



Application for Licence

Part V Division 3 of the *Environmental Protection Act 1986*

Licence Number	L7975/2004/4
Applicant	Boral Resources (WA) Ltd
ACN	008 686 904
File Number	DER2013/000894
Premises	Boral Quarries – Tabba Tabba Legal description - Mining lease M45/23, M45/25, M45/98 and G45/257
Date of Report	18 November 2020
Decision	Licence granted

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1. Decision summary

This Decision Report documents the assessment of potential risks to the environment and public health from emissions and discharges during the operation of one of the two asphalt manufacturing plants within the Premises. As a result of this assessment, a Revised Licence has been granted.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this Decision Report, the Delegated Officer has considered and given due regard to the Department's Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

The scope of the assessment is the requested amendment; to add a second modular asphalt plant that is allowed to mobilise to, operate on and demobilise from the Premises, and the conversion of the licence conditions to the latest template.

2.2 Application summary and overview of Premises

On 22 October 2020, the applicant submitted an application for a licence amendment to the department under section 59 of the *Environmental Protection Act 1986* (EP Act).

The application is to add a second modular asphalt plant that is allowed to mobilise to, operate on and demobilise from the Premises. The Premises are approximately 1.6 km south-east of the nearest residential area of the Marta Marta community.

The Premises are deemed a prescribed premises based upon activities within the Premises that trigger categories 12 (screening etc of material), 35 (asphalt manufacturing) and 61A (solid waste facility) as per Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations).

Licence L7975/2004/4 currently includes a modular asphalt plant to be mobilised to, operated on and demobilised from the Premises (TEREX E100P). Works Approval W5833/2015/1 was issued to the Licence Holder to mobilise and install a modular asphalt plant, however the assessed model of asphalt plant was not purchased and a later model was purchased instead. This is the Ciber iNova 2000 that the Licence Holder would like to use within the Premises. The Ciber iNova 2000 has been commissioned within the Licence Holder's licenced premises in Welshpool, including a stack test, and has operated within Western Australia at several locations. The Ciber iNova 2000 is a modern modular asphalt plant.

3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guidance Statement: Risk Assessments* (DER 2017).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

3.1 Source-pathways and receptors

3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during operation at the Premises

which have been considered in this Decision Report are detailed in Table 1 below. Table 1 also details the proposed control measures the applicant has proposed to assist in controlling these emissions, where necessary.

Table 1: Emissions, Sources, Pathways and Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
Mobilisation, operation and demobilisation of the Ciber iNova 2000 (same as for existing approval of the TEREX E100P)			
Dust	Truck movement, frontend loader operation, loading of hoppers with aggregate/processed RAP. Asphalt manufacturing	No reasonable pathway to nearest sensitive receptor (over 1 km)	Raw materials will be stored in open stockpiles within the Premises. These will be conditioned to prevent significant dust emissions during loading into the cold feed bins.
Noise			Asphalt plant to be operated for a short period and mainly during day-time.
Odour/Air emissions			Asphalt plant uses diesel. The asphalt plant has modern process controls to minimise fumes from the asphalt manufacturing process. Emissions of the asphalt manufacturing process releases through a stack.

3.1.2 Receptors

In accordance with the *Guidance Statement: Risk Assessment* (DER 2017), the Delegated Officer has excluded employees, visitors and contractors of the applicant's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 2 and Figure 1 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guidance Statement: Environmental Siting* (DER 2016)).

Table 2: Sensitive human and environmental receptors and distance from the Premises

Human receptors	Distance from the Premises
Marta Marta community	1.6 km northwest of the Premises
Great Northern Highway	500 m south of the Premises
Environmental receptors	Distance from prescribed activity
Groundwater	8 m - 24 m below ground level

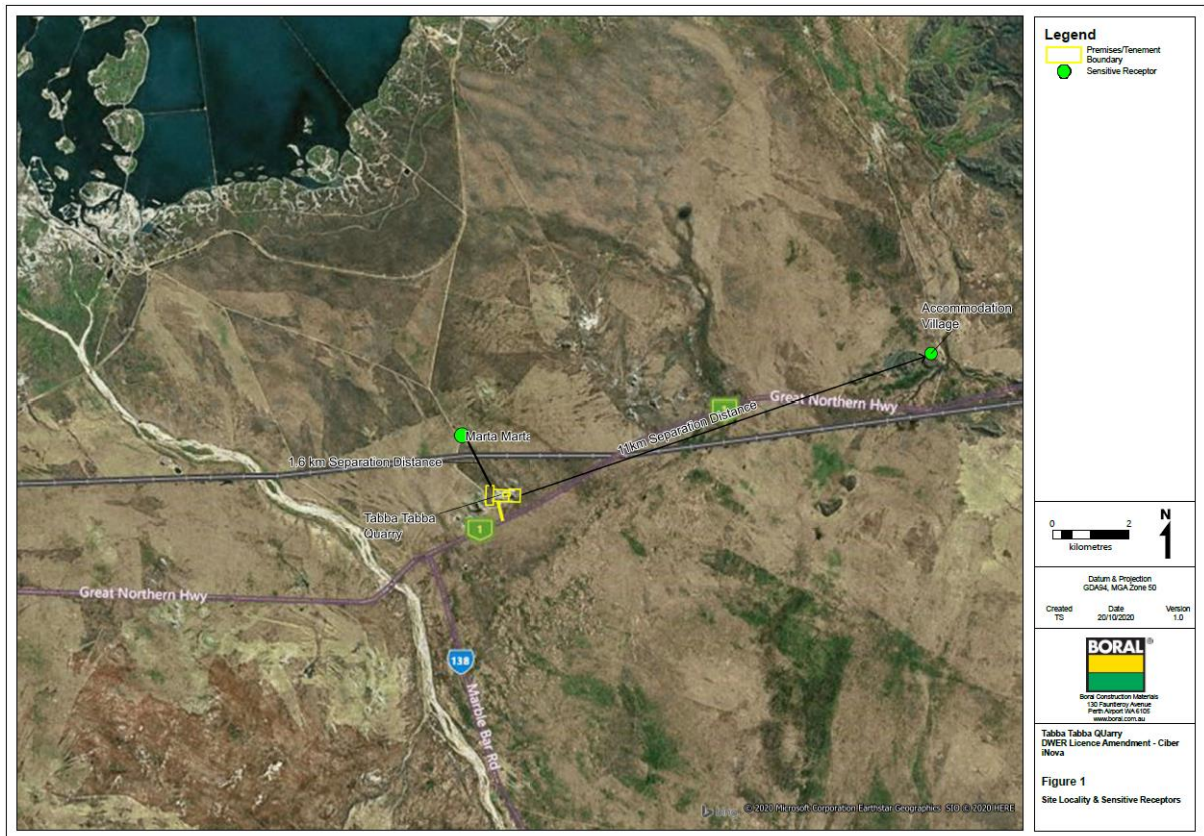


Figure 1: Distance to sensitive receptors

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guidance Statement: Risk Assessments* (DER 2017) for each identified emission source and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are in-complete they have not been considered further in the risk assessment.

Where the applicant has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the applicant's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the Revised Licence as regulatory controls.

Additional regulatory controls may be imposed where the applicant's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

Table 3: Risk assessment of potential emissions and discharges from the Premises during operation

Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions of Licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
Mobilisation, operation and demobilisation of the asphalt plant and operation of the crushing and screening plant(s)								
Asphalt plant operation	Dust	Air/windborne pathway causing impacts to health and amenity	Nearest receptor >1 km	See 3.1.1	C = Slight L = Rare Low Risk	Y	Conditions 1, 2, 5, 6, 7, 8, 9 and 10	Infrastructure, discharge point, emission limit and emission monitoring are required to be included to verify ongoing compliance during operation of the asphalt plant. Generic dust condition to ensure no visible dust is crossing the boundary as an outcome based condition for the management of dust lift off from stockpiles.
	Noise				C = Slight L = Rare Low Risk	Y	N/A	The <i>Environmental Protection (Noise) Regulation 1997</i> regulate noise sufficiently.
	Air emissions				C = Slight L = Rare Low Risk	Y	Conditions 1, 2, 5, 6, 8, 9 and 10	Infrastructure, discharge point, emission limit and emission monitoring are required to be included to verify ongoing compliance during operation of the asphalt plant.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guidance Statement: Risk Assessments* (DER 2017).

4. Consultation

The draft documents were provided to the Licence Holder on 16 November 2020. The Licence Holder commented per email on 17 November 2020, providing some missing information and waived the remainder of the comment period.

