



Application for Works Approval

Division 3, Part V *Environmental Protection Act 1986*

Works Approval Number	W6260/2019/1
Applicant	Kimberley Quarry Pty Ltd
ACN	093 519 638
File Number	DER2019/000212
Premises	Maitland Quarry Part of tenement M47/1496 As defined by the coordinates in Schedule 1 of the Works Approval
Date of Report	29/11/2019

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Definitions

In this Decision Report, the terms in Table 1 below have the meanings defined.

Table 1: Definitions

Term	Definition
ACN	Australian Company Number
Category/ Categories/ Cat.	Categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
Decision Report	refers to this document.
Delegated Officer	an officer under section 20 of the EP Act.
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
DWER	Department of Water and Environmental Regulation As of 1 July 2017, the Department of Environment Regulation (DER), the Office of the Environmental Protection Authority (OEPA) and the Department of Water (DoW) amalgamated to form the Department of Water and Environmental Regulation (DWER). DWER was established under section 35 of the <i>Public Sector Management Act 1994</i> and is responsible for the administration of the <i>Environmental Protection Act 1986</i> along with other legislation.
DMIRS	Department of Mines, Industry Regulation and Safety
Emission	has the same meaning given to that term under the EP Act.
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
Noise Regulations	<i>Environmental Protection (Noise) Regulations 1997 (WA)</i>
Occupier	has the same meaning given to that term under the EP Act.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report
Risk Event	As described in <i>Guidance Statement: Risk Assessment</i>
Works Approval Holder	Kimberley Quarry Pty Ltd

1. Overview of premises

1.1 Description of proposed activity

On 5 April 2019 Kimberley Quarry Pty Ltd applied for a Works Approval for Category 12 crushing and screening activities for their Maitland Quarry Project. Maitland Quarry is located within tenement M47/1496, approximately 17 kms south-west of Karratha. Access to the site is via the North West Coastal Highway.

The regional location and site plan details are illustrated in Figure 1 and Figure 2.

Maitland Quarry will consist of two open pits, mobile crushing and screening plant, ore/rock stockpile area, topsoil stockpile, office, weighbridge, workshop, haul and access roads, potable water storage tank and potable water pipelines, diesel genset, fuel farm, explosives magazine and accommodation camp. The total disturbance footprint area will be approximately 46.89 ha.

Up to 1,000,000 tonnes per year of quarry products will be produced (depending on market demand) such as aggregates, road-base and rock armouring, to be sold to the local construction and mining industries.

The quarry products will be mined by drill and blasting of the rock in the open pits, excavation of the blasted rock, loading of the rock into dump trucks and haulage to the run of mine (RoM) pad. Rock from the RoM pad will be processed through a three-stage mobile crushing and screening plant where it will be crushed and screened to produce various sized products. The screened product will be stockpiled ready for sale and then loaded onto road trains as required, weighed on the weighbridge and transported via the site access road and public roads to the customer. No waste rock or tailings will be generated. The flow diagram for the crushing and screening process is provided in Figure 3.

