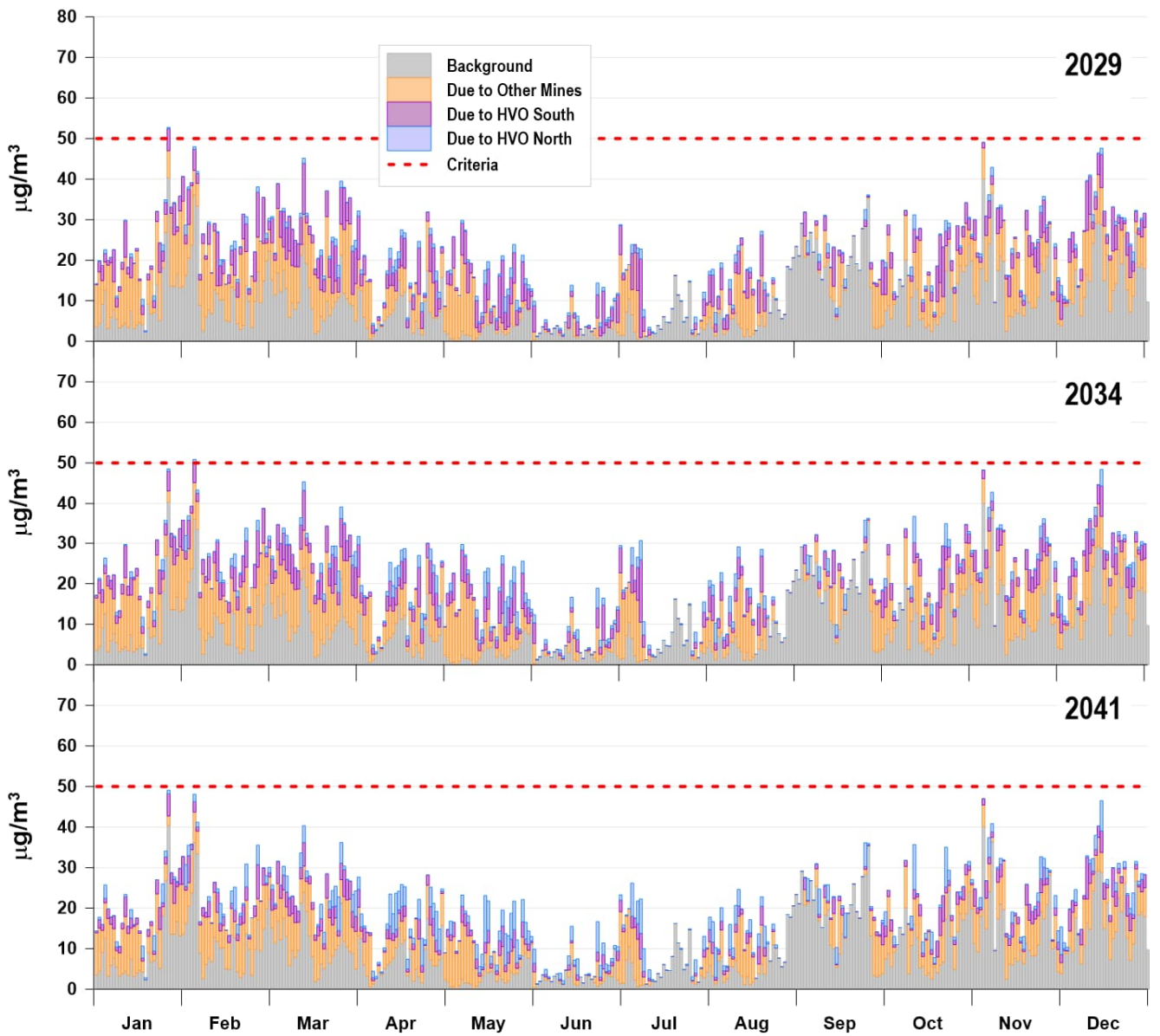


Figure 14 Time series of modelled 24-hour average PM₁₀ concentrations at receptor 308 (Jerrys Plains)

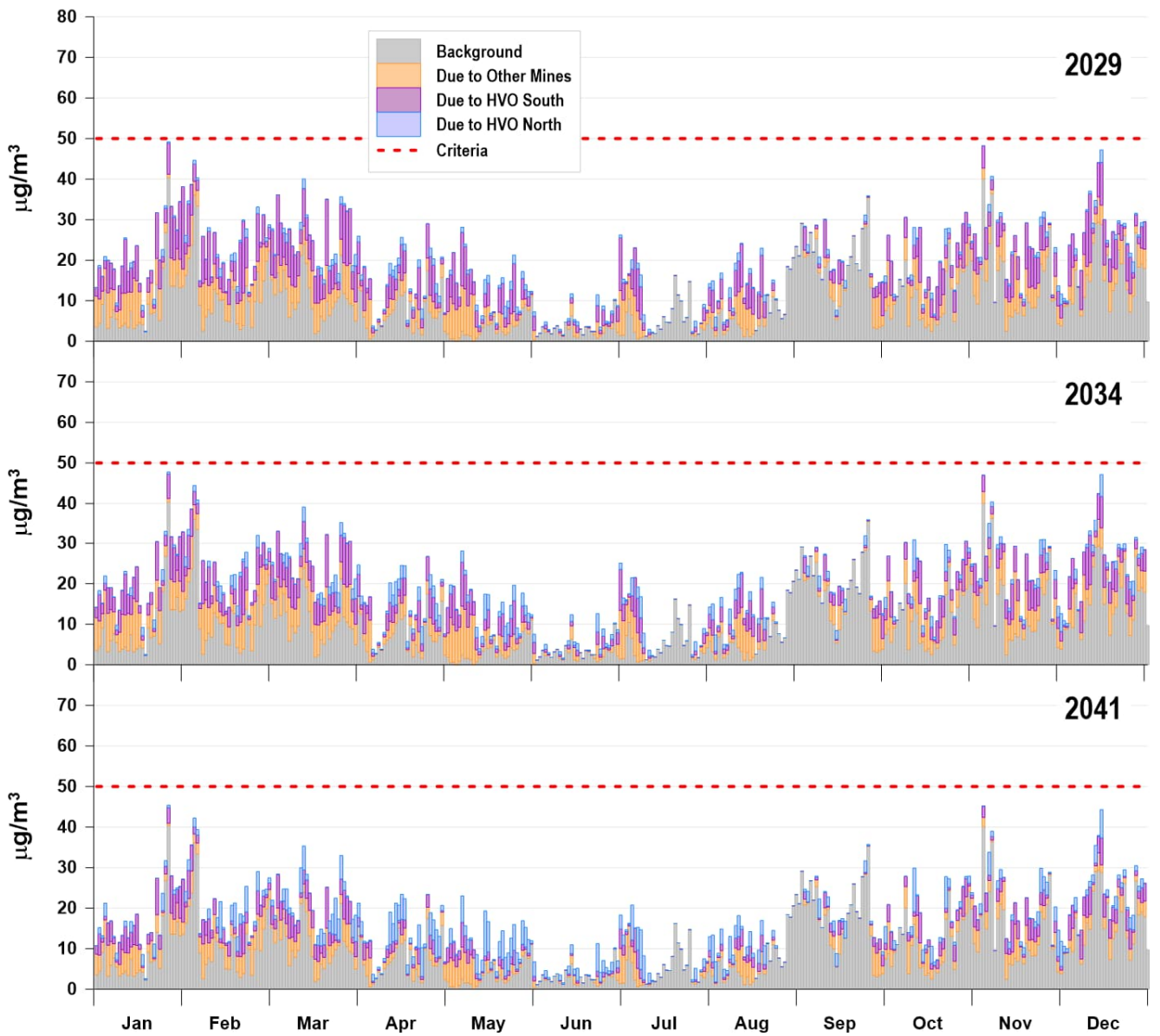


Figure 15 Time series of modelled 24-hour average PM₁₀ concentrations at receptor 321 (Jerrys Plains)

Figure 16 shows the modelled annual average PM₁₀ concentrations due to HVO (with amended Project) for each assessment scenario. The EPA does not prescribe a project only criteria for annual average PM₁₀.

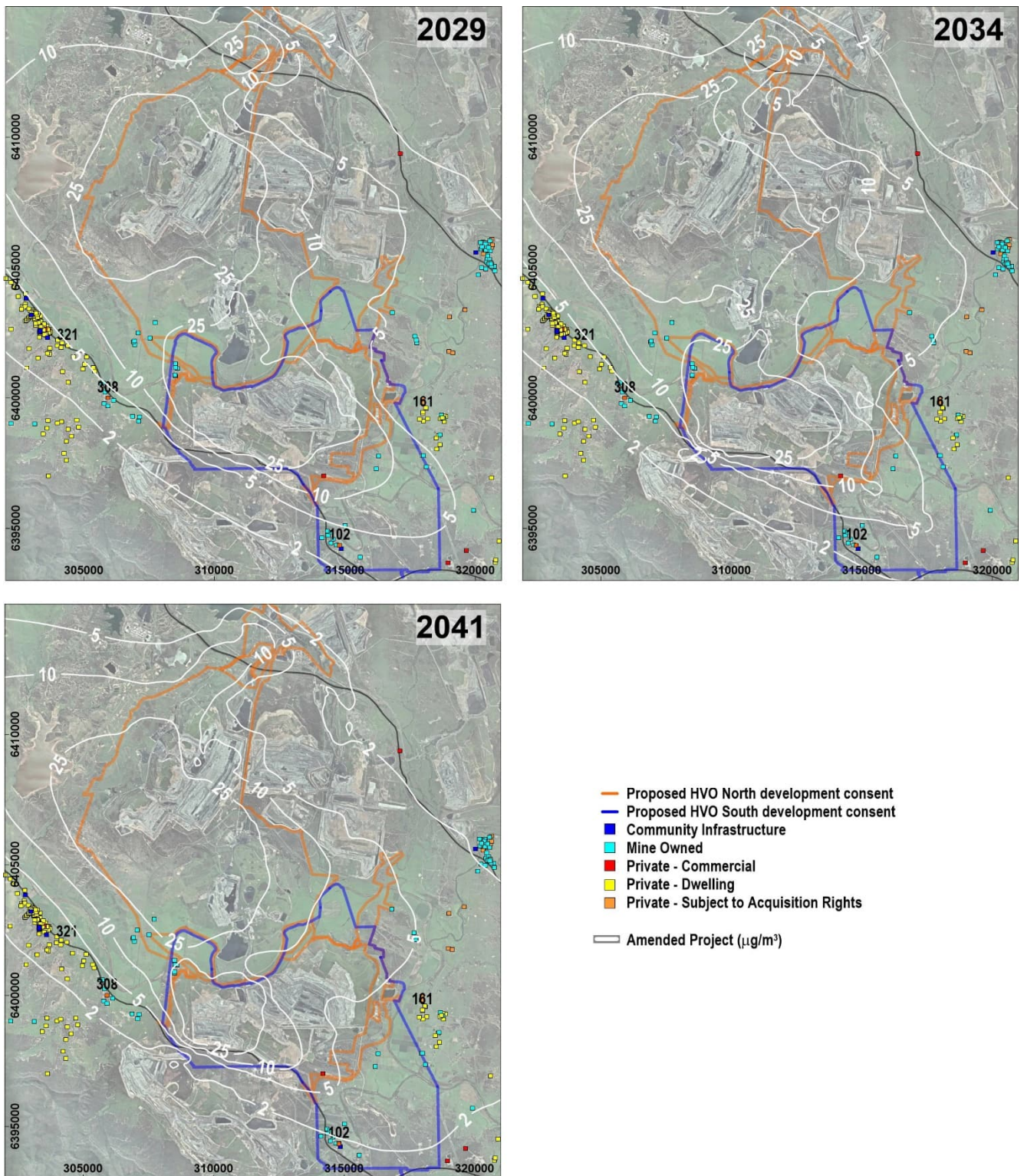


Figure 16 Modelled annual average PM₁₀ due to HVO

Figure 17 shows the modelled annual average PM₁₀ concentrations due to HVO (with amended Project) and other sources of PM₁₀. These results indicate compliance with the EPA's assessment criterion for annual average PM₁₀ (25 µg/m³) at all private sensitive receptors. Annual average PM₁₀ concentrations due to the amended Project are expected to be lower than the concentrations due to the original Project (as per Jacobs, 2022) at sensitive receptors.

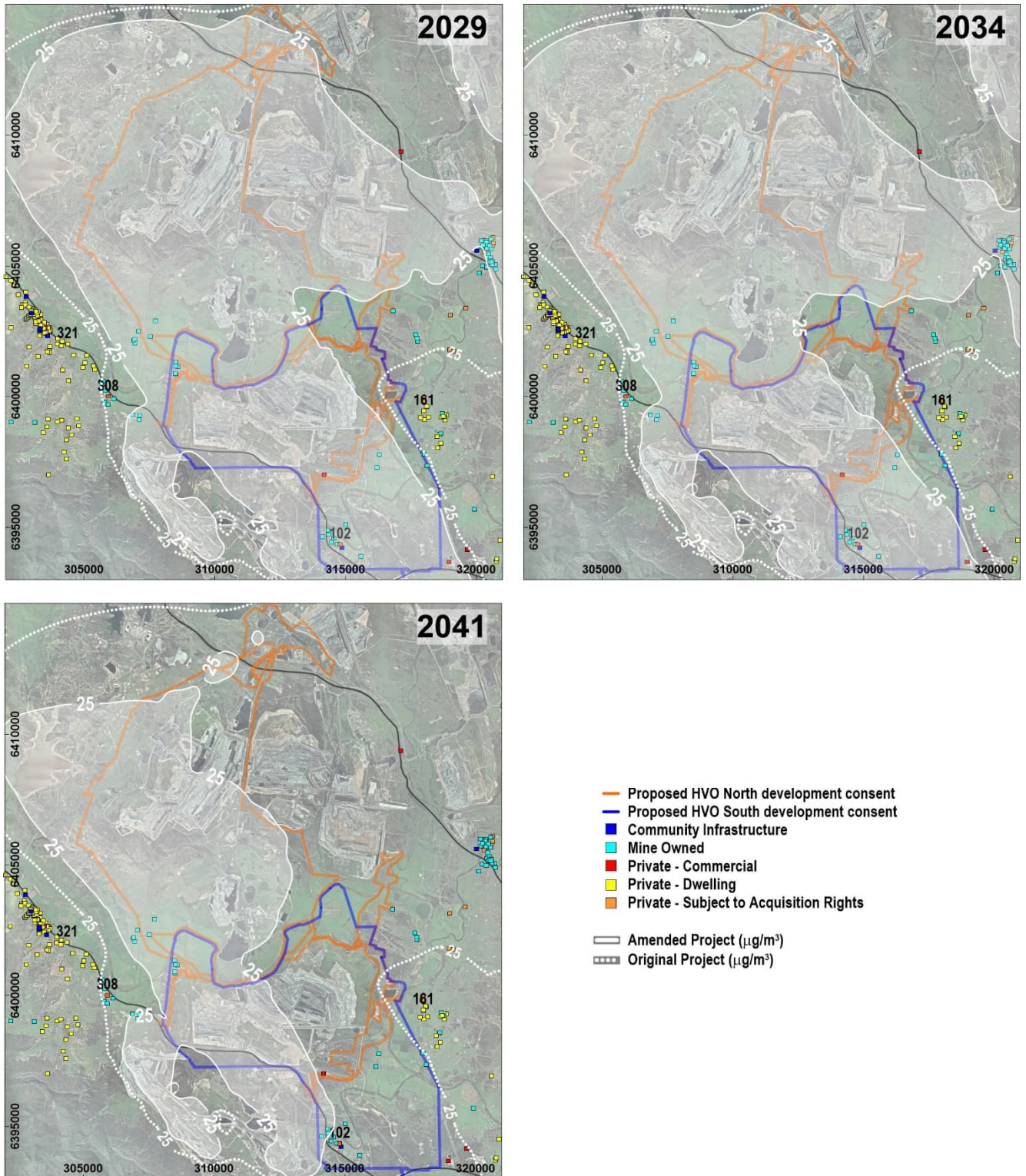


Figure 17 Modelled annual average PM₁₀ due to HVO and other sources

6.1.2 Particulate Matter (as PM_{2.5})

Figure 18 shows the modelled maximum 24-hour average PM_{2.5} concentrations due to HVO (with amended Project). The EPA does not prescribe a project only criteria for 24-hour average PM_{2.5}, but the VLAMP refers to 25 µg/m³ for the purposes of determining land acquisition and mitigation. The modelling shows that the 25 µg/m³ criterion would not be exceeded at any private sensitive receptor. Maximum 24-hour average PM_{2.5} concentrations due to the amended Project are expected to be lower than the concentrations due to the original Project (as per Jacobs, 2022) at sensitive receptors.

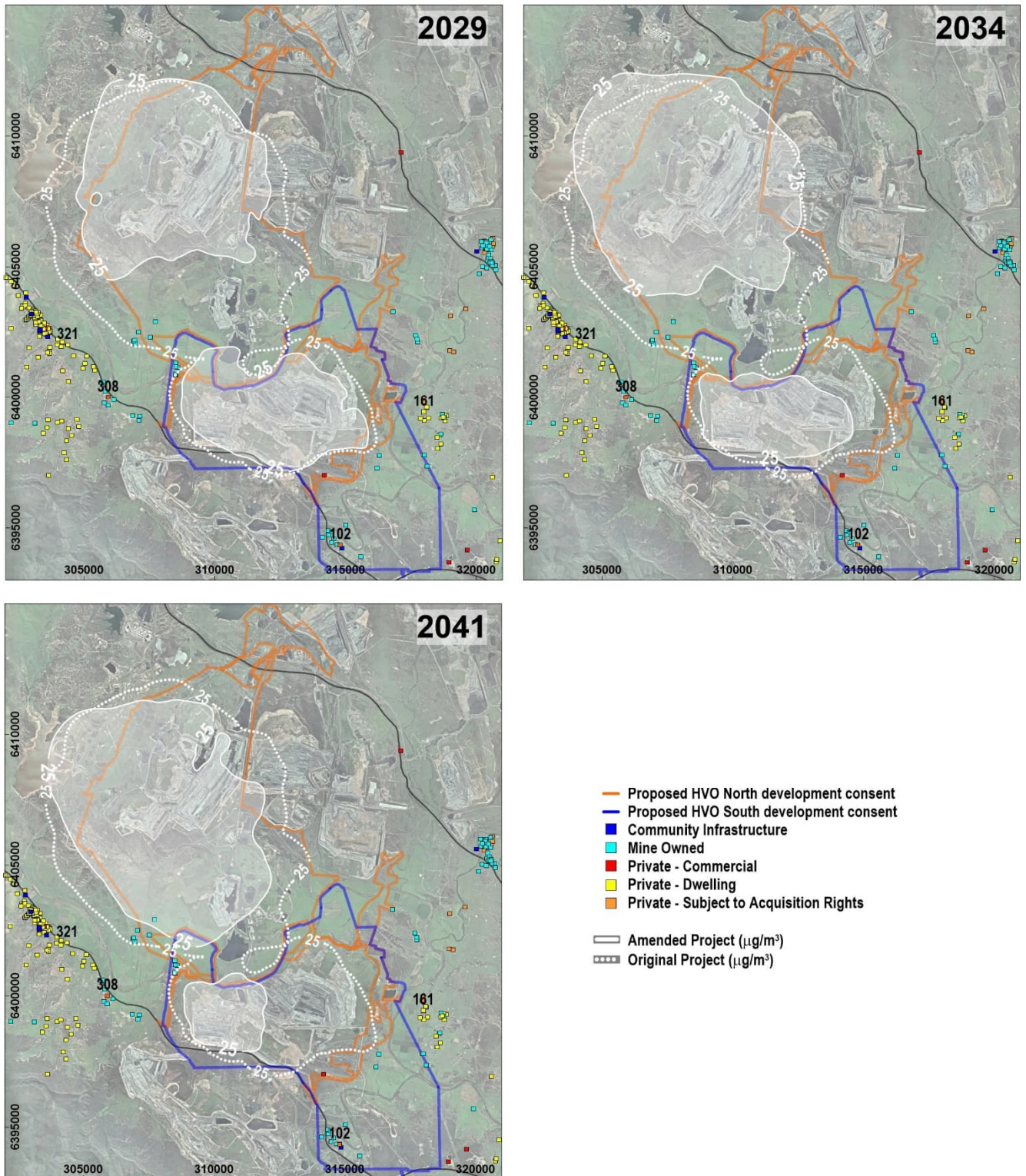


Figure 18 Modelled maximum 24-hour average PM_{2.5} due to HVO

Figure 19 shows the modelled maximum 24-hour average PM_{2.5} concentrations due to HVO (with amended Project) and other sources of PM_{2.5}. These results show that the EPA's assessment criterion for maximum 24-hour average PM_{2.5} (25 µg/m³) will not be exceeded at any private sensitive receptor. Jacobs (2022) did not provide contours of maximum cumulative 24-hour PM_{2.5} concentrations for the original Project.

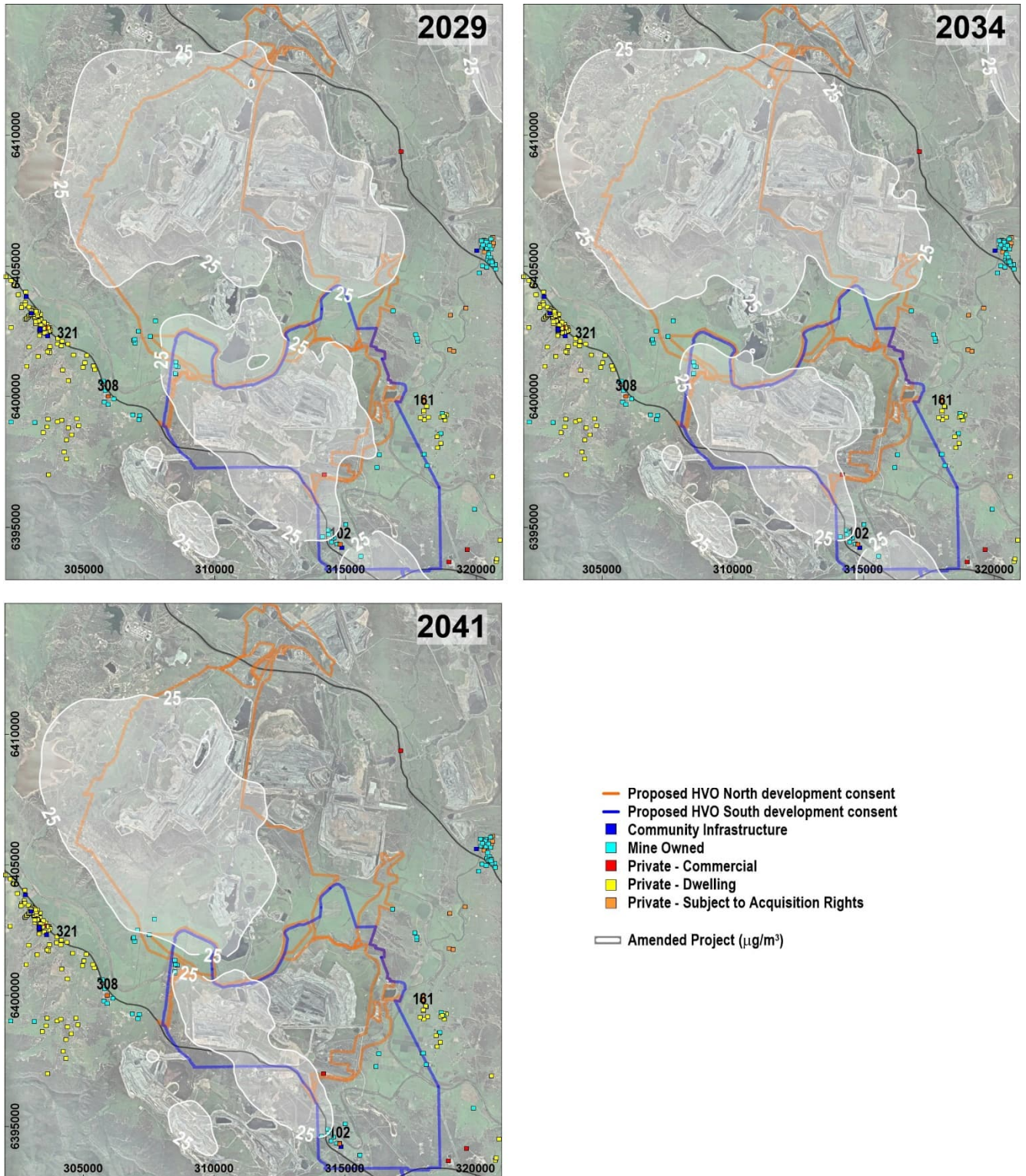


Figure 19 Modelled maximum 24-hour average PM_{2.5} due to HVO and other sources

Figure 20 shows the modelled annual average PM_{2.5} concentrations due to HVO (with amended Project). There are no applicable “project only” criteria but it is useful to note that contributions would be no more than 2 µg/m³ at the nearest private sensitive receptors.

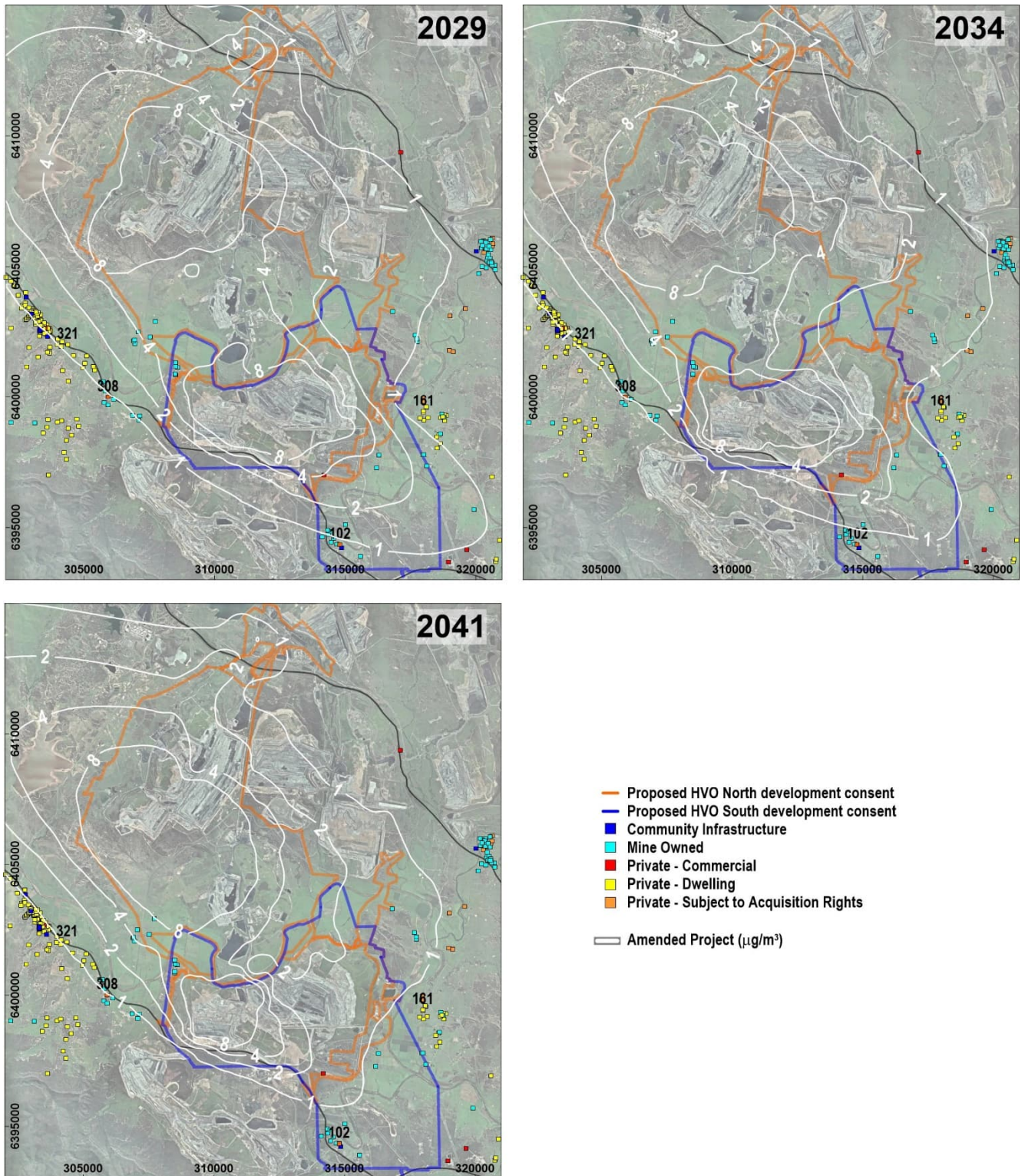


Figure 20 Modelled annual average PM_{2.5} due to HVO

Figure 21 shows the modelled annual average PM_{2.5} concentrations due to HVO (with amended Project) and other sources of PM_{2.5}. These results show that the EPA's assessment criterion for annual average PM_{2.5} (8 µg/m³) will not be exceeded at private sensitive receptors. Annual average PM_{2.5} concentrations due to the amended Project are expected to be lower than the concentrations due to the original Project (as per Jacobs, 2022) at sensitive receptors.

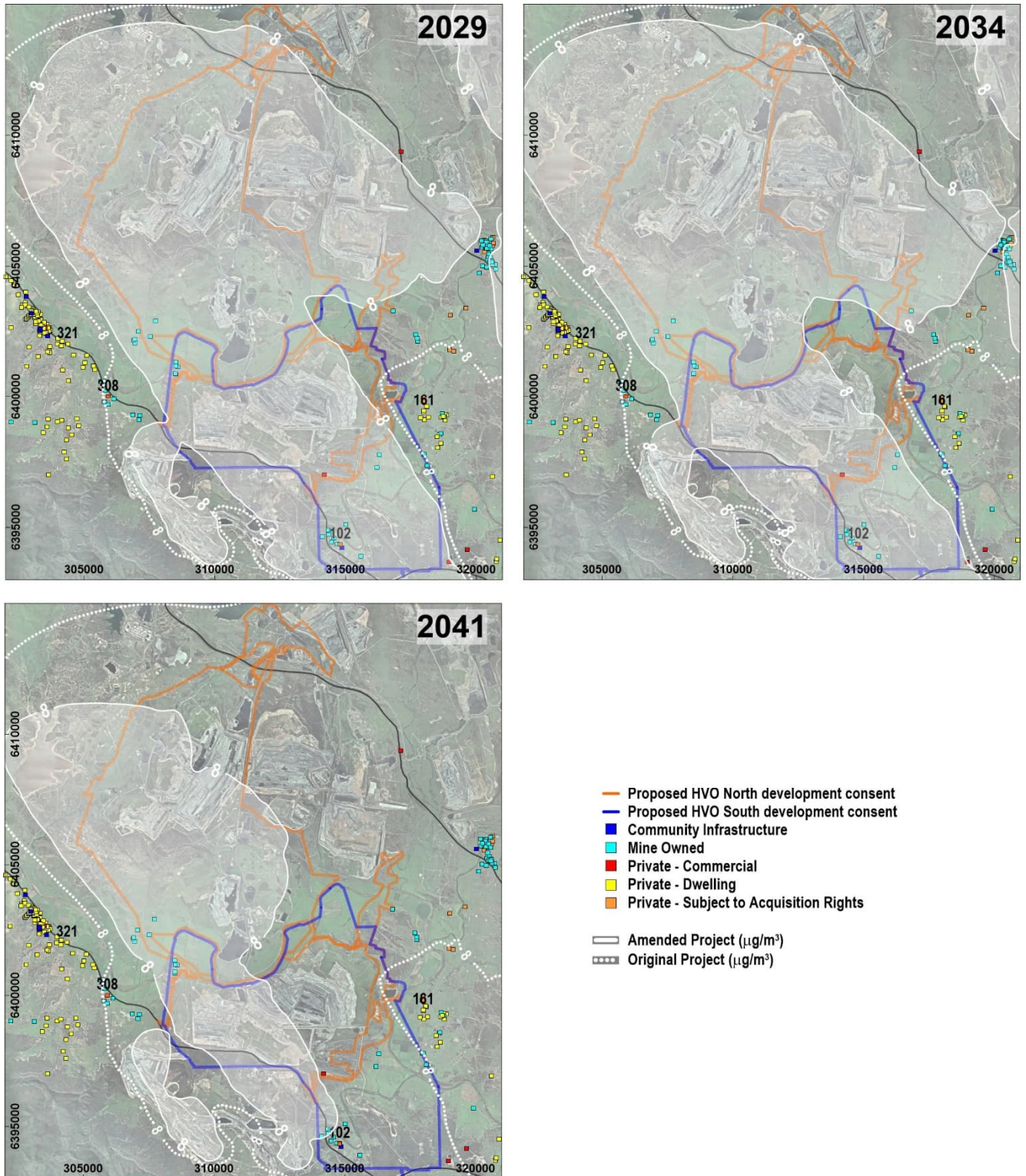


Figure 21 Modelled annual average PM_{2.5} due to HVO and other sources

6.1.3 Particulate Matter (as TSP)

Figure 22 shows the modelled annual average TSP concentrations due to HVO (with amended Project). There are no applicable “project only” criteria but it is useful to note that contributions would be no more than 2 µg/m³ at the nearest private sensitive receptors.

