



# Licence

## *Environmental Protection Act 1986, Part V*

**Licensee:** P.M.R. Quarries Pty Ltd

**Licence:** L8840/2014/1

**Registered office:** 401 Spearwood Avenue  
BIBRA LAKE WA 6163

**ACN:** 008 866 448

**Premises address:** Wilga Granite Quarry  
Great Northern Highway  
Port Hedland WA  
Being part Tenement M45/1249 as depicted in Schedule 1

**Issue date:** Thursday, 18 December 2014

**Commencement date:** Monday, 22 December 2014

**Expiry date:** Sunday, 21 December 2031

**Prescribed premises category**

Schedule 1 of the *Environmental Protection Regulations 1987*

| Category number | Category description  | Category production or design capacity | Approved premises production or design capacity |
|-----------------|---|--|---|
| 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         | 1,000,000 tonnes per annual period              |

**Conditions**

This Licence is subject to the conditions set out in the attached pages.

Date signed: 19 January 2017

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**Alana Kidd**

Manager Licencing – Resource Industries  
Officer delegated under section 20  
of the *Environmental Protection Act 1986*



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## Introduction

This Introduction is not part of the Licence conditions.

### DER's industry licensing role

The Department of Environment Regulation (DER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

### Licence requirements

This Licence is issued under Part V of the Act. Conditions contained within the Licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the Licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link:

<http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- *Environmental Protection (Unauthorised Discharges) Regulations 2004* – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- *Environmental Protection (Controlled Waste) Regulations 2004* - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- *Environmental Protection (Noise) Regulations 1997* – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You must comply with your Licence. Non-compliance with your Licence is an offence and strict penalties exist for those who do not comply.



Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

**Licence fees**

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

**Ministerial conditions**

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

**Premises description and Licence summary**

The Wilga Granite Quarry (the Quarry) is located on tenement M45/1249 approximately 25 km east of Port Hedland in the Tappa Tappa region of Western Australia (WA). The Quarry contains a resource of granite rock, which is extracted using standard drill and blasting techniques and processed onsite through a mobile crushing and screening plant. Processed rock is then stockpiled onsite pending transport offsite for use as construction materials like road base, ballast, armour rock for seawall development and concrete aggregates.

The Quarry was developed by Pilbara Sands Holdings Pty Ltd (Pilbara Sands) who began operations in July 2014 for a maximum throughput of 50,000 tonnes per annum (tpa) (termed *Phase 1*). In August 2014 Pilbara Sands sought approval from the DER for *Phase 2* of the Quarry to increase extraction to 1,000,000 tpa to fulfil supply demands. The proposed extraction exceeded the 50,000 tpa threshold prescribed under Schedule 1, Category 12, of the *Environmental Protection Regulations 1987*. DER subsequently issued Works Approval W5735/2014/1 to authorise Phase 2 of the works, and following compliance with the Works Approval conditions, the operating Licence (L8840/2014/1) was issued.

In July 2015 David Hugh Macpherson (tenement holder for M45/1219) sold the tenements known as the Wilga Granite Quarry to Swan Bay Holdings Pty Ltd and Stirling Bay Holdings Pty Ltd in partnership as P.M.R. Quarries Pty Ltd – trading as WA Limestone Company. The tenement transfers have since been processed by the Office of State Revenue and the Department of Mines and Petroleum. As a result of this sale, the Quarry operator is no longer Pilbara Sands, and is now operated by the new tenement holders trading as WA Limestone Company.

**January 2017**

An application to amend the tenement number on licence L8840/2014/1 was received by DER on 15 December 2016.

