

1 INTRODUCTION

This paper provides a summary of the additional modelling undertaken for the Rix's Creek South Coal Mine Continuation Project (SSD6300) in accordance with the '*Voluntary Land Acquisition and Mitigation Policy*' (VLAMP (DPIE, 2018) (Revised VLAMP) for the consideration of Department of Planning, Industry and Environment (DPIE).

2 CUMULATIVE IMPACTS

This section describes planning approvals of adjacent operations and the status of each.

Rix's Creek South Mines' SSD6300 is currently with the Independent Planning Commission (IPCN) for determination.

Glendell Mine operates under Development Consent (DA) 80/952 valid to 30 June 2024. DA 80/952 Modification 4 is currently with DPIE for assessment.

Mt Owen Mine operates in accordance with State Significant Development (SSD) approval, SSD-5850 which expires on 31 December 2031. SSD-5850 Modification 2 is currently with DPIE for assessment.

The Ashton South East Open Cut (SEOC) PA 08_0182 was granted 17 April 2015. PA 08_0182 (as modified) at Schedule 2, Condition 5A of PA 08_0182 states that:

- "a) This project approval shall lapse 5 years after the date that approval is granted unless the project is commenced before that day.*
- b) The Secretary may, on application by the Proponent made before the time in (a) expires, extend the time to commence the project by two years."*

SEOC's PA 08_0182 (as modified) Condition 5 states that "*Mining operations for the project may take place 12 years from the commencement of mining operations on site*". We understand that mining operations have not commenced on site. Therefore, Ashton SEOC expires on 17 April 2020 or 17 April 2022 if Schedule 2 Condition 5A part b) is applied, or 12 years from commencement. PA 08_0182 (as modified) is not open for modification.

Rix's Creek North (RCN) PA 08_0102 expires 31 December 2035. PA08_0102 (as modified) is not open for modification.

Ravensworth Operations PA 09_0176 expires 31 December 2039. PA 09_0176 (as modified) is not open for modification.

Other coal mining operations are minor contributors (as discussed in **Section 4**) and not discussed further in this section.

3 EXISTING ZONE OF AFFECTATION

Figure 1 illustrates current landownership in Camberwell. **Table 1** indicates the current status of private properties within the Zone of Affection (ZOA) for Camberwell and indicates where a residence is present on the property. IDs in **Table 1** are consistent with the labels in **Figure 1**.

Table 1
Camberwell Private Receivers Summary

ID	Land Owner	Lot	DP	Residence	ZOA	Notes
N88	██████████	█	██████████	✓	SEOC	
N211	██████████	█	██████████	None	SEOC	In SEOC ZOA by association to N88.
N91	██████████ ██████████	█	██████████	✓	SEOC	
N212	██████████ ██████████	█	██████████	None	SEOC	In SEOC ZOA by association to N91.
N161	██████████	█	██████████	✓	SEOC	
N172	██████████ ██████████	█	██████████ █ █ ██████████	None	None	Two adjoining land parcels, one owner. Leased to Ashton until 1 February 2020 (Certificate of Title states 1/2/17 with option for 3 year renewal). Uninhabitable house on Lot 1.
N103	██████████	█	██████████	✓	SEOC	
N213	██████████	█	██████████	None	SEOC	In SEOC ZOA by association to N103
N214	██████████	█	██████████	None	SEOC	In SEOC ZOA by association to N103
N215	██████████	█	██████████	None	SEOC	In SEOC ZOA by association to N103
N216	██████████	█	██████████	None	SEOC	In SEOC ZOA by association to N103
N217	██████████	█	██████████	None	SEOC	In SEOC ZOA by association to N103
N218	██████████	█	██████████	None	SEOC	In SEOC ZOA by association to N103
N219	██████████	█	██████████ █	None	SEOC	In SEOC ZOA by association to N103

ID	Land Owner	Lot	DP	Residence	ZOA	Notes
			█ █			
N220	█	█	█	None	SEOC	In SEOC ZOA by association to N103
N190	█	█	█	None	None	
N191	█	█	█	None	None	
N105	█ █	█	█	✓	SEOC Alternate Accommodation	



HB RMS CREEK 1916 Fx Land Ownership - Camberwell Village 20 08 2019

RIXS CREEK COAL MINE

Land Ownership - Camberwell Village



Note: N172 has uninhabitable house and is under lease to Ashton to 01/02/2020 - northern block also associated

4 ADDITIONAL MODELLING

4.1 RECEIVERS

DPIE requested Bloomfield provide additional modelling of five receivers in Camberwell. Todoroski Air Sciences (TAS, 2019) completed this modelling.

Table 2 reproduces (Table 2 from TAS 2019) and indicates the percentage contribution from background and all approved sources including the preferred Option 2 mine plan for SSD6300. Major contributors with active modifications are **bolded**.

Table 2
Dust Source for Option 2 PM10 Annual Average Cumulative

Receptors	N88	N91	N103	N161	N105
Source	Annual average PM₁₀ (% of total)				
Background	40	39	38	38	38
Rix's Creek North ^	17	18	17	19	21
Glendell*	14	12	8	12	12
Rix's Creek South Option 2*	11	11	14	12	11
Ravensworth Coal Mine	9	10	12	10	9
Ashton SEOC	4	4	6	4	3
Mt Owen *	2	2	2	2	2
Ravensworth East	2	2	2	2	2
Hunter Valley Operations	1	1	1	1	1
Total	Annual average PM₁₀ (µg/m³)				
Total dust level (µg/m ³)	28.9	29.8	30.3	30.3	30.5

* Operations with an "active" planning approval.

^Includes Integra Underground.

4.2 25% ASSESSMENT

Air quality modelling undertaken by Todoroski Air Sciences (TAS, 2019) shows that all blocks of land listed in **Table 2** and shown in **Table 1** are predicted to exceed PM10 annual cumulative 25µg/m³ over greater than 25% of contiguous lots owned by the same landowner at the date of determination.

The locations for residences in **Table 1** are shown in **Figure 1**.

5 SSD6300 CONDITIONING

It is recommended that SSD6300 Part D Condition D1 Table 7 is amended as shown below in red.

It is recommended that other "active" development consent modifications be modified consistently.

Further, the below suggested approach (see notes) allows for any future modifications to adjacent operations to be applied (e.g. should Ravensworth, Rix's Creek North or Integra Underground consents be modified with revised modelling predictions).

This approach assumes that vacant, contiguous blocks from **Table 1** for N88, N91 and N103 are included by association below.

"ACQUISITION UPON REQUEST

- (a) Upon receiving a written request for acquisition from the owner of the privately-owned land listed in Table 3, the Applicant must acquire the land in accordance with the procedures in conditions D11 to D18, inclusive.

Table 3: Land subject to acquisition upon request

Acquisition Basis	Land
Noise, Air Quality	[Redacted]
	[Redacted]
	[Redacted]
Air Quality	[Redacted]
	[Redacted]
	[Redacted]
	[Redacted]
	[Redacted]
	[Redacted]
	[Redacted]
	[Redacted]
	[Redacted]
	[Redacted]
	[Redacted]
	[Redacted]

Note: *The Applicant is only required to acquire these properties if acquisition rights cannot be activated under the project approval for Rix's Creek North or Ashton SEOC. N172 is leased to Ashton Coal until 1/2/20 and does not have acquisition rights under the project approval for Ashton SEOC.
The Applicant is only required to acquire these properties if acquisition rights cannot be activated under the project approval for Glendell Mine.
^ The Applicant is only required to acquire these properties if acquisition rights cannot be activated under the project approval for Rix's Creek North or Ravensworth Mine".