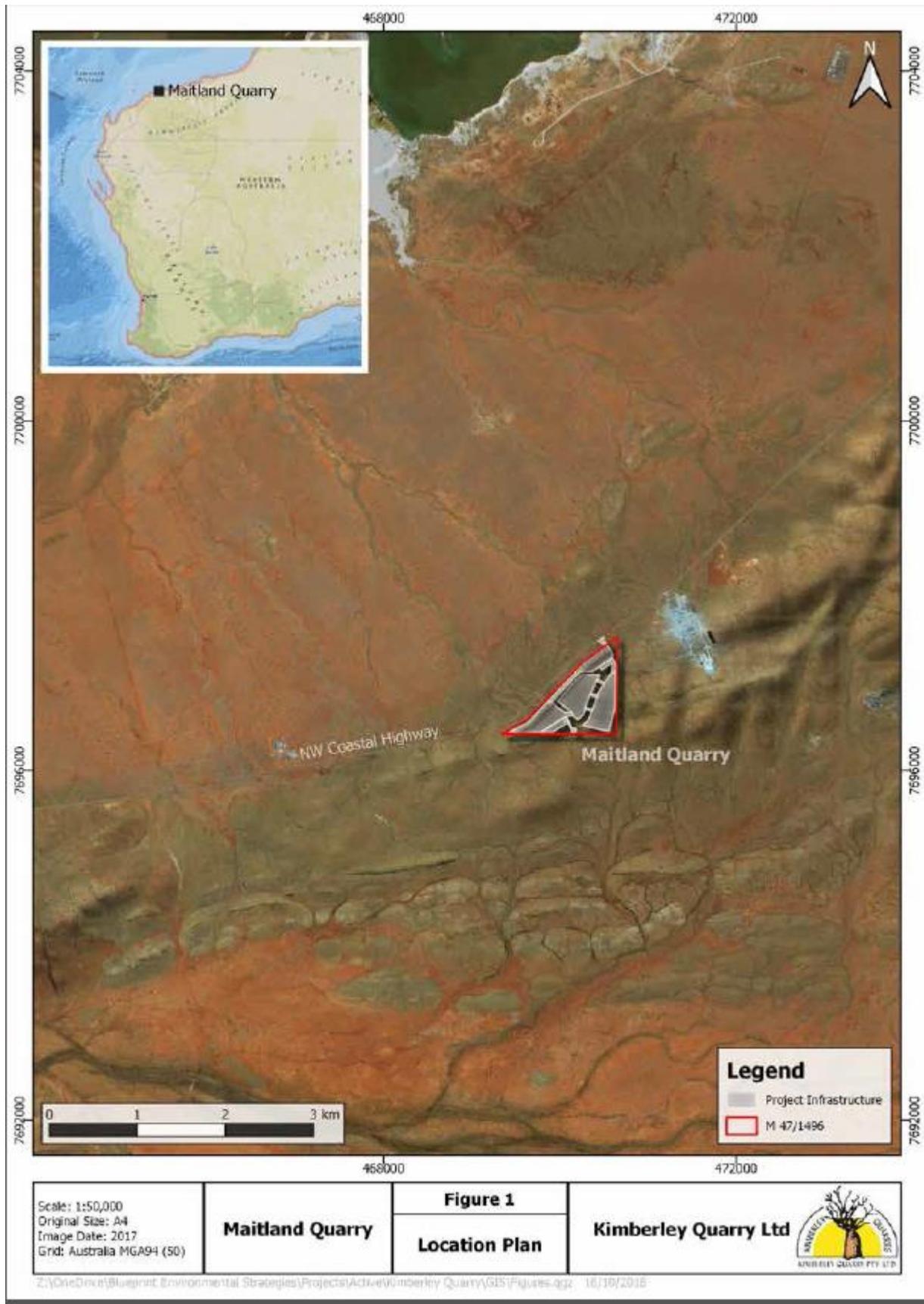
It is anticipated that mining of the resource will not intercept groundwater and therefore mine dewatering is not planned.

The Works Approval Holder has a non-potable water supply contract with Water Corporation for the supply of 50,000 kL/annum of water from the Water Corporation main Karratha water pipeline. This water will be used for dust suppression for the project.

Power supply for the project will be via a 70 kVA diesel genset, with no need for external supply or infrastructure.

Putrescible/inert waste and hydrocarbon contaminated waste will be stored separately in skip bins and transported off site for disposal at a licenced controlled waste facility in Karratha.

The life of mine (LoM) is 21 years, with end of mine life predicted for 2039.