The licences and works approvals issued for the Premises are:

| <b>Instrument log</b> |               |   |
|-----------------------|---------------|---|
| <b>Instrument</b>     | <b>Issued</b> | <b>Description</b>  |
| W/5735/2014/1         | 20/10/2014    | Works Approval application  |
| L8840/2014/1          | 20/11/2014    | New Licence application   |
| L8840/2014/1          | 4/02/2016     | Licence transfer and amendment to current format                      |
| L8840/2014/1          | 19/01/2017    | Licence amendment to update tenement number from M45/1219 to M45/1249 |



**Severance**

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

**END OF INTRODUCTION**



## Licence conditions

### 1 General

#### 1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

**'Act'** means the *Environmental Protection Act 1986*;

**'annual period'** means a 12 month period commencing from 1 July until 30 June in the following year;

**'Annual Audit Compliance Report'** means a report in a format approved by the CEO as presented by the Licensee or as specified by the CEO from time to time and published on the Department's website;

**'CEO'** means Chief Executive Officer of the Department of Environment Regulation;

**'CEO'** for the purpose of correspondence means;

Chief Executive Officer  
Department Division 3 Part V *Environmental Protection Act 1986*  
Locked Bag 33 Cloister Square  
PERTH WA 6850  
Email: [info@der.wa.gov.au](mailto:info@der.wa.gov.au);

**'Department'** means the department established under s.35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Division 3 Part V of the *Environmental Protection Act 1986*;

**'Licence'** means this Licence numbered L8840/2014/1 and issued under the Act;

**'Licensee'** means the person or organisation named as Licensee on page 1 of the Licence;

**'Premises'** means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

**'Schedule 1'** means Schedule 1 of this Licence unless otherwise stated; and

**'Schedule 2'** means Schedule 2 of this Licence unless otherwise stated.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.



**1.2 General conditions**

- 1.2.1 The Licensee shall install and maintain mechanisms to ensure that stormwater from the following areas is diverted to facilities for treatment and disposal or reuse:
- (a) Washdown bays;
  - (b) Refuelling areas; and
  - (c) Mechanical workshops.

**1.3 Premises operation**

- 1.3.1 The Licensee shall carry out the Authorised Activities on the Premises in accordance with the requirements set out in Table 1.3.1.

| <b>Table 1.3.1: Authorised Activities</b> |   |  |
|---|---|--|
| <b>Authorised activity</b>                | <b>Process</b>  | <b>Process limits</b>  |
| 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. | Processing of material at the Premises shall not exceed 1,000,000 tonnes of raw material per annual period |

**2 Information**

**2.1 Records**

- 2.1.1 All information and records required by the Licence shall:
- (a) be legible;
  - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
  - (c) except for records listed in 2.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
  - (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
    - (i) off-site environmental effects; or
    - (ii) matters which affect the condition of the land or waters.

- 2.1.2 The Licensee must submit to the CEO within 90 days after the end of the annual period, an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions in this Licence for the Annual Period.

- 2.1.3 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

**2.2 Reporting**

- 2.2.1 The Licensee shall submit to the CEO an Annual Environmental Report by the 30 September in each year. The report shall contain the information listed in Table 2.2.1 in the format or form specified in that table.



| <b>Table 2.2.1: Annual Environmental Report</b> |   |                                       |
|---|---|---------------------------------------|
| <b>Condition or table (if relevant)</b>         | <b>Parameter</b>  | <b>Format or form</b>                 |
| -   | Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken | None specified                        |
| Table 1.3.1                                     | Actual throughput for the annual period for category 12   |                                       |
| 2.1.2   | Compliance  | Annual Audit Compliance Report (AACR) |
| 2.1.3   | Complaints summary.   | None specified                        |

### 2.3 Notification

2.3.1 The Licensee shall ensure that the parameters listed in Table 2.3.1 are notified to the CEO in accordance with the notification requirements of the table.

| <b>Table 2.3.1: Notification requirements</b> |  |   |                                   |
|---|--|---|-----------------------------------|
| <b>Condition or table (if relevant)</b>       | <b>Parameter</b>                             | <b>Notification requirement<sup>1</sup></b>   | <b>Format or form<sup>2</sup></b> |
| Table 1.3.1                                   | Breach of any limit specified in the Licence | Part A: As soon as practicable but no later than 5pm of the next usual working day.<br><br>Part B: As soon as practicable | N1                                |