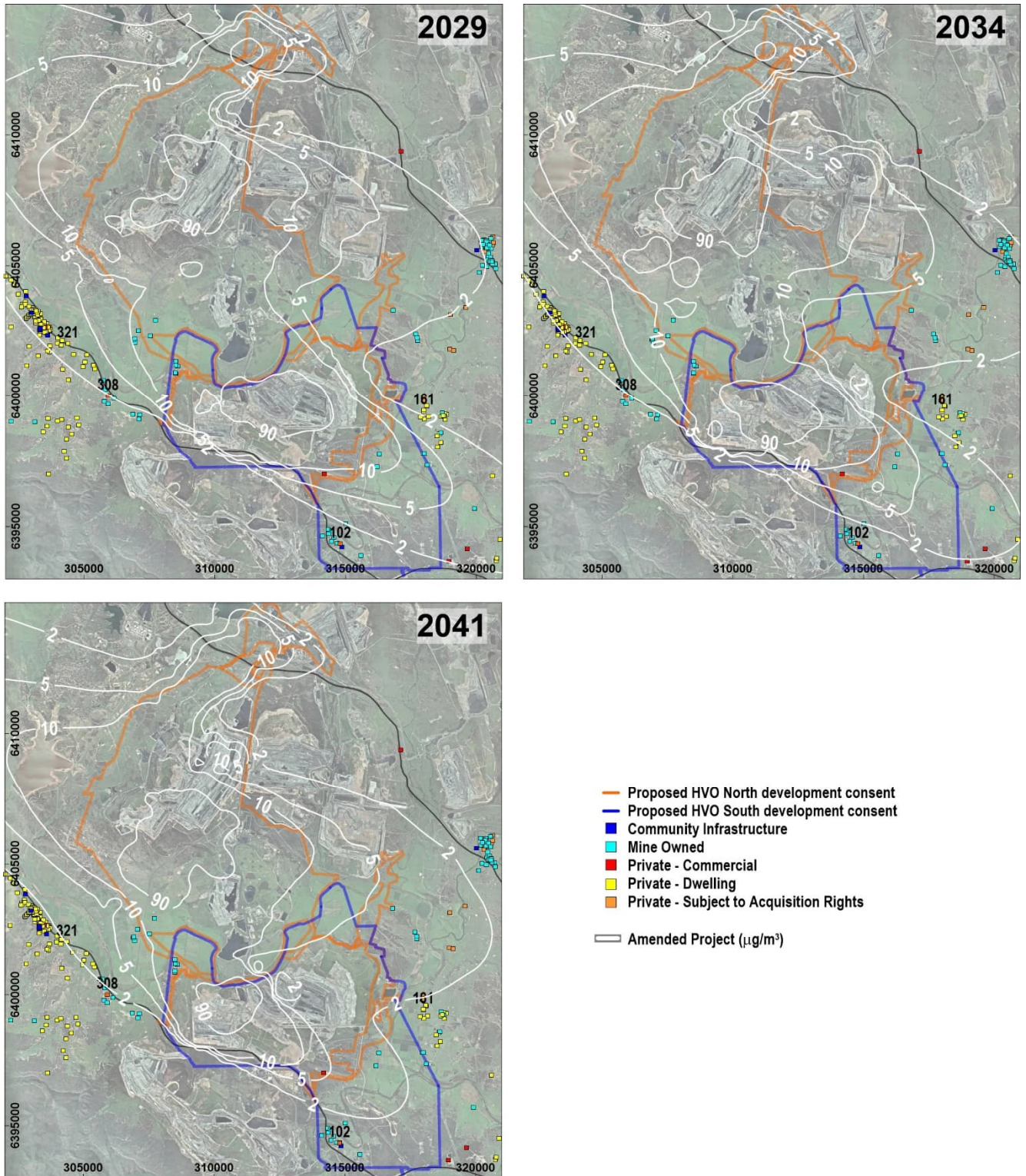


Figure 22 Modelled annual average TSP due to HVO

Figure 23 shows the modelled annual average TSP concentrations due to HVO (with amended Project) and other sources of TSP. These results show that the EPA’s assessment criterion for annual average TSP ($90 \mu\text{g}/\text{m}^3$) will not be exceeded at private sensitive receptors. Annual average TSP concentrations due to the amended Project are expected to be lower than the concentrations due to the original Project (as per Jacobs, 2022) at sensitive receptors.

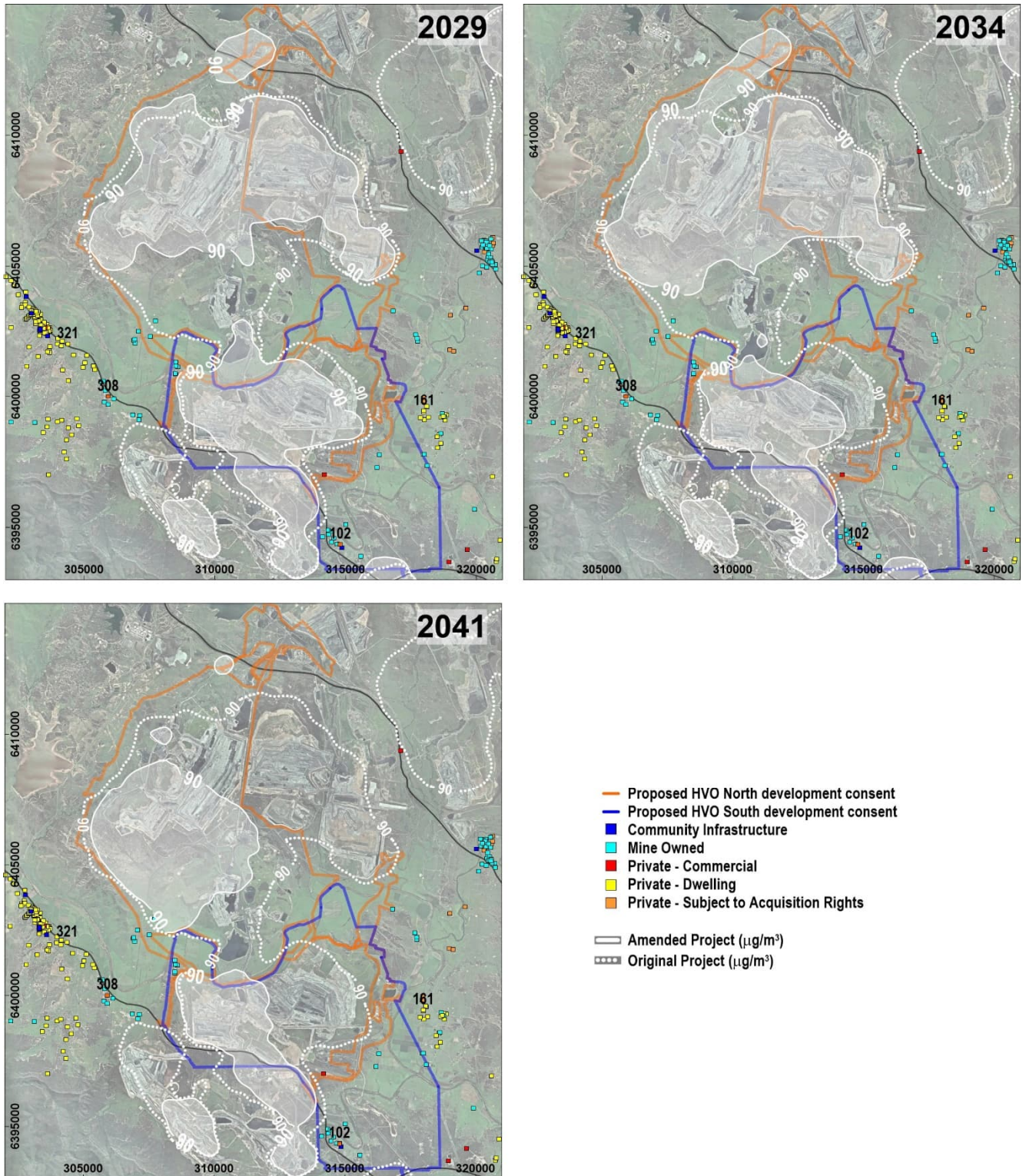


Figure 23 Modelled annual average TSP due to HVO and other sources

6.1.4 Deposited Dust

Figure 24 shows the modelled annual average deposited dust levels due to HVO (with amended Project). These results have been assessed against the EPA's criteria of 2 g/m²/month (incremental). These results indicate compliance with the EPA's assessment criteria at all private sensitive receptors. Annual average deposition levels due to the amended Project are expected to be lower than the deposition levels due to the original Project (as per Jacobs, 2022) at sensitive receptors.

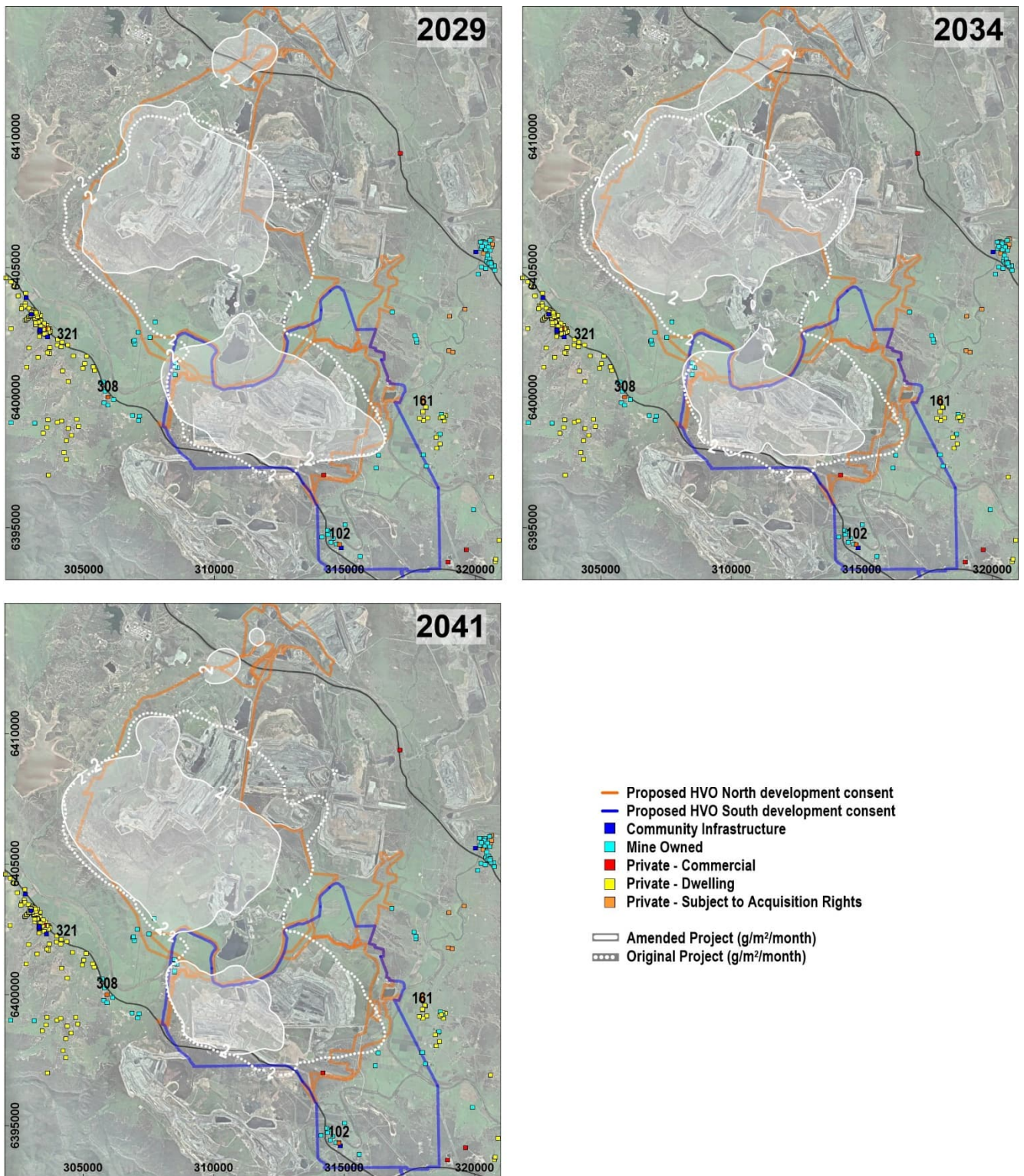


Figure 24 Modelled annual average deposited dust due to HVO

Figure 25 shows the modelled annual average deposited dust levels due to HVO (with amended Project) and other sources. These results have been assessed against the EPA's criteria of 4 g/m²/month (cumulative). These results indicate compliance with the EPA's assessment criteria at all private sensitive receptors. Annual average deposition levels due to the amended Project are expected to be lower than the deposition levels due to the original Project (as per Jacobs, 2022) at sensitive receptors.

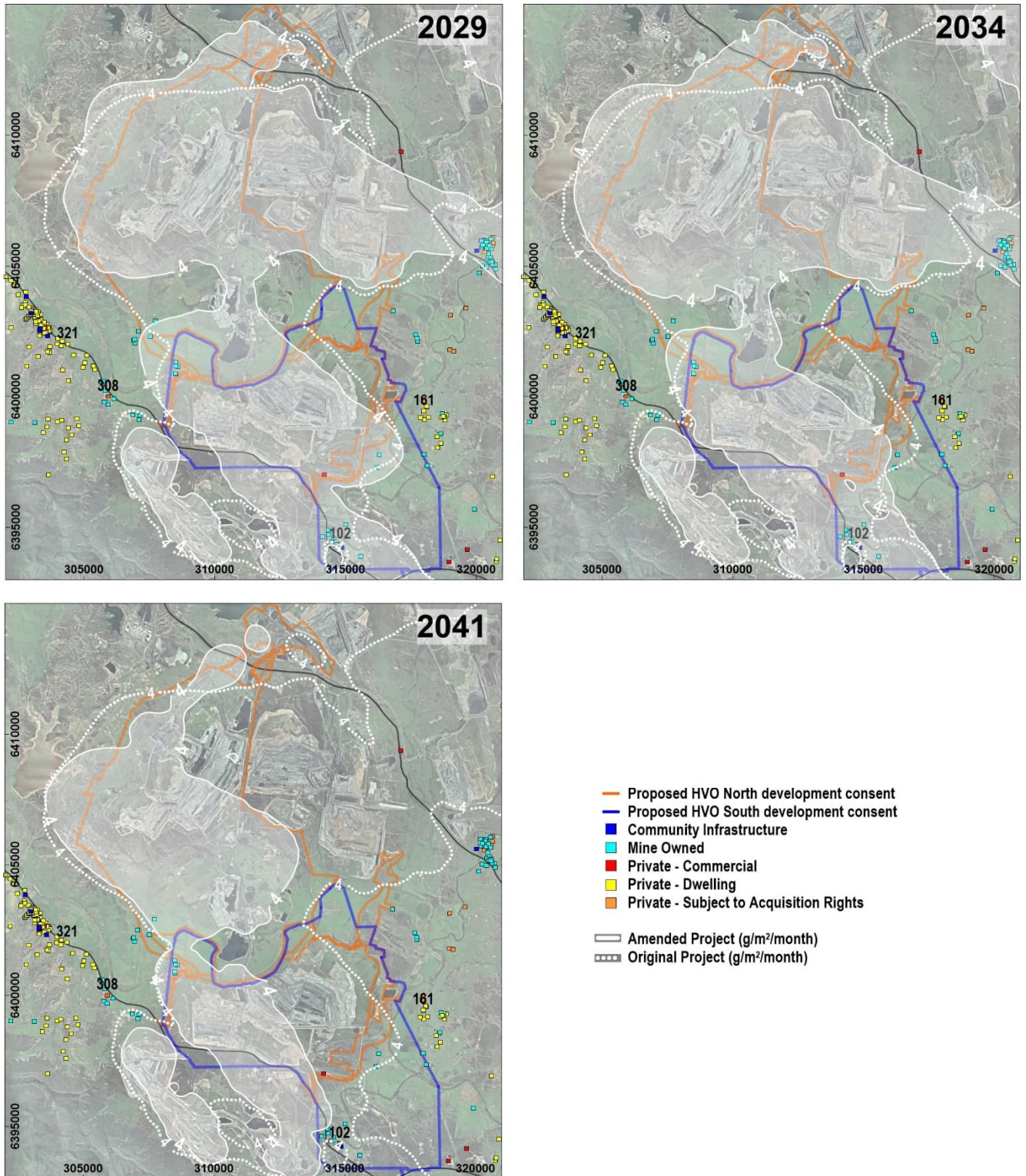


Figure 25 Modelled annual average deposited dust due to HVO and other sources

6.1.5 VLAMP Assessment

As noted in Section 3, the VLAMP specifies that voluntary acquisition rights may apply where, even with best practice management, the development contributes to exceedances of the criteria in Table 4 at any residence or workplace on privately owned land, or on more than 25% of any privately owned land where there is an existing dwelling or where a dwelling could be built under existing planning controls.

Figure 26 shows the maximum extent of VLAMP criteria based on all years of assessment and for all relevant air quality indicators. Table 18 provides an assessment of the model results against the VLAMP criteria. As noted in Section 5.1, there will be “best practice” operational controls in place at HVO (and other mining operations) which will have a direct effect on emissions to air. The modelling cannot fully simulate all possible operational controls and as such, results will be conservative by nature. That is, the predicted impacts as reflected in Table 18 are likely to over-state actual impacts.

The number of lots with risk of a VLAMP exceedance is expected to reduce with the amended Project, relative to the original Project.

Table 18 Assessment against VLAMP acquisition criteria for particulate matter

| Air quality indicator | Averaging time | Criterion | Assessment outcome from modelling | |
|-----------------------------------------|---------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | Original Project (Jacobs, 2022) | Amended Project |
| Particulate matter (PM ₁₀) | 24-hour | 50 µg/m ³ ** | Compliance | Compliance |
| | Annual | 25 µg/m ³ * | Project may contribute to an exceedance of the criteria on more than 25% of privately owned land where there is an existing dwelling for the following landholdings: <ul style="list-style-type: none"> - 3//700476 (Property 308) - 5/251617, 9//3005, 8//3005 (Property 121) | Project may contribute to an exceedance of the criteria on more than 25% of privately owned land where there is an existing dwelling for the following landholdings: <ul style="list-style-type: none"> - 8//3005 (Property 121), Figure 26 |
| Particulate matter (PM _{2.5}) | 24-hour | 25 µg/m ³ ** | Compliance | Compliance |
| | Annual | 8 µg/m ³ * | Project may contribute to an exceedance of the criteria on more than 25% of privately owned land where there is an existing dwelling for the following landholdings: <ul style="list-style-type: none"> - 3//700476 (Property 308) - 5/251617, 9//3005, 8//3005 (Property 121) | Project may contribute to an exceedance of the criteria on more than 25% of privately owned land where there is an existing dwelling for the following landholdings: <ul style="list-style-type: none"> - 8//3005 (Property 121) |
| Particulate matter (TSP) | Annual | 90 µg/m ³ * | Compliance | Compliance |
| Deposited dust | Annual (maximum increase) | 2 g/m ² /month ** | Compliance | Compliance |
| | Annual (maximum total) | 4 g/m ² /month * | Compliance | Project may contribute to an exceedance of the criteria on more than 25% of privately owned land where there is an existing dwelling for the following landholdings: <ul style="list-style-type: none"> - 8//3005 (Property 121), Figure 26 |

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

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

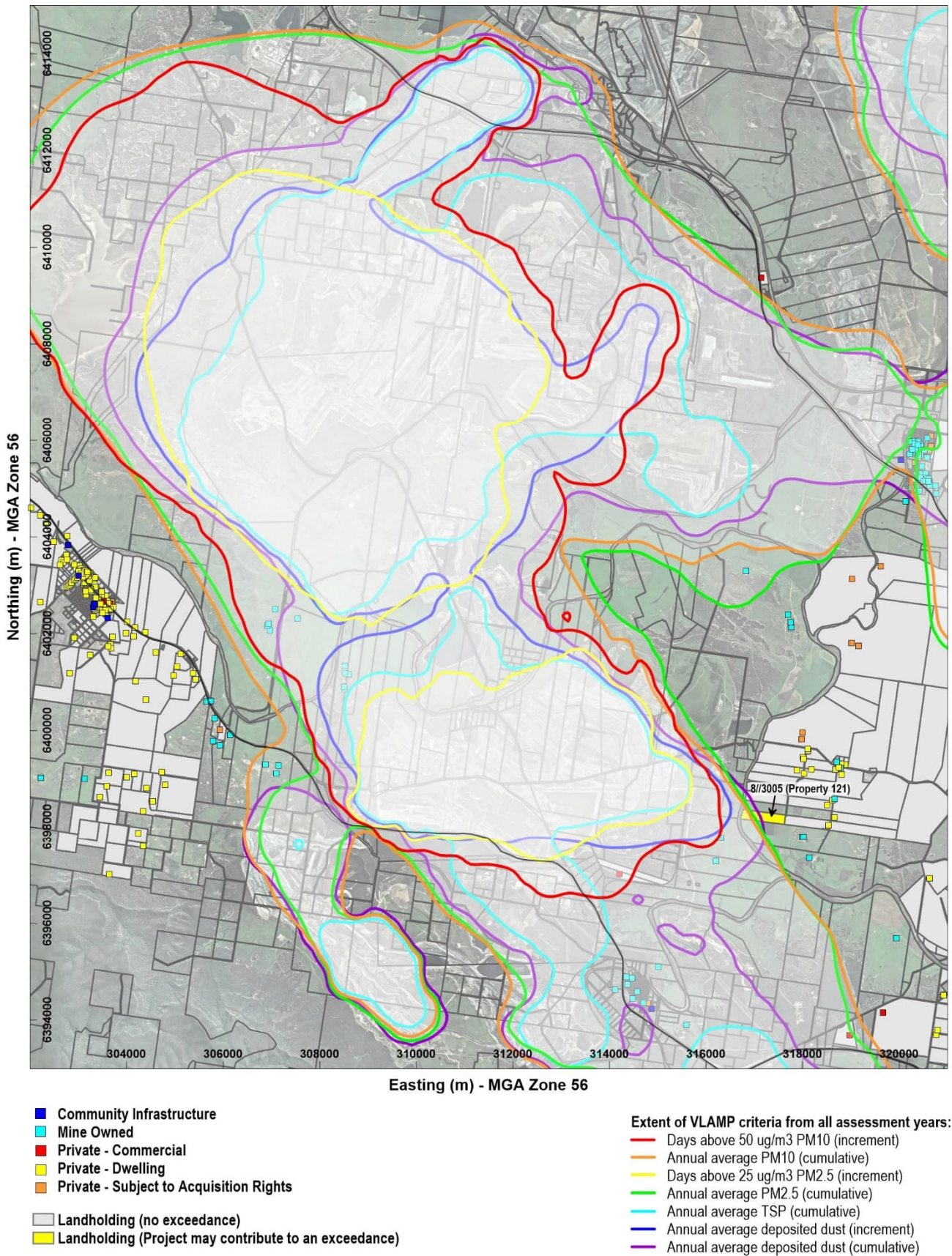


Figure 26 Modelled maximum extent of VLAMP criteria

6.2 Post Blast Fume

Figure 27 shows the modelled maximum 1-hour average NO₂ concentrations due to post-blast fume at HVO, based on the methodology outlined in Section 5.2. These results include background levels. The results show that, under worst-case meteorological conditions with a rated 2 fume, blasting every day between 9 am and 5 pm and concurrent background concentrations, the maximum 1-hour average NO₂ concentrations will not exceed the EPA's criterion at any off-site sensitive receptor. The amended Project will not change the proposed blasting activities, so potential impacts are expected to be similar to those of the original Project (as per Jacobs, 2022).

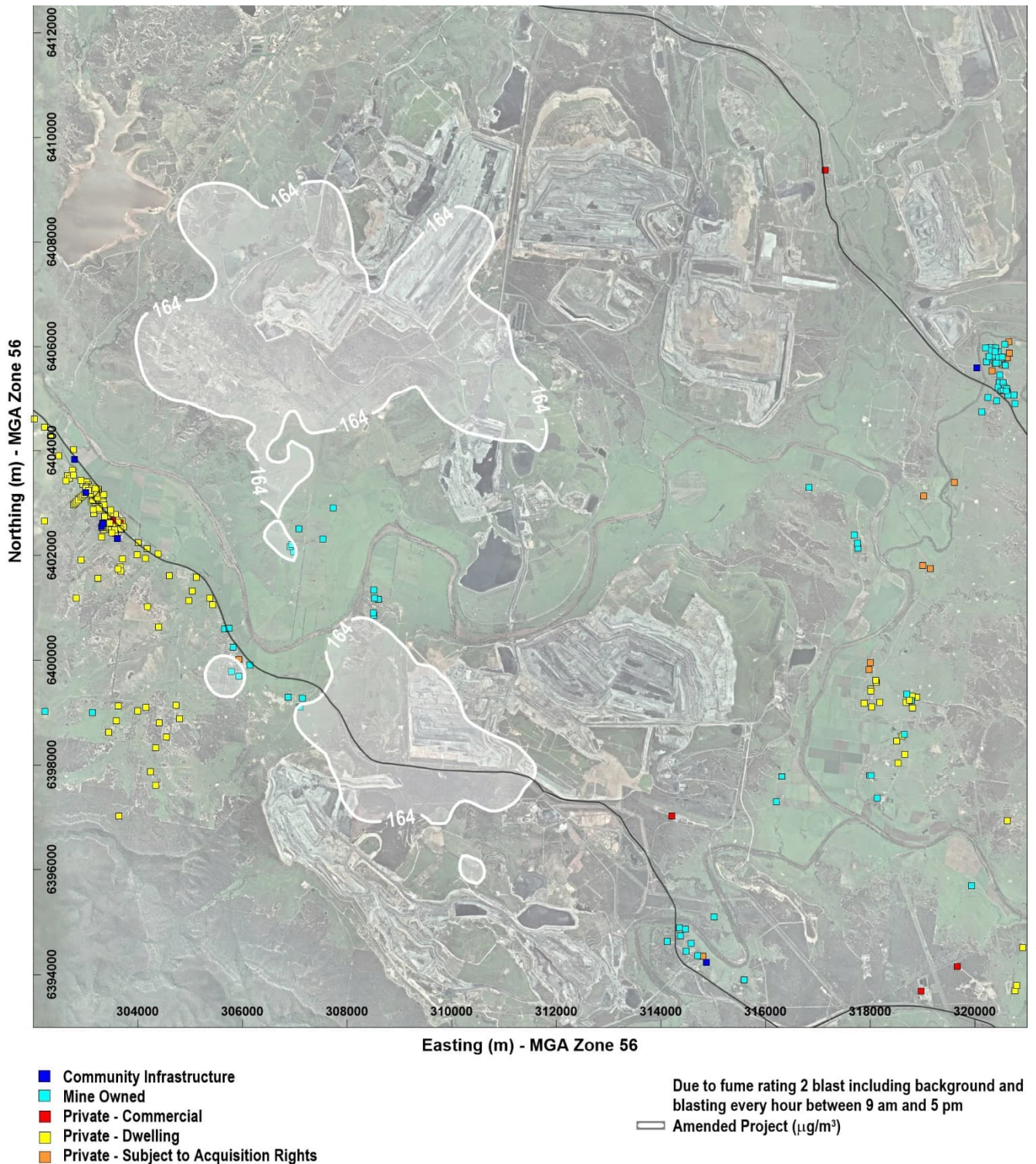


Figure 27 Modelled 1-hour average NO₂ due to HVO (blasting) and other sources

6.3 Diesel Exhaust

Figure 28 shows the modelled maximum 1-hour average NO₂ concentrations due to diesel exhaust emissions at HVO (with the amended Project) based on the conservative methodology outlined in Section 5.3. These results include background levels and assume that 20% of the NO_x is NO₂ at the locations of maximum ground-level concentrations. Compliance with the EPA's 164 µg/m³ criterion is expected at all private sensitive receptors. Maximum 1-hour average NO₂ concentrations due to the amended Project are expected to be lower than the concentrations due to the original Project (as per Jacobs, 2022) at sensitive receptors.

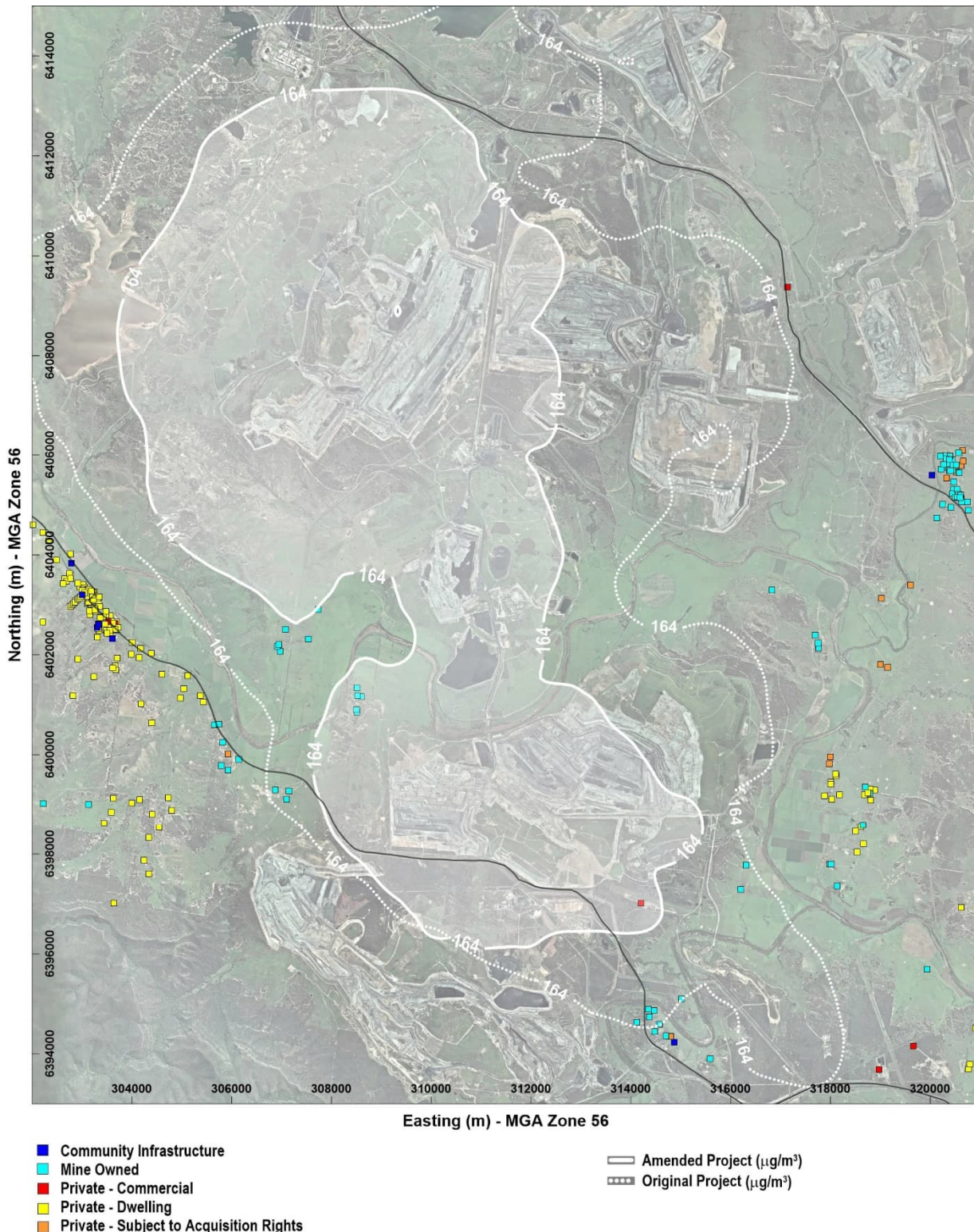


Figure 28 Modelled maximum 1-hour average NO₂ due to HVO (diesel exhausts) and other sources

Figure 29 shows the modelled annual average NO₂ concentrations due to diesel exhaust emissions at HVO Mine (with the amended Project). These results include background levels and assume that 100% of the NO_x is NO₂ (a conservative assumption). Compliance with the EPA's 31 µg/m³ criterion is expected at all private sensitive receptors. Annual average NO₂ concentrations due to the amended Project are expected to be lower than the concentrations due to the original Project (as per Jacobs, 2022) at sensitive receptors.

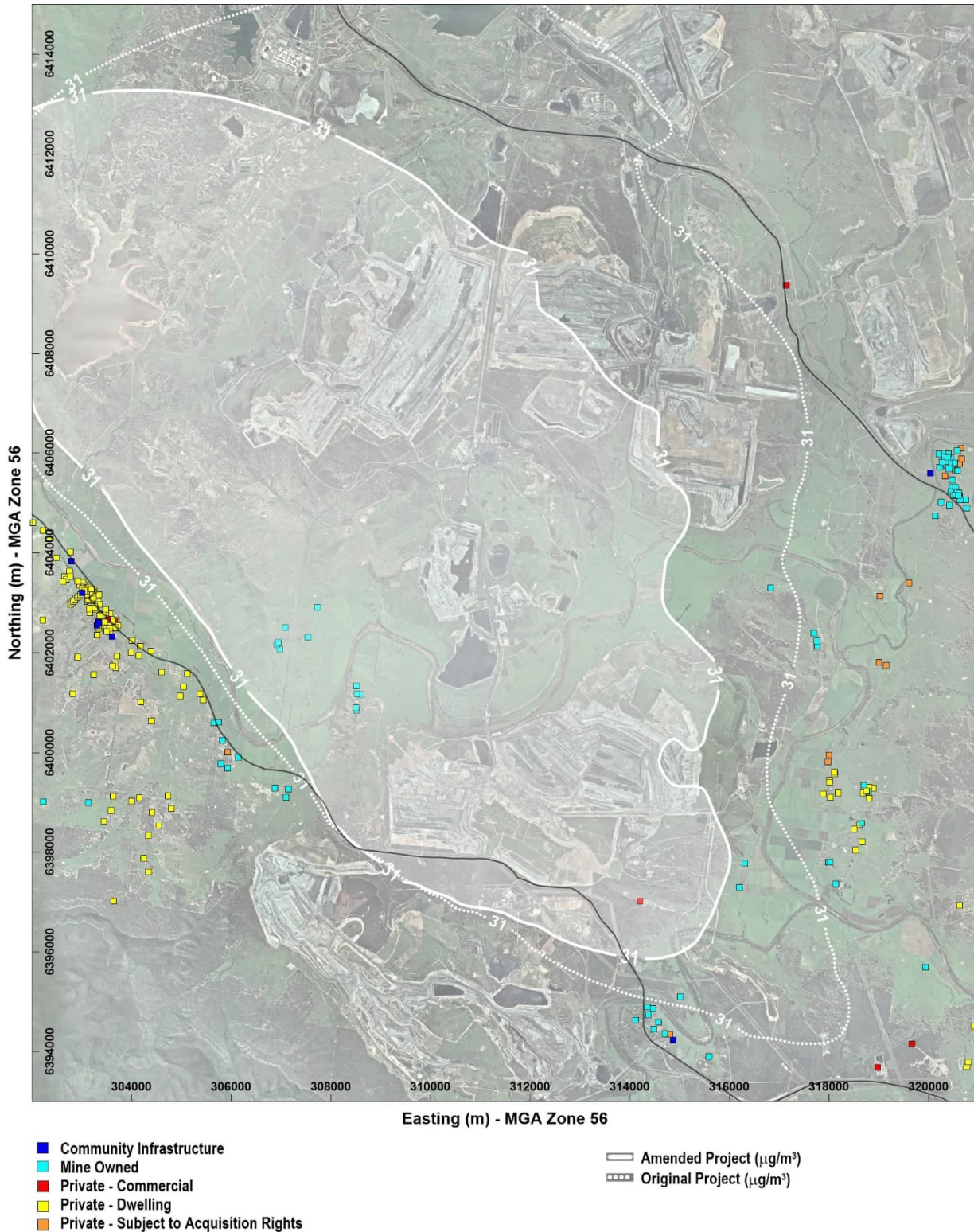


Figure 29 Modelled annual average NO₂ due to HVO (diesel exhausts) and other sources

7 Monitoring and Management

HVO is operated in accordance with the approved AQGGMP (HVO, 2025). Monitoring and management are discussed below in the context of the identified air quality issues for the amended Project.

7.1 Mining Dust

Table 19 summarises the standard emission management measures, currently implemented at HVO in accordance with the approved AQGGMP (HVO, 2025). These measures will continue to be adopted as part of the amended Project.

The dust management measures proposed for the amended Project have been compared to the measures outlined in the "NSW Coal Benchmarking Study: International Best Practice Measures to Prevent and/or Minimise Emissions of Particulate Matter from Coal Mining" (Donnelly et al, 2011). This comparison, as per Table 19, shows that the proposed measures are consistent with best practice dust mitigation measures. In some instances, Donnelly et al (2011) identified control measures that were not common practice, or reasonable and/or feasible to apply at any mine in NSW. For example, air extraction to bag filters for drilling operations.