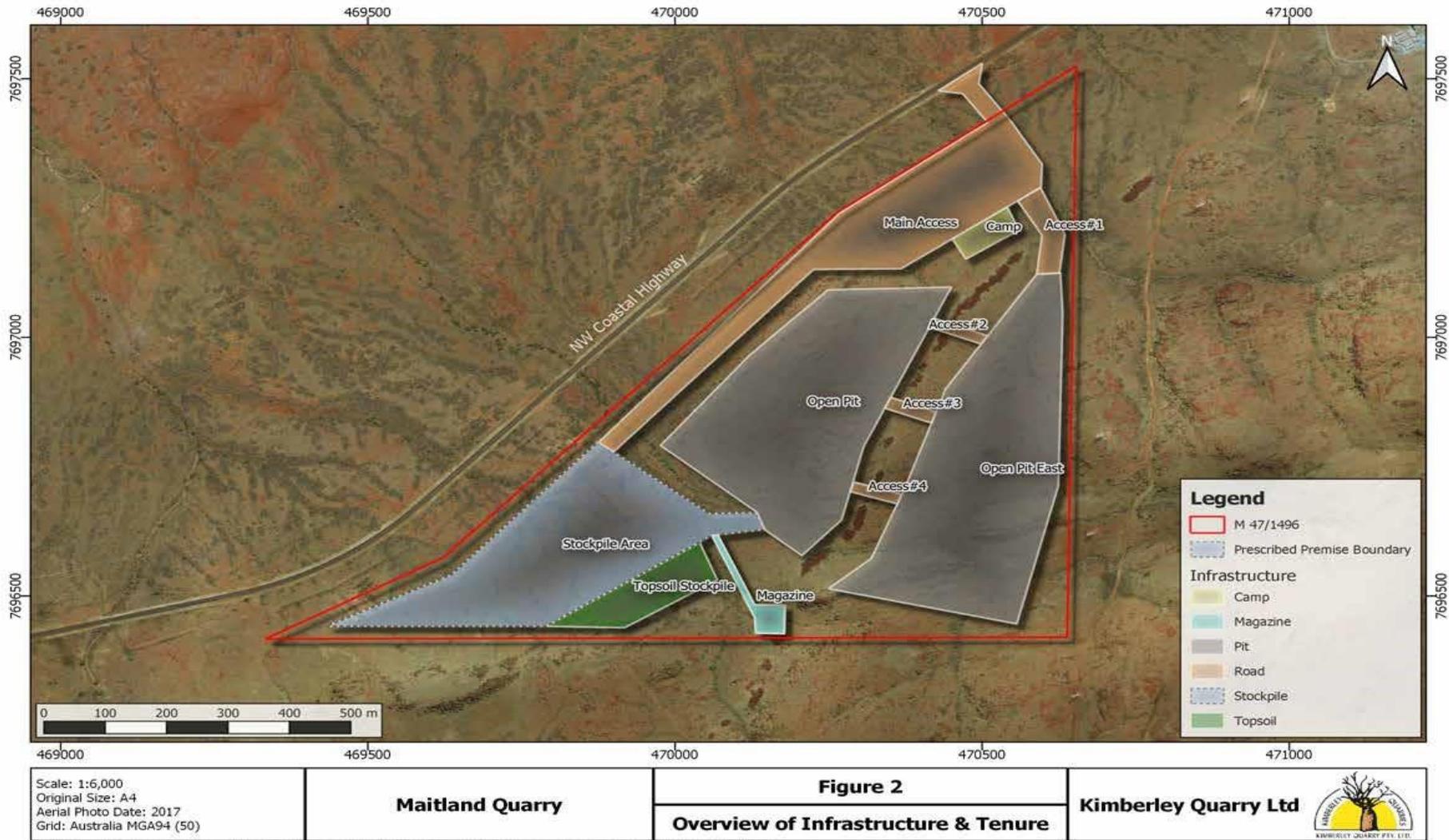


Figure 2: Site plan including prescribed premises boundary

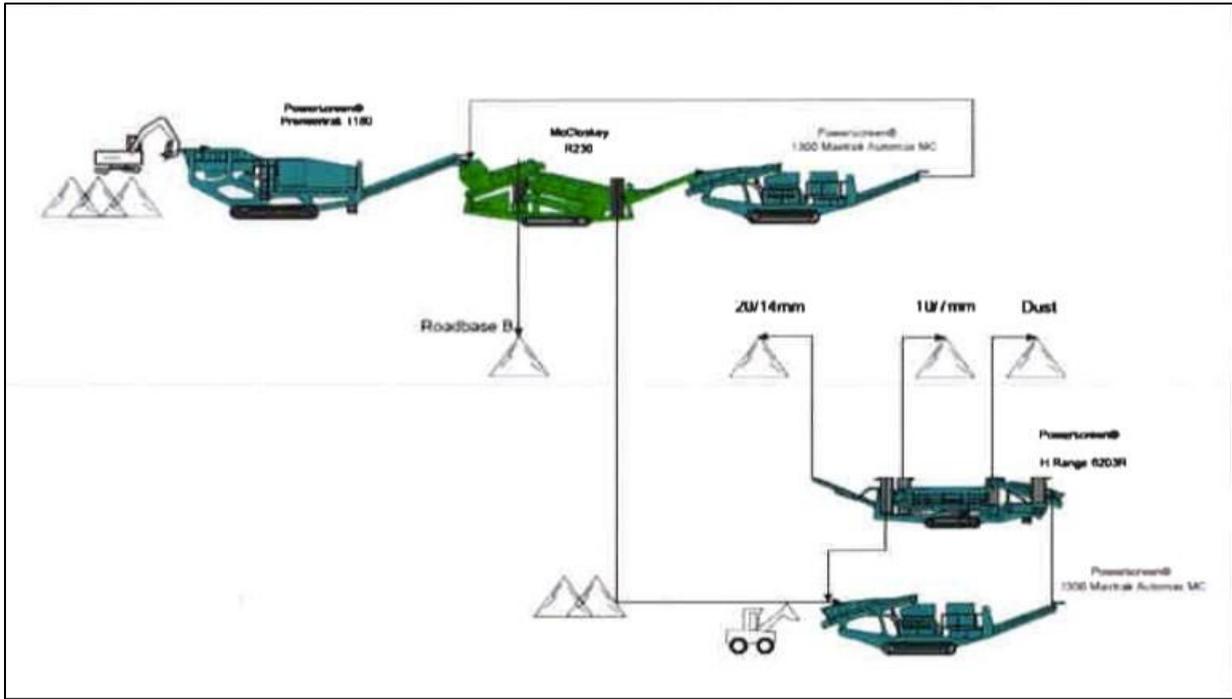


Figure 3: Crushing and screening process flow diagram

1.2 Prescribed premises categories

The prescribed premises categories relevant to the Works Approval application are detailed in Table 2 below.