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

Note 2: Forms are in Schedule 2

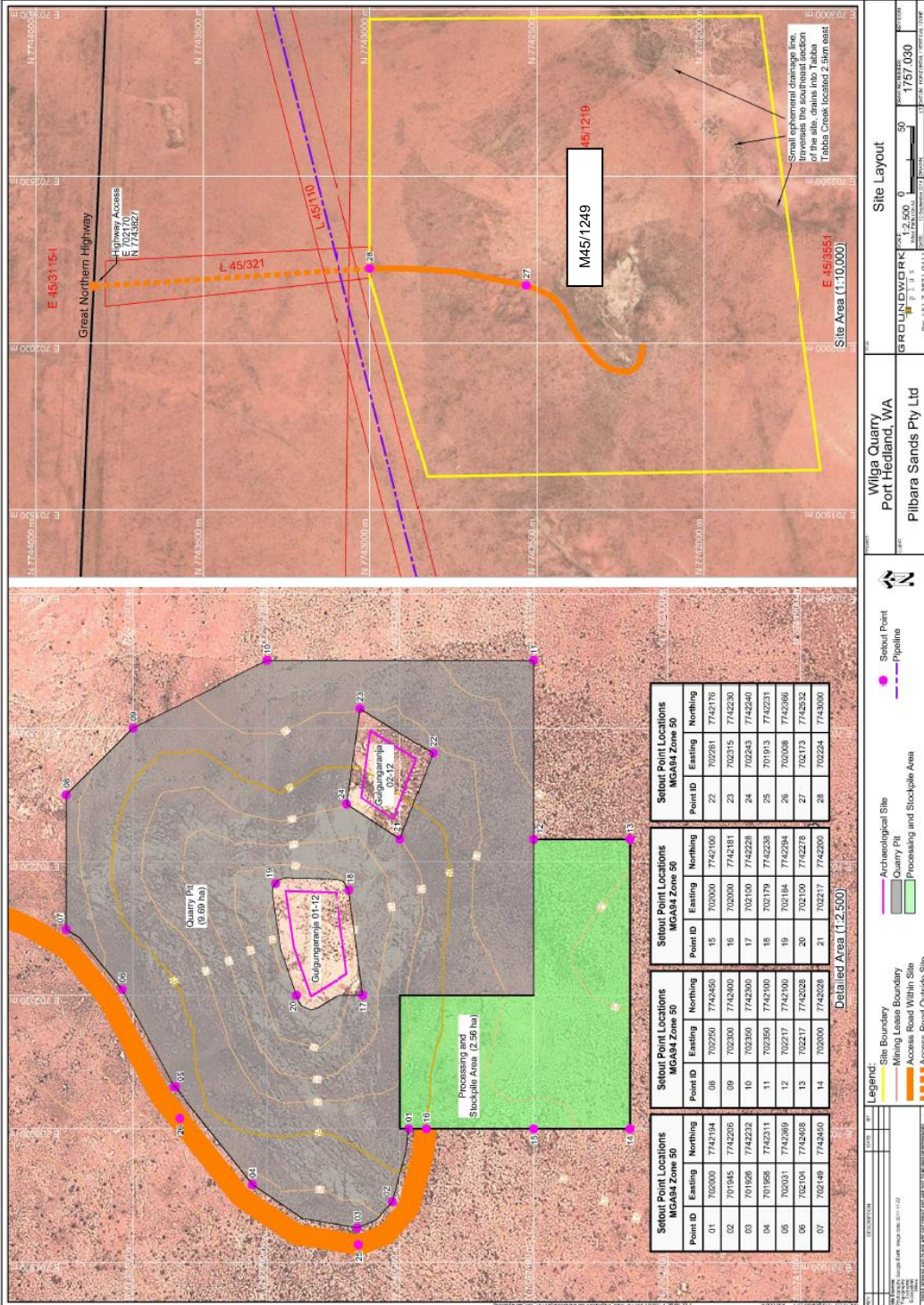




# Schedule 1: Maps

## Premises maps

The Premises is shown in the map below. The yellow line depicts the Premises boundary part of Mining Tenement M45/1249. The area shaded dark grey shows the extent of the Quarry Pit and the green-shaded area the Processing and Stockpile area.