Table 19 Air quality management measures

| Activity | Emission management measures | Assumed emission control (%) (NPI, 2012, Donnelly et al, 2011) | Measures identified from Donnelly et al (2011) | Consistent with best practice |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Topsoil stripping | Watering of haul routes Restricting vehicle speeds Modifying or ceasing operations during adverse dust conditions Minimise advance clearing to reduce exposed area for wind erosion | 50 | Control measures for this activity are not specifically identified but can be inferred from the bulldozer information below. | Y |
| Drilling | Use of water suppression during drilling Dust curtains Modifying or ceasing operations during adverse dust conditions | 70 | "Best practice control measures include air extraction to a bag filter. No mines were found to use this practice." | N |
| Blasting | Pre-blast checks including review of meteorological conditions | 0 | "Best practice control measures include delaying shot to avoid unfavourable weather conditions and minimising the area blasted" | Y |
| Hauling overburden / coal | Watering of haul routes Regular maintenance of haul routes Restricting vehicle speeds Clearly marked haul routes Fleet optimisation to reduce vehicle kilometres travelled | 85 | "Control measures include watering, grading, well-defined haul routes, speed limits to 40 km/h and/or the use of suppressants." | Y |
| Loading and unloading of overburden | Minimisation of material drop height during loading Having less wind exposed dump locations to use during high wind conditions Modifying or ceasing operations during adverse dust conditions | 0 | "Current practices adopted to control emissions from loading and dumping overburden were found to be water application, minimisation of drop heights and suspension or modification of activities during adverse weather conditions. Best practice control measures were identified as minimising drop heights and / or the application of water". | Y |
| Unloading coal to ROM hoppers | Water sprays | 70 | "Best practice control measures for minimising emissions from the ROM hopper is enclosure with air extraction to a fabric filter or other control device. No mines in the greater metropolitan region adopt this approach. | N |
| Handling coal at CHPP | Water sprays | 70 | Control measures for this process are not specifically identified. | N/A |

| Activity | Emission management measures | Assumed emission control (%) (NPI, 2012, Donnelly et al, 2011) | Measures identified from Donnelly et al (2011) | Consistent with best practice |
|--------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Dozers on coal stockpiles | Modify or cease operations during dusty conditions Reduced travel speed during dusty conditions | 50 | "Best practice control measures include minimising the travel speed and distance travelled by bulldozers and the application of water to keep travel routes moist" | Y |
| Conveyors | Covered / enclosure (where practicable) Belt cleaning Water sprays | 70 | "The use of wind shielding on conveyor sides, water sprays at conveyor transfers, enclosure of transfer points, and, soft-loading chutes." | Y |
| Wind erosion | Primary rehabilitation and temporary seeding/ stabilisation of long-term inactive overburden dumps. | 60 | "Control measures include watering exposed areas, minimising areas of disturbance, progressive rehabilitation and use of suppressants" | Y |
| Wind erosion from product stockpiles | Water sprays used in adverse wind conditions | 50 | Control measures include avoidance, surface stabilisation, enclosure, wind speed reduction. | Y |

In addition to the measures listed above and outlined in the AQGGMP, HVO currently implements, and would continue to implement, a Trigger Action Response Plan (TARP) which identifies specific air quality and meteorological conditions that, upon measurement, require action for managing dust.

As part of the implementation of the amended Project the existing AQGGMP will be reviewed and updated. The AQGGMP will be revised to detail the implementation of monitoring and management controls to manage air quality impacts as required. A review of the existing air quality monitoring locations will be undertaken as part of the revised AQGGMP, should the Project be approved. This review will also incorporate a review of the monitoring network to provide adequate coverage, particularly in areas identified by the modelling with a potential for increased air quality impact risk.

It is anticipated that the existing EPL will be revised under the NSW *Protection of the Environment (Operations) Act 1997* (POEO Act). Relevant to air quality, the EPL includes requirements to minimise dust emissions and to monitor air quality. Also relevant is the NSW *Protection of the Environment Operations (Clean Air) Regulation 2010* which prescribes requirements for motor vehicle emissions (among other sources). Motor vehicle emissions would be addressed by regular maintenance of all vehicles associated with the amended Project.

7.2 Post Blast Fume

HVO applies a pre-blasting risk assessment process which covers fume management. A site-specific blast management plan will be implemented during operations, including key fume management actions, such as defining the potential risk zone based upon weather patterns and obtaining permissions to fire based on an assessment of real-time weather conditions.

7.3 Diesel Exhaust

The proposed mitigation measures to manage diesel combustion emissions aim to address the equipment maintenance and engine replacement strategies from the "NSW Coal Mining Benchmarking Study: Best practice measures for reducing non-road diesel exhaust emissions" (EPA, 2014).

The emission control measures proposed by HVO include:

- Servicing all machinery in accordance with original equipment manufacturer recommendations for maintenance.
- Targeting the maintenance to ensure, as far as reasonably practical, equipment remains fit for purpose over its whole life cycle.

8 Conclusions

This report has provided an assessment of the potential air quality impacts of a proposed amended Project to the HVO Continuation Project. The potential air quality impacts of the original HVO Continuation Project were assessed by Jacobs (2022). This subsequent assessment of the amended Project has adopted a similar assessment approach but supplemented with more recent information on the existing environment.

In summary, the assessment has involved identifying the key air quality issues, characterising the existing environment, quantifying emissions to air and modelling to determine the potential impact of the amended Project on local air quality. The key air quality issues were identified as mining dust, post-blast fume and diesel exhaust. These issues were the focus of the assessment.

The key outcomes of the modelling and subsequent assessment are:

- Emissions from mining activities (i.e. particulate matter) may present an air quality impact risk with respect to PM₁₀. Specifically, there is potential risk that HVO influences an exceedance on 1 day at Jerrys Plains (for 2029 and 2034 scenario) and on 1 day at Maison Dieu (for 2034). The contributions of HVO to the selected locations on these days would be less than 11 µg/m³ and well below the air quality compliance criteria contained in the existing development consents. Nevertheless, it will be necessary for HVO to respond to any potential increases in offsite air quality risks and minimise its contribution to air quality. HVO is committed to proactively modifying or shutting down any activities that may be increasing the risk of air quality impacts. Modelling has shown that the implementation of modifying operations in response to the trigger levels defined in the AQGGMP can reduce HVO's contributions to air quality such that HVO would not be the cause of an exceedance. Modelling of annual average PM₁₀ concentrations showed compliance with air quality assessment criteria at all sensitive receptors. Concentrations of PM₁₀ due to the amended Project are expected to be lower than the concentrations due to the original Project at sensitive receptors.
- Emissions from mining activities (i.e. particulate matter) are not expected to result in any adverse air quality impacts with respect to PM_{2.5}. This outcome is based on modelling which showed compliance with air quality assessment criteria at all sensitive receptors. Concentrations of PM_{2.5} due to the amended Project are expected to be lower than the concentrations due to the original Project at sensitive receptors.
- Emissions from mining activities (i.e. particulate matter) are not expected to result in any adverse air quality impacts with respect to TSP. This outcome is based on modelling which showed compliance with air quality assessment criteria at all sensitive receptors. Concentrations of TSP due to the amended Project are expected to be lower than the concentrations due to the original Project at sensitive receptors.
- Emissions from mining activities (i.e. particulate matter) are not expected to result in any adverse air quality impacts with respect to deposited dust. This outcome is based on modelling which showed compliance with air quality assessment criteria at all sensitive receptors. Deposition levels due to the amended Project are expected to be lower than deposition levels due to the original Project at sensitive receptors.
- Dust concentrations and deposition levels would comply with NSW Government VLAMP criteria at all private sensitive receptors not subject to existing air quality acquisition rights with the exception of annual average PM₁₀, annual average PM_{2.5} and annual average deposited dust at Lot 8//3005 (Property 121). The number of lots with risk of a VLAMP exceedance is expected to reduce with the amended Project, relative to the original Project.
- Emissions associated with post blast fume are not expected to result in any adverse air quality impacts (as NO₂), based on modelling which showed compliance with air quality assessment criteria at all sensitive receptors. The amended Project will not change the proposed blasting activities, so potential impacts are expected to be similar to those of the original Project.
- Emissions from diesel exhausts associated with off-road vehicles and equipment are not expected to result in any adverse air quality impacts (as NO₂), based on modelling which showed compliance with air quality assessment criteria at all sensitive receptors. Concentrations of NO₂ concentrations due to the amended Project are expected to be lower than the concentrations due to the original Project at sensitive receptors.
- The existing AQGGMP will be reviewed and updated as part of the implementation of the amended Project. The AQGGMP will be revised to detail the implementation of monitoring and management controls to manage air quality impacts as required. A review of the monitoring will also be carried out to check that the network provides adequate coverage, particularly in areas identified by the modelling with a potential for increased air quality impact risk.

Based on this assessment, it has been concluded that the amended Project is unlikely to affect air quality beyond the range of historically measured fluctuations of key air quality indicators around the region. In addition, it is relevant to note that the amended Project is expected to result in a lower air quality risk than the original Project. This is largely because the amended Project proposes significantly (approximately 23%) lower quantities of material moved in each year. As such, particulate matter emissions and impacts are expected to be lower than originally estimated.

9 References

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Annexure A. Model settings

Geophysical

Figure A1 shows the model grid, land-use and terrain information, as used by CALMET.

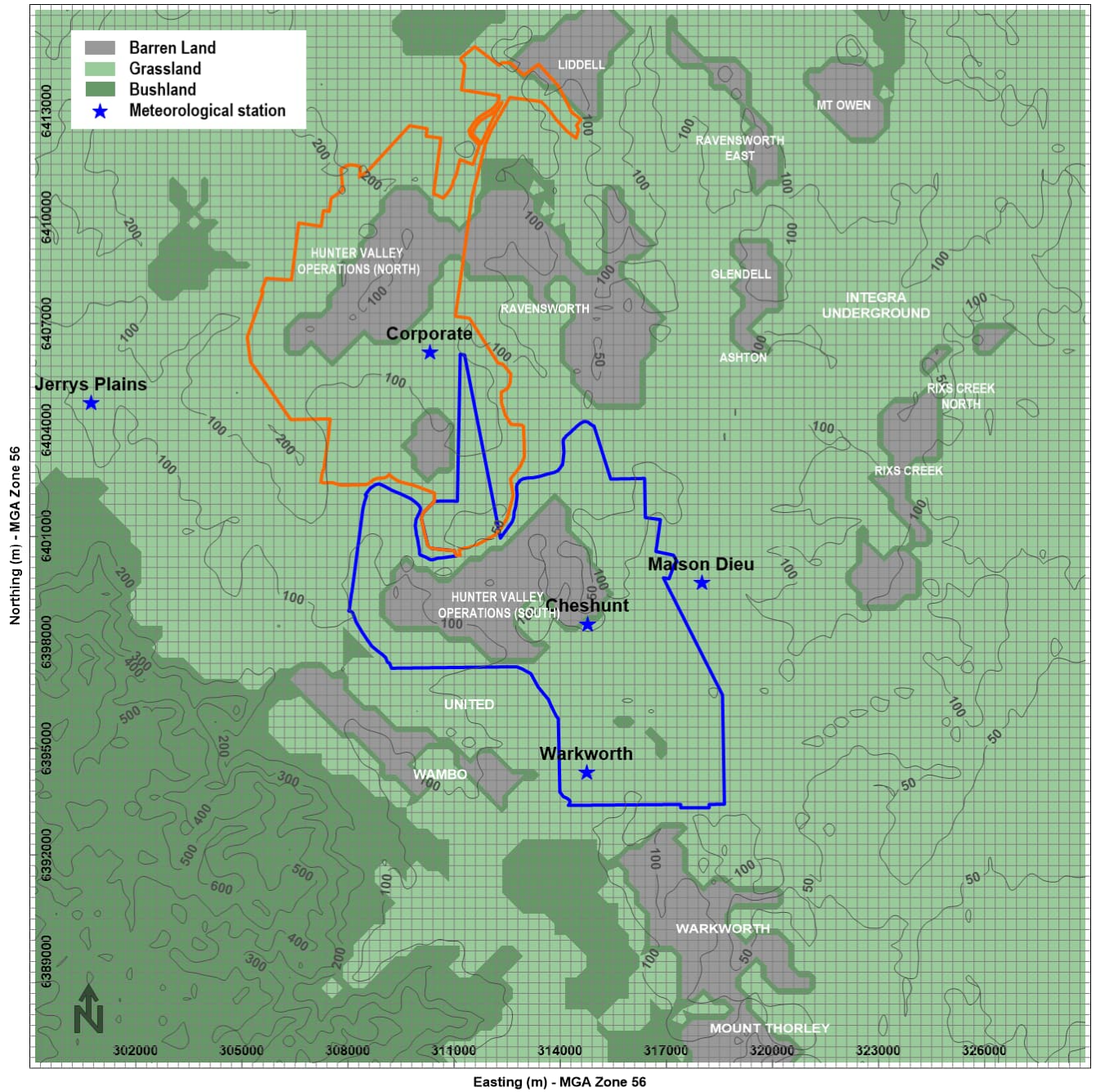


Figure A1 Model domain, grid, land use and terrain information

Meteorology

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

Table A1 Model settings and inputs for TAPM

| Parameter | Value(s) |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|
| Model version | 4.0.5 |
| Number of grids (spacing) | 4 (30 km, 10 km, 3 km, 1 km) |
| Number of grids point | 35 x 35 x 25 |
| Year(s) of analysis | Jan 2024 to Dec 2024 |
| Centre of analysis | 32°29' S, 151°00' E |
| Terrain data source | 30 m Shuttle Research Topography Mission (SRTM) |
| Land use data source | Default |
| Meteorological data assimilation | Corporate meteorological station. Radius of influence = 15 km. Number of vertical levels for assimilation = 4 |

Table A2 Model settings and inputs for CALMET

| Parameter | Value(s) |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model version | 6.334 |
| Terrain data source(s) | 30 m SRTM and Project DEM. Higher resolution topographical data were not necessary in order to develop wind fields that reflect the influence of terrain and effects that are important for dispersion of emissions from the project to the sensitive receptor areas. |
| Land use data source(s) | Digitised from aerial imagery |
| Meteorological grid domain | 30 km x 30 km |
| Meteorological grid resolution | 0.3 km |
| Meteorological grid dimensions | 100 x 100 x 9 grid points |
| Meteorological grid origin | 299000 mE, 6386000 mN. MGA Zone 56 |
| Surface meteorological stations | Corporate: wind speed, wind direction Cheshunt: wind speed, wind direction Jerrys Plains: wind speed, wind direction, temperature, relative humidity Maison Dieu: wind speed, wind direction, temperature, relative humidity Warkworth: wind speed, wind direction, temperature, relative humidity TAPM (at location of Corporate): ceiling height, cloud cover and air pressure |
| Upper air meteorological stations | Upper air data file for the location of the Corporate meteorological station, derived by TAPM. Biased towards surface observations (-1, -0.8, -0.6, -0.4, -0.2, 0, 0, 0, 0) |
| Simulation length | 8784 hours (1 Jan 2024 to 31 Dec 2024) |
| R1, R2 | 0.5, 1 |
| RMAX1, RMAX2 | 5, 20 |
| TERRAD | 5 |

Figure A2 shows a snapshot of winds at 10 metres above ground-level as simulated by the CALMET model under stable conditions. This plot shows the effect of the topography on local winds, for this particular hour, and highlights the non-uniform wind patterns in the area, further supporting the use of a non-steady-state model such as CALPUFF.

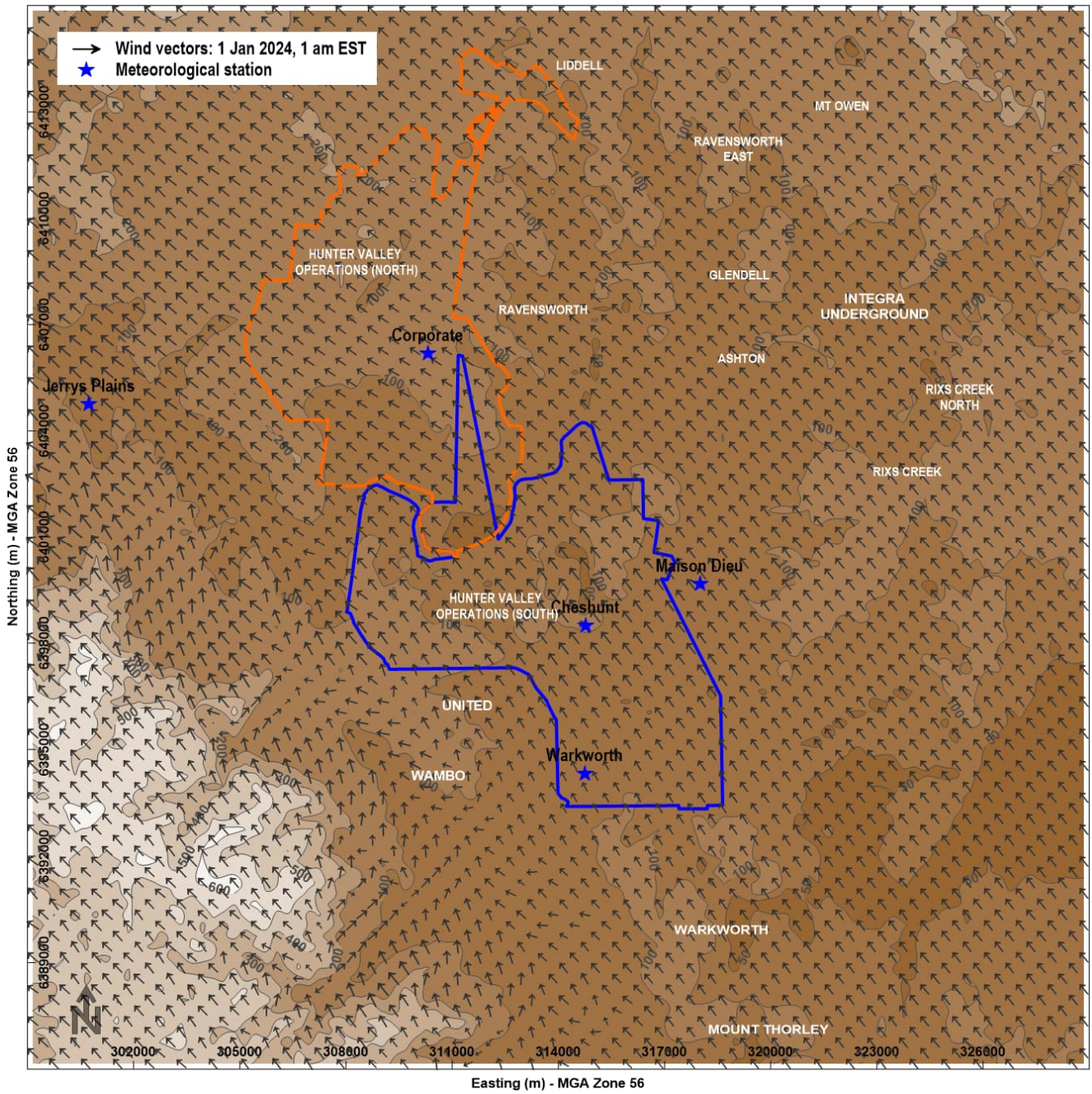


Figure A2 Example of CALMET simulated ground-level wind flows

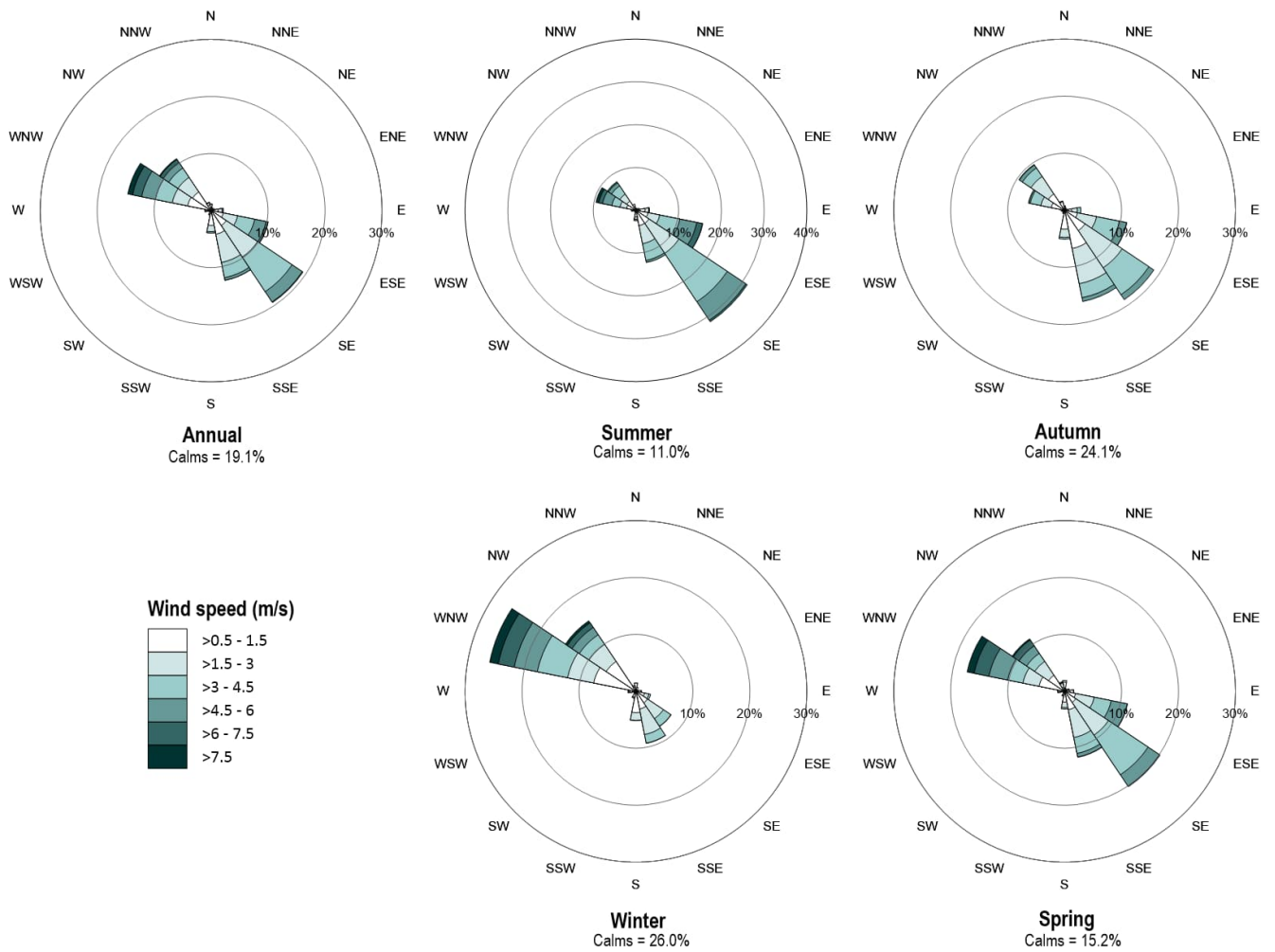


Figure A3 Annual and seasonal wind-roses from modelled data for the Corporate site in 2024

Table A3 shows the model settings and input for the dispersion model, CALPUFF.

Table A3 Model settings and inputs for CALPUFF

| Parameter | Value(s) |
|------------------------------|------------------------------------------------|
| Model version | 6.42 |
| Computational grid domain | 100 x 100 |
| Chemical transformation | None |
| Dry deposition | Yes |
| Wind speed profile | ISC rural |
| Puff element | Puff |
| Dispersion option | Turbulence from micrometeorology |
| Time step | 3600 seconds (1 hour) |
| Terrain adjustment | Partial plume path |
| Number of volume sources | See below. Height = 5 m, SY = 20 m, SZ = 10 m. |
| Number of discrete receptors | 1174. See below. |

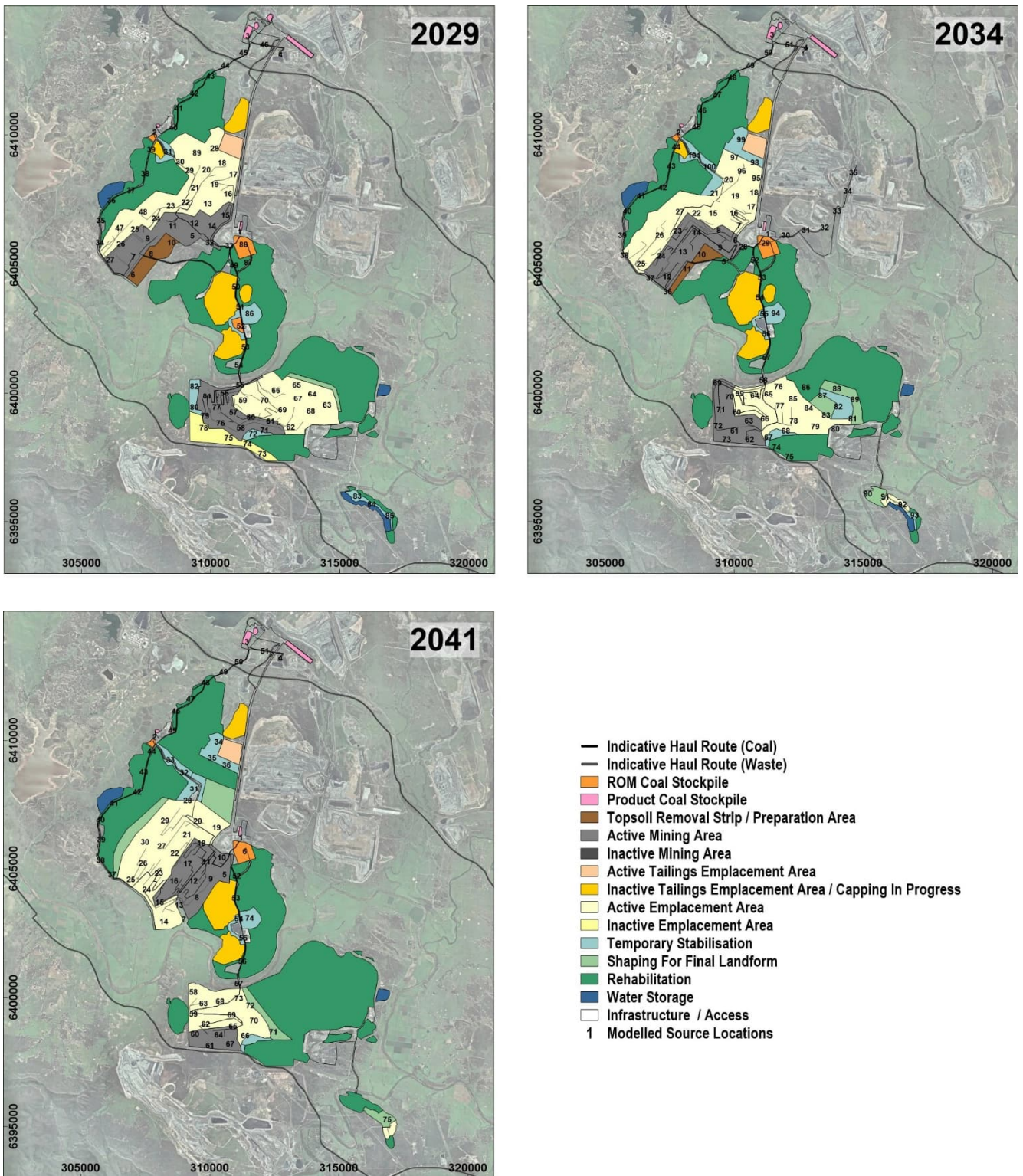


Figure A4 Modelled source locations (HVO)

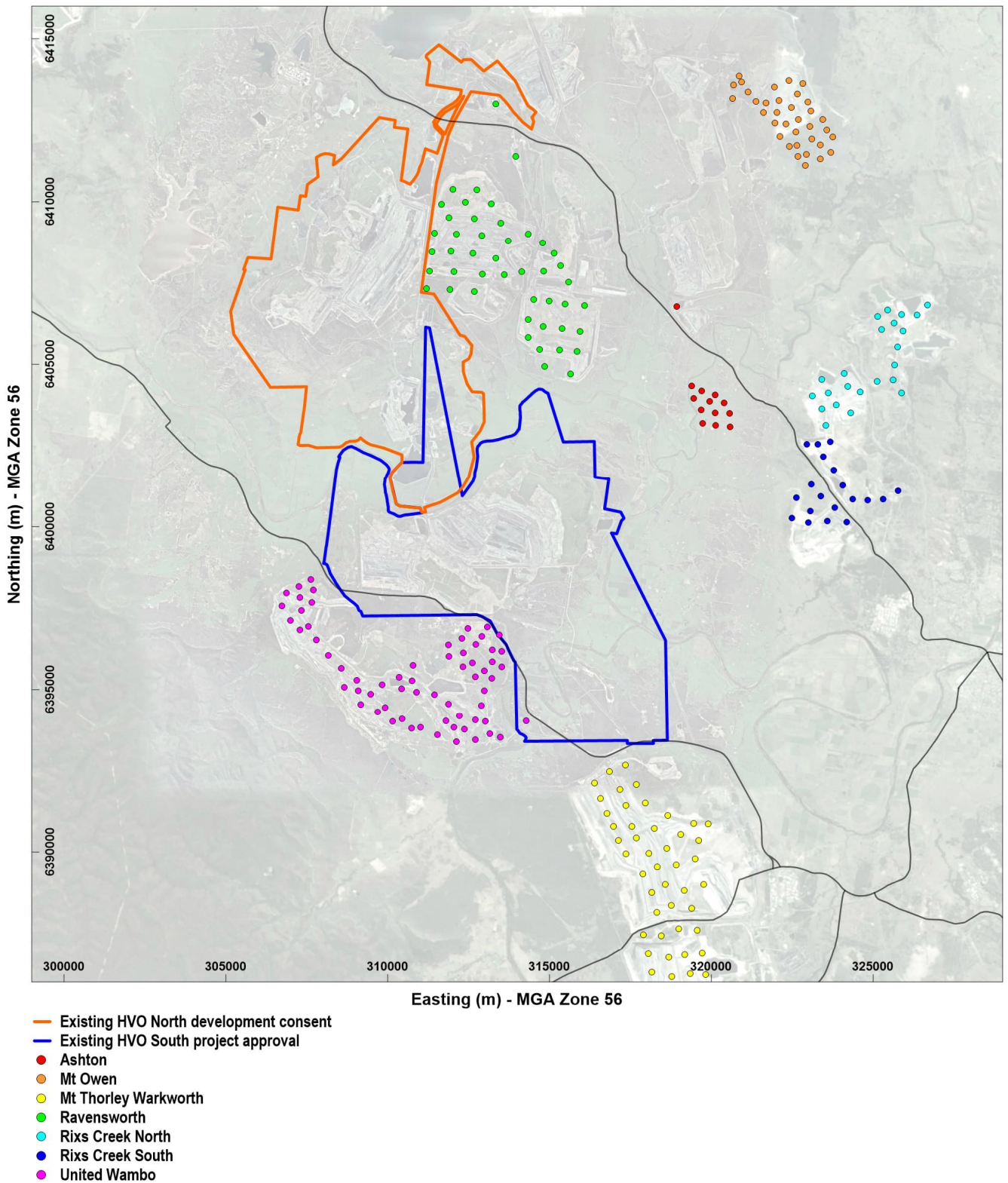


Figure A5 Modelled source locations (other mines)

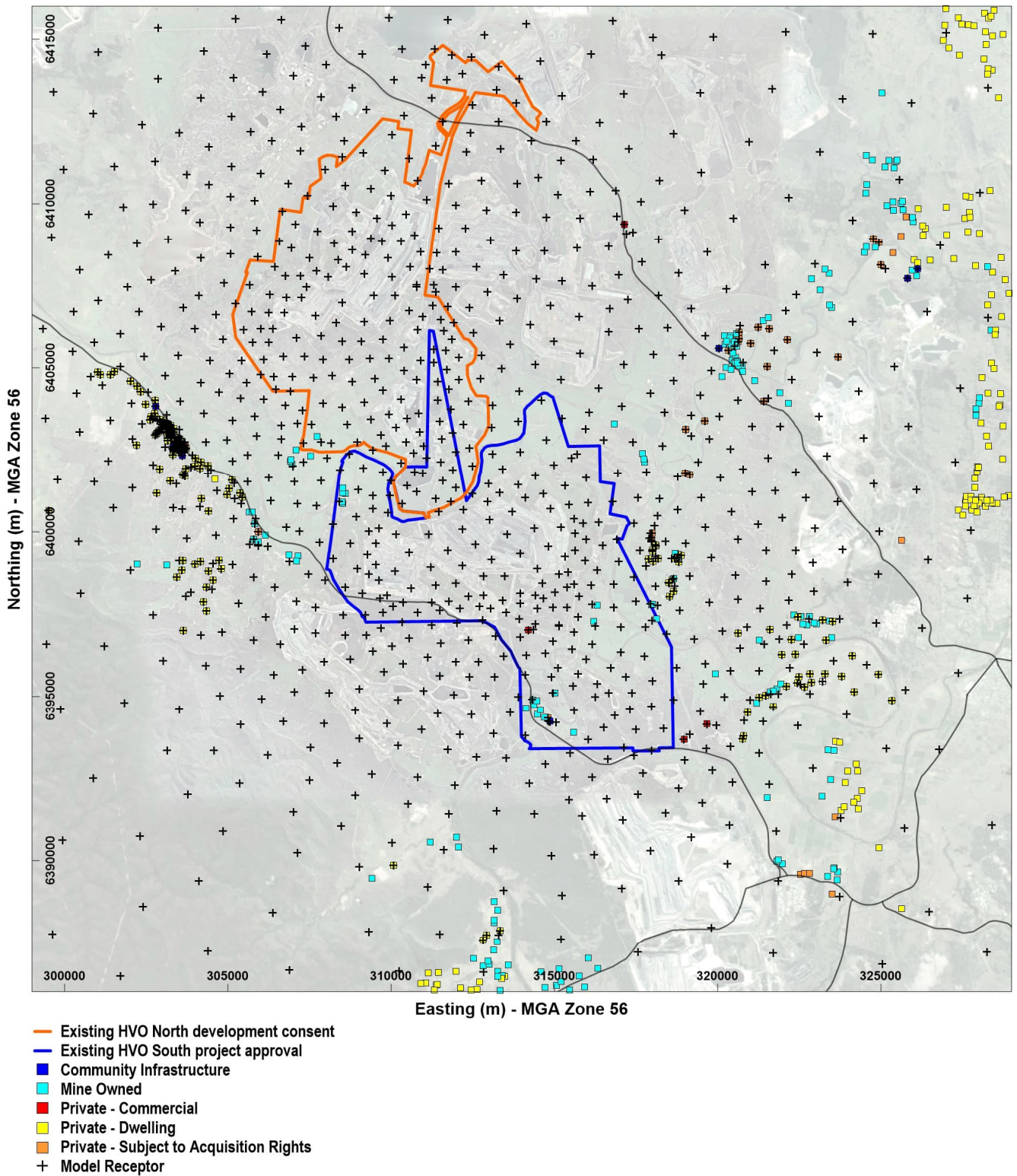


Figure A6 Model receptor locations

Annexure B. Emission calculations

Emission factors

| Activity | Emission factor | | | Units | Source |
|---------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|----------|--------------|
| | TSP | PM ₁₀ | PM _{2.5} | | |
| Stripping topsoil | $E_{TSP} = 0.029$ | $E_{PM10} = 0.0073 \times E_{TSP}$ | $E_{PM2.5} = 0.05 \times E_{TSP}$ | kg/t | US EPA / NPI |
| Drilling | $E_{TSP} = 0.59$ | $E_{PM10} = 0.52 \times E_{TSP}$ | $E_{PM2.5} = 0.03 \times E_{TSP}$ | kg/hole | US EPA / NPI |
| Blasting | $E_{TSP} = 0.00022 \times A^{1.5}$ | $E_{PM10} = 0.52 \times E_{TSP}$ | $E_{PM2.5} = 0.03 \times E_{TSP}$ | kg/blast | US EPA / NPI |
| Loading material / dumping overburden | $E_{TSP} = 0.74 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | $E_{PM10} = 0.35 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | $E_{PM2.5} = 0.053 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | kg/t | US EPA / NPI |
| Hauling on unsealed roads | $E_{TSP} = 4$ | $E_{PM10} = 0.3 \times E_{TSP}$ | $E_{PM2.5} = 0.03 \times E_{TSP}$ | kg/VKT | SPCC |
| Dozers shaping overburden | $E_{TSP} = 2.6 \times (S^{1.2}/M^{1.3})$ | $E_{PM10} = 0.3375 \times (S^{1.5}/M^{1.4})$ | $E_{PM2.5} = 0.105 \times E_{TSP}$ | kg/hour | US EPA / NPI |
| Dozers working on coal | $E_{TSP} = 35.6 \times (S^{1.2}/M^{1.3})$ | $E_{PM10} = 6.33 \times (S^{1.5}/M^{1.4})$ | $E_{PM2.5} = 0.022 \times E_{TSP}$ | kg/hour | US EPA / NPI |
| Loading coal | $E_{TSP} = 0.58 / M^{1.2}$ | $E_{PM10} = 0.0447 / M^{0.9}$ | $E_{PM2.5} = 0.019 \times E_{TSP}$ | kg/t | US EPA / NPI |
| Unloading coal | $E_{TSP} = 0.01$ | $E_{PM10} = 0.0042$ | $E_{PM2.5} = 0.019 \times E_{TSP}$ | kg/t | NPI |
| Miscellaneous transfer | $E_{TSP} = 0.74 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | $E_{PM10} = 0.35 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | $E_{PM2.5} = 0.053 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | kg/t | US EPA / NPI |
| Loading product coal to trains | $E_{TSP} = 0.0004$ | $E_{PM10} = 0.00017$ | $E_{PM2.5} = 0.05 \times E_{TSP}$ | kg/t | NPI |
| Wind erosion from exposed areas | $E_{TSP} = 0.1$ | $E_{PM10} = 0.5 \times E_{TSP}$ | $E_{PM2.5} = 0.075 \times E_{TSP}$ | kg/ha/h | US EPA |
| Grading roads | $E_{TSP} = 0.0034 \times s^{2.5}$ | $E_{PM10} = 0.00336 \times s^2$ | $E_{PM2.5} = 0.0001054 \times s^{2.5}$ | kg/VKT | US EPA / NPI |