Table 2: Prescribed premises categories

Prescribed Premises	Description	Production or design capacity
Category 12	Screening etc. of material: premises (other than premises within category 5 or 8) on which material extracted from the ground is screened, washed, crushed, ground, milled, sized or separated.	50,000 tonnes or more per year

1.3 Infrastructure and equipment

The Maitland Quarry infrastructure and equipment, as it relates to Category 12 activities, is detailed in Table 3.

Table 3: Category 12 infrastructure and equipment

Ref	Infrastructure and Equipment	Site Layout Plan Reference
	Prescribed Activity (Category 12)	
1	Mobile crushing and screening plant including: <ul style="list-style-type: none"> • Primary jaw crusher. • Scalping screen. • Secondary cone crusher. • Tertiary cone crusher. 	Stockpile area

Ref	Infrastructure and Equipment	Site Layout Plan Reference
	Prescribed Activity (Category 12)	
	<ul style="list-style-type: none"> Product screen. 	
2	Crusher feed excavator	Stockpile area
3	Stockpile loaders	Stockpile area
4	Sales loaders	Stockpile area
5	Water truck/s	Stockpile area

1.4 Commissioning

Following installation at the premises the mobile crushing and screening plant will undergo a commissioning process including the following:

- Pre-commissioning – comprising static checks on unpowered equipment to confirm that the infrastructure has been built according to specification.
- Dry commissioning – comprising test operation of ‘empty’ equipment and facilities without the addition of fuel, ore/rock, water or air.
- Wet commissioning – comprising test operation of equipment and facilities with water.
- Ore/rock commissioning – comprising test operation of equipment and facilities with ore/rock and water.
- Compliance Report – Submission of compliance report to demonstrate construction in accordance with the Works Approval.

Wet commissioning of each component will not begin until pre-commissioning and dry commissioning tests have been passed. During ore/rock commissioning, material feeds to the mobile crushing and screening plant will be gradually increased until they reach the steady-state design volumes. The commissioning process is expected to be completed over 1 to 2 months.

1.5 Exclusions to the premises

1.5.1 Drilling, blasting, mining and transport of material/product

Under the *Environmental Protection Regulations 1987* Schedule 1 Part 1, prescribed premises Category 12 *does not* include drilling, blasting, mining and transport of material/product. The scope of this assessment therefore *does not include* these particular activities and associated emissions/discharges.

1.5.2 Storage of hydrocarbons (fuel, oil)

The applicant will store 48,000 litres of diesel fuel within a bunded facility. A self bunded sea container will be used to store oils.

These activities are not within the scope of this assessment as they *do not* trigger prescribed premises category 73.

1.5.3 Sewage management

Ablution blocks with septic tanks will be installed to hold sewage waste from the project. Waste from the septic tanks will be periodically withdrawn and transported to a licensed controlled waste facility. These activities are not within the scope of this assessment as they *do not* trigger prescribed premises categories 54 and 85.

2. Legislative context

Other approvals relevant to the premises are outlined in Table 4 below.

Table 4: Other approvals relevant to the premises

Legislation	Number	Approval
<i>Mining Act 1978</i>	N/A	The applicant has advised a project mining proposal for mining, processing and associated disturbance activities has been prepared and submitted to DMIRS (Department of Mines, Industry Regulation and Safety) for assessment.
<i>Environmental Protection Act 1986. Part V, Division 2 – clearing of native vegetation</i>	N/A	The applicant has advised an application for a Native Vegetation Clearing Permit (NVCP) will be submitted to DMIRS for assessment.

DWER notes that the Works Approval does not authorise any clearing to be undertaken. The clearing of native vegetation for the project is regulated by DMIRS.

2.1 Part V of the EP Act

2.1.1 Applicable regulations, standards and guidelines

The overarching legislative framework of this assessment is the EP Act and EP Regulations.

The guidance statements which inform this assessment are:

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guidance Statement: Licence Duration (August 2016)*
- *Guidance Statement: Decision Making (June, 2019)*
- *Guidance Statement: Risk Assessments (February 2017)*
- *Guidance Statement: Environmental Siting (November 2016)*

3. Siting

3.1 Potential human and environmental receptors

A description of potential human and environmental receptors within or in the vicinity of the premises is provided in Table 5 below.