## Schedule 2: Reporting & notification forms

Licence: **L8840/2014/1** Licensee: **P.M.R. Quarries Pty Ltd**  
 Form: **N1** Date of breach:

### Notification of detection of the breach of a limit.

These pages outline the information that the operator must provide.  
 Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

### Part A

|                                |  |
|--------------------------------|--|
| Licence Number                 |  |
| Name of operator               |  |
| Location of Premises           |  |
| Time and date of the detection |  |

| Notification requirements for the breach of a limit           |  |
|---|--|
| Emission point reference/ source                              |  |
| Parameter(s)  |  |
| Limit   |  |
| Measured value  |  |
| Date and time of monitoring                                   |  |
| Measures taken, or intended to be taken, to stop the emission |  |

|   |  |
|---|--|
| Name  |  |
| Post  |  |
| Signature on behalf of <b>P.M.R. Quarries Pty Ltd</b> |  |
| Date  |  |



# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Licensee:** P.M.R. Quarries Pty Ltd

**Licence:** L8840/2014/1

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**Registered office:** 401 Spearwood Avenue  
BIBRA LAKE WA 6163

**ACN:** 008 866 448

**Premises address:** Wilga Granite Quarry  
Great Northern Highway  
PORT HEDLAND WA  
Being part Tenement M45/1249

**Issue date:** Thursday, 18 December 2014

**Commencement date:** Monday, 22 December 2014

**Expiry date:** Sunday, 21 December 2031

### Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER) has decided to issue an amended licence. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by:

Rachel Vukmirovic  
Licensing Officer

Decision Document authorised by:

Alana Kidd  
Manager Licencing – Resource Industries



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## 1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.



## 2 Administrative summary

| Administrative details   |   |  |
|--|---|--|
| Application type   | Works Approval <input type="checkbox"/>   |  |
|  | New Licence <input type="checkbox"/>  |  |
|  | Licence amendment <input checked="" type="checkbox"/>   |  |
|  | Works Approval amendment <input type="checkbox"/>   |  |
| Activities that cause the premises to become prescribed premises   | <b>Category number(s)</b>   | <b>Assessed design capacity</b>  |
|  | 12  | 1,000,000 tonnes per annual period   |
| Application verified   | Date: N/A   |  |
| Application fee paid   | Date: N/A   |  |
| Works Approval has been complied with  | Yes <input type="checkbox"/>  | No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>  |
| Compliance Certificate received  | Yes <input type="checkbox"/>  | No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>  |
| Commercial-in-confidence claim   | Yes <input type="checkbox"/>  | No <input checked="" type="checkbox"/>   |
| Commercial-in-confidence claim outcome   |   |  |
| Is the proposal a Major Resource Project?  | Yes <input type="checkbox"/>  | No <input checked="" type="checkbox"/>   |
| Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?          | Yes <input checked="" type="checkbox"/>   | No <input type="checkbox"/>  |
|  |   | Referral decision No: N/A<br>Managed under Part V <input checked="" type="checkbox"/><br>Assessed under Part IV <input type="checkbox"/> |
| Is the proposal subject to Ministerial Conditions?   | Yes <input type="checkbox"/>  | No <input checked="" type="checkbox"/>   |
|  |   | Ministerial statement No:<br>EPA Report No:  |
| Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i> )? | Yes <input type="checkbox"/>  | No <input checked="" type="checkbox"/>   |
|  | Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |  |
| Is the Premises within an Environmental Protection Policy (EPP) Area   | Yes <input type="checkbox"/>  | No <input checked="" type="checkbox"/>   |
| Is the Premises subject to any EPP requirements?   | Yes <input type="checkbox"/>  | No <input checked="" type="checkbox"/>   |



### 3 Executive summary of proposal and assessment

The Wilga Granite Quarry (the Quarry) is located on tenement M45/1219 approximately 25 km east of Port Hedland in the Tabba Tabba region of Western Australia (WA). The Quarry contains a resource of granite rock which is extracted using standard drill and blasting techniques and processed onsite through a mobile crushing and screening plant. Processed rock is then stockpiled onsite pending transport offsite for use as construction materials like road base, ballast, armour rock for seawall development and concrete aggregates.