A = blast area (m²)
 U = wind speed (m/s)
 M = moisture content (%)
 S = silt content (%)
 s = speed (km/h)

56 57 58 60 61 71 76 77 79 80 81
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ACTIVITY NAME : Loading ROM coal to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 589277 kg/y TSP 84747 kg/y PM10 11196 kg/y PM2.5
FROM SOURCES : 11
56 57 58 60 61 71 76 77 79 80 81
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 479731 kg/y TSP 141764 kg/y PM10 14392 kg/y PM2.5
FROM SOURCES : 18
49 50 51 52 53 54 55 56 57 58 60 61 71 76 77 79 80 81
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 18571 kg/y TSP 7800 kg/y PM10 353 kg/y PM2.5
FROM SOURCES : 1
88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 37141 kg/y TSP 15599 kg/y PM10 706 kg/y PM2.5
FROM SOURCES : 1
88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1

HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 361 kg/y TSP 171 kg/y PM10 26 kg/y PM2.5
FROM SOURCES : 1
88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HVCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1804 kg/y TSP 853 kg/y PM10 26 kg/y PM2.5
FROM SOURCES : 1
88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at RCHPP (RSO)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at LCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers / loaders on ROM coal stockpiles
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers on product coal stockpiles
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Conveyor to product stockpiles
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling product from HCHPP to Newdell LP
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Loading product coal to trains
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Wind erosion from active and inactive pits
ACTIVITY TYPE : Wind erosion

Annexure C. Tabulated model results

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

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | Project (HVO S) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | | | |
|-----------------|-----------------------------------------|----------------------------------|----------------------------------|-----------------|------|------|------|-----------------|------|------|------|-----------------------|------|------|------|------------|------|------|------|----------|---|-----|-----|-----|-----|---|---|----|
| | | | | 2024 | 2029 | 2044 | 2041 | 2024 | 2029 | 2044 | 2041 | 2024 | 2029 | 2044 | 2041 | 2024 | 2029 | 2044 | 2041 | | | | | | | | | |
| D119 | Monitor | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 9 | 17 | 13 | 10 | 0 | 0 | 9 | 17 | 15 | 14 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| DL14 | Monitor | - | - | 7 | 8 | 14 | 15 | 0 | 0 | 10 | 12 | 6 | 2 | 0 | 0 | 15 | 18 | 19 | 16 | 0 | 0 | 47 | 49 | 52 | 47 | 0 | 0 | 50 |
| Warkworth | Monitor | - | - | 2 | 2 | 4 | 6 | 0 | 0 | 9 | 26 | 18 | 10 | 0 | 0 | 10 | 29 | 22 | 15 | 0 | 0 | 58 | 53 | 54 | 58 | 0 | 0 | 50 |
| D118 | Monitor | - | - | 3 | 4 | 6 | 11 | 0 | 0 | 6 | 11 | 15 | 5 | 0 | 0 | 37 | 32 | 30 | 33 | 0 | 0 | 57 | 59 | 57 | 57 | 0 | 0 | 50 |
| Knollers Lane | Monitor | - | - | 5 | 6 | 10 | 13 | 0 | 0 | 14 | 19 | 12 | 6 | 0 | 0 | 14 | 19 | 17 | 14 | 0 | 0 | 47 | 49 | 50 | 47 | 0 | 0 | 50 |
| DL22 | Monitor | - | - | 4 | 5 | 8 | 12 | 0 | 0 | 26 | 31 | 14 | 9 | 0 | 0 | 27 | 32 | 17 | 14 | 0 | 0 | 53 | 55 | 51 | 47 | 0 | 0 | 50 |
| DL21 | Monitor | - | - | 5 | 7 | 11 | 14 | 0 | 0 | 14 | 19 | 10 | 4 | 0 | 0 | 16 | 20 | 18 | 16 | 0 | 0 | 48 | 49 | 50 | 47 | 0 | 0 | 50 |
| D122 | Monitor | - | - | 3 | 4 | 6 | 10 | 0 | 0 | 9 | 12 | 7 | 4 | 0 | 0 | 10 | 13 | 9 | 10 | 0 | 0 | 48 | 50 | 50 | 45 | 0 | 0 | 50 |
| DL30 | Monitor | - | - | 3 | 4 | 6 | 10 | 0 | 0 | 28 | 53 | 36 | 20 | 0 | 0 | 30 | 58 | 39 | 20 | 0 | 0 | 61 | 71 | 63 | 50 | 0 | 0 | 50 |
| DL2 | Monitor | - | - | 12 | 14 | 24 | 32 | 0 | 0 | 37 | 31 | 15 | 5 | 0 | 0 | 37 | 32 | 30 | 33 | 0 | 0 | 57 | 59 | 57 | 57 | 0 | 0 | 50 |
| Warkworth | Monitor | - | - | 2 | 2 | 4 | 6 | 0 | 0 | 9 | 26 | 18 | 10 | 0 | 0 | 10 | 29 | 22 | 15 | 0 | 0 | 58 | 53 | 54 | 58 | 0 | 0 | 50 |
| Cheshunt East | Monitor | - | - | 15 | 19 | 32 | 31 | 0 | 0 | 30 | 27 | 9 | 4 | 0 | 0 | 30 | 27 | 36 | 32 | 0 | 0 | 57 | 64 | 68 | 57 | 0 | 0 | 50 |
| Long Point | Monitor | - | - | 3 | 4 | 6 | 8 | 0 | 0 | 10 | 14 | 9 | 4 | 0 | 0 | 12 | 15 | 10 | 9 | 0 | 0 | 49 | 51 | 51 | 45 | 0 | 0 | 50 |
| Kilburnie South | Monitor | - | - | 3 | 4 | 6 | 11 | 0 | 0 | 6 | 19 | 15 | 6 | 0 | 0 | 8 | 21 | 20 | 14 | 0 | 0 | 50 | 49 | 50 | 48 | 0 | 0 | 50 |
| Wandewai | Monitor | - | - | 11 | 14 | 25 | 46 | 0 | 0 | 23 | 65 | 62 | 35 | 0 | 0 | 24 | 66 | 65 | 51 | 0 | 0 | 50 | 87 | 84 | 72 | 0 | 0 | 50 |
| Hewick | Monitor | - | - | 141 | 142 | 148 | 100 | 0 | 0 | 111 | 12 | 77 | 2 | 0 | 0 | 150 | 154 | 155 | 102 | 0 | 0 | 188 | 195 | 176 | 104 | 0 | 0 | 50 |
| Golden Highway | Monitor | - | - | 2 | 2 | 3 | 5 | 0 | 0 | 10 | 24 | 13 | 7 | 0 | 0 | 12 | 22 | 16 | 9 | 0 | 0 | 166 | 174 | 174 | 49 | 0 | 0 | 50 |
| HCl Conveyor | Monitor | - | - | 220 | 227 | 506 | 140 | 0 | 0 | 23 | 24 | 19 | 6 | 0 | 0 | 222 | 230 | 511 | 141 | 0 | 0 | 285 | 317 | 608 | 144 | 0 | 0 | 50 |
| Maison Dieu | Monitor | - | - | 7 | 8 | 14 | 15 | 0 | 0 | 9 | 11 | 6 | 2 | 0 | 0 | 15 | 18 | 19 | 16 | 0 | 0 | 47 | 49 | 52 | 47 | 0 | 0 | 50 |
| Warkworth | Monitor | - | - | 2 | 2 | 3 | 5 | 0 | 0 | 7 | 20 | 14 | 8 | 0 | 0 | 8 | 22 | 17 | 11 | 0 | 0 | 105 | 109 | 109 | 70 | 0 | 0 | 50 |
| Knollers Lane | Monitor | - | - | 5 | 6 | 9 | 12 | 0 | 0 | 24 | 25 | 13 | 8 | 0 | 0 | 25 | 25 | 18 | 15 | 0 | 0 | 52 | 53 | 51 | 47 | 0 | 0 | 50 |
| Jerrys Plains | Monitor | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 5 | 11 | 8 | 6 | 0 | 0 | 6 | 12 | 10 | 10 | 0 | 0 | 43 | 44 | 43 | 43 | 0 | 0 | 50 |
| Cheshunt East | Monitor | - | - | 15 | 19 | 32 | 31 | 0 | 0 | 30 | 27 | 9 | 4 | 0 | 0 | 30 | 27 | 36 | 32 | 0 | 0 | 57 | 64 | 68 | 57 | 0 | 0 | 50 |
| HVGC | Monitor | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 27 | 61 | 43 | 25 | 0 | 0 | 29 | 63 | 47 | 28 | 0 | 0 | 72 | 88 | 77 | 58 | 0 | 0 | 50 |
| Long Point | Monitor | - | - | 3 | 4 | 6 | 8 | 0 | 0 | 10 | 14 | 9 | 4 | 0 | 0 | 12 | 15 | 10 | 9 | 0 | 0 | 49 | 51 | 51 | 45 | 0 | 0 | 50 |
| Kilburnie South | Monitor | - | - | 3 | 4 | 6 | 11 | 0 | 0 | 6 | 19 | 15 | 6 | 0 | 0 | 8 | 21 | 20 | 14 | 0 | 0 | 50 | 49 | 50 | 48 | 0 | 0 | 50 |
| Kilburnie South | Monitor | - | - | 3 | 4 | 6 | 11 | 0 | 0 | 6 | 19 | 15 | 6 | 0 | 0 | 8 | 21 | 20 | 14 | 0 | 0 | 50 | 49 | 50 | 48 | 0 | 0 | 50 |
| Maison Dieu | Monitor | - | - | 7 | 8 | 14 | 15 | 0 | 0 | 9 | 12 | 6 | 2 | 0 | 0 | 15 | 18 | 19 | 16 | 0 | 0 | 47 | 49 | 52 | 47 | 0 | 0 | 50 |
| Maison Dieu | Monitor | - | - | 7 | 8 | 14 | 15 | 0 | 0 | 9 | 12 | 6 | 2 | 0 | 0 | 15 | 18 | 19 | 16 | 0 | 0 | 47 | 49 | 52 | 47 | 0 | 0 | 50 |
| Knollers Lane | Monitor | - | - | 5 | 6 | 10 | 13 | 0 | 0 | 14 | 19 | 12 | 6 | 0 | 0 | 14 | 19 | 17 | 14 | 0 | 0 | 47 | 49 | 50 | 47 | 0 | 0 | 50 |
| 17 | Private - Dwelling | - | - | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 2 | 2 | 2 | 0 | 0 | 43 | 44 | 44 | 41 | 0 | 0 | 50 |
| 19 | Private - Dwelling | - | - | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 2 | 2 | 2 | 0 | 0 | 44 | 44 | 44 | 41 | 0 | 0 | 50 |
| 37 | Private - Dwelling | - | - | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 3 | 2 | 2 | 0 | 0 | 45 | 45 | 45 | 41 | 0 | 0 | 50 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) (SSD6464) | Warkworth (Noise & AQ) (SSD6464) | 2 | 2 | 3 | 5 | 0 | 0 | 7 | 21 | 15 | 8 | 0 | 0 | 9 | 23 | 18 | 12 | 0 | 0 | 101 | 105 | 106 | 71 | 0 | 0 | 50 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 5 | 6 | 10 | 13 | 0 | 0 | 14 | 19 | 12 | 6 | 0 | 0 | 14 | 19 | 17 | 14 | 0 | 0 | 47 | 49 | 50 | 47 | 0 | 0 | 50 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 5 | 6 | 10 | 12 | 0 | 0 | 14 | 19 | 12 | 7 | 0 | 0 | 15 | 20 | 17 | 14 | 0 | 0 | 48 | 50 | 50 | 47 | 0 | 0 | 50 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 6 | 6 | 11 | 13 | 0 | 0 | 13 | 18 | 11 | 5 | 0 | 0 | 14 | 19 | 17 | 14 | 0 | 0 | 47 | 49 | 51 | 47 | 0 | 0 | 50 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 5 | 6 | 10 | 13 | 0 | 0 | 14 | 19 | 12 | 6 | 0 | 0 | 14 | 19 | 17 | 14 | 0 | 0 | 48 | 49 | 50 | 47 | 0 | 0 | 50 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 6 | 7 | 11 | 13 | 0 | 0 | 13 | 17 | 10 | 5 | 0 | 0 | 14 | 19 | 17 | 14 | 0 | 0 | 47 | 49 | 51 | 47 | 0 | 0 | 50 |
| 126 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 3 | 3 | 5 | 6 | 0 | 0 | 9 | 14 | 9 | 8 | 0 | 0 | 11 | 15 | 11 | 8 | 0 | 0 | 49 | 52 | 50 | 44 | 0 | 0 | 50 |
| 127 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 5 | 6 | 9 | 12 | 0 | 0 | 11 | 14 | 8 | 6 | 0 | 0 | 11 | 14 | 14 | 12 | 0 | 0 | 50 | 53 | 54 | 46 | 0 | 0 | 50 |
| 128 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 3 | 4 | 6 | 7 | 0 | 0 | 12 | 17 | 10 | 6 | 0 | 0 | 12 | 18 | 11 | 8 | 0 | 0 | 49 | 52 | 51 | 45 | 0 | 0 | 50 |
| 130 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 3 | 4 | 6 | 8 | 0 | 0 | 11 | 15 | 9 | 5 | 0 | 0 | 12 | 16 | 10 | 8 | 0 | 0 | 49 | 51 | 51 | 45 | 0 | 0 | 50 |
| 134 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 3 | 4 | 6 | 8 | 0 | 0 | 10 | 14 | 9 | 4 | 0 | 0 | 12 | 15 | 10 | 9 | 0 | 0 | 48 | 51 | 50 | 45 | 0 | 0 | 50 |
| 139 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 3 | 3 | 5 | 8 | 0 | 0 | 10 | 13 | 9 | 5 | 0 | 0 | 12 | 14 | 10 | 8 | 0 | 0 | 48 | 50 | 50 | 45 | 0 | 0 | 50 |
| 141 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 4 | 5 | 8 | 11 | 0 | 0 | 9 | 12 | 8 | 5 | 0 | 0 | 9 | 12 | 10 | 11 | 0 | 0 | 49 | 51 | 52 | 46 | 0 | 0 | 50 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 6 | 7 | 12 | 14 | 0 | 0 | 12 | 15 | 7 | 3 | 0 | 0 | 16 | 20 | 19 | 16 | 0 | 0 | 47 | 48 | 50 | 47 | 0 | 0 | 50 |
| 161 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 7 | 8 | 13 | 15 | 0 | 0 | 10 | 13 | 7 | 2 | 0 | 0 | 16 | 20 | 20 | 17 | 0 | 0 | 47 | 48 | 52 | 47 | 0 | 0 | 50 |
| 162 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 7 | 8 | 13 | 15 | 0 | 0 | 10 | 14 | 7 | 2 | 0 | 0 | 16 | 20 | 20 | 17 | 0 | 0 | 47 | 48 | 51 | 47 | 0 | 0 | 50 |
| 163 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 7 | 8 | 13 | 15 | 0 | 0 | 10 | 12 | 6 | 2 | 0 | 0 | 15 | 19 | 19 | 16 | 0 | 0 | 47 | 49 | 52 | 47 | 0 | 0 | 50 |
| 167 | Private - Dwelling | - | - | 4 | 5 | 8 | 11 | 0 | 0 | 8 | 10 | 7 | 5 | 0 | 0 | 8 | 11 | 10 | 11 | 0 | 0 | 49 | 51 | 52 | 45 | 0 | 0 | 50 |
| 169 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 9 | 12 | 7 | 5 | 0 | 0 | 9 | 12 | 10 | 11 | 0 | 0 | 49 | 51 | 52 | 45 | 0 | 0 | 50 |
| 170 | Private - Dwelling | - | - | 4 | 5 | 8 | 11 | 0 | 0 | 8 | 11 | 6 | 5 | 0 | 0 | 9 | 11 | 10 | 11 | 0 | 0 | 50 | 53 | 54 | 45 | 0 | 0 | 50 |
| 173 | Private - Dwelling | - | - | 3 | 4 | 6 | 10 | 0 | 0 | 10 | 13 | 8 | 4 | 0 | 0 | 11 | 15 | 10 | 10 | 0 | 0 | 48 | 50 | 51 | 45 | 0 | 0 | 50 |
| 174 | Private - Dwelling | - | - | 3 | 4 | 6 | 10 | 0 | 0 | 9 | 13 | 7 | 4 | 0 | 0 | 10 | 14 | 10 | 10 | 0 | 0 | 48 | 50 | 51 | 45 | 0 | 0 | 50 |
| 175 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 8 | 12 | 7 | 4 | 0 | 0 | 9 | 12 | 9 | 10 | 0 | 0 | 48 | 50 | 51 | 45 | 0 | 0 | 50 |
| 176 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 8 | 11 | 6 | 4 | 0 | 0 | 8 | 11 | 9 | 10 | 0 | 0 | 48 | 50 | 50 | 45 | 0 | 0 | 50 |
| 178 | Private - Dwelling | - | - | 4 | 5 | 8 | 10 | 0 | 0 | 7 | 9 | 6 | 4 | 0 | 0 | 7 | 9 | 9 | 10 | 0 | 0 | 47 | 49 | 50 | 45 | 0 | 0 | 50 |
| 179 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 6 | 9 | 5 | 4 | 0 | 0 | 7 | 10 | 9 | 10 | 0 | 0 | 46 | 48 | 49 | 45 | 0 | 0 | 50 |
| 244 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 7 | 8 | 13 | 14 | 0 | 0 | 9 | 12 | 6 | 2 | 0 | 0 | 14 | 18 | 19 | 15 | 0 | 0 | 48 | 50 | 53 | 47 | 0 | 0 | 50 |
| 245 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 7 | 8 | 13 | 14 | 0 | 0 | 9 | 12 | 6 | 2 | 0 | 0 | 14 | 18 | 19 | 15 | 0 | 0 | 48 | 49 | | | | | |

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

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | Project (HVO S) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | | | |
|-----|--------------------------|----------------------------|-----------------------------|-----------------|------|------|------|-----------------|------|------|------|-----------------------|------|------|------|------------|------|------|------|----------|---|----|----|----|----|---|---|----|
| | | | | 2024 | 2029 | 2041 | 2041 | 2024 | 2029 | 2041 | 2041 | 2024 | 2029 | 2041 | 2041 | 2024 | 2029 | 2041 | 2041 | | | | | | | | | |
| 368 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 17 | 15 | 13 | 0 | 0 | 44 | 47 | 46 | 44 | 0 | 0 | 50 |
| 369 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 9 | 17 | 12 | 9 | 0 | 0 | 9 | 17 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 370 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 16 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 371 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 16 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 372 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 16 | 14 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 373 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 16 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 374 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 16 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 375 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 16 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 376 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 9 | 17 | 12 | 9 | 0 | 0 | 9 | 17 | 15 | 13 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| 377 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 16 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 380 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 381 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 382 | Community Infrastructure | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 383 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 384 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 385 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 386 | Community Infrastructure | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 8 | 0 | 0 | 8 | 17 | 14 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 389 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 9 | 17 | 13 | 9 | 0 | 0 | 9 | 17 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 390 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 9 | 18 | 13 | 9 | 0 | 0 | 9 | 18 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 391 | Private - Commercial | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 9 | 18 | 13 | 9 | 0 | 0 | 9 | 18 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 392 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 9 | 18 | 13 | 9 | 0 | 0 | 9 | 18 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 393 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 9 | 18 | 13 | 9 | 0 | 0 | 9 | 18 | 14 | 13 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| 394 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 9 | 18 | 13 | 9 | 0 | 0 | 9 | 18 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 395 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 9 | 18 | 13 | 10 | 0 | 0 | 9 | 18 | 15 | 13 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| 396 | Community Infrastructure | - | - | 3 | 4 | 7 | 9 | 0 | 0 | 7 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 13 | 11 | 0 | 0 | 46 | 48 | 47 | 45 | 0 | 0 | 50 |
| 397 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 8 | 18 | 13 | 9 | 0 | 0 | 8 | 18 | 14 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 398 | Private - Dwelling | - | - | 3 | 4 | 7 | 9 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 13 | 12 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| 399 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 8 | 18 | 13 | 9 | 0 | 0 | 8 | 18 | 14 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 400 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 18 | 13 | 9 | 0 | 0 | 8 | 18 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 401 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 18 | 13 | 9 | 0 | 0 | 8 | 18 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 402 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 18 | 13 | 9 | 0 | 0 | 8 | 18 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 403 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 18 | 13 | 9 | 0 | 0 | 8 | 18 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 404 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 13 | 9 | 0 | 0 | 8 | 17 | 14 | 12 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| 405 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 18 | 13 | 9 | 0 | 0 | 8 | 18 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 406 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 13 | 9 | 0 | 0 | 8 | 17 | 14 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 407 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 8 | 0 | 0 | 8 | 17 | 13 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 408 | Private - Dwelling | - | - | 3 | 4 | 7 | 9 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 13 | 12 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| 409 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 8 | 0 | 0 | 8 | 17 | 13 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 410 | Community Infrastructure | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 8 | 0 | 0 | 8 | 17 | 14 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 411 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 8 | 0 | 0 | 8 | 17 | 14 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 412 | Community Infrastructure | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 7 | 16 | 12 | 8 | 0 | 0 | 7 | 16 | 13 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 413 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 7 | 17 | 12 | 8 | 0 | 0 | 7 | 17 | 13 | 12 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| 414 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 7 | 17 | 12 | 8 | 0 | 0 | 7 | 17 | 13 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 415 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 7 | 17 | 12 | 8 | 0 | 0 | 7 | 17 | 13 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 417 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 16 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 418 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 16 | 12 | 8 | 0 | 0 | 8 | 16 | 14 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 419 | Private - Dwelling | - | - | 3 | 4 | 6 | 9 | 0 | 0 | 7 | 16 | 11 | 8 | 0 | 0 | 7 | 16 | 12 | 11 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| 420 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 13 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 421 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 9 | 17 | 12 | 9 | 0 | 0 | 9 | 17 | 15 | 13 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| 422 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 9 | 17 | 12 | 9 | 0 | 0 | 9 | 17 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 423 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 9 | 17 | 13 | 9 | 0 | 0 | 9 | 17 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 425 | Private - Dwelling | - | - | 3 | 4 | 6 | 8 | 0 | 0 | 6 | 12 | 8 | 7 | 0 | 0 | 6 | 12 | 9 | 9 | 0 | 0 | 44 | 47 | 46 | 45 | 0 | 0 | 50 |
| 426 | Private - Dwelling | - | - | 3 | 4 | 6 | 8 | 0 | 0 | 6 | 12 | 8 | 7 | 0 | 0 | 6 | 13 | 10 | 9 | 0 | 0 | 44 | 48 | 46 | 45 | 0 | 0 | 50 |
| 427 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 7 | 14 | 10 | 8 | 0 | 0 | 7 | 14 | 11 | 12 | 0 | 0 | 45 | 49 | 47 | 46 | 0 | 0 | 50 |
| 428 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 7 | 14 | 10 | 8 | 0 | 0 | 7 | 14 | 11 | 11 | 0 | 0 | 45 | 49 | 47 | 46 | 0 | 0 | 50 |
| 429 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 18 | 13 | 10 | 0 | 0 | 8 | 18 | 13 | 12 | 0 | 0 | 46 | 49 | 47 | 46 | 0 | 0 | 50 |
| 430 | Private - Dwelling | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 8 | 15 | 11 | 9 | 0 | 0 | 8 | 15 | 11 | 11 | 0 | 0 | 45 | 49 | 47 | 46 | 0 | 0 | 50 |
| 431 | Private - Dwelling | - | - | 3 | 4 | 7 | 11 | 0 | 0 | 8 | 18 | 13 | 10 | 0 | 0 | 9 | 18 | 13 | 13 | 0 | 0 | 46 | 49 | 48 | 46 | 0 | 0 | 50 |
| 432 | Private - Dwelling | - | - | 3 | 4 | 6 | 10 | 0 | 0 | 6 | 14 | 9 | 8 | 0 | 0 | 6 | 14 | 12 | 11 | 0 | 0 | 44 | 48 | 47 | 46 | 0 | 0 | 50 |
| 433 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 3 | 3 | 6 | 9 | 0 | 0 | 7 | 14 | 10 | 8 | 0 | 0 | 7 | 14 | 11 | 12 | 0 | 0 | 44 | 47 | 46 | 44 | 0 | 0 | 50 |
| 434 | Private - Dwelling | - | - | 4 | 4 | 9 | 14 | 0 | 0 | 10 | 23 | 17 | 13 | 0 | 0 | 10 | 23 | 17 | 16 | 0 | 0 | 47 | 51 | 50 | 47 | 0 | 0 | 50 |
| 436 | Private - Dwelling | - | - | 3 | 4 | 8 | 13 | 0 | 0 | 9 | 20 | 14 | 12 | 0 | 0 | 10 | 20 | 14 | 15 | 0 | 0 | 47 | 52 | 49 | 48 | 0 | 0 | 50 |
| 437 | Private - Dwelling | - | - | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | |

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

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | Project (HVO S) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | | | |
|-----|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------|------|-----------------|------|------|------|-----------------------|------|------|------|------------|------|------|------|----------|---|----|----|----|----|---|---|----|
| | | | | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | | | | | | | | | |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rxs Creek North (Noise) [PA08_0102]; Rxs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rxs Creek South (AQ) [SSD 6300] | 9 | 10 | 16 | 12 | 0 | 0 | 4 | 6 | 4 | 2 | 0 | 0 | 10 | 12 | 16 | 12 | 0 | 0 | 60 | 63 | 63 | 42 | 0 | 0 | 50 |
| 621 | Private - Subject to Acquisition Rights | Rxs Creek North (Noise & AQ) [PA08_0102]; Rxs Creek South (AQ) [SSD 6300] | Rxs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-1] | 11 | 12 | 17 | 11 | 0 | 0 | 6 | 9 | 5 | 2 | 0 | 0 | 11 | 12 | 17 | 11 | 0 | 0 | 62 | 63 | 65 | 43 | 0 | 0 | 50 |
| 623 | Community Infrastructure | - | - | 11 | 12 | 19 | 15 | 0 | 0 | 5 | 6 | 4 | 2 | 0 | 0 | 11 | 13 | 20 | 15 | 0 | 0 | 59 | 61 | 63 | 43 | 0 | 0 | 50 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rxs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rxs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contiguous lots 1/248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 11 | 11 | 18 | 14 | 0 | 0 | 4 | 6 | 5 | 2 | 0 | 0 | 11 | 13 | 19 | 15 | 0 | 0 | 59 | 61 | 62 | 42 | 0 | 0 | 50 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rxs Creek North (Noise) [PA08_0102]; Rxs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rxs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 1/8/758214 and 2/8/758214 | 11 | 11 | 18 | 14 | 0 | 0 | 4 | 6 | 5 | 2 | 0 | 0 | 11 | 13 | 19 | 14 | 0 | 0 | 61 | 63 | 65 | 42 | 0 | 0 | 50 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rxs Creek North (Noise) [PA08_0102]; Rxs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rxs Creek South (AQ) [SSD 6300] | 10 | 11 | 17 | 13 | 0 | 0 | 4 | 6 | 4 | 2 | 0 | 0 | 11 | 13 | 18 | 14 | 0 | 0 | 62 | 65 | 65 | 42 | 0 | 0 | 50 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rxs Creek North (Noise) [PA08_0102]; Rxs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rxs Creek South (AQ) [SSD 6300] | 10 | 11 | 17 | 13 | 0 | 0 | 4 | 6 | 4 | 2 | 0 | 0 | 11 | 13 | 18 | 13 | 0 | 0 | 62 | 64 | 65 | 42 | 0 | 0 | 50 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rxs Creek North (AQ) [PA08_0102]; Rxs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rxs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 103/852484 and 104/852484 | 10 | 12 | 17 | 13 | 0 | 0 | 4 | 6 | 4 | 2 | 0 | 0 | 11 | 13 | 18 | 13 | 0 | 0 | 60 | 63 | 63 | 42 | 0 | 0 | 50 |
| 735 | Private - Commercial | - | - | 18 | 18 | 23 | 18 | 0 | 0 | 11 | 15 | 7 | 2 | 0 | 0 | 18 | 19 | 23 | 18 | 0 | 0 | 59 | 61 | 63 | 42 | 0 | 0 | 50 |
| 797 | Community Infrastructure | - | - | 20 | 21 | 27 | 19 | 0 | 0 | 11 | 15 | 7 | 2 | 0 | 0 | 20 | 22 | 27 | 20 | 0 | 0 | 63 | 65 | 67 | 42 | 0 | 0 | 50 |
| 799 | Community Infrastructure | - | - | 20 | 21 | 27 | 19 | 0 | 0 | 11 | 15 | 7 | 2 | 0 | 0 | 20 | 22 | 27 | 20 | 0 | 0 | 63 | 65 | 67 | 42 | 0 | 0 | 50 |
| 800 | Private - Commercial | - | - | 20 | 21 | 27 | 19 | 0 | 0 | 11 | 15 | 7 | 2 | 0 | 0 | 20 | 22 | 27 | 20 | 0 | 0 | 63 | 65 | 67 | 42 | 0 | 0 | 50 |
| 829 | Private - Commercial | - | - | 3 | 3 | 5 | 7 | 0 | 0 | 12 | 17 | 12 | 9 | 0 | 0 | 14 | 18 | 13 | 9 | 0 | 0 | 51 | 55 | 51 | 45 | 0 | 0 | 50 |
| 830 | Private - Commercial | - | - | 2 | 2 | 4 | 6 | 0 | 0 | 12 | 18 | 13 | 8 | 0 | 0 | 14 | 20 | 13 | 8 | 0 | 0 | 53 | 56 | 55 | 46 | 0 | 0 | 50 |
| 833 | Private - Commercial | - | - | 3 | 4 | 7 | 10 | 0 | 0 | 29 | 63 | 44 | 26 | 0 | 0 | 30 | 65 | 47 | 30 | 0 | 0 | 79 | 92 | 80 | 60 | 0 | 0 | 50 |
| 834 | Private - Commercial | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 9 | 18 | 13 | 9 | 0 | 0 | 9 | 18 | 15 | 13 | 0 | 0 | 45 | 48 | 46 | 44 | 0 | 0 | 50 |
| 835 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 17 | 15 | 13 | 0 | 0 | 44 | 47 | 46 | 44 | 0 | 0 | 50 |
| 836 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 11 | 9 | 0 | 0 | 8 | 16 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 837 | Private - Dwelling | - | - | 4 | 4 | 7 | 11 | 0 | 0 | 8 | 16 | 12 | 9 | 0 | 0 | 8 | 16 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 838 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 15 | 13 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 839 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 12 | 9 | 0 | 0 | 8 | 17 | 14 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 840 | Private - Dwelling | - | - | 4 | 4 | 7 | 10 | 0 | 0 | 8 | 17 | 13 | 9 | 0 | 0 | 8 | 17 | 14 | 12 | 0 | 0 | 45 | 47 | 46 | 44 | 0 | 0 | 50 |
| 843 | Private - Dwelling | - | - | 4 | 5 | 8 | 9 | 0 | 0 | 6 | 8 | 6 | 4 | 0 | 0 | 7 | 9 | 8 | 9 | 0 | 0 | 47 | 49 | 50 | 45 | 0 | 0 | 50 |
| 846 | Private - Dwelling | - | - | 5 | 6 | 9 | 10 | 0 | 0 | 7 | 10 | 7 | 4 | 0 | 0 | 8 | 11 | 10 | 10 | 0 | 0 | 56 | 59 | 60 | 45 | 0 | 0 | 50 |
| 847 | Private - Dwelling | - | - | 5 | 6 | 9 | 10 | 0 | 0 | 7 | 10 | 7 | 4 | 0 | 0 | 8 | 11 | 9 | 10 | 0 | 0 | 52 | 54 | 55 | 45 | 0 | 0 | 50 |
| 852 | Private - Dwelling | - | - | 5 | 6 | 9 | 10 | 0 | 0 | 8 | 11 | 7 | 4 | 0 | 0 | 8 | 12 | 9 | 10 | 0 | 0 | 49 | 51 | 53 | 45 | 0 | 0 | 50 |
| 855 | Private - Dwelling | - | - | 3 | 4 | 6 | 10 | 0 | 0 | 9 | 11 | 7 | 4 | 0 | 0 | 10 | 13 | 9 | 10 | 0 | 0 | 48 | 50 | 50 | 45 | 0 | 0 | 50 |
| 856 | Private - Dwelling | - | - | 5 | 5 | 9 | 10 | 0 | 0 | 6 | 10 | 7 | 5 | 0 | 0 | 7 | 11 | 9 | 10 | 0 | 0 | 51 | 53 | 54 | 45 | 0 | 0 | 50 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rxs Creek North (Noise & AQ) [PA08_0102]; Rxs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rxs Creek North (Noise) [PA08_0102] | 10 | 10 | 14 | 11 | 0 | 0 | 5 | 8 | 5 | 2 | 0 | 0 | 10 | 10 | 15 | 11 | 0 | 0 | 61 | 65 | 66 | 42 | 0 | 0 | 50 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rxs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rxs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rxs Creek North (Noise) [PA08_0102] | 9 | 9 | 13 | 9 | 0 | 0 | 4 | 7 | 4 | 2 | 0 | 0 | 9 | 10 | 13 | 9 | 0 | 0 | 61 | 67 | 67 | 42 | 0 | 0 | 50 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rxs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rxs Creek South (AQ) [SSD 6300] | Rxs Creek North (Noise) [PA08_0102] | 10 | 11 | 16 | 12 | 0 | 0 | 4 | 5 | 4 | 2 | 0 | 0 | 11 | 12 | 17 | 12 | 0 | 0 | 61 | 64 | 64 | 42 | 0 | 0 | 50 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rxs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rxs Creek South (AQ) [SSD 6300] | Rxs Creek North (Noise) [PA08_0102] | 10 | 10 | 15 | 11 | 0 | 0 | 4 | 6 | 4 | 2 | 0 | 0 | 10 | 11 | 15 | 11 | 0 | 0 | 60 | 65 | 65 | 42 | 0 | 0 | 50 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rxs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rxs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 11 | 12 | 18 | 14 | 0 | 0 | 10 | 14 | 7 | 2 | 0 | 0 | 13 | 16 | 19 | 15 | 0 | 0 | 56 | 59 | 63 | 47 | 0 | 0 | 50 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rxs Creek North (Noise) [PA08_0102]; Rxs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rxs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 10 | 12 | 18 | 14 | 0 | 0 | 9 | 13 | 7 | 2 | 0 | 0 | 13 | 16 | 19 | 14 | 0 | 0 | 56 | 58 | 62 | 47 | 0 | 0 | 50 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 7 | 9 | 15 | 15 | 0 | 0 | 10 | 13 | 7 | 2 | 0 | 0 | 14 | 17 | 19 | 16 | 0 | 0 | 48 | 50 | 53 | 47 | 0 | 0 | 50 |
| 949 | Private - Dwelling | - | - | 7 | 9 | 15 | 15 | 0 | 0 | 10 | 13 | 7 | 2 | 0 | 0 | 14 | 17 | 19 | 16 | 0 | 0 | 48 | 50 | 53 | 47 | 0 | 0 | 50 |
| 950 | Private - Dwelling | - | - | 7 | 9 | 15 | 15 | 0 | 0 | 10 | 13 | 7 | 2 | 0 | 0 | 14 | 17 | 19 | 16 | 0 | 0 | 48 | 50 | 53 | 47 | 0 | 0 | 50 |