Table 5: Potential human and environmental receptors

Receptor	Description and/or distance from prescribed premises
Human receptors	
Road users on North West Coastal Highway	North West Coastal Highway is located approximately 85m to the north-west of the premises boundary
Boral Resources Mt Regal Quarry operations staff	Boral Resources operates the Mt Regal Quarry (Licence L7037/1997/6) approximately 900m to the north-east of the premises boundary (crushing/screening and product stockpile area).
Environmental receptors	
Groundwater	<p>The local aquifer in the region is expected to consist of low permeability fractured and weathered rocks.</p> <p>Groundwater quality is expected to be brackish ranging from 1,000 to 3,000 mg/L.</p> <p>Depth to groundwater is expected to be 5-10 metres below ground level or greater.</p>
Ephemeral creeks	<p>Two ephemeral creeks occur within the premises boundary and another is located approximately 300m to the west of the premises.</p> <p>The creeks are expected to be dry creeks which may flow following seasonal cyclonic rainfall events.</p> <p>Creek flow would generally be to the north-west and discharge to the Indian Ocean approximately 6km to the north-west.</p>

4. Consultation

Advertising of the application was completed on the DWER website and the West Australian on 15 July 2019 for a period of 21 days. No submissions were received.

Comment on the works approval application was sought from multiple stakeholders. A summary of comments received is provided in Table 8 below.

Table 8: Stakeholder comments

Stakeholder	Summary of comments received	DWER comment
City of Karratha	<p>A submission was received from the City of Karratha on 29 July 2019, noting the following:</p> <p><i>“Given the proximity of the proposed mining operations to the North West Coastal Highway, the City requests that adequate dust suppression measures are undertaken on the access road, quarry pits and stockpile area to ensure that no dust leaves the site and impacts road users. In addition, adequate measures should be in place to ensure that any vehicles that exit the site do not transport gravel and soil from the site onto the North West Coastal Highway”.</i></p>	<p>DWER’s assessment of the works approval and future licence application considers emissions associated with prescribed premises category 12 activities, i.e. crushing and screening of extracted material and stockpiling of product.</p> <p>DWER’s assessment considers dust emissions associated with category 12 activities and includes an assessment of associated risks and required regulatory controls as detailed in Section 5 of this decision report.</p>
Main Roads WA (MRWA)	<p>A submission was received from MRWA on 23 August 2019, noting the following:</p> <p><i>“Main Roads wishes to advise that we have no objections to the proposed development. We have had previous correspondence with Kimberley Quarries where we outlined the need to construct an approved access to Main Roads specifications (as per drawing 200131-0081) from the quarry to North West Coastal Highway. The conditional approval (document no. D17#837115) and associated Conditions of Agreement (document no. D17# 837184) were granted on 2 November 2017,</i></p> <p><i>Main Roads has no further comments in relation to the proposed development”.</i></p>	<p>Comment noted.</p>

<p>Boral Resources (WA) Ltd</p> <p>– holder of Licence L7037/1997/6 for Mount Regal Quarry, located approximately 900m to the north-east of the premises boundary.</p>	<p>No submission received</p>	<p>N/A</p>
<p>Department of Mines, Industry Regulation and Safety (DMIRS)</p>	<p>No submission received</p>	<p>N/A</p>

5. Risk assessment and regulatory controls

In undertaking its risk assessment DWER will identify all potential emissions pathways and potential receptors to establish whether there is a Risk Event which requires detailed risk assessment. 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. Where there is no actual or likely pathway and/or no receptor, the emission will be screened out and will not be considered as a Risk Event.

Table 6 and Table 7 below detail the completed risk assessment. Risk ratings have been assessed for each key emission source and take into account potential source-pathway-receptor linkages. The mitigation measures / controls proposed by the Applicant have been considered in determining the risk rating. Risk events associated with construction and operational activities have been assessed separately. The conditions of the Works Approval and Licence will be set to give effect to the determined regulatory controls.

The Works Approval that accompanies this report authorises the specified construction activities only. Following completion and compliance with the Works Approval, a prescribed premises category 12 Licence will be required to authorise emissions associated with the operation of the premises. The Licence conditions will not be finalised until DWER assesses the Licence application.

