



Application for Works Approval

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

Works Approval Number	W6866/2023/1
Applicant	MineARC Systems Pty Ltd
File number	DER2023/000688
Premises	16 Tipping Road KEWDALE WA 6105 Legal description - Lot 399 on Deposited Plan 10094 Certificate of Title Volume 1344 Folio 511 As shown in the premises map attached to the issued works approval
Date of report	26 March 2024
Decision	Works approval granted

1. Decision summary

This decision report documents the assessment of potential risks to the environment and public health from emissions and discharges during the construction and operation of the premises. As a result of this assessment, works approval W6866/2023/1 has been granted.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this decision report, the Department of Water and Environmental Regulation (the department; DWER) has considered and given due regard to its regulatory framework and relevant policy documents which are available at [DWER Regulatory documents | Western Australian Government \(www.wa.gov.au\)](https://www.wa.gov.au/government/publications/dwer-regulatory-documents).

2.2 Application summary and overview of premises

On 23 October 2023, MineARC Systems Pty Ltd (the applicant) submitted an application for a works approval to the department under section 54 of the *Environmental Protection Act 1986* (EP Act). The application is to undertake construction works to install one powder coat application booth and one powder coat batch oven in an existing building located at 16 Tipping Road, Kewdale (the premises) to undertake batch powder coating of metal products at the premises. The premises is approximately nine kilometres west-north-west of Perth City.

The premises relates to the category 81: metal coating with an assessed design capacity of 21,900kg/year under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in works approval W6866/2023/1. The infrastructure and equipment relating to the premises category and any associated activities which the department has considered, in line with *Guideline: Risk Assessments* (DWER 2020), are outlined in works approval W6866/2023/1.

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 *Guideline: Risk Assessments* (DWER 2020).

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 premises construction and operation which have been considered in this decision report are detailed in Table 1 below. Table 1 also details the control measures the applicant has proposed to assist in controlling these emissions, where necessary.

Table 1: Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
Construction			
Noise	Construction and installation of infrastructure	Air/windborne pathway causing impacts to amenity	Construction and installation activity will occur within an existing building
Operation			
Noise	Operation of the premises including metal coating and exhaust fan	Air/windborne pathway causing impacts to health and amenity	The powder coat application booth and powder coat batch oven will be located within an existing building.
Powder particles and odour			<p>The powder coat application booth and powder coat batch oven will be located within an existing building atop a concrete slab.</p> <p>The booth will comply with AS3754-1990.</p> <p>The booth will be fitted with a ventilation system complying with AS3754-1990 which comprises of 10000 CFM spunbonded polyester cartridge filter dust collector and a 15kW backward curve fan which directs fumes to the dust collector exhaust</p> <p>Oven flue will discharge via a stack of height 3 metres above roof level</p>

3.1.2 Receptors

In accordance with the *Guideline: Risk Assessment* (DWER 2020), the delegated officer has excluded the applicant's employees, visitors, and contractors 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 **Error! Reference source not found.** 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 (*Guideline: Environmental Siting* (DWER 2020)).

Table 2: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity
Residential Premises	1.79km north-west of the premises
Industrial Premises	Directly east, south, and west of the premises
Environmental receptors	Distance from prescribed activity
Bushforever Site	290m north-east of the premises
Groundwater	2.60m below ground level

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for each identified emission source and take 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 works approval 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.

Works approval W6866/2023/1 that accompanies this decision report authorises construction only. The conditions in the issued works approval, as outlined in Table 3 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A risk assessment for the operational phase has been included in this decision report, however the applicant must apply for a registration following completion of the construction works to authorise emissions associated with the operation of the premises i.e. metal coating activities. The premises will also be required to operate in accordance with the Environmental Protection (Metal Coating) Regulations 2001.

Table 3: Risk assessment of potential emissions and discharges from the premises during construction, commissioning, and operation

Risk events					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
Construction								
Construction and installation of infrastructure associated with the metal coating booth and oven booth		Air / windborne pathway causing impacts amenity	Residential premises	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	N/A	The delegated office does not foresee receptors being impacted due to the short timeframe of construction (mainly constructed offsite and installed within existing building) and the works occurring within an industrial area. The provisions of the <i>Environmental Protection (Noise) Regulations 1997</i> are also applicable.
	Noise			Refer to Section 3.1	C = Slight L = Rare Low Risk	Y		
Operation								
Operation of the metal coating booth	Noise	Air / windborne pathway causing impacts to health and amenity	Residential premises	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	Condition 1: Design and construction requirements	The applicant's proposed construction and installation specifications are considered suitable to minimize the likelihood of impacts to receptors associated with noise, powder particles and odours. These specifications have been conditioned as construction and installation requirements. Operation of the new infrastructure on the premises will be required to comply with the <i>Environmental Protection (Metal Coating) Regulations 2001</i>
	Powder particles and odour				C = Slight L = Rare Low Risk	Y		

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk Assessments* (DWER 2020).

Note 2: Proposed applicant controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

4. Consultation

Error! Reference source not found. provides a summary of the consultation undertaken by the department.

Table 4: Consultation

Consultation method	Comments received	Department response
Application advertised on the department's website on 5 December 2023	None received	N/A
Local Government Authority advised of proposal on 8 December 2023	None received.	N/A
Applicant was provided with draft documents on 6 March 2024	The works approval holder responded on the 19 March 2024 and waived the comment period with no requested changes.	The delegated officer notes this information.

5. Decision

The delegated officer has determined that the proposal to construct a powder coat application booth and batch oven on the premises does not pose an unacceptable level of risk to public health or the environment. This determination is based on the following:

- the infrastructure being established within an existing building with concrete flooring on the premises;
- the infrastructure being constructed in accordance with relevant standards with an appropriate ventilation system; and
- there being sufficient separation distance to residential receptors to minimise the likelihood of adverse off-site impacts from the construction and operation of the proposed infrastructure.

The premises will be required to submit an application for registration under section 5B of the EP Regulations for category 81 metal coating upon completion of construction and submission of an Environmental Compliance Report in accordance with the requirements of the works approval. The requirements of the Environmental Protection (Metal Coating) Regulations 2001 will apply to the operation of the premises. .

6. Conclusion

Based on the assessment in this decision report, the delegated officer has determined that a works approval will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements

References

1. Environmental Protection Authority (EPA) 2005, *Guidance for the Assessment of Environmental Factors - Separation Distances between Industrial and Sensitive Land Uses No. 3*, Perth, Western Australia
2. *Environmental Protection (Metal Coating) Regulations 2001*.
3. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
4. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
5. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.
6. MineARC Systems Pty Ltd 2023, Works approval application form: