



Application for Licence

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

Licence Number	L9287/2021/1
Applicant	P.M.R. Quarries Pty Ltd, trading as W.A. Limestone
ACN	008 866 448
File Number	DER2021/000152
Premises	Abercrombie Road 121 Abercrombie Road POSTANS WA 6167 Legal description – Part of Lot 313 on Deposited Plan 243063 Part of Mining tenements: G70/160, M70/636, M70/715 and M70/239 As defined by the Premises maps attached to the issued licence
Date of Report	11 August 2021
Decision	Licence granted

MANAGER, RESOURCE INDUSTRIES

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Table of Contents

1. Decision summary	1
2. Scope of assessment	1
2.1 Regulatory framework	1
2.2 Application summary and overview of Premises	1
2.3 Description of proposed activity	1
2.3.1 Operations	1
3. Risk assessment	1
3.1 Source-pathways and receptors	2
3.1.1 Emissions and controls	2
3.1.2 Receptors	3
3.2 Risk ratings	7
4. Consultation	10
5. Conclusion	10
References	10
Appendix 1: Application validation summary	11
Table 1: Proposed applicant controls	2
Table 2: Sensitive human and environmental receptors and distance from prescribed activity	3
Table 3: Risk assessment of potential emissions and discharges from the premises during operation	8
Table 4: Consultation	10
Figure 1: Distance to sensitive receptors	5
Figure 2: Annual wind rose at Medina Research Centre – 9 am and 3 pm (BOM 2021)	6

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 the premises. As a result of this assessment, licence L9287/2021/1 has been granted.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this decision report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

2.2 Application summary and overview of Premises

On 22 March 2021, P.M.R. Quarries Pty Ltd, trading as W.A. Limestone (the applicant) applied for a licence to the department under section 57 of the *Environmental Protection Act 1986* (EP Act). The application is to seek a licence relating to Category 12: Screening etc. of material at the premises.

The new licence application is proposed to replace the previous licence L8895/2012/1, that ceased to have effect on 31 July 2018 due to the annual licence fee not being paid on time. No changes to the existing facilities or plant and equipment are proposed by the applicant, the premises has continued to operate during the assessment of the new licence application.

The approved production capacity of L8895/2015/1 was 100,000 tonnes per annual period. The new licence application seeks a production capacity increase to 700,000 tonnes per annual period.

The premises relates to the category and assessed production capacity under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in licence L9287/2021/1. 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 2020b) are outlined in licence L9287/2021/1.

2.3 Description of proposed activity

2.3.1 Operations

The proposed crushing and screening operation activities includes the following works:

- crushing and screening of limestone and sand;
- handling and stockpiling of material including loading of material into trucks;
- vehicle movements; and
- refuelling and storage of diesel.

Operating hours are proposed to occur between 7 am and 5 pm Monday to Friday and between 7 am and 12 pm on Saturday. Operations exclude Sundays and public holidays.

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 2020b).

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 operation 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: Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
Operation			
Hydrocarbons (hydraulic oil or diesel) and chemicals	Source: <ul style="list-style-type: none"> operation of vehicles, trucks and mobile equipment Activities: <ul style="list-style-type: none"> refuelling storage of diesel damage to equipment causing leaks 	Overland flow	<ul style="list-style-type: none"> A fuel drip tray is utilised during refuelling and emptied when required. A fuel spill kit is carried on the fuel/service truck for minor spills during refuelling. Diesel fuel is stored in a bunded tank, which complies with AS 1940:2004 - The storage and handling of flammable and combustible liquids. Spill kits are located next to the fuel tank. All waste fluids collected and disposed of at appropriate licensed facilities.
Stormwater - Sediment laden	<ul style="list-style-type: none"> crushing and screening of limestone and sand 	Overland runoff	The applicant has not proposed any specific controls to manage contaminated stormwater.
Noise	<ul style="list-style-type: none"> handling and stockpiling of material including loading of material into trucks vehicle movements 	Air/windborne pathway	<ul style="list-style-type: none"> Crushing and screening mobile plant are located and operated on the pit floor, which is 10-20 metres below ground level (mbgl). Topsoil is stored around the perimeter of the premises as a screening bund 3-5 m in height. All operation works will be undertaken during normal operating hours. See section 2.3.1.
Dust			<ul style="list-style-type: none"> Crushing and screening mobile plant are located and operated on the pit floor, which is 10-20 metres below ground level (mbgl). All crushing and screening mobile plant is equipped with sprinklers. A water tanker with a capacity of 13,000 L

Emission	Sources	Potential pathways	Proposed controls
			<p>is maintained on site.</p> <ul style="list-style-type: none"> • During dry conditions the water truck makes sweeps around the site as required. • Water is used to settle dust on the pit floor and reduce the dust emanating from crushing operations. • Sprinklers are available to be used on stockpiles as necessary.

3.1.2 Receptors

In accordance with the *Guideline: Risk Assessment* (DWER 2020b), 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.

The premises is approximately 3.1 km north-north-west of Kwinana.

Table 2 and Figure 1 below provides a summary of potential human and environmental receptors that may be impacted because of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental Siting* (DWER 2020a)).

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

Sensitive receptors	Distance from crushing and screening activities	Pathway assessment
Human receptors		
Perth Motorplex	Located approximately 1 km west.	Prevailing easterly winds are directed towards the Perth Motorplex in the mornings (Figure 2); however, the majority of these wind speeds are considered low (between 0-20 km/hr) (BOM 2021).
Residential properties	Located approximately 1.3 km south.	No prevailing winds are directed towards the residential premises (Figure 2) (BOM 2021).
Environmental receptors		
Groundwater	<p>Premises is located within the Cockburn Groundwater Area proclaimed under <i>Rights in Water and Irrigation Act 1914</i>.</p> <p>Groundwater is marginal with 500 to 1,000 Total Dissolved Solids (TDS) (DWER Geocortex).</p> <p>The applicant has stated that the groundwater table is 0.5 m Australian Height Datum (AHD) and the base of the</p>	<p>Discharges of hydrocarbons (e.g. hydraulic oil or diesel) and chemicals have potential to infiltrate to groundwater via soil causing impacts to groundwater quality.</p> <p>Soil at the premises is limestone soils, which are considered to be highly permeable (W.A. Limestone 2021).</p>

Sensitive receptors	Distance from crushing and screening activities	Pathway assessment
	quarry is 2.5 m AHD maintaining 2 m separation distance. (W.A. Limestone 2021).	
Threatened and priority fauna	<p>The following conservation significant fauna species has been sighted (DWER Geocortex):</p> <ul style="list-style-type: none"> Quenda (Southwestern brown bandicoot), <i>Isoodon fusciventer</i> (P4) sighting approximately 351 m south. <p>Note: sighting is from 2012.</p>	The Delegated Officer notes that the crushing and screening area does not contain any native vegetation and therefore no suitable habitat for the Quenda. This receptor is not considered to be impacted during the proposed crushing and screening operations and is not further considered in the risk assessment.
Threatened Ecological Communities (TEC) and native vegetation	<p>The premises and surrounding areas to the west, east and south are located within the tuart woodlands and forests buffer zone, indicating that any remnant native vegetation may be TEC habitat:</p> <ul style="list-style-type: none"> Tuart (<i>Eucalyptus gomphocephala</i>) woodlands and forests of the Swan Coastal Plain – Critically Endangered under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> and listed as Priority 3 ecological community by the Department of Biodiversity, Conservation and Attractions (DBCA). 	Pathways via air/wind dispersion and overland runoff can potentially lead to poor native TEC/native vegetation health.

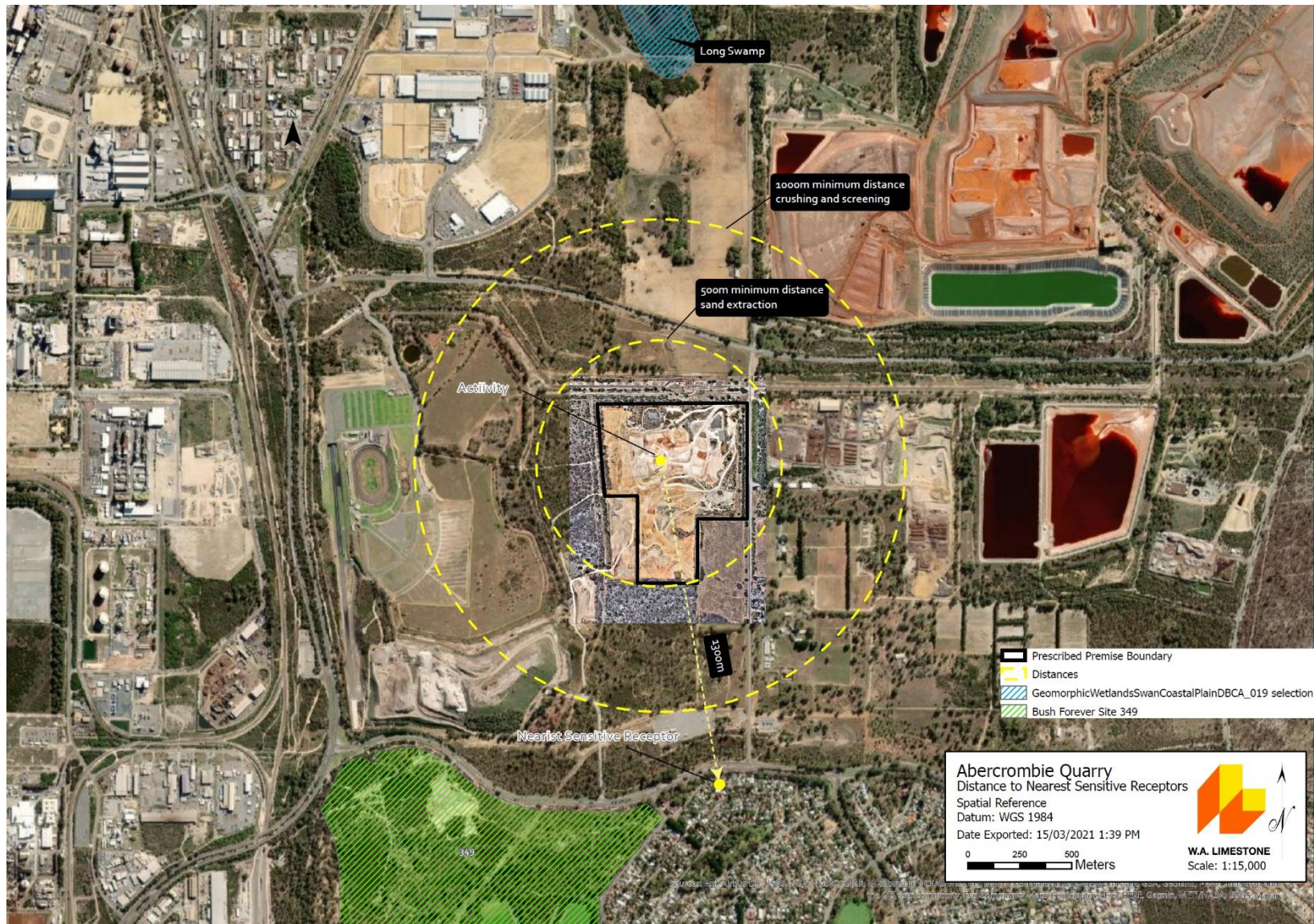
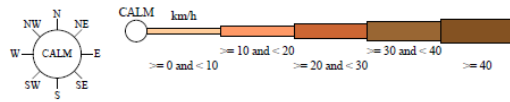