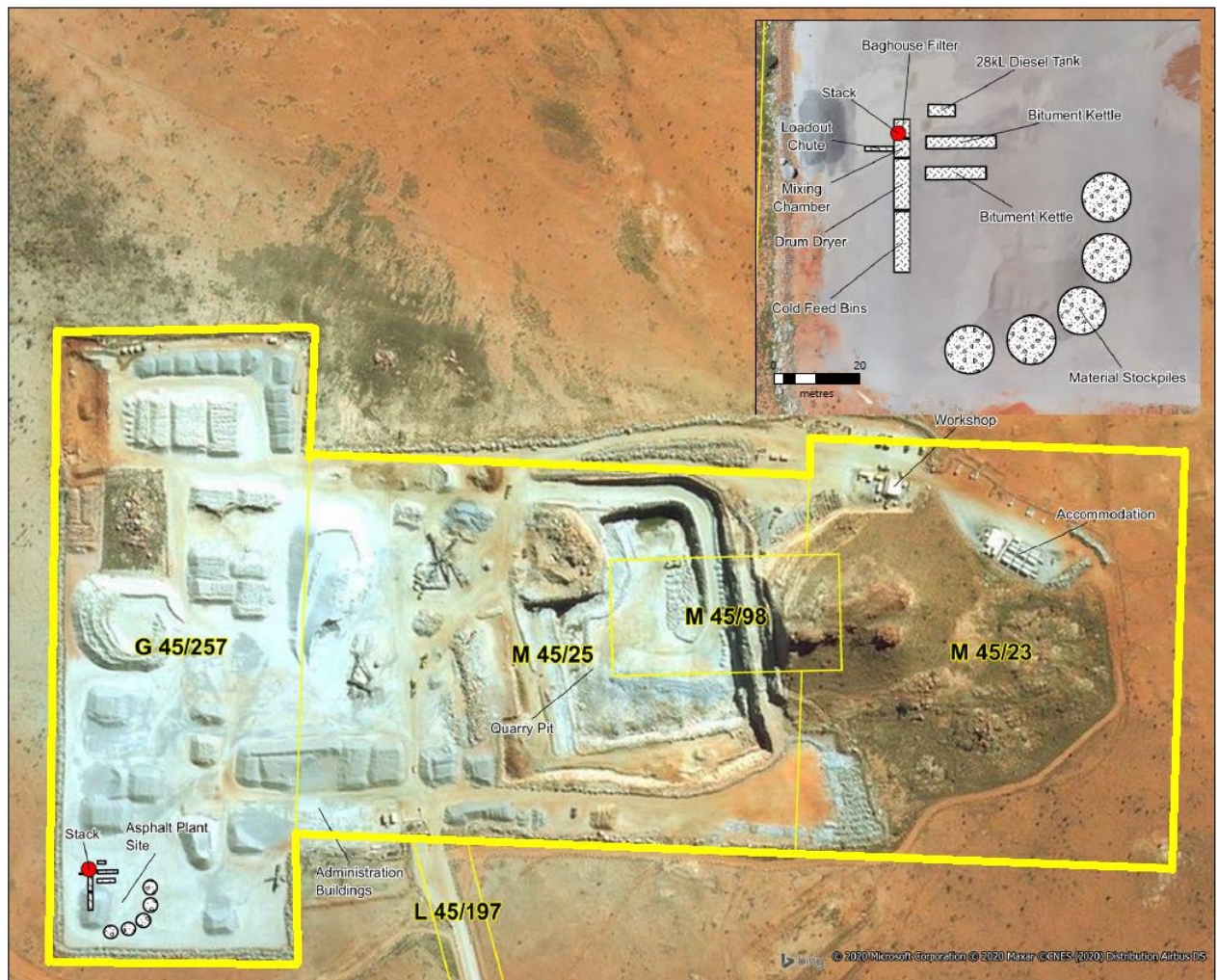
5. Conclusion

Based on the assessment in this Decision Report, the Delegated Officer has determined that a Revised Licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements. The Delegated Officer has amended the existing licence to be granted in the current format as a Revised Licence.

References

1. Department of Environment Regulation (DER) 2016, *Guidance Statement: Environmental Siting*, Perth, Western Australia.
2. DER 2017, *Guidance Statement: Risk Assessments*, Perth, Western Australia.
3. DER 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.

Schedule 1: Premises Map



Note: thick yellow line shows the boundary of the Premises and the location for the asphalt plant with the asphalt plant stack marked in red (top right is a close up of the layout of the asphalt plant to be located in the bottom left corner of the Premises).