Table 6: Risk assessment – construction and commissioning

Risk Event				Consequence rating*	Likelihood rating*	Risk*	Reasoning	Regulatory controls
Source/Activities	Potential emissions	Potential receptors, pathway and impact	Applicant controls					
Category 12 Placement and commissioning of mobile crusher and screening plant and associated equipment	Noise	No residences in the vicinity of the premises.	Managed in accordance with the <i>Environmental Protection (Noise) Regulations 1997</i>	Nil	Nil	N/A	The assessment of the application has not identified any residences in the region of the premises. The nearest residences are located in the Karratha region approximately 10kms to the north-east of the premises. Additionally, noise emissions from the premises are not expected to have an adverse impact on Mt Regal Quarry operations.	Noise emissions from the premises can be managed through the <i>Environmental Protection (Noise) Regulations 1997</i> .
	Dust	<p>Receptor (1): Road users on North-West Coastal Highway (NWCH)</p> <p>Pathway: Dust emissions from construction and commissioning of the mobile crusher/screen may migrate off site to the North West Coastal Highway</p> <p>Impact: Amenity impacts and potentially reduced visibility for road users</p>	<p>The applicant has proposed the following measures to manage dust at the premises:</p> <p>Infrastructure and equipment</p> <ul style="list-style-type: none"> ▪ Sprays fitted to tipping area of crusher ▪ Dust collection system fitted to crusher ▪ Crushing/screening plant fitted with water sprays on conveyor belts and transfer points <p>Multiple dust control equipment including:</p> <ul style="list-style-type: none"> ▪ Polo Citrus foam dust suppression unit (used on crushing/screening plant) ▪ Water truck of 10,000L capacity (or greater) on site at all times – equipped with water cannon and side sprays ▪ Dust Control Unit (mist sprayer) <p>Operations</p> <p>The applicant has prepared a Dust Management Plan (DMP) for the project which</p>	Moderate	Possible	Medium	<p>Public use of North-West Coastal Highway (NWCH) is typically in closed vehicles and transient in nature. Therefore, dust emissions from the premises are not expected to migrate to road users in a manner that may cause adverse health effects. However, dust emissions may potentially impact amenity and reduce visibility for road users.</p> <p>Due to the proximity of the premises boundary to NWCH (85m separation distance), there is potential for the migration of dust from the premises to the highway area during commissioning of the mobile crusher and screen, which could be exacerbated during high wind conditions in the direction of NWCH.</p> <p>The applicant has specified measures to reduce the likelihood of dust emissions generating nuisance impacts off-site. A complaint response process will be implemented including corrective actions in the event of nuisance impacts off-site.</p> <p>A risk rating of Medium has been determined.</p>	<p>The risk events are acceptable subject to the following regulatory controls:</p> <p>Works approval controls</p> <p><u>Infrastructure/equipment requirements:</u></p> <ul style="list-style-type: none"> ▪ Mobile crushing/screening plant to be fitted with dust collection system and/or sprays as specified. ▪ Provision of foam dust suppression unit, water truck and mist sprayer as specified. <p><u>Mobile crusher/screen commissioning phase requirements:</u></p> <ul style="list-style-type: none"> ▪ That no visible dust generated from Category 12 activities crosses the boundary of the premises. ▪ Recording of any complaints received due to emissions from the premises and actions taken to investigate/respond to the complaint.

Risk Event				Consequence rating*	Likelihood rating*	Risk*	Reasoning	Regulatory controls
Source/Activities	Potential emissions	Potential receptors, pathway and impact	Applicant controls					
		<p>Receptor (2): Mt Regal Quarry operations staff</p> <p>Pathway: Dust emissions from commissioning of the mobile crusher/screen may migrate off site to the Mt Regal Quarry operation.</p> <p>Impact: Adverse health effects</p>	<p>includes the following measures relevant to Category 12 activities:</p> <ul style="list-style-type: none"> ▪ Ensuring dust control equipment is maintained and operable. ▪ Ensuring drop heights from discharge belts to hoppers and stockpiles is kept to a minimum. ▪ Undertaking inspections including – an assessment prior to the commencement of each work shift (and throughout the day) on the potential for dust generation, considering the nature of activities on site and predicted weather conditions. ▪ Execution of dust minimisation strategy if impact on surrounding land users is likely. Options include: <ul style="list-style-type: none"> - Spraying of feed rock and product stockpiles; - Use of sprays and dust suppression foam on mobile crusher/screen; - Watering of unsealed lay down areas and roads. ▪ Non-potable water supply contract with Water Corporation for the supply of 50,000 kL/annum of water from the Water Corporation main Karratha water pipeline. Standpipe located within 7km of Maitland Quarry. Contract currently valid to 2028. ▪ Complaint response process. ▪ Shut down of plant if wind conditions are generating negative impacts off-site. 	Moderate	Unlikely	Medium	<p>Dust emissions from commissioning of the mobile crusher/screen, could potentially migrate in a north-easterly direction to Mt Regal Quarry. It is considered such an event may cause low level adverse health effects to operational staff at Mt Regal Quarry. The area is also noted as dry and can be dusty.</p> <p>The likelihood of this event is reduced due to the separation distance from the premises boundary to Mt Regal Quarry (approx. 900m), and measures to manage dust emissions at the premises.</p> <p>A Medium risk rating has therefore been determined.</p>	
	Fuel and oil spills from heavy vehicles and mobile plant (during commissioning activities)	<p>Receptor: Soils at the premises</p> <p>Pathway: Direct discharge to soil</p> <p>Impact: Soil contamination</p>	<ul style="list-style-type: none"> ▪ Provision of drip trays and spill kits to contain/manage spills, should they occur outside of refueling and vehicle maintenance pads. 	Slight	Possible	Low	<p>Fuel and oil spills associated with the installation and commissioning of the mobile crusher and screen are expected to be minor events which may occur over a short 1-2 month timeframe. Impacts from such fuel/oil spills are expected to be localised and restricted to soils within the premises.</p> <p>A Low risk rating has therefore been determined.</p>	<p>The risk event is considered to be acceptable.</p> <p>The general provisions of the EP Act and Environmental Protection (Unauthorised Discharges) Regulations 2004 apply.</p>

*Consequence ratings, likelihood ratings and risk descriptions are detailed in the Department's Guidance Statement: Risk Assessments (February 2017)

Table 7: Risk assessment – operations (information only)

Risk Event				Consequence rating*	Likelihood rating*	Risk*	Reasoning	Regulatory controls
Source/Activities	Potential emissions	Potential receptors, pathway and impact	Applicant controls					
Category 12 Crushing/screening of excavated material; Loading and stockpiling of product	Noise	No residences in the vicinity of the premises.	Managed in accordance with the <i>Environmental Protection (Noise) Regulations 1997</i>	Nil	Nil	N/A	The assessment of the application has not identified any residences in the region of the premises. The nearest residences are located in the Karratha region approximately 10kms to the north-east of the premises. Additionally, noise emissions from the premises are not expected to have an adverse impact on Mt Regal Quarry operations.	Noise emissions from the premises can be managed through the <i>Environmental Protection (Noise) Regulations 1997</i>

Risk Event				Consequence rating*	Likelihood rating*	Risk*	Reasoning	Regulatory controls
Source/Activities	Potential emissions	Potential receptors, pathway and impact	Applicant controls					
	Dust	<p>Receptor (1): Road users on North-West Coastal Highway (NWCH)</p> <p>Pathway: Dust emissions from Category 12 activities could migrate off site to the North West Coastal Highway</p> <p>Impact: Amenity impacts and potentially reduced visibility for road users</p>	<p>The applicant has proposed the following measures to manage dust at the premises:</p> <p>Infrastructure and equipment</p> <ul style="list-style-type: none"> ▪ Sprays fitted to tipping area of crusher ▪ Dust collection system fitted to crusher ▪ Crushing/screening plant fitted with water sprays on conveyor belts and transfer points <p>Multiple dust control equipment including:</p> <ul style="list-style-type: none"> ▪ Polo Citrus foam dust suppression unit (used on crushing/screening plant) ▪ Water truck of 10,000L capacity (or greater) on site at all times – equipped with water cannon and side sprays ▪ Dust Control Unit (mist sprayer) <p>Operations</p> <p>The applicant has prepared a Dust Management Plan (DMP) for the project which includes the following measures relevant to Category 12 activities.</p> <ul style="list-style-type: none"> ▪ Ensuring dust control equipment is maintained and operable. ▪ Ensuring drop heights from discharge belts to hoppers and stockpiles is kept to a minimum. ▪ Undertaking inspections including – an assessment prior to the commencement of each work shift (and throughout the day) on the potential for dust generation, considering the nature of activities on site and predicted weather conditions. 	Moderate	Possible	Medium	<p>Public use of North-West Coastal Highway (NWCH) is typically in closed vehicles and transient in nature. Therefore, dust emissions from the premises are not expected to migrate to road users in a manner that may cause adverse health effects. However, dust emissions may potentially impact amenity and reduce visibility for road users.</p> <p>Due to the proximity of the premises boundary to NWCH (85m separation distance), there is potential for the migration of dust from the premises to the highway area during crushing, screening and material stockpiling operations, which could be exacerbated during high wind conditions in the direction of NWCH.</p> <p>The applicant has specified measures to reduce the likelihood of dust emissions generating nuisance impacts off-site. A complaint response process will be implemented including corrective actions in the event of nuisance impacts off-site.</p> <p>A risk rating of Medium has been determined.</p>	<p>The risk events are acceptable subject to the following regulatory controls:</p> <p>Works approval controls</p> <p><u>Infrastructure/equipment requirements:</u></p> <ul style="list-style-type: none"> ▪ Mobile crushing/screening plant to be fitted with dust collection system and/or sprays as specified. ▪ Provision of foam dust suppression unit, water truck and mist sprayer as specified. <p>Licence controls</p> <p><u>Operational requirements:</u></p> <ul style="list-style-type: none"> ▪ That no visible dust generated from Category 12 activities crosses the boundary of the premises. ▪ Recording of any complaints received due to emissions from the premises and actions taken to investigate/respond to the complaint.
		<p>Receptor (2): Mt Regal Quarry operations staff</p> <p>Pathway: Dust emissions from Category 12 activities could migrate off site to the Mt Regal Quarry operation.</p> <p>Impact: Adverse health effects</p>	<ul style="list-style-type: none"> ▪ Execution of dust minimisation strategy if impact on surrounding land users is likely. Options include – <ul style="list-style-type: none"> - Spraying of feed rock and product stockpiles; - Use of sprays and dust suppression foam on mobile crusher/screen; - Watering of unsealed lay down areas and roads. ▪ Non-potable water supply contract with Water Corporation for the supply of 50,000 kL/annum of water from the Water Corporation main Karratha water pipeline. Standpipe located within 7km of Maitland Quarry. Contract currently valid to 2028. ▪ Complaint response process. ▪ Shut down of plant if wind conditions are generating negative impacts off-site. 	Moderate	Unlikely	Medium	<p>Dust emissions from Category 12 activities could potentially migrate in a north-easterly direction to Mt Regal Quarry. It is considered such an event may cause low level adverse health effects to operational staff at Mt Regal Quarry.</p> <p>The likelihood of this event is reduced due to the separation distance from the premises boundary to Mt Regal Quarry tenure (approx. 900m), and measures to manage dust emissions at the premises.</p> <p>A risk rating of Medium has therefore been determined.</p>	

	Sediments from crushing / screening and stockpile areas	<p>Receptor: Ephemeral creeks within the premises and off-site</p> <p>Pathway: Overland flow following high rainfall and runoff events</p> <p>Impact: Potential increase in sediment loads within ephemeral creeks.</p>	N/A	Minor	Rare	Low	<p>Intense high rainfall and runoff events can occur in the Karratha region, typically during the cyclone season. Such events could present a pathway for sediments to be discharged from the premises to ephemeral creeks within and downstream of the premises, potentially increasing sediment loads within the creeks.</p> <p>Due to the infrequent occurrence of high rainfall and runoff events in the Karratha region, sediment discharges and associated impacts are expected to be rare events.</p> <p>A risk rating of Low has been determined.</p>	The risk event is considered to be acceptable and not subject to regulatory controls.
	Fuel and oil spills from heavy vehicles and mobile plant	<p>Receptors: Soils at the premises</p> <p>Pathways: Direct discharge to soil</p> <p>Impacts: Soil contamination</p>	<ul style="list-style-type: none"> Provision of drip trays and spill kits to contain/manage spills, should they occur outside of refueling and vehicle maintenance pads. 	Slight	Possible	Low	<p>Fuel and oil spills associated with crushing and screening operations are expected to be minor irregular events. Impacts from such spills are expected to be localised and restricted to soils within the premises.</p> <p>A Low risk rating has therefore been determined.</p>	<p>The risk event is considered to be acceptable.</p> <p>The general provisions of the EP Act and Environmental Protection (Unauthorised Discharges) Regulations 2004 apply.</p>

*Consequence ratings, likelihood ratings and risk descriptions are detailed in the Department's Guidance Statement: Risk Assessments (February 2017)

6. Applicant comments

The Applicant was provided with a draft Works Approval and draft Decision Report on 1 November 2019 for comment. The Applicant submitted coordinates for the premises boundary to be incorporated in the Works Approval. As the submitted coordinates related to the broader tenement boundary (M47/1496) these have been corrected in the Works Approval in line with the assessed premises boundary.

7. Conclusion

This assessment of the risks of activities on the Premises has been undertaken with due consideration of a number of factors, including the documents and policies specified in this Decision Report.

Based on this assessment, it has been determined that the Issued Works Approval will be granted subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

ALANA KIDD

MANAGER, RESOURCE INDUSTRIES

Regulatory Services

Delegated Officer under section 20 of the *Environmental Protection Act 1986*

Appendix 1: Key documents

Document title	Availability
Application for works approval including: <ul style="list-style-type: none">- Application form, dated 20 March 2019- Supplementary report, Version 1.0, dated November 2018	DWER records – A1774356, A1778943
Maitland Quarry Dust Management Plan, Rev 0, dated September 2019	DWER records – DWERDT200107
Submission from City of Karratha, dated 29 July 2019	DWER records – DWERDT183573
Submission from Main Roads WA, dated 23 August 2019	DWER records – DWERDT192257