Ashton = Ashton Coal Project, H/VOS = Hunter Valley Operations (South), H/VON = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

Modelled annual average PM10 concentrations (ug/m3)

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | Project (HVO S) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | | | |
|-----------------|-----------------------------------------|----------------------------------|----------------------------------|-----------------|------|-------|------|-----------------|------|------|------|-----------------------|------|------|------|------------|------|-------|------|----------|-----|----|-----|-----|----|---|---|----|
| | | | | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | | | | | | | | | |
| D119 | Monitor | - | - | 0.6 | 0.7 | 1.1 | 1.8 | 0.0 | 0.0 | 1.7 | 4.0 | 3.2 | 1.9 | 0.0 | 0.0 | 2.2 | 4.7 | 4.3 | 3.7 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| DL14 | Monitor | - | - | 1.1 | 1.3 | 2.3 | 3.3 | 0.0 | 0.0 | 1.3 | 1.3 | 0.8 | 0.2 | 0.0 | 0.0 | 2.4 | 2.7 | 3.0 | 3.6 | 0.0 | 0.0 | 17 | 17 | 18 | 14 | 0 | 0 | 25 |
| Warkworth | Monitor | - | - | 0.3 | 0.3 | 0.5 | 0.7 | 0.0 | 0.0 | 1.4 | 3.5 | 3.0 | 1.5 | 0.0 | 0.0 | 1.6 | 3.8 | 3.5 | 3.2 | 0.0 | 0.0 | 45 | 47 | 48 | 28 | 0 | 0 | 25 |
| D118 | Monitor | - | - | 0.4 | 0.5 | 1.0 | 1.5 | 0.0 | 0.0 | 0.9 | 2.1 | 2.4 | 1.3 | 0.0 | 0.0 | 1.4 | 3.1 | 3.3 | 2.2 | 0.0 | 0.0 | 19 | 19 | 20 | 18 | 0 | 0 | 25 |
| Knodlers Lane | Monitor | - | - | 0.8 | 1.0 | 1.7 | 2.5 | 0.0 | 0.0 | 2.3 | 2.4 | 1.2 | 0.4 | 0.0 | 0.0 | 3.1 | 3.4 | 2.9 | 2.9 | 0.0 | 0.0 | 18 | 18 | 18 | 13 | 0 | 0 | 25 |
| DL22 | Monitor | - | - | 0.6 | 0.7 | 1.2 | 1.8 | 0.0 | 0.0 | 4.9 | 6.0 | 2.9 | 0.9 | 0.0 | 0.0 | 5.5 | 6.7 | 4.1 | 2.8 | 0.0 | 0.0 | 22 | 23 | 21 | 13 | 0 | 0 | 25 |
| DL21 | Monitor | - | - | 0.9 | 1.1 | 1.8 | 2.8 | 0.0 | 0.0 | 2.6 | 2.4 | 1.2 | 0.4 | 0.0 | 0.0 | 3.5 | 3.5 | 3.0 | 3.2 | 0.0 | 0.0 | 18 | 18 | 18 | 13 | 0 | 0 | 25 |
| D122 | Monitor | - | - | 0.5 | 0.6 | 1.0 | 1.3 | 0.0 | 0.0 | 1.4 | 1.9 | 1.1 | 0.4 | 0.0 | 0.0 | 1.9 | 2.5 | 2.0 | 1.7 | 0.0 | 0.0 | 15 | 15 | 15 | 12 | 0 | 0 | 25 |
| DL30 | Monitor | - | - | 0.4 | 0.5 | 0.9 | 1.4 | 0.0 | 0.0 | 6.4 | 12.4 | 8.8 | 2.9 | 0.0 | 0.0 | 6.8 | 13.0 | 9.7 | 4.4 | 0.0 | 0.0 | 30 | 36 | 33 | 29 | 0 | 0 | 25 |
| DL2 | Monitor | - | - | 2.1 | 2.6 | 4.7 | 7.0 | 0.0 | 0.0 | 2.9 | 2.6 | 1.4 | 0.4 | 0.0 | 0.0 | 5.0 | 5.3 | 6.0 | 7.4 | 0.0 | 0.0 | 20 | 21 | 22 | 19 | 0 | 0 | 25 |
| Warkworth | Monitor | - | - | 0.3 | 0.3 | 0.5 | 0.7 | 0.0 | 0.0 | 1.4 | 3.5 | 3.0 | 1.5 | 0.0 | 0.0 | 1.6 | 3.8 | 3.5 | 2.2 | 0.0 | 0.0 | 45 | 47 | 48 | 28 | 0 | 0 | 25 |
| Cheshunt East | Monitor | - | - | 2.9 | 3.5 | 6.1 | 7.1 | 0.0 | 0.0 | 1.9 | 1.9 | 1.0 | 0.3 | 0.0 | 0.0 | 4.7 | 5.4 | 7.1 | 7.4 | 0.0 | 0.0 | 22 | 23 | 25 | 17 | 0 | 0 | 25 |
| Long Point | Monitor | - | - | 0.5 | 0.6 | 0.9 | 1.2 | 0.0 | 0.0 | 1.8 | 2.6 | 1.5 | 0.6 | 0.0 | 0.0 | 2.3 | 3.1 | 2.3 | 1.8 | 0.0 | 0.0 | 16 | 17 | 16 | 12 | 0 | 0 | 25 |
| Kilburnie South | Monitor | - | - | 0.4 | 0.6 | 1.0 | 1.5 | 0.0 | 0.0 | 0.9 | 2.6 | 2.4 | 1.3 | 0.0 | 0.0 | 1.4 | 3.1 | 3.3 | 2.8 | 0.0 | 0.0 | 19 | 19 | 20 | 18 | 0 | 0 | 25 |
| Wandewai | Monitor | - | - | 1.6 | 2.1 | 3.8 | 6.9 | 0.0 | 0.0 | 5.2 | 15.6 | 13.9 | 8.6 | 0.0 | 0.0 | 6.8 | 17.7 | 17.7 | 15.5 | 0.0 | 0.0 | 22 | 33 | 33 | 29 | 0 | 0 | 25 |
| Howick | Monitor | - | - | 30.9 | 30.1 | 26.3 | 20.9 | 0.0 | 0.0 | 0.9 | 1.0 | 0.6 | 0.2 | 0.0 | 0.0 | 31.8 | 31.0 | 26.9 | 21.1 | 0.0 | 0.0 | 60 | 62 | 57 | 31 | 0 | 0 | 25 |
| Golden Highway | Monitor | - | - | 0.2 | 0.3 | 0.5 | 0.6 | 0.0 | 0.0 | 1.1 | 2.4 | 1.8 | 0.9 | 0.0 | 0.0 | 1.3 | 2.7 | 2.3 | 1.5 | 0.0 | 0.0 | 13 | 14 | 17 | 14 | 0 | 0 | 25 |
| HCI Conveyor | Monitor | - | - | 79.1 | 55.7 | 121.8 | 22.4 | 0.0 | 0.0 | 2.6 | 2.3 | 1.7 | 0.5 | 0.0 | 0.0 | 81.7 | 58.0 | 123.5 | 22.9 | 0.0 | 0.0 | 64 | 114 | 180 | 33 | 0 | 0 | 25 |
| Maison Dieu | Monitor | - | - | 1.1 | 1.3 | 2.3 | 3.3 | 0.0 | 0.0 | 1.3 | 1.4 | 0.8 | 0.2 | 0.0 | 0.0 | 2.4 | 2.7 | 3.0 | 3.5 | 0.0 | 0.0 | 17 | 17 | 18 | 14 | 0 | 0 | 25 |
| Warkworth | Monitor | - | - | 0.2 | 0.3 | 0.4 | 0.6 | 0.0 | 0.0 | 1.1 | 2.6 | 2.1 | 1.1 | 0.0 | 0.0 | 1.3 | 2.9 | 2.6 | 1.7 | 0.0 | 0.0 | 39 | 39 | 39 | 20 | 0 | 0 | 25 |
| Knodlers Lane | Monitor | - | - | 0.7 | 0.8 | 1.4 | 2.1 | 0.0 | 0.0 | 4.7 | 5.2 | 2.4 | 0.8 | 0.0 | 0.0 | 5.4 | 6.1 | 3.8 | 2.9 | 0.0 | 0.0 | 21 | 22 | 20 | 13 | 0 | 0 | 25 |
| Jerrys Plains | Monitor | - | - | 0.5 | 0.7 | 1.0 | 1.5 | 0.0 | 0.0 | 1.2 | 2.6 | 2.0 | 1.2 | 0.0 | 0.0 | 1.7 | 3.2 | 3.0 | 2.7 | 0.0 | 0.0 | 13 | 15 | 15 | 13 | 0 | 0 | 25 |
| Cheshunt East | Monitor | - | - | 2.9 | 3.5 | 6.1 | 7.1 | 0.0 | 0.0 | 1.9 | 1.9 | 1.0 | 0.3 | 0.0 | 0.0 | 4.7 | 5.4 | 7.1 | 7.4 | 0.0 | 0.0 | 22 | 23 | 25 | 17 | 0 | 0 | 25 |
| HVGC | Monitor | - | - | 0.4 | 0.5 | 0.9 | 1.4 | 0.0 | 0.0 | 5.9 | 15.5 | 10.4 | 4.7 | 0.0 | 0.0 | 6.3 | 16.0 | 11.3 | 6.0 | 0.0 | 0.0 | 32 | 40 | 36 | 20 | 0 | 0 | 25 |
| Long Point | Monitor | - | - | 0.5 | 0.6 | 0.9 | 1.2 | 0.0 | 0.0 | 1.8 | 2.6 | 1.5 | 0.6 | 0.0 | 0.0 | 2.3 | 3.1 | 2.3 | 1.8 | 0.0 | 0.0 | 16 | 17 | 16 | 12 | 0 | 0 | 25 |
| Kilburnie South | Monitor | - | - | 0.4 | 0.6 | 1.0 | 1.5 | 0.0 | 0.0 | 0.9 | 2.6 | 2.4 | 1.3 | 0.0 | 0.0 | 1.4 | 3.1 | 3.4 | 2.8 | 0.0 | 0.0 | 19 | 19 | 20 | 18 | 0 | 0 | 25 |
| Kilburnie South | Monitor | - | - | 0.4 | 0.5 | 1.0 | 1.5 | 0.0 | 0.0 | 0.9 | 2.6 | 2.4 | 1.3 | 0.0 | 0.0 | 1.4 | 3.1 | 3.3 | 2.8 | 0.0 | 0.0 | 19 | 19 | 20 | 18 | 0 | 0 | 25 |
| Maison Dieu | Monitor | - | - | 1.1 | 1.3 | 2.2 | 3.3 | 0.0 | 0.0 | 1.7 | 1.4 | 0.8 | 0.3 | 0.0 | 0.0 | 2.5 | 2.7 | 3.0 | 3.5 | 0.0 | 0.0 | 17 | 17 | 18 | 14 | 0 | 0 | 25 |
| Maison Dieu | Monitor | - | - | 1.1 | 1.3 | 2.3 | 3.3 | 0.0 | 0.0 | 1.3 | 1.4 | 0.8 | 0.2 | 0.0 | 0.0 | 2.4 | 2.7 | 3.0 | 3.5 | 0.0 | 0.0 | 17 | 17 | 18 | 14 | 0 | 0 | 25 |
| Knodlers Lane | Monitor | - | - | 0.8 | 1.0 | 1.7 | 2.5 | 0.0 | 0.0 | 2.3 | 2.4 | 1.2 | 0.4 | 0.0 | 0.0 | 3.1 | 3.4 | 2.9 | 2.9 | 0.0 | 0.0 | 18 | 18 | 18 | 13 | 0 | 0 | 25 |
| 17 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 12 | 12 | 12 | 10 | 0 | 0 | 25 |
| 19 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 12 | 12 | 12 | 10 | 0 | 0 | 25 |
| 37 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 12 | 12 | 12 | 10 | 0 | 0 | 25 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) (SSD6464) | Warkworth (Noise & AQ) (SSD6464) | 0.2 | 0.3 | 0.5 | 0.6 | 0.0 | 0.0 | 1.1 | 2.8 | 2.3 | 1.1 | 0.0 | 0.0 | 1.4 | 3.0 | 2.7 | 1.8 | 0.0 | 0.0 | 39 | 39 | 39 | 21 | 0 | 0 | 25 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.8 | 1.0 | 1.7 | 2.5 | 0.0 | 0.0 | 2.3 | 2.4 | 1.2 | 0.4 | 0.0 | 0.0 | 3.1 | 3.4 | 2.9 | 2.9 | 0.0 | 0.0 | 18 | 18 | 18 | 13 | 0 | 0 | 25 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.8 | 0.9 | 1.5 | 2.3 | 0.0 | 0.0 | 2.9 | 3.2 | 1.6 | 0.5 | 0.0 | 0.0 | 3.7 | 4.1 | 3.1 | 2.8 | 0.0 | 0.0 | 19 | 19 | 18 | 13 | 0 | 0 | 25 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.9 | 1.0 | 1.7 | 2.5 | 0.0 | 0.0 | 2.1 | 2.2 | 1.1 | 0.4 | 0.0 | 0.0 | 2.9 | 3.2 | 2.9 | 2.8 | 0.0 | 0.0 | 17 | 18 | 18 | 13 | 0 | 0 | 25 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.8 | 1.0 | 1.6 | 2.4 | 0.0 | 0.0 | 2.5 | 2.7 | 1.3 | 0.5 | 0.0 | 0.0 | 3.3 | 3.7 | 3.0 | 2.8 | 0.0 | 0.0 | 18 | 19 | 18 | 13 | 0 | 0 | 25 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.9 | 1.1 | 1.8 | 2.5 | 0.0 | 0.0 | 2.0 | 2.1 | 1.1 | 0.4 | 0.0 | 0.0 | 2.8 | 3.2 | 2.8 | 2.9 | 0.0 | 0.0 | 17 | 18 | 18 | 13 | 0 | 0 | 25 |
| 126 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.3 | 0.4 | 0.6 | 0.8 | 0.0 | 0.0 | 1.6 | 2.8 | 1.8 | 0.8 | 0.0 | 0.0 | 1.9 | 3.2 | 2.5 | 1.6 | 0.0 | 0.0 | 17 | 19 | 18 | 12 | 0 | 0 | 25 |
| 127 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.7 | 0.8 | 1.4 | 1.8 | 0.0 | 0.0 | 1.8 | 2.2 | 1.2 | 0.5 | 0.0 | 0.0 | 2.5 | 3.1 | 2.6 | 2.3 | 0.0 | 0.0 | 18 | 18 | 18 | 12 | 0 | 0 | 25 |
| 128 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.4 | 0.5 | 0.8 | 1.0 | 0.0 | 0.0 | 2.0 | 3.1 | 1.8 | 0.7 | 0.0 | 0.0 | 2.4 | 3.6 | 2.6 | 1.7 | 0.0 | 0.0 | 17 | 19 | 18 | 12 | 0 | 0 | 25 |
| 130 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.4 | 0.5 | 0.8 | 1.1 | 0.0 | 0.0 | 2.0 | 2.8 | 1.6 | 0.6 | 0.0 | 0.0 | 2.4 | 3.4 | 2.5 | 1.8 | 0.0 | 0.0 | 16 | 17 | 17 | 12 | 0 | 0 | 25 |
| 134 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.4 | 0.5 | 0.9 | 1.2 | 0.0 | 0.0 | 1.9 | 2.7 | 1.5 | 0.6 | 0.0 | 0.0 | 2.3 | 3.2 | 2.4 | 1.8 | 0.0 | 0.0 | 16 | 17 | 16 | 12 | 0 | 0 | 25 |
| 139 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.4 | 0.5 | 0.8 | 1.1 | 0.0 | 0.0 | 1.8 | 2.6 | 1.5 | 0.6 | 0.0 | 0.0 | 2.2 | 3.1 | 2.3 | 1.7 | 0.0 | 0.0 | 16 | 17 | 16 | 12 | 0 | 0 | 25 |
| 141 | Private - Dwelling | - | - | 0.7 | 0.8 | 1.3 | 1.7 | 0.0 | 0.0 | 1.2 | 1.5 | 0.9 | 0.3 | 0.0 | 0.0 | 1.9 | 2.3 | 2.2 | 2.0 | 0.0 | 0.0 | 15 | 16 | 16 | 12 | 0 | 0 | 25 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.9 | 1.2 | 2.0 | 3.0 | 0.0 | 0.0 | 2.1 | 2.0 | 1.0 | 0.3 | 0.0 | 0.0 | 3.0 | 3.1 | 3.0 | 3.3 | | | | | | | | | |

Modelled annual average PM10 concentrations (ug/m3)

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | Project (HVO S) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | | | |
|-----|--------------------------|----------------------------|-----------------------------|-----------------|------|------|------|-----------------|------|------|------|-----------------------|------|------|------|------------|------|------|------|----------|-----|----|----|----|----|---|---|----|
| | | | | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | | | | | | | | | |
| 368 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.2 | 1.8 | 0.0 | 0.0 | 1.7 | 3.8 | 3.0 | 1.8 | 0.0 | 0.0 | 2.2 | 4.5 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 369 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.8 | 0.0 | 0.0 | 1.7 | 3.9 | 3.1 | 1.9 | 0.0 | 0.0 | 2.2 | 4.6 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 370 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.7 | 0.0 | 0.0 | 2.2 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 371 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.7 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 372 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.5 | 3.5 | 2.7 | 1.7 | 0.0 | 0.0 | 2.1 | 4.2 | 3.9 | 3.3 | 0.0 | 0.0 | 15 | 17 | 16 | 15 | 0 | 0 | 25 |
| 373 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 374 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.7 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.4 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 375 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.5 | 3.6 | 2.9 | 1.7 | 0.0 | 0.0 | 2.1 | 4.3 | 4.0 | 3.4 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 376 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.8 | 0.0 | 0.0 | 1.7 | 3.9 | 3.1 | 1.9 | 0.0 | 0.0 | 2.2 | 4.6 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 377 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.8 | 0.0 | 0.0 | 1.7 | 3.9 | 3.0 | 1.8 | 0.0 | 0.0 | 2.2 | 4.5 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 380 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.5 | 3.6 | 2.8 | 1.7 | 0.0 | 0.0 | 2.1 | 4.3 | 4.0 | 3.4 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 381 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.5 | 3.6 | 2.9 | 1.7 | 0.0 | 0.0 | 2.1 | 4.3 | 4.0 | 3.4 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 382 | Community Infrastructure | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.5 | 3.6 | 2.9 | 1.7 | 0.0 | 0.0 | 2.1 | 4.3 | 4.0 | 3.4 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 383 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.1 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 384 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 385 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.5 | 3.6 | 2.8 | 1.7 | 0.0 | 0.0 | 2.1 | 4.3 | 4.0 | 3.4 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 386 | Community Infrastructure | - | - | 0.6 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.4 | 2.7 | 1.6 | 0.0 | 0.0 | 2.0 | 4.1 | 3.8 | 3.3 | 0.0 | 0.0 | 15 | 17 | 16 | 15 | 0 | 0 | 25 |
| 389 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.8 | 3.0 | 1.9 | 0.0 | 0.0 | 2.2 | 4.5 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 390 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.8 | 3.0 | 1.8 | 0.0 | 0.0 | 2.2 | 4.5 | 4.1 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 391 | Private - Commercial | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.8 | 3.0 | 1.9 | 0.0 | 0.0 | 2.1 | 4.5 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 392 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.8 | 3.0 | 1.9 | 0.0 | 0.0 | 2.1 | 4.5 | 4.1 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 393 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.9 | 3.1 | 1.9 | 0.0 | 0.0 | 2.1 | 4.5 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 394 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.8 | 3.0 | 1.9 | 0.0 | 0.0 | 2.1 | 4.5 | 4.1 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 395 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.8 | 0.0 | 0.0 | 1.7 | 4.0 | 3.1 | 1.9 | 0.0 | 0.0 | 2.2 | 4.6 | 4.3 | 3.7 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 396 | Community Infrastructure | - | - | 0.5 | 0.6 | 1.0 | 1.6 | 0.0 | 0.0 | 1.4 | 3.4 | 2.7 | 1.6 | 0.0 | 0.0 | 1.9 | 4.0 | 3.7 | 3.2 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 397 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.5 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 398 | Private - Dwelling | - | - | 0.5 | 0.6 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.5 | 2.7 | 1.7 | 0.0 | 0.0 | 2.0 | 4.1 | 3.8 | 3.3 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 399 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 3.0 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 400 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 401 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 402 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 403 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.1 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 404 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.5 | 3.5 | 2.8 | 1.7 | 0.0 | 0.0 | 2.0 | 4.2 | 3.9 | 3.4 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 405 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.1 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 406 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 3.0 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.1 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 407 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.4 | 2.7 | 1.7 | 0.0 | 0.0 | 2.0 | 4.1 | 3.8 | 3.3 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 408 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.4 | 2.7 | 1.6 | 0.0 | 0.0 | 1.9 | 4.1 | 3.8 | 3.3 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 409 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.4 | 2.7 | 1.6 | 0.0 | 0.0 | 2.0 | 4.1 | 3.8 | 3.3 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 410 | Community Infrastructure | - | - | 0.6 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.4 | 2.7 | 1.6 | 0.0 | 0.0 | 2.0 | 4.1 | 3.8 | 3.3 | 0.0 | 0.0 | 15 | 17 | 16 | 15 | 0 | 0 | 25 |
| 411 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.4 | 2.7 | 1.6 | 0.0 | 0.0 | 2.0 | 4.1 | 3.8 | 3.3 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 412 | Community Infrastructure | - | - | 0.5 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.3 | 2.6 | 1.6 | 0.0 | 0.0 | 1.9 | 4.0 | 3.7 | 3.2 | 0.0 | 0.0 | 15 | 16 | 16 | 15 | 0 | 0 | 25 |
| 413 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.3 | 2.6 | 1.6 | 0.0 | 0.0 | 1.9 | 3.9 | 3.7 | 3.2 | 0.0 | 0.0 | 15 | 16 | 16 | 15 | 0 | 0 | 25 |
| 414 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.3 | 2.6 | 1.6 | 0.0 | 0.0 | 1.9 | 4.0 | 3.7 | 3.2 | 0.0 | 0.0 | 15 | 16 | 16 | 15 | 0 | 0 | 25 |
| 415 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.6 | 0.0 | 0.0 | 1.4 | 3.3 | 2.6 | 1.6 | 0.0 | 0.0 | 1.9 | 4.0 | 3.7 | 3.2 | 0.0 | 0.0 | 15 | 16 | 16 | 15 | 0 | 0 | 25 |
| 417 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 418 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.4 | 3.4 | 2.7 | 1.6 | 0.0 | 0.0 | 2.0 | 4.1 | 3.8 | 3.3 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 419 | Private - Dwelling | - | - | 0.5 | 0.6 | 1.0 | 1.5 | 0.0 | 0.0 | 1.3 | 3.1 | 2.4 | 1.5 | 0.0 | 0.0 | 1.8 | 3.7 | 3.5 | 3.0 | 0.0 | 0.0 | 14 | 16 | 16 | 14 | 0 | 0 | 25 |
| 420 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.5 | 0.0 | 0.0 | 1.1 | 2.7 | 2.2 | 1.3 | 0.0 | 0.0 | 1.6 | 3.4 | 3.2 | 2.8 | 0.0 | 0.0 | 14 | 16 | 16 | 14 | 0 | 0 | 25 |
| 421 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.8 | 0.0 | 0.0 | 1.7 | 3.9 | 3.1 | 1.9 | 0.0 | 0.0 | 2.2 | 4.6 | 4.2 | 3.7 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 422 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.8 | 3.0 | 1.8 | 0.0 | 0.0 | 2.2 | 4.5 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 423 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.8 | 3.0 | 1.9 | 0.0 | 0.0 | 2.2 | 4.5 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 425 | Private - Dwelling | - | - | 0.5 | 0.6 | 1.0 | 1.3 | 0.0 | 0.0 | 0.9 | 2.2 | 1.7 | 1.0 | 0.0 | 0.0 | 1.4 | 2.8 | 2.7 | 2.3 | 0.0 | 0.0 | 13 | 15 | 15 | 13 | 0 | 0 | 25 |
| 426 | Private - Dwelling | - | - | 0.5 | 0.6 | 0.9 | 1.3 | 0.0 | 0.0 | 0.9 | 2.1 | 1.7 | 1.0 | 0.0 | 0.0 | 1.3 | 2.7 | 2.6 | 2.3 | 0.0 | 0.0 | 13 | 15 | 15 | 13 | 0 | 0 | 25 |
| 427 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.5 | 0.0 | 0.0 | 1.1 | 2.7 | 2.2 | 1.3 | 0.0 | 0.0 | 1.6 | 3.4 | 3.2 | 2.8 | 0.0 | 0.0 | 14 | 16 | 16 | 14 | | | |

Modelled annual average PM10 concentrations (ug/m3)

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | | Project (HVO S) | | | | | Project (HVO Complex) | | | | | Cumulative | | | | | Criteria | | | | | |
|-----|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------|------|-----|-----------------|------|------|------|-----|-----------------------|------|------|------|------|------------|------|------|------|----|----------|----|----|---|---|----|
| | | | | 2024 | 2029 | 2034 | 2041 | | 2024 | 2029 | 2034 | 2041 | | 2024 | 2029 | 2034 | 2041 | | 2024 | 2029 | 2034 | 2041 | | | | | | | |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 1.9 | 2.0 | 2.4 | 1.4 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.1 | 2.2 | 2.6 | 1.4 | 0.0 | 0.0 | 23 | 25 | 25 | 11 | 0 | 0 | 25 |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-1] | 2.1 | 2.3 | 3.1 | 2.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.3 | 2.6 | 3.3 | 2.0 | 0.0 | 0.0 | 28 | 30 | 31 | 12 | 0 | 0 | 25 |
| 623 | Community Infrastructure | - | - | 2.3 | 2.4 | 3.1 | 1.7 | 0.0 | 0.0 | 0.3 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.6 | 2.8 | 3.3 | 1.8 | 0.0 | 0.0 | 23 | 24 | 25 | 12 | 0 | 0 | 25 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contiguous lots 1/248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 2.2 | 2.4 | 3.0 | 1.7 | 0.0 | 0.0 | 0.3 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.5 | 2.7 | 3.2 | 1.8 | 0.0 | 0.0 | 23 | 25 | 26 | 12 | 0 | 0 | 25 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 1/8/758214 and 2/8/758214 | 2.2 | 2.3 | 2.9 | 1.6 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.4 | 2.6 | 3.1 | 1.7 | 0.0 | 0.0 | 24 | 26 | 27 | 11 | 0 | 0 | 25 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 2.1 | 2.2 | 2.7 | 1.5 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.3 | 2.5 | 2.9 | 1.6 | 0.0 | 0.0 | 24 | 26 | 26 | 11 | 0 | 0 | 25 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 2.0 | 2.1 | 2.6 | 1.4 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.3 | 2.4 | 2.8 | 1.5 | 0.0 | 0.0 | 23 | 25 | 26 | 11 | 0 | 0 | 25 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 103/852484 and 104/852484 | 2.0 | 2.0 | 2.5 | 1.4 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.2 | 2.3 | 2.7 | 1.4 | 0.0 | 0.0 | 23 | 25 | 25 | 11 | 0 | 0 | 25 |
| 735 | Private - Commercial | - | - | 1.9 | 1.9 | 2.2 | 1.4 | 0.0 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.2 | 2.3 | 2.5 | 1.5 | 0.0 | 0.0 | 22 | 23 | 23 | 11 | 0 | 0 | 25 |
| 797 | Community Infrastructure | - | - | 2.2 | 2.2 | 2.5 | 1.5 | 0.0 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.5 | 2.6 | 2.7 | 1.6 | 0.0 | 0.0 | 23 | 24 | 24 | 11 | 0 | 0 | 25 |
| 799 | Community Infrastructure | - | - | 2.2 | 2.2 | 2.5 | 1.5 | 0.0 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.5 | 2.6 | 2.7 | 1.6 | 0.0 | 0.0 | 23 | 24 | 24 | 11 | 0 | 0 | 25 |
| 800 | Private - Commercial | - | - | 2.2 | 2.2 | 2.5 | 1.5 | 0.0 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.5 | 2.6 | 2.7 | 1.6 | 0.0 | 0.0 | 23 | 24 | 24 | 11 | 0 | 0 | 25 |
| 829 | Private - Commercial | - | - | 0.3 | 0.4 | 0.6 | 0.9 | 0.0 | 0.0 | 1.9 | 3.5 | 2.3 | 0.9 | 0.0 | 0.0 | 0.0 | 2.2 | 3.9 | 2.9 | 1.8 | 0.0 | 0.0 | 21 | 23 | 22 | 12 | 0 | 0 | 25 |
| 830 | Private - Commercial | - | - | 0.3 | 0.3 | 0.5 | 0.7 | 0.0 | 0.0 | 1.5 | 3.1 | 2.3 | 1.0 | 0.0 | 0.0 | 0.0 | 1.8 | 3.4 | 2.8 | 1.7 | 0.0 | 0.0 | 25 | 27 | 26 | 12 | 0 | 0 | 25 |
| 833 | Private - Commercial | - | - | 0.4 | 0.5 | 0.9 | 1.3 | 0.0 | 0.0 | 5.8 | 16.0 | 10.7 | 5.0 | 0.0 | 0.0 | 0.0 | 6.3 | 16.5 | 11.6 | 6.4 | 0.0 | 0.0 | 33 | 41 | 36 | 21 | 0 | 0 | 25 |
| 834 | Private - Commercial | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.9 | 3.1 | 1.9 | 0.0 | 0.0 | 0.0 | 2.2 | 4.6 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 835 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.2 | 1.8 | 0.0 | 0.0 | 1.7 | 3.8 | 3.0 | 1.8 | 0.0 | 0.0 | 0.0 | 2.2 | 4.5 | 4.2 | 3.6 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 836 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.5 | 3.6 | 2.8 | 1.7 | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 4.0 | 3.4 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 837 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.7 | 0.0 | 0.0 | 0.0 | 2.1 | 4.4 | 4.0 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 838 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.6 | 3.7 | 2.9 | 1.8 | 0.0 | 0.0 | 0.0 | 2.1 | 4.4 | 4.1 | 3.5 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 839 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.5 | 3.5 | 2.8 | 1.7 | 0.0 | 0.0 | 0.0 | 2.0 | 4.2 | 3.9 | 3.3 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 840 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.1 | 1.7 | 0.0 | 0.0 | 1.5 | 3.6 | 2.8 | 1.7 | 0.0 | 0.0 | 0.0 | 2.0 | 4.3 | 3.9 | 3.4 | 0.0 | 0.0 | 15 | 17 | 17 | 15 | 0 | 0 | 25 |
| 843 | Private - Dwelling | - | - | 0.6 | 0.7 | 1.1 | 1.3 | 0.0 | 0.0 | 0.8 | 1.0 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 | 1.4 | 1.7 | 1.7 | 1.6 | 0.0 | 0.0 | 14 | 14 | 14 | 11 | 0 | 0 | 25 |
| 846 | Private - Dwelling | - | - | 0.8 | 0.9 | 1.4 | 1.6 | 0.0 | 0.0 | 0.6 | 0.8 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 1.4 | 1.7 | 1.9 | 1.8 | 0.0 | 0.0 | 16 | 17 | 17 | 12 | 0 | 0 | 25 |
| 847 | Private - Dwelling | - | - | 0.7 | 0.9 | 1.4 | 1.6 | 0.0 | 0.0 | 0.7 | 0.9 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 1.4 | 1.7 | 1.9 | 1.8 | 0.0 | 0.0 | 15 | 16 | 16 | 12 | 0 | 0 | 25 |
| 852 | Private - Dwelling | - | - | 0.7 | 0.9 | 1.4 | 1.7 | 0.0 | 0.0 | 0.8 | 1.0 | 0.6 | 0.2 | 0.0 | 0.0 | 0.0 | 1.5 | 1.9 | 2.0 | 1.9 | 0.0 | 0.0 | 15 | 16 | 16 | 12 | 0 | 0 | 25 |
| 855 | Private - Dwelling | - | - | 0.5 | 0.6 | 0.9 | 1.3 | 0.0 | 0.0 | 1.4 | 1.9 | 1.1 | 0.4 | 0.0 | 0.0 | 0.0 | 1.9 | 2.5 | 2.0 | 1.7 | 0.0 | 0.0 | 14 | 15 | 15 | 12 | 0 | 0 | 25 |
| 856 | Private - Dwelling | - | - | 0.7 | 0.8 | 1.2 | 1.5 | 0.0 | 0.0 | 0.8 | 1.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 | 1.5 | 1.9 | 1.9 | 1.7 | 0.0 | 0.0 | 15 | 16 | 16 | 12 | 0 | 0 | 25 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 1.9 | 2.0 | 2.6 | 1.5 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.1 | 2.3 | 2.7 | 1.5 | 0.0 | 0.0 | 26 | 29 | 30 | 11 | 0 | 0 | 25 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 1.5 | 1.6 | 1.9 | 1.1 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.8 | 2.1 | 1.1 | 0.0 | 0.0 | 27 | 32 | 32 | 11 | 0 | 0 | 25 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 1.9 | 1.9 | 2.3 | 1.3 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 2.1 | 2.2 | 2.5 | 1.3 | 0.0 | 0.0 | 25 | 28 | 29 | 11 | 0 | 0 | 25 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 1.7 | 1.8 | 2.1 | 1.2 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 2.0 | 2.3 | 1.2 | 0.0 | 0.0 | 26 | 29 | 30 | 11 | 0 | 0 | 25 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 1.8 | 2.1 | 3.4 | 3.5 | 0.0 | 0.0 | 0.5 | 0.7 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 2.4 | 2.8 | 3.8 | 3.6 | 0.0 | 0.0 | 18 | 19 | 20 | 13 | 0 | 0 | 25 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 1.8 | 2.1 | 3.3 | 3.4 | 0.0 | 0.0 | 0.5 | 0.6 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 2.3 | 2.7 | 3.7 | 3.5 | 0.0 | 0.0 | 18 | 19 | 20 | 13 | 0 | 0 | 25 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOs (Noise) [06_0281] | Rav Ops (AQ) [DA 09_0176] | 1.2 | 1.5 | 2.5 | 3.4 | 0.0 | 0.0 | 1.0 | 1.1 | 0.6 | 0.2 | 0.0 | 0.0 | 0.0 | 2.2 | 2.6 | 3.1 | 3.6 | 0.0 | 0.0 | 16 | 17 | 17 | 14 | 0 | 0 | 25 |
| 949 | Private - Dwelling | - | - | 1.2 | 1.5 | 2.5 | 3.4 | 0.0 | 0.0 | 1.0 | 1.1 | 0.6 | 0.2 | 0.0 | 0.0 | 0.0 | 2.2 | 2.6 | 3.1 | 3.6 | 0.0 | 0.0 | 16 | 17 | 17 | 14 | 0 | 0 | 25 |
| 950 | Private - Dwelling | - | - | 1.2 | 1.5 | 2.5 | 3.4 | 0.0 | 0.0 | 1.0 | 1.1 | 0.6 | 0.2 | 0.0 | 0.0 | 0.0 | 2.2 | 2.6 | 3.1 | 3.6 | 0.0 | 0.0 | 16 | 17 | 17 | 14 | 0 | 0 | 25 |