Figure 1: Distance to sensitive receptors

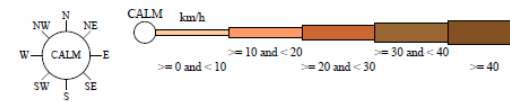
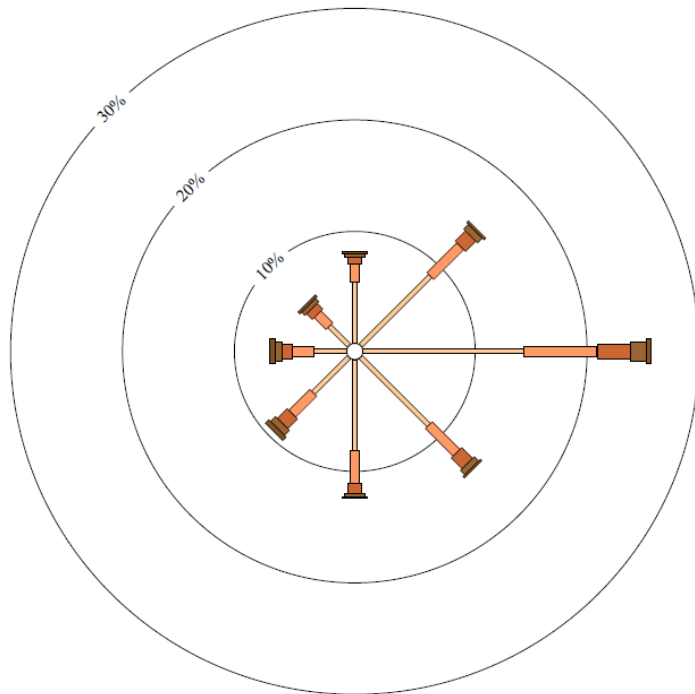
Licence: L9287/2021/1

IR-T13 Decision report template (short) v3.0 (May 2021)



9 am
12127 Total Observations

Calm 4%



3 pm
6729 Total Observations

Calm 1%

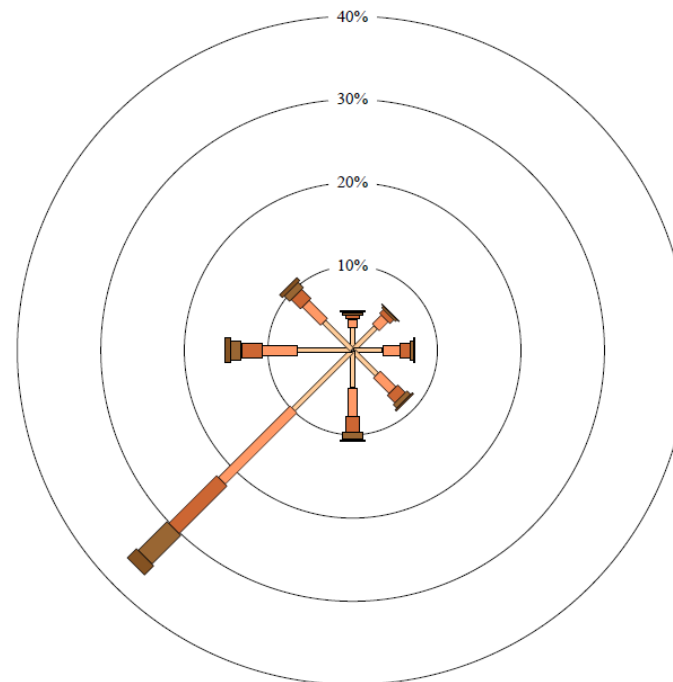


Figure 2: Annual wind rose at Medina Research Centre – 9 am and 3 pm (BOM 2021)

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020b) for each identified emission source and considers potential source-pathway and receptor linkages as identified in section 3.1. Where linkages are incomplete, 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 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.

Licence L9287/2021/1 that accompanies this decision report authorises emissions associated with the operation of the premises i.e. crushing and screening of limestone and sand.

The conditions in the issued licence, as outlined in Table 3 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

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 ² of licence	Justification for additional regulatory requirements
Source/Activities	Potential emission	Potential pathways	Potential adverse impacts	Receptors	Applicant controls				
Operations									
<p>Source:</p> <ul style="list-style-type: none"> operation of vehicles, trucks and mobile equipment <p>Activities:</p> <ul style="list-style-type: none"> refuelling damage to equipment causing leaks 	Hydrocarbons (e.g. hydraulic oil or diesel) and chemicals	Overland flow	<p>Infiltration to groundwater via soil causing impacts to groundwater quality</p> <p>Impacts to native vegetation/TEC health</p>	<p>Groundwater (0.5 mAHD)</p> <p>TEC/ Native vegetation (immediately west, east and south)</p>	Refer to Table 1, section 3.1.1	<p>C = Minor</p> <p>L = Unlikely</p> <p>Medium Risk</p>	Yes	Condition 2 (Table 1, item 2)	<p>The Delegated Officer has determined that due to the highly porous limestone soils at the premises, an additional regulatory control has been applied to ensure appropriate management of hydrocarbons.</p> <p>For noting:</p> <ul style="list-style-type: none"> Discharges to the environment will be regulated under the EP Act and <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>
<ul style="list-style-type: none"> crushing and screening of limestone and sand handling and stockpiling of material including loading of material into trucks vehicle movements 	Stormwater - Sediment laden	Overland runoff	Impacts to native vegetation/TEC health	TEC/ Native vegetation (immediately west, east and south)	Refer to Table 1, section 3.1.1	<p>C = Slight</p> <p>L = Unlikely</p> <p>Low Risk</p>	Yes	N/A	<p>N/A</p> <p>For noting:</p> <ul style="list-style-type: none"> The applicant has advised that minimal stormwater run-off occurs within the site due to infiltration into the porous limestone soils (W.A. Limestone 2021).
	Noise	Air/Wind dispersion	Impacts to health and amenity	<p>Perth Motorplex (1 km west)</p> <p>Residential properties (1.3 km south)</p>	Refer to Table 1, section 3.1.1	<p>C = Slight</p> <p>L = Unlikely</p> <p>Low Risk</p>	Yes	Conditions 1 and 2 (Table 1, item 1)	N/A

Risk Event						Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of licence	Justification for additional regulatory requirements
Source/Activities	Potential emission	Potential pathways	Potential adverse impacts	Receptors	Applicant controls				
	Dust	Air/Wind dispersion	Impacts to health and amenity	Perth Motorplex (1 km west) Residential properties (1.3 km south)	Refer to Table 1, section 3.1.1	C = Slight L = Unlikely Low Risk	Yes	Condition 2 (Table 1, item 3)	N/A
			Impacts to native vegetation/TEC health	TEC/ Native vegetation (immediately west, east and south)	Refer to Table 1, section 3.1.1	C = Slight L = Possible Low Risk	Yes	N/A	N/A

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

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

4. Consultation

Table 4 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 03/05/2021	None received	N/A
Local Government Authority advised of proposal on 11/05/2021	The City of Kwinana replied on 08/06/2021 advising that planning approval is not required for this proposal as the premises is located on Crown land.	N/A
Department of Mines, Industry Regulation and Safety (DMIRS) advised of proposal on 11/05/2021	None received	N/A
Department of Planning, Lands and Heritage (DPLH) 01/07/2021	Comments were received on 9/08/2021 however these related to matters outside of DWER's jurisdiction.	N/A
Applicant was provided with draft documents on 10/08/2021	The applicant replied on 10/08/2021 advising that they are satisfied with the documents and requested that the 21-day comment period be waived and the licence issued.	N/A

5. Conclusion

Based on the assessment in this decision report, the Delegated Officer has determined that a licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

References

1. Bureau of Meteorology (BOM) 2021, *Medina Research Centre (Site number: 009194)*, website: http://www.bom.gov.au/climate/averages/tables/cw_009194.shtml
2. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
3. Department of Water and Environmental Regulation (DWER) 2020a, *Guideline: Environmental Siting*, Perth, Western Australia.
4. DWER 2020b, *Guideline: Risk Assessments*, Perth, Western Australia.
5. W.A. Limestone 2021, *Licence Application Supporting Information – Abercrombie Quarry*, Bibra Lake, Western Australia.

Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)					
Application type					
Works approval	<input type="checkbox"/>				
Licence	<input checked="" type="checkbox"/>	Relevant works approval number:	N/A	None	<input checked="" type="checkbox"/>
		Has the works approval been complied with?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>		
		Has time limited operations under the works approval demonstrated acceptable operations?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>		
		Environmental Compliance Report submitted?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>		
		Date report received:	N/A		
Renewal	<input type="checkbox"/>	Current licence number:			
Amendment to works approval	<input type="checkbox"/>	Current works approval number:			
Amendment to licence	<input type="checkbox"/>	Current licence number:			
		Relevant works approval number:		N/A	<input type="checkbox"/>
Registration	<input type="checkbox"/>	Current works approval number:		None	<input type="checkbox"/>
Date application received	22 March 2021				
Applicant and premises details					
Applicant name/s (full legal name/s)	P.M.R. Quarries Pty Ltd, trading as W.A. Limestone				
Premises name	Abercrombie Road Quarry				
Premises location	M70/636, M70/715, M70/239 & G70/160				
Local Government Authority	City of Kwinana				
Application documents					
HPCM file reference number:	DER2021/000152				
Key application documents (additional to application form):	Application supporting document Map of distances to nearest receptors Cover letter to licence application Abercrombie Premises Map				
Scope of application/assessment					

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)

<p>Summary of proposed activities or changes to existing operations.</p>	<p><u>Background</u></p> <p>The new licence application is proposed to replace the previous licence L8895/2012/1, that ceased to have effect on 31/07/2018 due to the annual licence fee not being paid on time. The quarry has continued to operate during the assessment of the new licence application.</p> <p>The approved production capacity of L8895/2015/1 was 100,000 tonnes per annual period. The new licence application seeks a production capacity increase to 700,000 tonnes per annual period.</p> <p><u>Licence</u></p> <p>Operations:</p> <ul style="list-style-type: none"> • crushing and screening of limestone and sand; • handling and stockpiling of material including loading of material into trucks; • vehicle movements; and • refuelling and storage of diesel.
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Category number/s (activities that cause the premises to become prescribed premises)

Table 1: Prescribed premises categories

Prescribed premises category and description	Assessed production or design capacity	Proposed changes to the production or design capacity (amendments only)
Category 12: Screening etc. of material	700,000 tonnes per annum	

Legislative context and other approvals

Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: N/A Managed under Part V <input checked="" type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: N/A EPA Report No: N/A
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No: N/A
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Certificate of title <input type="checkbox"/> General lease <input type="checkbox"/> Expiry: Mining lease / tenement <input checked="" type="checkbox"/> <ul style="list-style-type: none"> • G70/160 Expiry: 24/01/2037 • M70/636 Expiry: 06/10/2035 • M70/715 Expiry: 06/10/2035 • M70/239 Expiry: 11/09/2028

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)

		Other evidence <input type="checkbox"/> Expiry:
Has the applicant obtained all relevant planning approvals?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Approval: Expiry date: Not applicable as premises on Mining tenement.
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	CPS No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Application reference No: N/A Licence/permit No: GWL54280 for Cockburn GWA Perth superficial aquifer entitlement of 2700kL/a.
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Type: N/A Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Regional office: N/A
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Priority: N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to <u>WQPN 25</u>)? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Is the Premises subject to any other Acts or subsidiary regulations?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<ul style="list-style-type: none"> • <i>Environmental Protection (Noise) Regulations 1997</i> • <i>Environmental Protection (Unauthorised Discharge) Regulations 2004</i> • <i>Mining Act 1978</i> • <i>Rights in Water and Irrigation Act 1914</i> • <i>Environmental Protection (Controlled Waste) Regulations 2004</i>

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)

Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Classification: N/A Date of classification: N/A