The Quarry was developed by Pilbara Sands Holdings Pty Ltd (Pilbara Sands) who began operations in July 2014 for a maximum throughput of 50,000 tonnes per annum (tpa) (termed *Phase 1*). In August 2014 Pilbara Sands sought approval from the DER for *Phase 2* of the project to increase extraction to 1,000,000 tpa to fulfil supply demands. The proposed extraction exceeded the 50,000 tpa threshold prescribed under Schedule 1, Category 12, of the *Environmental Protection Regulations 1987*. The DER subsequently issued Works Approval W5735/2014/1 to authorise *Phase 2* of the works, and following compliance with the works approval conditions, operating licence L8840/2014/1 was issued.

In July 2015 David Hugh Macpherson (tenement holder for M45/1219) sold the tenements known as the Wilga Granite Quarry to Swan Bay Holdings Pty Ltd and Stirling Bay Holdings Pty Ltd in partnership as P.M.R. Quarries Pty Ltd – trading as WA Limestone Company. The tenement transfers were processed by the Office of State Revenue and the Department of Mines and Petroleum with the Licence then transferred to P.M.R Quarries Pty Ltd (WA Limestone Company) from Pilbara Sands on 4 February 2016.

#### January 2017

On 15 December, an application to amend licence L8840/2014/1 was received by DER. The amendment application pertains to a change in the tenement number. Tenement M45/1219 is now inactive and the area Wilga Granite Quarry operates within now falls under tenement M45/1249. This Licence amendment is to update the tenement number.

During this amendment, DER has implemented changes to ensure that conditions are valid, enforceable and/or risk based. Where conditions have been added or amended in the existing Licence these have been justified in Section 4. Risk assessments conducted during the amendment of 4 February 2016 for noise and dust remains within the assessment. Due to the deletion of conditions, some conditions have been renumbered.





## 4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

| <b>DECISION TABLE</b>                   |  |  |   |
|---|--|--|---|
| <b>Works Approval / Licence section</b> | <b>Condition number<br/>L= Licence</b> | <b>Justification (including risk description &amp; decision methodology where relevant)</b>  | <b>Reference documents</b>  |
| <b>Premises address</b>                 | N/A                                    | <p>The tenement number within the Premises address has been amended from M45/1219 to M45/1249. Tenement M45/1219 is now inactive and the Wilga Granite Quarry now falls under tenement M45/1249.</p> <p>Stirling Bay Holdings Pty Ltd and Swan Bay Holding Pty Ltd are the current holders of mining tenement M45/1249 and have submitted a letter of authority, authorising the operation of the quarry by P.M.R Quarries Pty Ltd on tenement M45/1249 (trading as WA Limestone Company).</p>   | N/A   |
| <b>Interpretation</b>                   | N/A                                    | <p>In accordance with recent administrative changes implemented by the Department, the definition of 'annual period' and the definition of 'CEO' have been updated. Definitions for 'Annual Audit Compliance Report' and 'Department' have been included in the Licence.</p> <p>Previous condition 1.1.5 specified:</p> <p><i>1.1.5 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:</i></p> <ul style="list-style-type: none"> <li><i>(a) pollution;</i></li> <li><i>(b) unreasonable emission;</i></li> <li><i>(c) discharge of waste in circumstances likely to cause pollution; or</i></li> <li><i>(d) being contrary to any written law.</i></li> </ul> <p>Condition 1.1.5 has been removed in accordance with Departmental reform. This provision is not a condition. It is an explanatory statement only.</p> | <p>N/A</p> <p>DER public website at:<br/><a href="http://www.der.wa.gov.au">www.der.wa.gov.au</a></p> |



| DECISION TABLE                   |                                |  |  |
|----------------------------------|--------------------------------|--|--|
| Works Approval / Licence section | Condition number<br>L= Licence | Justification (including risk description & decision methodology where relevant)   | Reference documents  |
| General conditions               | N/A                            | <p>Guidance Statement <i>Setting Conditions</i> (DER, October 2015) states that conditions imposed on Licences must be valid, enforceable and/or risk-based.</p> <p>Previous condition 1.2.1 specified:</p> <p>1.2.1 <i>The Licensee shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.</i></p> <p>Condition 1.2.1 has been removed as the condition is not enforceable as it is not sufficiently clear or certain. The pollution control and monitoring equipment is not specified, nor is the maintenance schedule specified. The general provisions of the <i>Environmental Protection Act 1986</i> apply.</p> <p>Previous condition 1.2.2 specified:</p> <p>1.2.2 <i>The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.</i></p> <p>This condition is not valid as it inconsistently regulates activities below prescribed category thresholds. DER has assessed the risk associated with spills of environmentally hazardous materials to determine if specific regulatory controls are required on the Licence.</p> <p><u>Emission Description</u></p> <p><i>Emission:</i> Spills of environmentally hazardous materials, including hydrocarbons outside of engineered containment system.</p> <p><i>Impact:</i> Soil contamination, potential impacts to groundwater and surface water quality, ecosystem disruption.</p> | <p>Guidance Statement: <i>Setting conditions</i> (DER, October 2015)</p> <p>General Provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i></p> <p>DER public website at: <a href="http://www.der.wa.gov.au">www.der.wa.gov.au</a></p> <p>Wilga Granite Quarry Works Approval Supporting Information Operations Licence (August 2014)</p> |



| DECISION TABLE                   |                                |  |                     |
|----------------------------------|--------------------------------|--|---------------------|
| Works Approval / Licence section | Condition number<br>L= Licence | Justification (including risk description & decision methodology where relevant)   | Reference documents |
|                                  |                                | <p><i>Controls:</i> All storage tanks are bunded with sufficient contingency storage in the event of a leak. No chemicals or hydrocarbons are stored within 100 metres of drainage lines. There is only one minor non-perennial watercourse located in the south-eastern corner of the Premises. The Premises is not located within a Public Drinking Water Source Area. Depth to groundwater is unknown however a groundwater bore located 800m to the east of the Premises boundary indicates depth to groundwater to be 18 metres below ground level. The original works approval and operating licence supporting documentation details that spills will be cleaned up as soon as practicable.</p> <p><u>Risk Assessment</u></p> <p><i>Consequence:</i> The Delegated Officer has determined that the impact from spills and leaks will be <b>insignificant</b> due to a lack of environmental receptors within the Premises boundary.</p> <p><i>Likelihood:</i> The Delegated Officer has determined that due to the operator's controls, the likelihood of the impact is <b>unlikely</b>.</p> <p><i>Risk Rating:</i> The Delegated Officer has determined that the overall rating of the risk from spills and leaks to be <b>low</b>.</p> <p><u>Regulatory Controls</u></p> <p>No regulatory controls are required as the risk rating is <b>low</b>. The general provisions of the <i>Environmental Protection Act 1986</i> with respect to causing pollution and environmental harm apply, as does subsidiary legislation including the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p> |                     |
| Premises operation               | L1.3.1                         | Condition L1.3.1 remains on the Licence to specify Authorised Activities on the Premises (i.e. Category 12 - Screening etc. of material) and the associated process limit (i.e. 1,000,000 tpa).  | N/A                 |



| <b>DECISION TABLE</b>  |  |  |  |
|--|--|--|--|
| <b>Works Approval / Licence section</b>  | <b>Condition number<br/>L= Licence</b> | <b>Justification (including risk description &amp; decision methodology where relevant)</b>  | <b>Reference documents</b>   |
| <b>Emissions general</b>   | N/A                                    | There are no specified conditions relating to general emissions in this section.   | N/A  |
| <b>Point source emissions to air, surface water and groundwater including monitoring</b> | N/A                                    | Point source emissions to air, surface water and groundwater are not expected during operation therefore conditions are not required in the Licence.   | N/A  |
| <b>Emissions to land including monitoring</b>  | N/A                                    | Emissions to land are not expected during operation therefore conditions are not required in the Licence.  | N/A  |
| <b>Fugitive emissions</b>  | N/A                                    | A risk assessment of fugitive dust emissions was conducted during the licence amendment of 4 February 2016. DER's assessment and decision making are detailed in Appendix A. The risk remains unchanged and there has been no complaints regarding the site. | General Provisions of the <i>Environmental Protection Act 1986</i><br><br><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i><br><br>DER public website at:<br><a href="http://www.der.wa.gov.au">www.der.wa.gov.au</a> |
| <b>Odour</b>   | N/A                                    | Odour is not expected during operation therefore conditions relating to odour are not required in the Licence.   | N/A  |
| <b>Noise</b>   | N/A                                    | A risk assessment of noise was conducted during the licence amendment of 4 February 2016. DER's assessment and decision making are detailed in Appendix B. The risk remains unchanged and there has been no complaints regarding the site.                   | General Provisions of the <i>Environmental Protection Act 1986</i><br><br><i>Environmental Protection (Noise) Regulations 1997</i>   |



| DECISION TABLE                   |                                |   |  |
|----------------------------------|--------------------------------|---|--|
| Works Approval / Licence section | Condition number<br>L= Licence | Justification (including risk description & decision methodology where relevant)  | Reference documents  |
| Monitoring general               | N/A                            | General monitoring conditions are not required in the Licence.  | N/A  |
| Monitoring of inputs and outputs | N/A                            | Monitoring of inputs and outputs is not a requirement of the Licence.   | N/A  |
| Process monitoring               | N/A                            | Process monitoring is not a requirement of the Licence.   | N/A  |
| Ambient quality monitoring       | N/A                            | Ambient quality monitoring is not a requirement of the Licence.   | N/A  |
| Meteorological monitoring        | N/A                            | Meteorological monitoring is not a requirement of the Licence.  | N/A  |
| Improvements                     | N/A                            | No improvement conditions are required in the Licence.  | N/A  |
| Information                      | 2.1.2-2.1.3                    | <p>Former condition 2.1.2 specified:</p> <p><i>2.1.2 The Licensee shall ensure that:</i></p> <p>(a) <i>any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and</i></p> <p>(b) <i>any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.</i></p> <p>Guidance Statement <i>Setting Conditions</i> (DER, October 2015) states that conditions imposed on Licences must be valid, enforceable and/or risk-based. Former condition 2.1.2 is not enforceable as the requirements for compliance are not clear. It is not a defence to offences under the EP Act for the Licensee or its agents to claim they were unaware of licence conditions.</p> <p>Condition 2.1.2 (formerly numbered 2.1.3) relating to the submission of an Annual Audit Compliance Report has been updated to reflect recent</p> | <p>General Provisions of the <i>Environmental Protection Act 1986</i></p> <p>DER public website at: <a href="http://www.der.wa.gov.au">www.der.wa.gov.au</a></p> <p>Guidance Statement <i>Setting Conditions</i> (DER, October 2015)</p> |





| <b>DECISION TABLE</b>                   |  |  |                            |
|---|--|--|----------------------------|
| <b>Works Approval / Licence section</b> | <b>Condition number<br/>L= Licence</b> | <b>Justification (including risk description &amp; decision methodology where relevant)</b>  | <b>Reference documents</b> |
|   |  | administrative changes implemented within the Department. Table 2.2.1 has been also updated to reflect the removal of the compliance report template from the Licence. The Licensee will be required to access the form via the DER website. |                            |
| <b>Schedule 1</b>                       | N/A                                    | The reference to the tenement number on the Premises map in Schedule 1 has also been updated.  | N/A                        |
| <b>Schedule 2</b>                       | N/A                                    | The template for the Annual Audit Compliance Report has been removed. Licensees are now directed to the DER webpage for the latest AACR template.  | N/A                        |



## 5 Advertisement and consultation table

| Date       | Event                                     | Comments received/Notes  | How comments were taken into consideration |
|------------|---|--|--|
| 11/01/2017 | Proponent sent a copy of draft instrument | 21 day consultation waiver form received<br>18/01/2017<br><br>Nil comments | N/A  |



## 6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

**Table 1: Emissions Risk Matrix**

| Likelihood     | Consequence   |          |          |          |         |
|----------------|---------------|----------|----------|----------|---------|
|                | Insignificant | Minor    | Moderate | Major    | Severe  |
| Almost Certain | Moderate      | High     | High     | Extreme  | Extreme |
| Likely         | Moderate      | Moderate | High     | High     | Extreme |
| Possible       | Low           | Moderate | Moderate | High     | Extreme |
| Unlikely       | Low           | Moderate | Moderate | Moderate | High    |
| Rare           | Low           | Low      | Moderate | Moderate | High    |



## Appendix A

### Fugitive emissions

#### Emission Description

*Emission:* Dust emissions produced from excavation, screening and crushing activities.

*Impact:* Nuisance dust impacting on nearby residences and potentially sensitive vegetation due to dust smothering.

*Controls:* The Licensee has committed to the following measures to suppress dust:

- Dampening down of cleared areas, extraction working areas, haul roads, stockpiles and other hardstand areas by water spraying;
- Restricting vehicle and mobile machinery movements to designated routes and hardstand areas, including vehicle speeds;
- Temporarily revegetating topsoil stockpiles;
- Water sprays to be utilised on the crusher and screens, where appropriate;
- Limiting blasting, topsoil and overburden removals at any one time to that necessary while providing for effective production of aggregates/product;
- Covering all loads of material;
- Levelling of loads prior to truck exit;
- Installing a riffle bar/vibration grid; and
- Ensuring employees and contractors are aware of dust minimisation practices.

#### Risk Assessment

*Consequence:* Insignificant

*Likelihood:* Possible

*Risk Rating:* Low

#### Regulatory Controls

Given the Licensee's regulatory controls and the siting of the Premises (25 km east of Port Hedland) the risk of fugitive dust emissions was assessed as low during licence amendment dated 4 February 2016. Consequently, former fugitive dust conditions L2.6.1 and L2.6.2 were removed in the in accordance with Departmental reform as published on DER's website under "*Administrative changes implemented within the Department of Environment Regulation*" [www.der.wa.gov.au](http://www.der.wa.gov.au). Dust emissions can be sufficiently regulated under section 49 of the *Environmental Protection Act 1986*.

#### Residual Risk

*Consequence:* Insignificant

*Likelihood:* Possible

*Risk Rating:* Low



## Appendix B

### Noise

#### Emission Description

*Emission:* Noise emissions associated with operation of the Wilga Granite Quarry.

*Impact:* The Licensee has identified that there may be noise impacts to potentially sensitive fauna communities occurring in the region including the Northern Quoll. Limited impacts to human receptors are expected as the separation distance to the nearest noise-sensitive premises (Port Hedland town site) is approximately 25 km.

*Controls:* The Licensee has committed to a range of noise suppression methods and complying with the *Environmental Protection (Noise) Regulations 1997*. Controls include:

- Position the processing plant away from adjacent noise sensitive receptors as far as practicable;
- Positioning of stockpiles and ancillary equipment such as generators, and crushing and screening plant, so as to prevent undue noise amenity impacts on surrounding noise sensitive receptors;
- Positioning the crushing plant and associated noisy equipment to utilise the surrounding natural or man-made topography (i.e. quarry pit) as an acoustic barrier, where practicable;
- Enclosing fixed engines, generators, pumps and compressors, where practicable;
- Operating and maintaining modern, well maintained road worthy product delivery trucks fitted with high-efficiency mufflers;
- Shutting down equipment when not in use;
- Fitting broadband reversing alarms rather than audible sirens or beepers, on mobile equipment where practicable; and
- Avoiding unnecessary operation of plant or revving of mobile or stationary motors and engines.

It is also noted that the Premise complies with the buffer distance guidelines outlined in the Environmental Protection Authority *Guidance Statement No.3 – Separation Distances between Industrial and Sensitive Land Uses*.

#### Risk Assessment

*Consequence:* Insignificant

*Likelihood:* Rare

*Risk Rating:* Low

#### Regulatory Controls

Given the Licensee's regulatory controls, the risk of noise impacts was assessed as low during licence amendment dated 4 February 2016. Condition L2.8.1 was subsequently removed in accordance with Departmental reform as published on DER's website under "*Administrative changes implemented within the Department of Environment Regulation*" [www.der.wa.gov.au](http://www.der.wa.gov.au). Noise emissions from the Premises can be managed under the provisions of *Environmental Protection (Noise) Regulations 1997* and section 49 of the *Environmental Protection Act 1986*.

#### Residual Risk

*Consequence:* Insignificant

*Likelihood:* Rare

*Risk Rating:* Low