Ashton = Ashton Coal Project, HVO S = Hunter Valley Operations (South), HVO N = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

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

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | Project (HVO S) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | | | |
|-----------------|-----------------------------------------|----------------------------------|----------------------------------|-----------------|------|-------|------|-----------------|------|------|------|-----------------------|------|------|------|------------|-------|-------|------|----------|-----|----|----|-----|----|---|---|----|
| | | | | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | | | | | | | | | |
| D119 | Monitor | - | - | 1.4 | 1.8 | 2.8 | 4.2 | 0.0 | 0.0 | 1.8 | 3.5 | 2.6 | 1.8 | 0.0 | 0.0 | 2.1 | 3.7 | 3.6 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| DL14 | Monitor | - | - | 1.8 | 2.3 | 4.0 | 4.3 | 0.0 | 0.0 | 2.6 | 3.2 | 1.7 | 0.6 | 0.0 | 0.0 | 3.9 | 5.0 | 5.0 | 4.5 | 0.0 | 0.0 | 16 | 16 | 16 | 16 | 0 | 0 | 25 |
| Warkworth | Monitor | - | - | 0.8 | 1.0 | 1.3 | 3.3 | 0.0 | 0.0 | 3.1 | 7.0 | 4.8 | 2.5 | 0.0 | 0.0 | 3.5 | 7.9 | 5.5 | 4.7 | 0.0 | 0.0 | 32 | 29 | 29 | 27 | 0 | 0 | 25 |
| D118 | Monitor | - | - | 1.2 | 1.5 | 2.8 | 4.6 | 0.0 | 0.0 | 1.8 | 4.5 | 3.6 | 1.7 | 0.0 | 0.0 | 2.7 | 5.6 | 5.6 | 5.0 | 0.0 | 0.0 | 17 | 17 | 16 | 15 | 0 | 0 | 25 |
| Knodlers Lane | Monitor | - | - | 1.5 | 1.8 | 3.2 | 3.5 | 0.0 | 0.0 | 3.0 | 3.7 | 2.3 | 1.1 | 0.0 | 0.0 | 3.7 | 5.2 | 4.5 | 3.8 | 0.0 | 0.0 | 17 | 17 | 16 | 15 | 0 | 0 | 25 |
| DL22 | Monitor | - | - | 1.1 | 1.5 | 2.5 | 3.2 | 0.0 | 0.0 | 6.3 | 7.8 | 3.5 | 1.8 | 0.0 | 0.0 | 6.5 | 8.2 | 4.5 | 3.7 | 0.0 | 0.0 | 18 | 19 | 17 | 15 | 0 | 0 | 25 |
| DL21 | Monitor | - | - | 1.5 | 1.9 | 3.4 | 4.1 | 0.0 | 0.0 | 3.2 | 4.7 | 2.4 | 0.9 | 0.0 | 0.0 | 4.0 | 5.5 | 4.8 | 4.4 | 0.0 | 0.0 | 17 | 16 | 16 | 15 | 0 | 0 | 25 |
| D122 | Monitor | - | - | 0.9 | 1.0 | 1.6 | 2.1 | 0.0 | 0.0 | 1.9 | 2.7 | 1.5 | 0.8 | 0.0 | 0.0 | 2.2 | 2.9 | 2.2 | 2.2 | 0.0 | 0.0 | 16 | 16 | 16 | 15 | 0 | 0 | 25 |
| DL30 | Monitor | - | - | 1.1 | 1.4 | 2.4 | 3.3 | 0.0 | 0.0 | 3.4 | 16.7 | 10.4 | 3.7 | 0.0 | 0.0 | 8.0 | 17.4 | 11.8 | 4.7 | 0.0 | 0.0 | 18 | 23 | 19 | 16 | 0 | 0 | 25 |
| DL2 | Monitor | - | - | 2.7 | 3.3 | 5.9 | 8.3 | 0.0 | 0.0 | 7.1 | 8.6 | 3.6 | 1.3 | 0.0 | 0.0 | 9.4 | 9.2 | 7.2 | 8.8 | 0.0 | 0.0 | 21 | 22 | 19 | 17 | 0 | 0 | 25 |
| Warkworth | Monitor | - | - | 0.8 | 1.0 | 1.6 | 2.3 | 0.0 | 0.0 | 3.1 | 7.0 | 4.8 | 2.5 | 0.0 | 0.0 | 3.5 | 7.9 | 6.5 | 4.7 | 0.0 | 0.0 | 32 | 28 | 28 | 27 | 0 | 0 | 25 |
| Cheshunt East | Monitor | - | - | 3.6 | 4.3 | 7.6 | 8.8 | 0.0 | 0.0 | 7.6 | 7.7 | 2.6 | 0.9 | 0.0 | 0.0 | 7.7 | 7.8 | 8.5 | 9.1 | 0.0 | 0.0 | 21 | 23 | 24 | 17 | 0 | 0 | 25 |
| Long Point | Monitor | - | - | 0.9 | 1.0 | 1.6 | 1.8 | 0.0 | 0.0 | 2.5 | 3.5 | 2.0 | 0.9 | 0.0 | 0.0 | 2.7 | 3.8 | 2.5 | 2.0 | 0.0 | 0.0 | 16 | 17 | 16 | 15 | 0 | 0 | 25 |
| Kilburnie South | Monitor | - | - | 1.2 | 1.5 | 2.8 | 4.7 | 0.0 | 0.0 | 1.9 | 4.5 | 3.6 | 1.7 | 0.0 | 0.0 | 2.7 | 5.6 | 5.6 | 5.7 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| Wandevou | Monitor | - | - | 3.5 | 4.7 | 8.9 | 16.3 | 0.0 | 0.0 | 4.3 | 12.1 | 11.6 | 7.3 | 0.0 | 0.0 | 5.1 | 12.4 | 12.5 | 17.7 | 0.0 | 0.0 | 17 | 22 | 21 | 23 | 0 | 0 | 25 |
| Howick | Monitor | - | - | 31.8 | 32.4 | 35.2 | 23.7 | 0.0 | 0.0 | 2.2 | 3.0 | 1.8 | 0.6 | 0.0 | 0.0 | 34.0 | 35.4 | 36.8 | 24.3 | 0.0 | 0.0 | 40 | 41 | 42 | 25 | 0 | 0 | 25 |
| Golden Highway | Monitor | - | - | 0.6 | 0.8 | 1.3 | 1.7 | 0.0 | 0.0 | 2.4 | 5.5 | 3.5 | 1.5 | 0.0 | 0.0 | 2.8 | 5.9 | 4.2 | 2.5 | 0.0 | 0.0 | 31 | 33 | 32 | 16 | 0 | 0 | 25 |
| HCI Conveyor | Monitor | - | - | 46.1 | 59.4 | 143.9 | 40.4 | 0.0 | 0.0 | 4.9 | 6.9 | 4.5 | 1.4 | 0.0 | 0.0 | 46.7 | 60.4 | 145.4 | 40.6 | 0.0 | 0.0 | 62 | 81 | 167 | 41 | 0 | 0 | 25 |
| Maison Dieu | Monitor | - | - | 1.8 | 2.3 | 4.0 | 4.3 | 0.0 | 0.0 | 2.6 | 3.3 | 1.7 | 0.6 | 0.0 | 0.0 | 3.9 | 5.0 | 5.0 | 4.4 | 0.0 | 0.0 | 16 | 16 | 16 | 16 | 0 | 0 | 25 |
| Warkworth | Monitor | - | - | 0.7 | 0.9 | 1.5 | 2.0 | 0.0 | 0.0 | 2.3 | 5.5 | 3.8 | 2.0 | 0.0 | 0.0 | 2.8 | 6.4 | 5.3 | 3.8 | 0.0 | 0.0 | 23 | 24 | 21 | 21 | 0 | 0 | 25 |
| Knodlers Lane | Monitor | - | - | 1.3 | 1.6 | 2.8 | 3.6 | 0.0 | 0.0 | 5.8 | 6.2 | 2.7 | 1.6 | 0.0 | 0.0 | 6.1 | 6.5 | 4.9 | 4.0 | 0.0 | 0.0 | 18 | 18 | 17 | 15 | 0 | 0 | 25 |
| Jerrys Plains | Monitor | - | - | 1.1 | 1.3 | 2.2 | 3.0 | 0.0 | 0.0 | 1.1 | 2.1 | 1.6 | 1.1 | 0.0 | 0.0 | 1.6 | 2.8 | 2.9 | 3.3 | 0.0 | 0.0 | 16 | 16 | 16 | 16 | 0 | 0 | 25 |
| Cheshunt East | Monitor | - | - | 3.6 | 4.3 | 7.6 | 8.8 | 0.0 | 0.0 | 7.6 | 7.7 | 2.6 | 0.9 | 0.0 | 0.0 | 7.7 | 7.8 | 8.5 | 9.1 | 0.0 | 0.0 | 21 | 23 | 24 | 17 | 0 | 0 | 25 |
| HVGC | Monitor | - | - | 1.2 | 1.5 | 2.5 | 3.5 | 0.0 | 0.0 | 8.2 | 19.4 | 12.1 | 5.1 | 0.0 | 0.0 | 8.8 | 20.1 | 13.4 | 7.1 | 0.0 | 0.0 | 26 | 28 | 23 | 18 | 0 | 0 | 25 |
| Long Point | Monitor | - | - | 0.9 | 1.0 | 1.6 | 1.8 | 0.0 | 0.0 | 2.5 | 3.5 | 2.0 | 0.9 | 0.0 | 0.0 | 2.7 | 3.8 | 2.5 | 2.0 | 0.0 | 0.0 | 16 | 17 | 16 | 15 | 0 | 0 | 25 |
| Kilburnie South | Monitor | - | - | 1.2 | 1.5 | 2.8 | 4.6 | 0.0 | 0.0 | 1.9 | 4.6 | 3.6 | 1.7 | 0.0 | 0.0 | 2.7 | 5.6 | 5.6 | 5.7 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| Kilburnie South | Monitor | - | - | 1.2 | 1.5 | 2.8 | 4.6 | 0.0 | 0.0 | 1.8 | 4.5 | 3.6 | 1.7 | 0.0 | 0.0 | 2.7 | 5.6 | 5.6 | 5.7 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| Maison Dieu | Monitor | - | - | 1.8 | 2.3 | 4.0 | 4.3 | 0.0 | 0.0 | 2.6 | 3.4 | 1.8 | 0.6 | 0.0 | 0.0 | 3.9 | 5.0 | 5.0 | 4.4 | 0.0 | 0.0 | 16 | 16 | 16 | 16 | 0 | 0 | 25 |
| Maison Dieu | Monitor | - | - | 1.8 | 2.3 | 4.0 | 4.3 | 0.0 | 0.0 | 2.6 | 3.3 | 1.7 | 0.6 | 0.0 | 0.0 | 3.9 | 5.0 | 5.0 | 4.4 | 0.0 | 0.0 | 16 | 16 | 16 | 16 | 0 | 0 | 25 |
| Knodlers Lane | Monitor | - | - | 1.5 | 1.8 | 3.2 | 3.5 | 0.0 | 0.0 | 3.0 | 3.7 | 2.3 | 1.1 | 0.0 | 0.0 | 3.7 | 5.2 | 4.5 | 3.8 | 0.0 | 0.0 | 17 | 17 | 16 | 15 | 0 | 0 | 25 |
| 17 | Private - Dwelling | - | - | 0.2 | 0.3 | 0.4 | 0.6 | 0.0 | 0.0 | 0.4 | 0.7 | 0.5 | 0.2 | 0.0 | 0.0 | 0.5 | 1.0 | 0.9 | 0.8 | 0.0 | 0.0 | 15 | 15 | 14 | 14 | 0 | 0 | 25 |
| 19 | Private - Dwelling | - | - | 0.2 | 0.3 | 0.4 | 0.6 | 0.0 | 0.0 | 0.4 | 0.7 | 0.5 | 0.2 | 0.0 | 0.0 | 0.5 | 1.0 | 0.9 | 0.8 | 0.0 | 0.0 | 15 | 15 | 14 | 14 | 0 | 0 | 25 |
| 37 | Private - Dwelling | - | - | 0.2 | 0.3 | 0.4 | 0.6 | 0.0 | 0.0 | 0.4 | 0.8 | 0.6 | 0.2 | 0.0 | 0.0 | 0.6 | 1.1 | 1.0 | 0.8 | 0.0 | 0.0 | 15 | 15 | 14 | 14 | 0 | 0 | 25 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) [SSD6464] | Warkworth (Noise & AQ) [SSD6464] | 0.7 | 0.9 | 1.5 | 2.1 | 0.0 | 0.0 | 2.4 | 5.8 | 4.0 | 2.0 | 0.0 | 0.0 | 2.9 | 6.7 | 5.4 | 3.9 | 0.0 | 0.0 | 24 | 23 | 23 | 21 | 0 | 0 | 25 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 1.5 | 1.8 | 3.2 | 3.6 | 0.0 | 0.0 | 3.0 | 3.7 | 2.3 | 1.1 | 0.0 | 0.0 | 3.7 | 5.2 | 4.5 | 3.8 | 0.0 | 0.0 | 17 | 17 | 16 | 15 | 0 | 0 | 25 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 1.4 | 1.7 | 3.0 | 3.4 | 0.0 | 0.0 | 3.4 | 4.3 | 2.4 | 1.4 | 0.0 | 0.0 | 3.8 | 5.4 | 4.6 | 3.7 | 0.0 | 0.0 | 17 | 17 | 16 | 15 | 0 | 0 | 25 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 1.5 | 1.9 | 3.3 | 3.5 | 0.0 | 0.0 | 2.8 | 3.6 | 2.1 | 1.0 | 0.0 | 0.0 | 3.8 | 5.2 | 4.6 | 3.8 | 0.0 | 0.0 | 17 | 16 | 16 | 15 | 0 | 0 | 25 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 1.4 | 1.8 | 3.1 | 3.4 | 0.0 | 0.0 | 3.2 | 3.7 | 2.4 | 1.2 | 0.0 | 0.0 | 3.8 | 5.3 | 4.6 | 3.7 | 0.0 | 0.0 | 17 | 17 | 16 | 15 | 0 | 0 | 25 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 1.5 | 1.9 | 3.3 | 3.5 | 0.0 | 0.0 | 2.7 | 3.6 | 2.1 | 1.0 | 0.0 | 0.0 | 3.8 | 5.2 | 4.7 | 3.8 | 0.0 | 0.0 | 17 | 16 | 16 | 15 | 0 | 0 | 25 |
| 126 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.7 | 0.8 | 1.3 | 1.7 | 0.0 | 0.0 | 2.2 | 4.0 | 2.6 | 1.6 | 0.0 | 0.0 | 2.9 | 4.3 | 3.0 | 2.0 | 0.0 | 0.0 | 16 | 17 | 17 | 15 | 0 | 0 | 25 |
| 127 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 1.4 | 1.6 | 2.6 | 2.5 | 0.0 | 0.0 | 2.4 | 3.1 | 1.6 | 1.2 | 0.0 | 0.0 | 3.1 | 4.2 | 3.9 | 2.8 | 0.0 | 0.0 | 17 | 17 | 15 | 15 | 0 | 0 | 25 |
| 128 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.8 | 1.0 | 1.6 | 1.9 | 0.0 | 0.0 | 3.0 | 4.7 | 2.6 | 1.3 | 0.0 | 0.0 | 3.2 | 5.0 | 3.2 | 2.2 | 0.0 | 0.0 | 16 | 17 | 17 | 15 | 0 | 0 | 25 |
| 130 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.8 | 1.0 | 1.6 | 1.8 | 0.0 | 0.0 | 2.7 | 3.9 | 2.1 | 1.0 | 0.0 | 0.0 | 3.0 | 4.2 | 2.6 | 2.1 | 0.0 | 0.0 | 16 | 17 | 16 | 15 | 0 | 0 | 25 |
| 134 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.8 | 1.0 | 1.6 | 1.7 | 0.0 | 0.0 | 2.5 | 3.6 | 2.0 | 0.9 | 0.0 | 0.0 | 2.8 | 3.9 | 2.5 | 2.0 | 0.0 | 0.0 | 16 | 17 | 16 | 15 | 0 | 0 | 25 |
| 139 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.8 | 1.0 | 1.5 | 1.7 | 0.0 | 0.0 | 2.5 | 3.5 | 1.9 | 1.0 | 0.0 | 0.0 | 2.7 | 3.8 | 2.5 | 1.9 | 0.0 | 0.0 | 16 | 17 | 16 | 15 | 0 | 0 | 25 |
| 141 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.2 | 1.4 | 2.1 | 2.5 | 0.0 | 0.0 | 1.9 | 2.3 | 1.5 | 1.1 | 0.0 | 0.0 | 2.3 | 3.1 | 2.9 | 2.5 | 0.0 | 0.0 | 16 | 16 | 17 | 15 | 0 | 0 | 25 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.6 | 2.1 | 3.6 | 4.2 | 0.0 | 0.0 | 3.0 | 4.4 | 2.2 | 0.7 | 0.0 | 0.0 | 4.1 | 5.4</ | | | | | | | | | | | |

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

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | Project (HVO S) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | | | |
|-----|--------------------------|----------------------------|-----------------------------|-----------------|------|------|------|-----------------|------|------|------|-----------------------|------|------|------|------------|------|------|------|----------|-----|----|----|----|----|---|---|----|
| | | | | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | | | | | | | | | |
| 368 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.7 | 3.9 | 0.0 | 0.0 | 1.7 | 3.2 | 2.4 | 1.7 | 0.0 | 0.0 | 2.0 | 3.6 | 3.5 | 4.2 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 369 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 3.9 | 0.0 | 0.0 | 1.7 | 3.2 | 2.4 | 1.7 | 0.0 | 0.0 | 2.0 | 3.6 | 3.5 | 4.2 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 370 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.7 | 3.9 | 0.0 | 0.0 | 1.7 | 3.2 | 2.3 | 1.7 | 0.0 | 0.0 | 2.0 | 3.6 | 3.5 | 4.2 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 371 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.0 | 0.0 | 0.0 | 1.7 | 3.3 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.5 | 4.3 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 372 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.0 | 0.0 | 0.0 | 1.6 | 3.2 | 2.4 | 1.6 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.3 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 373 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.7 | 4.0 | 0.0 | 0.0 | 1.7 | 3.3 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.3 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 374 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.0 | 0.0 | 0.0 | 1.7 | 3.3 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.3 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 375 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.0 | 0.0 | 0.0 | 1.7 | 3.3 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.3 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 376 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.8 | 4.1 | 0.0 | 0.0 | 1.7 | 3.4 | 2.5 | 1.8 | 0.0 | 0.0 | 2.1 | 3.7 | 3.6 | 4.4 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 377 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 3.9 | 0.0 | 0.0 | 1.7 | 3.3 | 2.4 | 1.7 | 0.0 | 0.0 | 2.0 | 3.6 | 3.5 | 4.2 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 380 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.4 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 381 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.4 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 382 | Community Infrastructure | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.4 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 383 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.8 | 4.1 | 0.0 | 0.0 | 1.7 | 3.4 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 384 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.7 | 4.1 | 0.0 | 0.0 | 1.7 | 3.3 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.4 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 385 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.1 | 0.0 | 0.0 | 1.6 | 3.3 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.4 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 386 | Community Infrastructure | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.5 | 3.3 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 389 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.7 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.7 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 390 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.7 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.7 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 391 | Private - Commercial | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.7 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.7 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 392 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.7 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.7 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 393 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.3 | 0.0 | 0.0 | 1.7 | 3.5 | 2.7 | 1.8 | 0.0 | 0.0 | 2.1 | 3.7 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 394 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.7 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.7 | 3.6 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 395 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.3 | 0.0 | 0.0 | 1.7 | 3.5 | 2.6 | 1.8 | 0.0 | 0.0 | 2.1 | 3.7 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 396 | Community Infrastructure | - | - | 1.3 | 1.7 | 2.7 | 4.1 | 0.0 | 0.0 | 1.5 | 3.3 | 2.5 | 1.8 | 0.0 | 0.0 | 2.1 | 3.5 | 3.6 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 397 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 398 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.1 | 0.0 | 0.0 | 1.5 | 3.4 | 2.5 | 1.8 | 0.0 | 0.0 | 2.1 | 3.5 | 3.6 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 399 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.5 | 2.6 | 1.8 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 400 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 401 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 402 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.6 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 403 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.5 | 2.7 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 404 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.2 | 0.0 | 0.0 | 1.5 | 3.4 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 405 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 406 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 407 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.2 | 0.0 | 0.0 | 1.5 | 3.3 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.5 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 408 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.1 | 0.0 | 0.0 | 1.5 | 3.3 | 2.5 | 1.8 | 0.0 | 0.0 | 2.1 | 3.5 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 409 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.2 | 0.0 | 0.0 | 1.5 | 3.3 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.5 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 410 | Community Infrastructure | - | - | 1.4 | 1.7 | 2.7 | 4.2 | 0.0 | 0.0 | 1.5 | 3.3 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 411 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.2 | 0.0 | 0.0 | 1.5 | 3.3 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 412 | Community Infrastructure | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.5 | 3.2 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.5 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 16 | 16 | 0 | 0 | 25 |
| 413 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.2 | 0.0 | 0.0 | 1.4 | 3.2 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.5 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 16 | 16 | 0 | 0 | 25 |
| 414 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.2 | 0.0 | 0.0 | 1.5 | 3.2 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.5 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 16 | 16 | 0 | 0 | 25 |
| 415 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.2 | 0.0 | 0.0 | 1.5 | 3.2 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.5 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 16 | 16 | 0 | 0 | 25 |
| 417 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.7 | 3.9 | 0.0 | 0.0 | 1.7 | 3.2 | 2.4 | 1.7 | 0.0 | 0.0 | 2.0 | 3.6 | 3.5 | 4.2 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 418 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.8 | 4.1 | 0.0 | 0.0 | 1.6 | 3.2 | 2.4 | 1.6 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 419 | Private - Dwelling | - | - | 1.3 | 1.6 | 2.7 | 4.1 | 0.0 | 0.0 | 1.4 | 3.0 | 2.3 | 1.7 | 0.0 | 0.0 | 2.1 | 3.4 | 3.7 | 4.4 | 0.0 | 0.0 | 16 | 17 | 16 | 16 | 0 | 0 | 25 |
| 420 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.1 | 0.0 | 0.0 | 1.5 | 3.2 | 2.4 | 1.7 | 0.0 | 0.0 | 2.1 | 3.5 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 16 | 16 | 0 | 0 | 25 |
| 421 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.8 | 4.2 | 0.0 | 0.0 | 1.7 | 3.4 | 2.6 | 1.8 | 0.0 | 0.0 | 2.1 | 3.7 | 3.6 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 422 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.1 | 0.0 | 0.0 | 1.7 | 3.4 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.7 | 3.6 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 423 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.8 | 4.3 | 0.0 | 0.0 | 1.7 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 2.1 | 3.7 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 425 | Private - Dwelling | - | - | 1.3 | 1.7 | 2.9 | 3.9 | 0.0 | 0.0 | 1.1 | 2.3 | 1.6 | 1.3 | 0.0 | 0.0 | 2.1 | 3.3 | 3.7 | 4.3 | 0.0 | 0.0 | 16 | 16 | 16 | 15 | 0 | 0 | 25 |
| 426 | Private - Dwelling | - | - | 1.3 | 1.6 | 2.8 | 4.0 | 0.0 | 0.0 | 1.1 | 2.3 | 1.7 | 1.4 | 0.0 | 0.0 | 2.1 | 3.5 | 3.7 | 4.3 | 0.0 | 0.0 | 16 | 16 | 16 | 15 | 0 | 0 | 25 |
| 427 | Private - Dwelling | - | - | 1.4 | 1.9 | 3.2 | 4.6 | 0.0 | 0.0 | 1.3 | 2.7 | 1.9 | 1.6 | 0.0 | 0.0 | 2.3 | 3.8 | 4.2 | 5.0 | 0.0 | 0.0 | 16 | 16 | 16 | 1 | | | |

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

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | | Project (HVO S) | | | | | Project (HVO Complex) | | | | | Cumulative | | | | | Criteria | | | | |
|-----|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------|------|-----|-----------------|------|------|------|-----|-----------------------|------|------|------|------|------------|------|------|------|----|----------|----|---|---|----|
| | | | | 2024 | 2029 | 2034 | 2041 | | 2024 | 2029 | 2034 | 2041 | | 2024 | 2029 | 2034 | 2041 | | 2024 | 2029 | 2034 | 2041 | | | | | | |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 2.3 | 2.8 | 4.3 | 3.4 | 0.0 | 0.0 | 0.9 | 1.3 | 0.9 | 0.5 | 0.0 | 0.0 | 2.6 | 3.2 | 4.5 | 3.5 | 0.0 | 0.0 | 17 | 18 | 18 | 15 | 0 | 0 | 25 |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-1] | 2.6 | 3.0 | 4.5 | 3.1 | 0.0 | 0.0 | 1.3 | 2.0 | 1.1 | 0.4 | 0.0 | 0.0 | 2.7 | 3.5 | 4.5 | 3.2 | 0.0 | 0.0 | 20 | 21 | 21 | 15 | 0 | 0 | 25 |
| 623 | Community Infrastructure | - | - | 2.6 | 3.0 | 4.9 | 4.2 | 0.0 | 0.0 | 1.1 | 1.6 | 0.9 | 0.5 | 0.0 | 0.0 | 2.8 | 3.5 | 5.2 | 4.3 | 0.0 | 0.0 | 17 | 18 | 18 | 15 | 0 | 0 | 25 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contiguous lots 1/248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 2.5 | 3.0 | 4.8 | 4.0 | 0.0 | 0.0 | 1.0 | 1.5 | 0.9 | 0.5 | 0.0 | 0.0 | 2.8 | 3.4 | 5.1 | 4.1 | 0.0 | 0.0 | 18 | 18 | 18 | 15 | 0 | 0 | 25 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 1/8/758214 and 2/8/758214 | 2.6 | 3.0 | 4.7 | 3.9 | 0.0 | 0.0 | 1.0 | 1.4 | 0.9 | 0.5 | 0.0 | 0.0 | 2.8 | 3.5 | 5.0 | 3.9 | 0.0 | 0.0 | 18 | 18 | 19 | 15 | 0 | 0 | 25 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 2.5 | 3.0 | 4.7 | 3.7 | 0.0 | 0.0 | 1.0 | 1.4 | 0.9 | 0.5 | 0.0 | 0.0 | 2.8 | 3.5 | 5.0 | 3.8 | 0.0 | 0.0 | 18 | 18 | 18 | 15 | 0 | 0 | 25 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 2.5 | 3.0 | 4.6 | 3.7 | 0.0 | 0.0 | 1.0 | 1.4 | 0.9 | 0.5 | 0.0 | 0.0 | 2.8 | 3.4 | 4.9 | 3.8 | 0.0 | 0.0 | 18 | 18 | 18 | 15 | 0 | 0 | 25 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 103/852484 and 104/852484 | 2.5 | 3.1 | 4.7 | 3.6 | 0.0 | 0.0 | 1.0 | 1.5 | 0.8 | 0.4 | 0.0 | 0.0 | 2.9 | 3.5 | 4.9 | 3.7 | 0.0 | 0.0 | 17 | 18 | 18 | 15 | 0 | 0 | 25 |
| 735 | Private - Commercial | - | - | 4.2 | 4.6 | 5.6 | 4.2 | 0.0 | 0.0 | 3.1 | 4.6 | 2.1 | 0.5 | 0.0 | 0.0 | 4.3 | 4.8 | 5.7 | 4.3 | 0.0 | 0.0 | 18 | 19 | 19 | 15 | 0 | 0 | 25 |
| 797 | Community Infrastructure | - | - | 4.7 | 5.2 | 6.6 | 4.4 | 0.0 | 0.0 | 3.3 | 4.8 | 2.1 | 0.5 | 0.0 | 0.0 | 4.9 | 5.4 | 6.7 | 4.5 | 0.0 | 0.0 | 19 | 20 | 20 | 15 | 0 | 0 | 25 |
| 799 | Community Infrastructure | - | - | 4.7 | 5.2 | 6.6 | 4.4 | 0.0 | 0.0 | 3.3 | 4.8 | 2.1 | 0.5 | 0.0 | 0.0 | 4.9 | 5.4 | 6.7 | 4.5 | 0.0 | 0.0 | 19 | 20 | 20 | 15 | 0 | 0 | 25 |
| 800 | Private - Commercial | - | - | 4.7 | 5.2 | 6.6 | 4.4 | 0.0 | 0.0 | 3.3 | 4.8 | 2.1 | 0.5 | 0.0 | 0.0 | 4.9 | 5.4 | 6.7 | 4.5 | 0.0 | 0.0 | 19 | 20 | 20 | 15 | 0 | 0 | 25 |
| 829 | Private - Commercial | - | - | 0.7 | 0.9 | 1.4 | 1.8 | 0.0 | 0.0 | 3.0 | 4.8 | 3.2 | 1.8 | 0.0 | 0.0 | 3.5 | 5.0 | 3.7 | 2.3 | 0.0 | 0.0 | 17 | 18 | 17 | 15 | 0 | 0 | 25 |
| 830 | Private - Commercial | - | - | 0.6 | 0.7 | 1.2 | 1.6 | 0.0 | 0.0 | 3.0 | 4.7 | 2.6 | 1.7 | 0.0 | 0.0 | 3.5 | 5.2 | 3.6 | 2.3 | 0.0 | 0.0 | 17 | 18 | 18 | 15 | 0 | 0 | 25 |
| 833 | Private - Commercial | - | - | 1.2 | 1.5 | 2.5 | 3.5 | 0.0 | 0.0 | 8.5 | 19.4 | 12.1 | 5.6 | 0.0 | 0.0 | 9.1 | 20.1 | 13.4 | 7.6 | 0.0 | 0.0 | 29 | 30 | 25 | 19 | 0 | 0 | 25 |
| 834 | Private - Commercial | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.7 | 3.5 | 2.6 | 1.8 | 0.0 | 0.0 | 2.1 | 3.7 | 3.7 | 4.6 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 835 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.7 | 3.8 | 0.0 | 0.0 | 1.7 | 3.2 | 2.4 | 1.7 | 0.0 | 0.0 | 2.0 | 3.6 | 3.5 | 4.1 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 836 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 3.9 | 0.0 | 0.0 | 1.7 | 3.2 | 2.3 | 1.7 | 0.0 | 0.0 | 2.0 | 3.5 | 3.5 | 4.2 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 837 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.7 | 3.9 | 0.0 | 0.0 | 1.7 | 3.2 | 2.3 | 1.7 | 0.0 | 0.0 | 2.0 | 3.6 | 3.5 | 4.2 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 838 | Private - Dwelling | - | - | 1.4 | 1.8 | 2.8 | 4.2 | 0.0 | 0.0 | 1.7 | 3.4 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.7 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 839 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.7 | 4.2 | 0.0 | 0.0 | 1.6 | 3.3 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 840 | Private - Dwelling | - | - | 1.4 | 1.7 | 2.8 | 4.2 | 0.0 | 0.0 | 1.6 | 3.4 | 2.5 | 1.7 | 0.0 | 0.0 | 2.1 | 3.6 | 3.7 | 4.5 | 0.0 | 0.0 | 16 | 17 | 17 | 16 | 0 | 0 | 25 |
| 843 | Private - Dwelling | - | - | 0.9 | 1.1 | 1.8 | 2.1 | 0.0 | 0.0 | 1.4 | 1.7 | 1.1 | 0.9 | 0.0 | 0.0 | 1.5 | 2.0 | 1.9 | 2.1 | 0.0 | 0.0 | 15 | 16 | 16 | 15 | 0 | 0 | 25 |
| 846 | Private - Dwelling | - | - | 1.1 | 1.3 | 2.2 | 2.3 | 0.0 | 0.0 | 1.4 | 2.0 | 1.3 | 0.8 | 0.0 | 0.0 | 2.0 | 2.5 | 2.5 | 2.3 | 0.0 | 0.0 | 19 | 20 | 20 | 15 | 0 | 0 | 25 |
| 847 | Private - Dwelling | - | - | 1.1 | 1.3 | 2.1 | 2.2 | 0.0 | 0.0 | 1.4 | 2.1 | 1.4 | 0.8 | 0.0 | 0.0 | 1.9 | 2.5 | 2.4 | 2.2 | 0.0 | 0.0 | 17 | 18 | 18 | 15 | 0 | 0 | 25 |
| 852 | Private - Dwelling | - | - | 1.1 | 1.3 | 2.0 | 2.3 | 0.0 | 0.0 | 1.5 | 2.2 | 1.5 | 0.9 | 0.0 | 0.0 | 2.0 | 2.7 | 2.6 | 2.3 | 0.0 | 0.0 | 16 | 17 | 17 | 15 | 0 | 0 | 25 |
| 855 | Private - Dwelling | - | - | 0.8 | 1.0 | 1.6 | 2.1 | 0.0 | 0.0 | 1.9 | 2.6 | 1.5 | 0.8 | 0.0 | 0.0 | 2.1 | 2.9 | 2.2 | 2.2 | 0.0 | 0.0 | 16 | 16 | 16 | 15 | 0 | 0 | 25 |
| 856 | Private - Dwelling | - | - | 1.0 | 1.2 | 2.0 | 2.3 | 0.0 | 0.0 | 1.4 | 2.0 | 1.3 | 0.9 | 0.0 | 0.0 | 1.8 | 2.4 | 2.3 | 2.3 | 0.0 | 0.0 | 17 | 17 | 18 | 15 | 0 | 0 | 25 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 2.3 | 2.5 | 3.8 | 3.1 | 0.0 | 0.0 | 1.0 | 1.8 | 1.0 | 0.5 | 0.0 | 0.0 | 2.4 | 2.9 | 4.1 | 3.2 | 0.0 | 0.0 | 19 | 19 | 20 | 15 | 0 | 0 | 25 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 2.1 | 2.4 | 3.5 | 2.7 | 0.0 | 0.0 | 0.8 | 1.5 | 0.9 | 0.4 | 0.0 | 0.0 | 2.3 | 2.8 | 3.8 | 2.8 | 0.0 | 0.0 | 19 | 19 | 19 | 15 | 0 | 0 | 25 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 2.5 | 3.0 | 4.4 | 3.3 | 0.0 | 0.0 | 1.0 | 1.4 | 0.8 | 0.4 | 0.0 | 0.0 | 2.8 | 3.4 | 4.6 | 3.4 | 0.0 | 0.0 | 19 | 19 | 19 | 15 | 0 | 0 | 25 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 2.4 | 2.8 | 4.0 | 3.1 | 0.0 | 0.0 | 0.9 | 1.2 | 0.9 | 0.4 | 0.0 | 0.0 | 2.6 | 3.2 | 4.3 | 3.1 | 0.0 | 0.0 | 19 | 19 | 19 | 15 | 0 | 0 | 25 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 2.7 | 3.1 | 5.0 | 3.9 | 0.0 | 0.0 | 2.4 | 3.5 | 1.9 | 0.6 | 0.0 | 0.0 | 3.4 | 4.4 | 5.1 | 4.1 | 0.0 | 0.0 | 17 | 18 | 19 | 16 | 0 | 0 | 25 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 2.6 | 3.0 | 4.8 | 3.8 | 0.0 | 0.0 | 2.3 | 3.3 | 1.7 | 0.6 | 0.0 | 0.0 | 3.3 | 4.3 | 4.9 | 4.0 | 0.0 | 0.0 | 17 | 17 | 19 | 16 | 0 | 0 | 25 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOs (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 2.0 | 2.5 | 4.3 | 4.2 | 0.0 | 0.0 | 2.6 | 3.5 | 1.7 | 0.5 | 0.0 | 0.0 | 3.6 | 4.7 | 4.9 | 4.4 | 0.0 | 0.0 | 16 | 16 | 17 | 16 | 0 | 0 | 25 |
| 949 | Private - Dwelling | - | - | 2.0 | 2.5 | 4.3 | 4.2 | 0.0 | 0.0 | 2.6 | 3.5 | 1.7 | 0.5 | 0.0 | 0.0 | 3.6 | 4.7 | 4.9 | 4.4 | 0.0 | 0.0 | 16 | 16 | 17 | 16 | 0 | 0 | 25 |
| 950 | Private - Dwelling | - | - | 2.0 | 2.5 | 4.3 | 4.2 | 0.0 | 0.0 | 2.6 | 3.5 | 1.7 | 0.5 | 0.0 | 0.0 | 3.6 | 4.7 | 4.9 | 4.4 | 0.0 | 0.0 | 16 | 16 | 17 | 16 | 0 | 0 | 25 |

Ashton = Ashton Coal Project, HVO S = Hunter Valley Operations (South), HVO N = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

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

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | Project (HVO S) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | | | |
|-----------------|-----------------------------------------|----------------------------------|----------------------------------|-----------------|------|------|------|-----------------|------|------|------|-----------------------|------|------|------|------------|------|------|------|----------|------|------|------|------|-----|-----|-----|---|
| | | | | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | | | | | | | | | |
| D119 | Monitor | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 0.4 | 0.8 | 0.7 | 0.4 | 0.0 | 0.0 | 0.6 | 1.1 | 1.1 | 1.0 | 0.0 | 0.0 | 5.4 | 6.0 | 5.9 | 5.5 | 0.0 | 0.0 | 8 |
| DL14 | Monitor | - | - | 0.3 | 0.4 | 0.6 | 0.9 | 0.0 | 0.0 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.7 | 0.8 | 0.8 | 0.9 | 0.0 | 0.0 | 6.1 | 6.3 | 6.4 | 5.2 | 0.0 | 0.0 | 0.0 | 8 |
| Warkworth | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 1.5 | 3.1 | 2.0 | 0.7 | 0.0 | 0.5 | 1.1 | 0.9 | 0.6 | 0.0 | 0.0 | 13.4 | 12.0 | 11.8 | 8.7 | 0.0 | 0.0 | 0.0 | 8 |
| D118 | Monitor | - | - | 0.2 | 0.2 | 0.4 | 0.5 | 0.0 | 0.0 | 0.2 | 0.6 | 0.5 | 0.3 | 0.0 | 0.0 | 0.8 | 0.9 | 0.9 | 0.0 | 0.0 | 5.9 | 6.2 | 6.3 | 5.9 | 0.0 | 0.0 | 0.0 | 8 |
| Knodlers Lane | Monitor | - | - | 0.2 | 0.3 | 0.5 | 0.7 | 0.0 | 0.0 | 0.6 | 0.7 | 0.3 | 0.1 | 0.0 | 0.0 | 0.8 | 0.9 | 0.8 | 0.0 | 0.0 | 6.4 | 6.5 | 6.4 | 5.0 | 0.0 | 0.0 | 0.0 | 8 |
| DL22 | Monitor | - | - | 0.2 | 0.2 | 0.4 | 0.5 | 0.0 | 0.0 | 1.2 | 1.5 | 0.7 | 0.2 | 0.0 | 0.0 | 1.4 | 1.7 | 1.1 | 0.7 | 0.0 | 7.3 | 7.7 | 7.1 | 5.1 | 0.0 | 0.0 | 0.0 | 8 |
| DL21 | Monitor | - | - | 0.2 | 0.3 | 0.5 | 0.7 | 0.0 | 0.0 | 0.7 | 0.7 | 0.3 | 0.1 | 0.0 | 0.0 | 0.9 | 1.0 | 0.8 | 0.0 | 0.0 | 6.4 | 6.5 | 6.4 | 5.1 | 0.0 | 0.0 | 0.0 | 8 |
| D122 | Monitor | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.3 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 0.5 | 0.6 | 0.5 | 0.4 | 0.0 | 5.6 | 5.8 | 5.7 | 4.7 | 0.0 | 0.0 | 0.0 | 8 |
| DL30 | Monitor | - | - | 0.1 | 0.2 | 0.3 | 0.5 | 0.0 | 0.0 | 1.5 | 3.1 | 2.0 | 0.7 | 0.0 | 0.0 | 1.6 | 3.2 | 2.3 | 1.1 | 0.0 | 8.9 | 10.4 | 9.6 | 6.0 | 0.0 | 0.0 | 0.0 | 8 |
| DL2 | Monitor | - | - | 0.5 | 0.7 | 1.2 | 1.7 | 0.0 | 0.0 | 0.8 | 0.8 | 0.4 | 0.1 | 0.0 | 0.0 | 1.4 | 1.5 | 1.6 | 1.8 | 0.0 | 7.2 | 7.4 | 7.5 | 6.1 | 0.0 | 0.0 | 0.0 | 8 |
| Warkworth | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 0.4 | 1.0 | 0.7 | 0.4 | 0.0 | 0.0 | 0.5 | 1.1 | 0.9 | 0.6 | 0.0 | 13.4 | 12.0 | 11.8 | 8.7 | 0.0 | 0.0 | 0.0 | 8 |
| Cheshunt East | Monitor | - | - | 0.7 | 0.8 | 1.5 | 1.8 | 0.0 | 0.0 | 0.5 | 0.6 | 0.3 | 0.1 | 0.0 | 0.0 | 1.2 | 1.4 | 1.8 | 1.9 | 0.0 | 7.6 | 8.0 | 8.3 | 6.1 | 0.0 | 0.0 | 0.0 | 8 |
| Long Point | Monitor | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.4 | 0.6 | 0.4 | 0.1 | 0.0 | 0.0 | 0.6 | 0.8 | 0.6 | 0.5 | 0.0 | 5.9 | 6.2 | 6.0 | 4.7 | 0.0 | 0.0 | 0.0 | 8 |
| Kilburnie South | Monitor | - | - | 0.2 | 0.2 | 0.4 | 0.5 | 0.0 | 0.0 | 0.2 | 0.6 | 0.5 | 0.3 | 0.0 | 0.0 | 0.4 | 0.8 | 0.9 | 0.9 | 0.0 | 5.9 | 6.2 | 6.3 | 5.9 | 0.0 | 0.0 | 0.0 | 8 |
| Wandewai | Monitor | - | - | 0.5 | 0.7 | 1.2 | 2.1 | 0.0 | 0.0 | 1.0 | 2.9 | 2.6 | 1.8 | 0.0 | 0.0 | 1.5 | 3.6 | 3.8 | 3.9 | 0.0 | 6.9 | 9.1 | 9.3 | 8.8 | 0.0 | 0.0 | 0.0 | 8 |
| Howick | Monitor | - | - | 6.6 | 6.1 | 5.6 | 3.5 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 6.8 | 6.4 | 5.8 | 3.6 | 0.0 | 14.9 | 14.8 | 14.2 | 7.7 | 0.0 | 0.0 | 0.0 | 8 |
| Golden Highway | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.3 | 0.6 | 0.4 | 0.2 | 0.0 | 0.0 | 0.4 | 0.7 | 0.6 | 0.4 | 0.0 | 14.9 | 15.5 | 15.4 | 5.2 | 0.0 | 0.0 | 0.0 | 8 |
| HCl Conveyor | Monitor | - | - | 14.1 | 13.6 | 12.1 | 6.4 | 0.0 | 0.0 | 0.6 | 0.6 | 0.4 | 0.1 | 0.0 | 0.0 | 14.7 | 14.2 | 12.4 | 6.5 | 0.0 | 25.0 | 25.2 | 43.5 | 10.7 | 0.0 | 0.0 | 0.0 | 8 |
| Maison Dieu | Monitor | - | - | 0.3 | 0.4 | 0.6 | 0.8 | 0.0 | 0.0 | 0.4 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.7 | 0.8 | 0.8 | 0.9 | 0.0 | 6.2 | 6.3 | 6.4 | 5.2 | 0.0 | 0.0 | 0.0 | 8 |
| Warkworth | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.3 | 0.7 | 0.5 | 0.3 | 0.0 | 0.0 | 0.4 | 0.8 | 0.7 | 0.5 | 0.0 | 10.8 | 10.6 | 10.5 | 6.7 | 0.0 | 0.0 | 0.0 | 8 |
| Knodlers Lane | Monitor | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 1.2 | 1.4 | 0.6 | 0.2 | 0.0 | 0.0 | 1.4 | 1.6 | 1.0 | 0.8 | 0.0 | 7.1 | 7.4 | 6.9 | 5.1 | 0.0 | 0.0 | 0.0 | 8 |
| Jerrys Plains | Monitor | - | - | 0.2 | 0.2 | 0.3 | 0.5 | 0.0 | 0.0 | 0.3 | 0.6 | 0.4 | 0.3 | 0.0 | 0.0 | 0.4 | 0.8 | 0.8 | 0.7 | 0.0 | 5.0 | 5.4 | 5.4 | 5.1 | 0.0 | 0.0 | 0.0 | 8 |
| Cheshunt East | Monitor | - | - | 0.7 | 0.8 | 1.5 | 1.8 | 0.0 | 0.0 | 0.5 | 0.6 | 0.3 | 0.1 | 0.0 | 0.0 | 1.2 | 1.4 | 1.8 | 1.9 | 0.0 | 7.6 | 8.0 | 8.3 | 6.1 | 0.0 | 0.0 | 0.0 | 8 |
| HVGC | Monitor | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.0 | 0.0 | 1.4 | 3.7 | 2.4 | 1.1 | 0.0 | 0.0 | 1.5 | 3.9 | 2.7 | 1.6 | 0.0 | 9.7 | 11.5 | 10.3 | 7.0 | 0.0 | 0.0 | 0.0 | 8 |
| Long Point | Monitor | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.4 | 0.6 | 0.4 | 0.1 | 0.0 | 0.0 | 0.6 | 0.8 | 0.6 | 0.5 | 0.0 | 5.9 | 6.2 | 6.0 | 4.7 | 0.0 | 0.0 | 0.0 | 8 |
| Kilburnie South | Monitor | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 0.2 | 0.6 | 0.5 | 0.3 | 0.0 | 0.0 | 0.4 | 0.8 | 0.9 | 0.9 | 0.0 | 5.9 | 6.2 | 6.3 | 5.9 | 0.0 | 0.0 | 0.0 | 8 |
| Kilburnie South | Monitor | - | - | 0.2 | 0.2 | 0.4 | 0.5 | 0.0 | 0.0 | 0.2 | 0.6 | 0.5 | 0.3 | 0.0 | 0.0 | 0.4 | 0.8 | 0.9 | 0.9 | 0.0 | 5.9 | 6.2 | 6.3 | 5.9 | 0.0 | 0.0 | 0.0 | 8 |
| Maison Dieu | Monitor | - | - | 0.3 | 0.4 | 0.6 | 0.8 | 0.0 | 0.0 | 0.4 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.7 | 0.8 | 0.8 | 0.9 | 0.0 | 6.2 | 6.3 | 6.4 | 5.2 | 0.0 | 0.0 | 0.0 | 8 |
| Maison Dieu | Monitor | - | - | 0.3 | 0.4 | 0.6 | 0.8 | 0.0 | 0.0 | 0.4 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.7 | 0.8 | 0.8 | 0.9 | 0.0 | 6.2 | 6.3 | 6.4 | 5.2 | 0.0 | 0.0 | 0.0 | 8 |
| Knodlers Lane | Monitor | - | - | 0.2 | 0.3 | 0.5 | 0.7 | 0.0 | 0.0 | 0.6 | 0.7 | 0.3 | 0.1 | 0.0 | 0.0 | 0.8 | 0.9 | 0.8 | 0.8 | 0.0 | 6.4 | 6.5 | 6.4 | 5.0 | 0.0 | 0.0 | 0.0 | 8 |
| 17 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 4.7 | 4.8 | 4.8 | 4.3 | 0.0 | 0.0 | 0.0 | 8 |
| 19 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 4.8 | 4.8 | 4.8 | 4.3 | 0.0 | 0.0 | 0.0 | 8 |
| 37 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 4.8 | 4.9 | 4.9 | 4.3 | 0.0 | 0.0 | 0.0 | 8 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) (SSD6464) | Warkworth (Noise & AQ) (SSD6464) | 0.1 | 0.1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.3 | 0.8 | 0.6 | 0.3 | 0.0 | 0.0 | 0.4 | 0.9 | 0.7 | 0.5 | 0.0 | 10.9 | 10.7 | 10.5 | 6.9 | 0.0 | 0.0 | 0.0 | 8 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.2 | 0.3 | 0.5 | 0.7 | 0.0 | 0.0 | 0.6 | 0.7 | 0.3 | 0.1 | 0.0 | 0.0 | 0.8 | 0.9 | 0.8 | 0.8 | 0.0 | 6.4 | 6.5 | 6.4 | 5.0 | 0.0 | 0.0 | 0.0 | 8 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.2 | 0.3 | 0.4 | 0.6 | 0.0 | 0.0 | 0.7 | 0.8 | 0.4 | 0.1 | 0.0 | 0.0 | 0.9 | 1.1 | 0.8 | 0.7 | 0.0 | 6.6 | 6.8 | 6.5 | 5.0 | 0.0 | 0.0 | 0.0 | 8 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.2 | 0.3 | 0.5 | 0.7 | 0.0 | 0.0 | 0.5 | 0.6 | 0.3 | 0.1 | 0.0 | 0.0 | 0.8 | 0.9 | 0.8 | 0.8 | 0.0 | 6.3 | 6.5 | 6.4 | 5.0 | 0.0 | 0.0 | 0.0 | 8 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.2 | 0.3 | 0.5 | 0.6 | 0.0 | 0.0 | 0.6 | 0.7 | 0.4 | 0.1 | 0.0 | 0.0 | 0.9 | 1.0 | 0.8 | 0.7 | 0.0 | 6.5 | 6.7 | 6.5 | 5.0 | 0.0 | 0.0 | 0.0 | 8 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.2 | 0.3 | 0.5 | 0.7 | 0.0 | 0.0 | 0.5 | 0.6 | 0.3 | 0.1 | 0.0 | 0.0 | 0.8 | 0.9 | 0.8 | 0.8 | 0.0 | 6.3 | 6.5 | 6.4 | 5.0 | 0.0 | 0.0 | 0.0 | 8 |
| 126 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.1 | 0.1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.4 | 0.7 | 0.4 | 0.2 | 0.0 | 0.0 | 0.5 | 0.8 | 0.6 | 0.4 | 0.0 | 6.1 | 6.5 | 6.3 | 4.7 | 0.0 | 0.0 | 0.0 | 8 |
| 127 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.2 | 0.2 | 0.4 | 0.5 | 0.0 | 0.0 | 0.4 | 0.6 | 0.3 | 0.1 | 0.0 | 0.0 | 0.6 | 0.8 | 0.7 | 0.6 | 0.0 | 6.5 | 6.8 | 6.7 | 4.8 | 0.0 | 0.0 | 0.0 | 8 |
| 128 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 0.5 | 0.8 | 0.5 | 0.2 | 0.0 | 0.0 | 0.6 | 0.9 | 0.7 | 0.5 | 0.0 | 6.2 | 6.6 | 6.3 | 4.7 | 0.0 | 0.0 | 0.0 | 8 |
| 130 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.1 | 0.2 | 0.2 | 0.3 | 0.0 | 0.0 | 0.5 | 0.7 | 0.4 | 0.1 | 0.0 | 0.0 | 0.6 | 0.9 | 0.6 | 0.5 | 0.0 | 6.0 | 6.3 | 6.1 | 4.7 | 0.0 | 0.0 | 0.0 | 8 |
| 134 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.5 | 0.7 | 0.4 | 0.1 | 0.0 | 0.0 | 0.6 | 0.8 | 0.6 | 0.5 | 0.0 | 5.9 | 6.2 | 6.0 | 4.7 | 0.0 | 0.0 | 0.0 | 8 |
| 139 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 0.4 | 0.7 | 0.4 | 0.1 | 0.0 | 0.0 | 0.5 | 0.8 | 0.6 | 0.4 | 0.0 | 5.8 | 6.1 | 5.9 | 4.7 | 0.0 | 0.0 | 0.0 | 8 |
| 141 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0. | | | | | | | | | | | | | | |

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

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | | Project (HVO S) | | | | | Project (HVO Complex) | | | | | Cumulative | | | | | Criteria | | | | | |
|-----|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------|------|-----|-----------------|------|------|------|-----|-----------------------|------|------|------|-----|------------|------|------|------|------|----------|-----|-----|-----|-----|---|
| | | | | 2024 | 2029 | 2034 | 2041 | | 2024 | 2029 | 2034 | 2041 | | 2024 | 2029 | 2034 | 2041 | | 2024 | 2029 | 2034 | 2041 | | | | | | | |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.5 | 0.5 | 0.6 | 0.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 0.7 | 0.4 | 0.0 | 0.0 | 7.4 | 7.8 | 7.9 | 4.6 | 0.0 | 0.0 | 8 | |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-1] | 0.5 | 0.6 | 0.8 | 0.5 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.7 | 0.9 | 0.6 | 0.0 | 0.0 | 9.0 | 9.5 | 9.7 | 4.7 | 0.0 | 0.0 | 8 | |
| 623 | Community Infrastructure | - | - | 0.6 | 0.6 | 0.8 | 0.5 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.7 | 0.9 | 0.5 | 0.0 | 0.0 | 7.2 | 7.5 | 7.7 | 4.7 | 0.0 | 0.0 | 8 | |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contiguous lots 1/248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 0.5 | 0.6 | 0.8 | 0.5 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.7 | 0.9 | 0.5 | 0.0 | 0.0 | 7.5 | 7.8 | 7.9 | 4.7 | 0.0 | 0.0 | 8 | |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 1/8/758214 and 2/8/758214 | 0.5 | 0.6 | 0.8 | 0.5 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.7 | 0.8 | 0.5 | 0.0 | 0.0 | 7.7 | 8.0 | 8.2 | 4.6 | 0.0 | 0.0 | 8 | |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.5 | 0.6 | 0.7 | 0.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.7 | 0.8 | 0.4 | 0.0 | 0.0 | 7.6 | 7.9 | 8.1 | 4.6 | 0.0 | 0.0 | 8 | |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.5 | 0.5 | 0.7 | 0.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.7 | 0.4 | 0.0 | 0.0 | 7.5 | 7.8 | 8.0 | 4.6 | 0.0 | 0.0 | 8 | |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 103/852484 and 104/852484 | 0.5 | 0.5 | 0.7 | 0.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.7 | 0.4 | 0.0 | 0.0 | 7.4 | 7.7 | 7.8 | 4.6 | 0.0 | 0.0 | 8 | |
| 735 | Private - Commercial | - | - | 0.5 | 0.5 | 0.6 | 0.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.7 | 0.4 | 0.0 | 0.0 | 7.2 | 7.4 | 7.5 | 4.6 | 0.0 | 0.0 | 8 | |
| 797 | Community Infrastructure | - | - | 0.6 | 0.6 | 0.7 | 0.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.8 | 0.5 | 0.0 | 0.0 | 7.5 | 7.7 | 7.8 | 4.6 | 0.0 | 0.0 | 8 | |
| 799 | Community Infrastructure | - | - | 0.6 | 0.6 | 0.7 | 0.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.8 | 0.5 | 0.0 | 0.0 | 7.5 | 7.7 | 7.8 | 4.6 | 0.0 | 0.0 | 8 | |
| 800 | Private - Commercial | - | - | 0.6 | 0.6 | 0.7 | 0.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.8 | 0.5 | 0.0 | 0.0 | 7.5 | 7.7 | 7.8 | 4.6 | 0.0 | 0.0 | 8 | |
| 829 | Private - Commercial | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 0.4 | 0.9 | 0.5 | 0.2 | 0.0 | 0.0 | 0.6 | 1.0 | 0.8 | 0.5 | 0.0 | 0.0 | 6.8 | 7.3 | 7.1 | 4.8 | 0.0 | 0.0 | 8 | |
| 830 | Private - Commercial | - | - | 0.1 | 0.1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.4 | 0.8 | 0.5 | 0.2 | 0.0 | 0.0 | 0.5 | 0.9 | 0.7 | 0.5 | 0.0 | 0.0 | 7.5 | 8.0 | 7.8 | 4.9 | 0.0 | 0.0 | 8 | |
| 833 | Private - Commercial | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.0 | 0.0 | 1.4 | 3.8 | 2.5 | 1.2 | 0.0 | 0.0 | 1.5 | 4.0 | 2.8 | 1.6 | 0.0 | 0.0 | 10.1 | 11.7 | 10.5 | 7.3 | 0.0 | 0.0 | 8 | |
| 834 | Private - Commercial | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 0.4 | 0.8 | 0.6 | 0.4 | 0.0 | 0.0 | 0.5 | 1.1 | 1.0 | 1.0 | 0.0 | 0.0 | 5.4 | 5.9 | 5.9 | 5.5 | 0.0 | 0.0 | 8 | |
| 835 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 0.4 | 0.8 | 0.6 | 0.4 | 0.0 | 0.0 | 0.6 | 1.1 | 1.0 | 1.0 | 0.0 | 0.0 | 5.4 | 5.9 | 5.9 | 5.5 | 0.0 | 0.0 | 8 | |
| 836 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 0.3 | 0.8 | 0.6 | 0.4 | 0.0 | 0.0 | 0.5 | 1.0 | 1.0 | 0.9 | 0.0 | 0.0 | 5.3 | 5.8 | 5.8 | 5.4 | 0.0 | 0.0 | 8 | |
| 837 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 0.3 | 0.8 | 0.6 | 0.4 | 0.0 | 0.0 | 0.5 | 1.0 | 1.0 | 0.9 | 0.0 | 0.0 | 5.3 | 5.8 | 5.8 | 5.4 | 0.0 | 0.0 | 8 | |
| 838 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 0.3 | 0.8 | 0.6 | 0.4 | 0.0 | 0.0 | 0.5 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 5.4 | 5.9 | 5.9 | 5.5 | 0.0 | 0.0 | 8 | |
| 839 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 0.3 | 0.7 | 0.6 | 0.4 | 0.0 | 0.0 | 0.5 | 1.0 | 1.0 | 0.9 | 0.0 | 0.0 | 5.3 | 5.8 | 5.8 | 5.4 | 0.0 | 0.0 | 8 | |
| 840 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 0.3 | 0.8 | 0.6 | 0.4 | 0.0 | 0.0 | 0.5 | 1.0 | 1.0 | 0.9 | 0.0 | 0.0 | 5.3 | 5.9 | 5.8 | 5.5 | 0.0 | 0.0 | 8 | |
| 843 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 5.4 | 5.6 | 5.6 | 4.6 | 0.0 | 0.0 | 8 | |
| 846 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.4 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 6.4 | 6.6 | 6.7 | 4.6 | 0.0 | 0.0 | 8 | |
| 847 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.4 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 6.1 | 6.2 | 6.3 | 4.6 | 0.0 | 0.0 | 8 | |
| 852 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.4 | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.4 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 5.9 | 6.1 | 6.1 | 4.7 | 0.0 | 0.0 | 8 | |
| 855 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.3 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 0.5 | 0.6 | 0.5 | 0.4 | 0.0 | 0.0 | 5.6 | 5.8 | 5.7 | 4.7 | 0.0 | 0.0 | 8 | |
| 856 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.3 | 0.4 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.4 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 5.8 | 6.0 | 6.0 | 4.6 | 0.0 | 0.0 | 8 | |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0.5 | 0.5 | 0.7 | 0.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 0.7 | 0.4 | 0.0 | 0.0 | 8.4 | 8.9 | 9.0 | 4.6 | 0.0 | 0.0 | 8 | |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0.4 | 0.4 | 0.5 | 0.3 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.5 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 | 8.5 | 9.2 | 9.3 | 4.5 | 0.0 | 0.0 | 8 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0.5 | 0.5 | 0.6 | 0.4 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 0.7 | 0.4 | 0.0 | 0.0 | 8.2 | 8.7 | 8.8 | 4.6 | 0.0 | 0.0 | 8 | |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0.4 | 0.5 | 0.6 | 0.3 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.6 | 0.4 | 0.0 | 0.0 | 8.4 | 8.9 | 9.0 | 4.5 | 0.0 | 0.0 | 8 | |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 0.4 | 0.5 | 0.9 | 0.9 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.8 | 1.0 | 0.9 | 0.0 | 0.0 | 6.4 | 6.7 | 6.9 | 5.1 | 0.0 | 0.0 | 8 | |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 0.4 | 0.5 | 0.9 | 0.9 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.7 | 1.0 | 0.9 | 0.0 | 0.0 | 6.4 | 6.6 | 6.9 | 5.1 | 0.0 | 0.0 | 8 | |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOs (Noise) [06_0281] | Rav Ops (AQ) [DA 09_0176] | 0.3 | 0.4 | 0.7 | 0.9 | 0.0 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.6 | 0.7 | 0.9 | 0.9 | 0.0 | 0.0 | 6.1 | 6.3 | 6.4 | 5.2 | 0.0 | 0.0 | 8 | |
| 949 | Private - Dwelling | - | - | 0.3 | 0.4 | 0.7 | 0.9 | 0.0 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.6 | 0.7 | 0.9 | 0.9 | 0.0 | 0.0 | 6.1 | 6.3 | 6.4 | 5.2 | 0.0 | 0.0 | 8 | |
| 950 | Private - Dwelling | - | - | 0.3 | 0.4 | 0.7 | 0.9 | 0.0 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.6 | 0.7 | 0.9 | 0.9 | 0.0 | 0.0 | 6.1 | 6.3 | 6.4 | 5.2 | 0.0 | 0.0 | 8 | |

Ashton = Ashton Coal Project, HVO S = Hunter Valley Operations (South), HVO N = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

Modelled annual average TSP concentrations (ug/m3)

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | Project (HVO S) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | | | |
|-----------------|-----------------------------------------|----------------------------------|----------------------------------|-----------------|------|-------|------|-----------------|------|------|------|-----------------------|------|------|------|------------|------|-------|------|----------|-----|-----|-----|-----|----|---|---|----|
| | | | | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | | | | | | | | | |
| D119 | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 1.1 | 2.7 | 2.1 | 1.5 | 0.0 | 0.0 | 1.2 | 2.8 | 2.3 | 1.9 | 0.0 | 0.0 | 58 | 59 | 59 | 58 | 0 | 0 | 90 |
| DL14 | Monitor | - | - | 0.5 | 0.6 | 1.1 | 1.8 | 0.0 | 0.0 | 1.0 | 0.7 | 0.4 | 0.1 | 0.0 | 0.0 | 1.5 | 1.3 | 1.5 | 2.0 | 0.0 | 0.0 | 57 | 57 | 57 | 57 | 0 | 0 | 90 |
| Warkworth | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 0.4 | 1.2 | 1.2 | 0.5 | 0.0 | 0.0 | 0.5 | 1.2 | 1.3 | 1.7 | 0.0 | 0.0 | 61 | 76 | 77 | 70 | 0 | 0 | 90 |
| D118 | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 0.4 | 1.2 | 1.1 | 0.8 | 0.0 | 0.0 | 0.5 | 1.2 | 1.3 | 1.0 | 0.0 | 0.0 | 60 | 61 | 60 | 60 | 0 | 0 | 90 |
| Knodlers Lane | Monitor | - | - | 0.3 | 0.4 | 0.7 | 1.2 | 0.0 | 0.0 | 2.8 | 2.5 | 1.1 | 0.4 | 0.0 | 0.0 | 3.1 | 2.9 | 1.8 | 1.6 | 0.0 | 0.0 | 59 | 59 | 58 | 57 | 0 | 0 | 90 |
| DL22 | Monitor | - | - | 0.2 | 0.3 | 0.4 | 0.8 | 0.0 | 0.0 | 6.0 | 6.9 | 3.2 | 1.0 | 0.0 | 0.0 | 6.2 | 7.2 | 3.7 | 1.8 | 0.0 | 0.0 | 62 | 64 | 60 | 57 | 0 | 0 | 90 |
| DL21 | Monitor | - | - | 0.4 | 0.4 | 0.8 | 1.4 | 0.0 | 0.0 | 3.1 | 2.3 | 0.9 | 0.3 | 0.0 | 0.0 | 3.5 | 2.8 | 1.7 | 1.7 | 0.0 | 0.0 | 59 | 59 | 58 | 57 | 0 | 0 | 90 |
| D122 | Monitor | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 1.6 | 2.0 | 1.1 | 0.5 | 0.0 | 0.0 | 1.8 | 2.2 | 1.5 | 1.1 | 0.0 | 0.0 | 57 | 58 | 57 | 56 | 0 | 0 | 90 |
| DL30 | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 3.6 | 9.5 | 8.6 | 3.2 | 0.0 | 0.0 | 3.8 | 9.6 | 8.9 | 3.6 | 0.0 | 0.0 | 63 | 69 | 68 | 59 | 0 | 0 | 90 |
| DL2 | Monitor | - | - | 1.0 | 1.3 | 2.4 | 4.2 | 0.0 | 0.0 | 1.2 | 1.0 | 0.5 | 0.2 | 0.0 | 0.0 | 2.2 | 2.3 | 2.9 | 4.4 | 0.0 | 0.0 | 58 | 58 | 59 | 59 | 0 | 0 | 90 |
| Warkworth | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 0.4 | 1.2 | 1.2 | 0.9 | 0.0 | 0.0 | 0.5 | 1.2 | 1.3 | 1.0 | 0.0 | 0.0 | 61 | 76 | 77 | 70 | 0 | 0 | 90 |
| Cheshunt East | Monitor | - | - | 1.5 | 2.0 | 3.6 | 4.8 | 0.0 | 0.0 | 0.7 | 0.6 | 0.4 | 0.1 | 0.0 | 0.0 | 2.2 | 2.6 | 4.0 | 4.9 | 0.0 | 0.0 | 59 | 59 | 61 | 60 | 0 | 0 | 90 |
| Long Point | Monitor | - | - | 0.2 | 0.2 | 0.4 | 0.5 | 0.0 | 0.0 | 2.0 | 2.6 | 1.5 | 0.6 | 0.0 | 0.0 | 2.2 | 2.9 | 1.8 | 1.1 | 0.0 | 0.0 | 58 | 59 | 58 | 56 | 0 | 0 | 90 |
| Kilburnie South | Monitor | - | - | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 | 0.4 | 1.2 | 1.2 | 0.9 | 0.0 | 0.0 | 0.5 | 1.3 | 1.3 | 1.1 | 0.0 | 0.0 | 60 | 61 | 61 | 60 | 0 | 0 | 90 |
| Wandewai | Monitor | - | - | 0.2 | 0.3 | 0.6 | 1.3 | 0.0 | 0.0 | 3.6 | 10.4 | 9.0 | 6.9 | 0.0 | 0.0 | 3.8 | 10.7 | 9.6 | 8.2 | 0.0 | 0.0 | 61 | 68 | 67 | 65 | 0 | 0 | 90 |
| Howick | Monitor | - | - | 26.5 | 27.8 | 19.0 | 26.7 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 26.7 | 28.0 | 19.1 | 26.7 | 0.0 | 0.0 | 90 | 99 | 83 | 82 | 0 | 0 | 90 |
| Golden Highway | Monitor | - | - | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 | 0.5 | 1.1 | 1.0 | 0.6 | 0.0 | 0.0 | 0.6 | 1.2 | 1.1 | 0.8 | 0.0 | 0.0 | 90 | 92 | 92 | 58 | 0 | 0 | 90 |
| HCl Conveyor | Monitor | - | - | 62.5 | 83.5 | 204.0 | 17.8 | 0.0 | 0.0 | 0.9 | 0.6 | 0.5 | 0.2 | 0.0 | 0.0 | 63.4 | 84.1 | 204.5 | 18.0 | 0.0 | 0.0 | 182 | 211 | 331 | 73 | 0 | 0 | 90 |
| Maison Dieu | Monitor | - | - | 0.5 | 0.6 | 1.1 | 1.8 | 0.0 | 0.0 | 1.1 | 0.8 | 0.4 | 0.1 | 0.0 | 0.0 | 1.5 | 1.4 | 1.5 | 1.9 | 0.0 | 0.0 | 57 | 57 | 57 | 57 | 0 | 0 | 90 |
| Warkworth | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.3 | 0.9 | 0.9 | 0.6 | 0.0 | 0.0 | 0.4 | 0.9 | 1.0 | 0.8 | 0.0 | 0.0 | 73 | 72 | 72 | 63 | 0 | 0 | 90 |
| Knodlers Lane | Monitor | - | - | 0.2 | 0.3 | 0.5 | 0.9 | 0.0 | 0.0 | 6.1 | 6.3 | 2.6 | 0.8 | 0.0 | 0.0 | 6.3 | 6.6 | 3.1 | 1.7 | 0.0 | 0.0 | 62 | 63 | 59 | 57 | 0 | 0 | 90 |
| Jerrys Plains | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.5 | 0.0 | 0.0 | 0.7 | 1.5 | 1.2 | 0.7 | 0.0 | 0.0 | 0.8 | 1.6 | 1.4 | 1.3 | 0.0 | 0.0 | 57 | 57 | 57 | 57 | 0 | 0 | 90 |
| Cheshunt East | Monitor | - | - | 1.5 | 2.0 | 3.6 | 4.8 | 0.0 | 0.0 | 0.7 | 0.6 | 0.4 | 0.1 | 0.0 | 0.0 | 2.2 | 2.6 | 4.0 | 4.9 | 0.0 | 0.0 | 59 | 59 | 61 | 60 | 0 | 0 | 90 |
| HVGC | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 2.7 | 8.9 | 8.3 | 4.8 | 0.0 | 0.0 | 2.8 | 9.1 | 8.6 | 5.2 | 0.0 | 0.0 | 63 | 69 | 69 | 62 | 0 | 0 | 90 |
| Long Point | Monitor | - | - | 0.2 | 0.2 | 0.4 | 0.5 | 0.0 | 0.0 | 2.0 | 2.6 | 1.5 | 0.6 | 0.0 | 0.0 | 2.2 | 2.9 | 1.8 | 1.1 | 0.0 | 0.0 | 58 | 59 | 58 | 56 | 0 | 0 | 90 |
| Kilburnie South | Monitor | - | - | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 | 0.4 | 1.2 | 1.2 | 0.9 | 0.0 | 0.0 | 0.5 | 1.3 | 1.3 | 1.1 | 0.0 | 0.0 | 60 | 61 | 61 | 60 | 0 | 0 | 90 |
| Kilburnie South | Monitor | - | - | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 | 0.4 | 1.2 | 1.1 | 0.8 | 0.0 | 0.0 | 0.5 | 1.2 | 1.3 | 1.0 | 0.0 | 0.0 | 60 | 61 | 61 | 60 | 0 | 0 | 90 |
| Maison Dieu | Monitor | - | - | 0.5 | 0.6 | 1.0 | 1.8 | 0.0 | 0.0 | 1.1 | 0.8 | 0.4 | 0.1 | 0.0 | 0.0 | 1.1 | 1.4 | 1.5 | 1.9 | 0.0 | 0.0 | 57 | 57 | 57 | 57 | 0 | 0 | 90 |
| Maison Dieu | Monitor | - | - | 0.5 | 0.6 | 1.1 | 1.8 | 0.0 | 0.0 | 1.1 | 0.8 | 0.4 | 0.1 | 0.0 | 0.0 | 1.5 | 1.4 | 1.5 | 1.9 | 0.0 | 0.0 | 57 | 57 | 57 | 57 | 0 | 0 | 90 |
| Knodlers Lane | Monitor | - | - | 0.3 | 0.4 | 0.7 | 1.2 | 0.0 | 0.0 | 2.8 | 2.5 | 1.1 | 0.4 | 0.0 | 0.0 | 3.1 | 2.9 | 1.8 | 1.6 | 0.0 | 0.0 | 59 | 59 | 58 | 57 | 0 | 0 | 90 |
| 17 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 56 | 56 | 56 | 55 | 0 | 0 | 90 |
| 19 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 56 | 56 | 56 | 55 | 0 | 0 | 90 |
| 37 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 56 | 56 | 56 | 55 | 0 | 0 | 90 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) (SSD6464) | Warkworth (Noise & AQ) (SSD6464) | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.4 | 1.0 | 1.0 | 0.7 | 0.0 | 0.0 | 0.4 | 1.0 | 1.1 | 0.8 | 0.0 | 0.0 | 73 | 72 | 72 | 63 | 0 | 0 | 90 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.3 | 0.4 | 0.7 | 1.2 | 0.0 | 0.0 | 2.8 | 2.5 | 1.1 | 0.4 | 0.0 | 0.0 | 3.1 | 2.9 | 1.8 | 1.6 | 0.0 | 0.0 | 59 | 59 | 58 | 57 | 0 | 0 | 90 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.3 | 0.4 | 0.6 | 1.1 | 0.0 | 0.0 | 3.7 | 3.6 | 1.6 | 0.5 | 0.0 | 0.0 | 4.0 | 3.9 | 2.2 | 1.6 | 0.0 | 0.0 | 60 | 60 | 58 | 57 | 0 | 0 | 90 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.3 | 0.4 | 0.8 | 1.3 | 0.0 | 0.0 | 2.4 | 2.1 | 1.0 | 0.3 | 0.0 | 0.0 | 2.8 | 2.6 | 1.7 | 1.6 | 0.0 | 0.0 | 59 | 58 | 58 | 57 | 0 | 0 | 90 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.3 | 0.4 | 0.7 | 1.2 | 0.0 | 0.0 | 3.1 | 2.9 | 1.3 | 0.4 | 0.0 | 0.0 | 3.4 | 3.3 | 2.0 | 1.6 | 0.0 | 0.0 | 59 | 59 | 58 | 57 | 0 | 0 | 90 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.4 | 0.4 | 0.8 | 1.3 | 0.0 | 0.0 | 2.3 | 2.0 | 0.9 | 0.3 | 0.0 | 0.0 | 2.6 | 2.5 | 1.7 | 1.6 | 0.0 | 0.0 | 58 | 58 | 57 | 57 | 0 | 0 | 90 |
| 126 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 1.3 | 2.2 | 1.6 | 0.7 | 0.0 | 0.0 | 1.4 | 2.3 | 1.8 | 1.0 | 0.0 | 0.0 | 58 | 59 | 58 | 56 | 0 | 0 | 90 |
| 127 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.3 | 0.3 | 0.6 | 0.9 | 0.0 | 0.0 | 2.1 | 2.3 | 1.2 | 0.5 | 0.0 | 0.0 | 2.4 | 2.7 | 1.8 | 1.4 | 0.0 | 0.0 | 58 | 59 | 58 | 56 | 0 | 0 | 90 |
| 128 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.0 | 0.0 | 1.9 | 2.8 | 1.8 | 0.7 | 0.0 | 0.0 | 2.0 | 3.0 | 2.0 | 1.1 | 0.0 | 0.0 | 58 | 59 | 58 | 56 | 0 | 0 | 90 |
| 130 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.2 | 0.2 | 0.3 | 0.5 | 0.0 | 0.0 | 2.1 | 2.8 | 1.6 | 0.6 | 0.0 | 0.0 | 2.2 | 3.0 | 1.9 | 1.1 | 0.0 | 0.0 | 58 | 59 | 58 | 56 | 0 | 0 | 90 |
| 134 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.2 | 0.2 | 0.3 | 0.5 | 0.0 | 0.0 | 2.0 | 2.7 | 1.5 | 0.6 | 0.0 | 0.0 | 2.2 | 2.9 | 1.9 | 1.1 | 0.0 | 0.0 | 58 | 59 | 58 | 56 | 0 | 0 | 90 |
| 139 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.2 | 0.2 | 0.3 | 0.5 | 0.0 | 0.0 | 1.9 | 2.6 | 1.5 | 0.6 | 0.0 | 0.0 | 2.0 | 2.8 | 1.8 | 1.1 | 0.0 | 0.0 | 58 | 59 | 58 | 56 | 0 | 0 | 90 |
| 141 | Private - Dwelling | Warkworth (Noise) (SSD6464) | - | 0.3 | 0.4 | 0.6 | 0.9 | 0.0 | 0.0 | 1.3 | 1.5 | 0.8 | 0.4 | 0.0 | 0.0 | 1.6 | 1.9 | 1.4 | 1.3 | 0.0 | 0.0 | 57 | 58 | 57 | 56 | 0 | 0 | 90 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.4 | 0.5 | 0.9 | 1.5 | 0.0 | 0.0 | 2.3 | 1.7 | 0.7 | 0.2 | 0.0 | 0.0 | 2.7 | 2.2 | 1.6 | 1. | | | | | | | | | |

Modelled annual average TSP concentrations (ug/m3)

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | | Project (HVO S) | | | | | Project (HVO Complex) | | | | | Cumulative | | | | | Criteria | | | | |
|-----|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------|------|------|-----------------|------|------|------|------|-----------------------|------|------|------|------|------------|------|------|------|------|----------|----|---|---|----|
| | | | | 2024 | 2029 | 2034 | 2041 | 2048 | 2024 | 2029 | 2034 | 2041 | 2048 | 2024 | 2029 | 2034 | 2041 | 2048 | 2024 | 2029 | 2034 | 2041 | 2048 | | | | | |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 1.5 | 1.6 | 1.9 | 1.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 2.0 | 1.0 | 0.0 | 0.0 | 63 | 65 | 65 | 56 | 0 | 0 | 90 |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-1] | 1.5 | 1.6 | 2.3 | 1.5 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 1.6 | 1.7 | 2.3 | 1.5 | 0.0 | 0.0 | 63 | 64 | 65 | 57 | 0 | 0 | 90 |
| 623 | Community Infrastructure | - | - | 1.9 | 2.0 | 2.6 | 1.3 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 1.9 | 2.1 | 2.7 | 1.3 | 0.0 | 0.0 | 63 | 64 | 65 | 56 | 0 | 0 | 90 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contiguous lots 1/248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 1.8 | 1.9 | 2.5 | 1.3 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 1.9 | 2.0 | 2.5 | 1.3 | 0.0 | 0.0 | 63 | 64 | 65 | 56 | 0 | 0 | 90 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 1/8/758214 and 2/8/758214 | 1.7 | 1.8 | 2.3 | 1.2 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 1.8 | 1.9 | 2.4 | 1.2 | 0.0 | 0.0 | 64 | 65 | 66 | 56 | 0 | 0 | 90 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 1.7 | 1.7 | 2.2 | 1.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 1.7 | 1.8 | 2.2 | 1.1 | 0.0 | 0.0 | 64 | 65 | 66 | 56 | 0 | 0 | 90 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 1.6 | 1.7 | 2.1 | 1.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.8 | 2.1 | 1.1 | 0.0 | 0.0 | 64 | 65 | 65 | 56 | 0 | 0 | 90 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 103/852484 and 104/852484 | 1.6 | 1.6 | 2.0 | 1.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.7 | 2.0 | 1.0 | 0.0 | 0.0 | 63 | 65 | 65 | 56 | 0 | 0 | 90 |
| 735 | Private - Commercial | - | - | 1.3 | 1.2 | 1.2 | 0.7 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.2 | 1.2 | 0.7 | 0.0 | 0.0 | 62 | 62 | 62 | 56 | 0 | 0 | 90 |
| 797 | Community Infrastructure | - | - | 1.5 | 1.4 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.5 | 1.4 | 0.7 | 0.0 | 0.0 | 63 | 63 | 63 | 56 | 0 | 0 | 90 |
| 799 | Community Infrastructure | - | - | 1.5 | 1.4 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.5 | 1.4 | 0.7 | 0.0 | 0.0 | 63 | 63 | 63 | 56 | 0 | 0 | 90 |
| 800 | Private - Commercial | - | - | 1.5 | 1.4 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.5 | 1.4 | 0.7 | 0.0 | 0.0 | 63 | 63 | 63 | 56 | 0 | 0 | 90 |
| 829 | Private - Commercial | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 1.4 | 2.6 | 2.0 | 0.9 | 0.0 | 0.0 | 1.5 | 2.7 | 2.2 | 1.2 | 0.0 | 0.0 | 59 | 60 | 59 | 57 | 0 | 0 | 90 |
| 830 | Private - Commercial | - | - | 0.1 | 0.1 | 0.2 | 0.2 | 0.0 | 0.0 | 1.0 | 1.9 | 1.8 | 0.8 | 0.0 | 0.0 | 1.0 | 2.0 | 1.9 | 1.1 | 0.0 | 0.0 | 60 | 62 | 62 | 57 | 0 | 0 | 90 |
| 833 | Private - Commercial | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 2.6 | 8.6 | 8.3 | 5.1 | 0.0 | 0.0 | 2.7 | 8.8 | 8.5 | 5.5 | 0.0 | 0.0 | 63 | 69 | 69 | 62 | 0 | 0 | 90 |
| 834 | Private - Commercial | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 1.1 | 2.6 | 2.1 | 1.5 | 0.0 | 0.0 | 1.2 | 2.7 | 2.3 | 1.8 | 0.0 | 0.0 | 58 | 59 | 59 | 58 | 0 | 0 | 90 |
| 835 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 1.1 | 2.5 | 2.0 | 1.3 | 0.0 | 0.0 | 1.2 | 2.6 | 2.2 | 1.8 | 0.0 | 0.0 | 58 | 59 | 59 | 58 | 0 | 0 | 90 |
| 836 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 1.0 | 2.3 | 1.9 | 1.3 | 0.0 | 0.0 | 1.1 | 2.4 | 2.1 | 1.7 | 0.0 | 0.0 | 57 | 59 | 58 | 58 | 0 | 0 | 90 |
| 837 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 1.0 | 2.4 | 1.9 | 1.3 | 0.0 | 0.0 | 1.1 | 2.5 | 2.1 | 1.7 | 0.0 | 0.0 | 58 | 59 | 58 | 58 | 0 | 0 | 90 |
| 838 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.0 | 1.1 | 2.5 | 2.0 | 1.4 | 0.0 | 0.0 | 1.1 | 2.6 | 2.2 | 1.8 | 0.0 | 0.0 | 58 | 59 | 59 | 58 | 0 | 0 | 90 |
| 839 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 1.0 | 2.3 | 1.9 | 1.3 | 0.0 | 0.0 | 1.1 | 2.4 | 2.0 | 1.7 | 0.0 | 0.0 | 58 | 59 | 59 | 58 | 0 | 0 | 90 |
| 840 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 1.0 | 2.4 | 1.9 | 1.4 | 0.0 | 0.0 | 1.1 | 2.5 | 2.1 | 1.7 | 0.0 | 0.0 | 58 | 59 | 59 | 58 | 0 | 0 | 90 |
| 843 | Private - Dwelling | - | - | 0.3 | 0.3 | 0.5 | 0.7 | 0.0 | 0.0 | 0.8 | 1.0 | 0.6 | 0.3 | 0.0 | 0.0 | 1.1 | 1.3 | 1.1 | 1.0 | 0.0 | 0.0 | 57 | 57 | 57 | 56 | 0 | 0 | 90 |
| 846 | Private - Dwelling | - | - | 0.4 | 0.4 | 0.7 | 0.9 | 0.0 | 0.0 | 0.6 | 0.8 | 0.4 | 0.2 | 0.0 | 0.0 | 1.0 | 1.2 | 1.1 | 1.1 | 0.0 | 0.0 | 57 | 57 | 57 | 56 | 0 | 0 | 90 |
| 847 | Private - Dwelling | - | - | 0.3 | 0.4 | 0.7 | 0.9 | 0.0 | 0.0 | 0.7 | 0.8 | 0.5 | 0.2 | 0.0 | 0.0 | 1.0 | 1.2 | 1.1 | 1.1 | 0.0 | 0.0 | 57 | 57 | 57 | 56 | 0 | 0 | 90 |
| 852 | Private - Dwelling | - | - | 0.3 | 0.4 | 0.7 | 0.9 | 0.0 | 0.0 | 0.8 | 0.9 | 0.5 | 0.2 | 0.0 | 0.0 | 1.2 | 1.4 | 1.2 | 1.2 | 0.0 | 0.0 | 57 | 57 | 57 | 56 | 0 | 0 | 90 |
| 855 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.6 | 0.0 | 0.0 | 1.5 | 2.0 | 1.1 | 0.5 | 0.0 | 0.0 | 1.7 | 2.2 | 1.5 | 1.1 | 0.0 | 0.0 | 57 | 57 | 57 | 56 | 0 | 0 | 90 |
| 856 | Private - Dwelling | - | - | 0.3 | 0.4 | 0.6 | 0.8 | 0.0 | 0.0 | 0.9 | 1.0 | 0.6 | 0.3 | 0.0 | 0.0 | 1.2 | 1.4 | 1.2 | 1.1 | 0.0 | 0.0 | 57 | 57 | 57 | 56 | 0 | 0 | 90 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 1.4 | 1.5 | 2.0 | 1.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 1.5 | 1.6 | 2.0 | 1.1 | 0.0 | 0.0 | 64 | 66 | 67 | 56 | 0 | 0 | 90 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 1.2 | 1.2 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.3 | 1.5 | 0.8 | 0.0 | 0.0 | 65 | 69 | 69 | 56 | 0 | 0 | 90 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 1.4 | 1.4 | 1.7 | 0.8 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 1.5 | 1.7 | 0.9 | 0.0 | 0.0 | 63 | 65 | 65 | 56 | 0 | 0 | 90 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 1.3 | 1.3 | 1.6 | 0.8 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.6 | 0.8 | 0.0 | 0.0 | 64 | 66 | 66 | 56 | 0 | 0 | 90 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 1.0 | 1.2 | 2.1 | 2.4 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 1.2 | 1.5 | 2.3 | 2.5 | 0.0 | 0.0 | 58 | 58 | 59 | 57 | 0 | 0 | 90 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 1.0 | 1.2 | 2.0 | 2.3 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 1.2 | 1.4 | 2.2 | 2.4 | 0.0 | 0.0 | 58 | 58 | 59 | 57 | 0 | 0 | 90 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOs (Noise) [06_0281] | Rav Ops (AQ) [DA 09_0176] | 0.5 | 0.7 | 1.2 | 2.0 | 0.0 | 0.0 | 0.6 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 1.2 | 1.2 | 1.5 | 2.1 | 0.0 | 0.0 | 57 | 57 | 57 | 57 | 0 | 0 | 90 |
| 949 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.2 | 2.0 | 0.0 | 0.0 | 0.6 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 1.2 | 1.2 | 1.5 | 2.1 | 0.0 | 0.0 | 57 | 57 | 57 | 57 | 0 | 0 | 90 |
| 950 | Private - Dwelling | - | - | 0.5 | 0.7 | 1.2 | 2.0 | 0.0 | 0.0 | 0.6 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 1.2 | 1.2 | 1.5 | 2.1 | 0.0 | 0.0 | 57 | 57 | 57 | 57 | 0 | 0 | 90 |

Ashton = Ashton Coal Project, HVO S = Hunter Valley Operations (South), HVO N = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

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

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | Project (HVO S) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | |
|----------------|-----------------------------------------|----------------------------------|----------------------------------|-----------------|------|------|------|-----------------|------|------|------|-----------------------|------|------|------|------------|------|------|------|----------|------|------|-----|------|-----|---|
| | | | | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | | | | | | | |
| D119 | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.3 | 0.2 | 0.0 | 0.0 | 0.2 | 0.2 | 0.3 | 0.2 | 0.0 | 2.9 | 3.1 | 3.0 | 2.9 | 2.9 | 2.7 | 4 |
| DL14 | Monitor | - | - | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.3 | 0.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 4 |
| Warkworth | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4 |
| D118 | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 3.2 | 3.2 | 3.1 | 3.1 | 3.1 | 2.8 | 4 |
| Knollers Lane | Monitor | - | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.0 | 0.5 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.5 | 0.5 | 0.3 | 0.2 | 0.0 | 3.1 | 3.1 | 2.9 | 2.7 | 2.9 | 2.8 | 4 |
| DL22 | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.8 | 1.0 | 0.5 | 0.2 | 0.0 | 0.0 | 0.8 | 1.0 | 0.6 | 0.3 | 0.0 | 3.4 | 3.7 | 3.2 | 2.8 | 3.0 | 2.7 | 4 |
| DL21 | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.0 | 0.5 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.5 | 0.5 | 0.3 | 0.2 | 0.0 | 3.1 | 3.0 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| D122 | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 2.8 | 2.9 | 2.8 | 2.7 | 2.8 | 2.6 | 4 |
| DL30 | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.3 | 1.2 | 0.6 | 0.0 | 0.0 | 0.5 | 1.3 | 1.2 | 0.6 | 0.0 | 3.5 | 4.3 | 4.6 | 3.2 | 3.7 | 2.9 | 4 |
| DL2 | Monitor | - | - | 0.1 | 0.2 | 0.3 | 0.6 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 2.8 | 2.9 | 3.0 | 3.3 | 3.4 | 3.4 | 4 |
| Warkworth | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 4.9 | 4.5 | 4.6 | 4.0 | 4.1 | 2.6 | 4 |
| Cheshunt East | Monitor | - | - | 0.2 | 0.3 | 0.4 | 0.6 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 0.7 | 0.0 | 2.9 | 3.0 | 3.2 | 3.2 | 3.4 | 3.4 | 4 |
| Long Point | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.3 | 0.2 | 0.0 | 2.9 | 3.0 | 2.8 | 2.7 | 2.8 | 2.6 | 4 |
| Kilburne South | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 3.2 | 3.2 | 3.2 | 3.1 | 3.1 | 2.6 | 4 |
| Wandewai | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.4 | 1.2 | 1.0 | 0.7 | 0.0 | 0.0 | 0.5 | 1.2 | 1.0 | 0.8 | 0.0 | 3.2 | 3.9 | 3.8 | 3.5 | 3.5 | 2.9 | 4 |
| Hewick | Monitor | - | - | 2.0 | 2.1 | 1.4 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 1.4 | 2.0 | 0.0 | 5.5 | 5.7 | 5.1 | 4.5 | 3.6 | 2.6 | 4 |
| Golden Highway | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 5.3 | 5.5 | 5.5 | 2.8 | 2.8 | 2.6 | 4 |
| HCT Conveyor | Monitor | - | - | 8.7 | 7.2 | 15.9 | 1.7 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | 7.3 | 15.9 | 1.7 | 0.0 | 17.1 | 16.4 | 25.0 | 4.2 | 10.4 | 3.8 | 4 |
| Maison Dieu | Monitor | - | - | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.3 | 0.0 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 4 |
| Warkworth | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 4.2 | 4.1 | 4.1 | 3.3 | 2.9 | 2.6 | 4 |
| Knollers Lane | Monitor | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.9 | 1.0 | 0.5 | 0.2 | 0.0 | 0.0 | 0.9 | 1.0 | 0.5 | 0.3 | 0.0 | 3.5 | 3.6 | 3.1 | 2.8 | 3.0 | 2.7 | 4 |
| Jerrys Plains | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.0 | 0.0 | 2.7 | 2.8 | 2.8 | 2.7 | 2.8 | 2.7 | 4 |
| Cheshunt East | Monitor | - | - | 0.2 | 0.3 | 0.4 | 0.6 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 0.7 | 0.0 | 2.9 | 3.0 | 3.2 | 3.2 | 3.4 | 3.4 | 4 |
| HVGC | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 1.1 | 0.8 | 0.0 | 0.0 | 0.4 | 1.3 | 1.1 | 0.8 | 0.0 | 3.4 | 4.3 | 4.1 | 3.4 | 4.0 | 3.0 | 4 |
| Long Point | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.3 | 0.2 | 0.0 | 2.9 | 3.0 | 2.8 | 2.7 | 2.8 | 2.6 | 4 |
| Kilburne South | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 3.2 | 3.2 | 3.2 | 3.1 | 3.1 | 2.6 | 4 |
| Kilburne South | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 3.2 | 3.2 | 3.2 | 3.1 | 3.1 | 2.6 | 4 |
| Maison Dieu | Monitor | - | - | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.3 | 0.0 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 4 |
| Maison Dieu | Monitor | - | - | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.3 | 0.0 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 4 |
| Knollers Lane | Monitor | - | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.0 | 0.5 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.5 | 0.5 | 0.3 | 0.2 | 0.0 | 3.1 | 3.1 | 2.9 | 2.7 | 2.9 | 2.8 | 4 |
| 17 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 2.5 | 2.5 | 2.5 | 4 |
| 19 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 2.5 | 2.5 | 2.5 | 4 |
| 37 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 2.7 | 2.7 | 2.5 | 2.5 | 2.5 | 4 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) [SSD6464] | Warkworth (Noise & AQ) [SSD6464] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 4.2 | 4.1 | 4.1 | 3.4 | 2.9 | 2.6 | 4 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.0 | 0.5 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.5 | 0.5 | 0.3 | 0.2 | 0.0 | 3.1 | 3.1 | 2.9 | 2.7 | 2.9 | 2.8 | 4 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.6 | 0.6 | 0.3 | 0.1 | 0.0 | 0.0 | 0.6 | 0.6 | 0.4 | 0.3 | 0.0 | 3.2 | 3.2 | 2.9 | 2.8 | 2.9 | 2.7 | 4 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.0 | 0.4 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.4 | 0.4 | 0.3 | 0.2 | 0.0 | 3.0 | 3.0 | 2.8 | 2.7 | 2.9 | 2.8 | 4 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.5 | 0.5 | 0.2 | 0.1 | 0.0 | 0.0 | 0.5 | 0.5 | 0.3 | 0.2 | 0.0 | 3.1 | 3.1 | 2.9 | 2.8 | 2.9 | 2.8 | 4 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.0 | 0.4 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.4 | 0.4 | 0.3 | 0.2 | 0.0 | 3.0 | 3.0 | 2.8 | 2.7 | 2.9 | 2.8 | 4 |
| 126 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 2.8 | 2.9 | 2.9 | 2.7 | 2.8 | 2.6 | 4 |
| 127 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.4 | 0.4 | 0.3 | 0.2 | 0.0 | 2.9 | 3.0 | 2.9 | 2.7 | 2.8 | 2.7 | 4 |
| 128 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.3 | 0.1 | 0.0 | 0.0 | 0.2 | 0.4 | 0.3 | 0.2 | 0.0 | 2.8 | 3.0 | 2.9 | 2.7 | 2.8 | 2.6 | 4 |
| 130 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.3 | 0.2 | 0.0 | 2.9 | 3.0 | 2.9 | 2.7 | 2.8 | 2.6 | 4 |
| 134 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.3 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.3 | 0.2 | 0.0 | 2.9 | 3.0 | 2.8 | 2.7 | 2.8 | 2.6 | 4 |
| 139 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.2 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.3 | 0.2 | 0.0 | 2.8 | 3.0 | 2.8 | 2.7 | 2.8 | 2.6 | 4 |
| 141 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 2.8 | 2.9 | 2.8 | 2.7 | 2.8 | 2.7 | 4 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.0 | 0.4 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.4 | 0.3 | 0.2 | 0.2 | 0.0 | 3.0 | 2.9 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 161 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.2 | 0.3 | 0.0 | 2.9 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 162 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.2 | 0.2 | 0.0 | 0.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 163 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.3 | 0.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| 167 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.2 | 0.0 | 2.8 | 2.9 | 2.8 | 2.7 | 2.8 | 2.7 | 4 |
| 169 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 2.8 | 2.9 | 2.8 | 2.7 | 2.8 | 2.7 | 4 |
| 170 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.2 | 0.0 | 2.8 | 2.9 | 2.8 | 2.7 | 2.8 | 2.7 | 4 |
| 173 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.3 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.2 | 0.2 | 0.0 | 2.8 | 2.9 | 2.8 | 2.7 | 2.8 | 2.6 | 4 |
| 174 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 175 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.2 | | | | | | | | | | | | | | | | | |

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

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVON) | | | | Project (HVOS) | | | | Project (HVO Complex) | | | | Cumulative | | | | Criteria | | | | | | | |
|-----|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|------|------|----------------|------|------|------|-----------------------|------|------|------|------------|------|------|------|----------|-----|-----|-----|-----|-----|-----|---|
| | | | | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | 2024 | 2029 | 2034 | 2041 | | | | | | | | |
| 621 | Private - Subject to Acquisition Rights | Rix Creek North (Noise & AQ) [PA08_0102]; Rix Creek South (AQ) [SSD 6300] | Rix Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-1] | 0.2 | 0.2 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.3 | 0.2 | 0.0 | 0.0 | 3.5 | 4.0 | 4.1 | 2.7 | 3.3 | 2.7 | 4 |
| 623 | Community Infrastructure | - | - | 0.3 | 0.3 | 0.4 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.4 | 0.2 | 0.0 | 0.0 | 3.5 | 4.2 | 4.2 | 2.7 | 3.3 | 2.6 | 4 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rix Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rix Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contiguous lots 1/248748, 2/9758214, 3/9758214, 4/9758214, 5/9758214, 6/9758214, 7/9758214, 8/9758214, 9/9758214 | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 3.6 | 4.3 | 4.4 | 2.7 | 3.3 | 2.6 | 4 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD 5850]; Rix Creek North (Noise) [PA08_0102]; Rix Creek South (AQ) [SSD 6300] | Rix Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 1/8758214 and 2/8758214 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 3.6 | 4.5 | 4.5 | 2.7 | 3.3 | 2.6 | 4 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD 5850]; Rix Creek North (Noise) [PA08_0102]; Rix Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rix Creek South (AQ) [SSD 6300] | 0.2 | 0.2 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 3.6 | 4.5 | 4.6 | 2.7 | 3.2 | 2.6 | 4 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD 5850]; Rix Creek North (Noise) [PA08_0102]; Rix Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rix Creek South (AQ) [SSD 6300] | 0.2 | 0.2 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.1 | 0.0 | 0.0 | 3.6 | 4.5 | 4.6 | 2.6 | 3.2 | 2.6 | 4 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rix Creek North (AQ) [PA08_0102]; Rix Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rix Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 103/852484 and 104/852484 | 0.2 | 0.2 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.3 | 0.1 | 0.0 | 0.0 | 3.6 | 4.4 | 4.5 | 2.6 | 3.2 | 2.6 | 4 |
| 735 | Private - Commercial | - | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 3.2 | 3.5 | 3.5 | 2.6 | 3.2 | 2.6 | 4 |
| 797 | Community Infrastructure | - | - | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 3.4 | 3.7 | 3.6 | 2.6 | 3.3 | 2.6 | 4 |
| 799 | Community Infrastructure | - | - | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 3.4 | 3.7 | 3.6 | 2.6 | 3.3 | 2.6 | 4 |
| 800 | Private - Commercial | - | - | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 3.4 | 3.7 | 3.6 | 2.6 | 3.3 | 2.6 | 4 |
| 829 | Private - Commercial | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.1 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 2.9 | 3.0 | 3.0 | 2.7 | 2.8 | 2.6 | 4 |
| 830 | Private - Commercial | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.1 | 0.0 | 3.0 | 3.2 | 3.2 | 2.8 | 2.8 | 2.6 | 4 |
| 833 | Private - Commercial | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 1.2 | 1.1 | 0.8 | 0.0 | 0.4 | 1.2 | 1.1 | 0.8 | 0.0 | 0.0 | 3.4 | 4.3 | 4.1 | 3.5 | 4.0 | 3.0 | 4 |
| 834 | Private - Commercial | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.3 | 0.2 | 0.0 | 0.2 | 0.4 | 0.3 | 0.2 | 0.0 | 0.0 | 2.9 | 3.1 | 3.0 | 2.9 | 2.9 | 2.7 | 4 |
| 835 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.2 | 0.4 | 0.3 | 0.2 | 0.0 | 0.0 | 2.8 | 3.0 | 3.0 | 2.9 | 2.9 | 2.7 | 4 |
| 836 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.3 | 0.2 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 2.8 | 3.0 | 3.0 | 2.8 | 2.9 | 2.7 | 4 |
| 837 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 2.8 | 3.0 | 3.0 | 2.8 | 2.9 | 2.7 | 4 |
| 838 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.3 | 0.2 | 0.0 | 0.2 | 0.4 | 0.3 | 0.2 | 0.0 | 0.0 | 2.8 | 3.0 | 3.0 | 2.9 | 2.9 | 2.7 | 4 |
| 839 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.3 | 0.2 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 2.8 | 3.0 | 3.0 | 2.9 | 2.9 | 2.6 | 4 |
| 840 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.3 | 0.2 | 0.0 | 0.2 | 0.4 | 0.3 | 0.2 | 0.0 | 0.0 | 2.8 | 3.0 | 3.0 | 2.9 | 2.9 | 2.6 | 4 |
| 843 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 2.7 | 2.8 | 2.7 | 2.7 | 2.7 | 2.6 | 4 |
| 846 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 2.8 | 2.8 | 2.8 | 2.7 | 2.8 | 2.7 | 4 |
| 847 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 2.7 | 2.8 | 2.8 | 2.7 | 2.8 | 2.7 | 4 |
| 852 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 2.7 | 2.8 | 2.8 | 2.7 | 2.8 | 2.7 | 4 |
| 855 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 2.8 | 2.9 | 2.8 | 2.7 | 2.8 | 2.6 | 4 |
| 856 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 2.8 | 2.8 | 2.8 | 2.7 | 2.7 | 2.7 | 4 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rix Creek North (Noise & AQ) [PA08_0102]; Rix Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rix Creek North (Noise) [PA08_0102] | 0.2 | 0.2 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.3 | 0.2 | 0.0 | 0.0 | 3.7 | 5.2 | 5.2 | 2.7 | 3.2 | 2.6 | 4 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rix Creek North (Noise) [PA08_0102]; Rix Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rix Creek North (Noise) [PA08_0102] | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 3.7 | 5.8 | 5.8 | 2.6 | 3.0 | 2.6 | 4 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rix Creek North (Noise) [PA08_0101]; Rix Creek South (AQ) [SSD 6300] | Rix Creek North (Noise) [PA08_0102] | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 3.5 | 4.7 | 4.8 | 2.6 | 3.1 | 2.6 | 4 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rix Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rix Creek South (AQ) [SSD 6300] | Rix Creek North (Noise) [PA08_0102] | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 3.5 | 5.0 | 5.0 | 2.6 | 3.1 | 2.6 | 4 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rix Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rix Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 0.1 | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.3 | 0.4 | 0.0 | 0.0 | 2.9 | 2.9 | 3.0 | 2.9 | 3.1 | 2.9 | 4 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rix Creek North (Noise) [PA08_0102]; Rix Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-1]; Rix Creek North (Noise) [PA08_0102] (acquisition applies to contiguous) | 0.1 | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | 2.9 | 2.9 | 3.0 | 2.8 | 3.1 | 2.9 | 4 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 0.1 | 0.1 | 0.1 | 0.3 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 2.7 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| 949 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.1 | 0.3 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 2.7 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| 950 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.1 | 0.3 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.0 | 2.7 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |

Ashton = Ashton Coal Project, HVOS = Hunter Valley Operations (South), HVON = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations