



Licence

Environmental Protection Act 1986, Part V

Licensee: Lunard Pty Ltd

Licence: L6501/1994/11

Registered office: C/- Flinders Accountants
Level 4, 1 Howard Street
PERTH WA 6000

ACN: 063 569 826

Premises address: Stoneridge Quarries WA – Postans Quarry
243 Postans Road
HOPE VALLEY WA 6167
Being Lots 569, 570, part of Lot 571 and Part of Lot 572 on Plan 3475,
within the coordinates (MGA Zone 50) E387855, N6438450; E387850,
N6438200; E387590, N6428020; and E387435, N6438020 as depicted
in Schedule 1

Issue date: Thursday, 29 November 2012

Commencement date: Thursday, 6 December 2012

Expiry date: Tuesday, 5 December 2017

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	100,000 tonnes or more per year
13	Crushing of building material: premises on which waste building or demolition material (for example, bricks, stones or concrete) is crushed or cleaned.	1,000 tonnes per year	100,000 tonnes or more per year (combined with Cat 61A)
61A	Solid waste facility: premises (other than premises within category 67A) on which solid waste produced on other premises is stored, reprocessed, treated, or discharged onto land.	1,000 tonnes per year	200,000 tonnes or more per year (combined with Cat 13)



Conditions

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

Date signed: 26 May 2016

.....

Caron Goodbourn

A/Manager Licensing (Waste 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

Lunard Pty Ltd, trading as Stoneridge Quarries WA (Applicant), is the current owner of Lots 569, 570, 571 and Lot 572 on Plan 3475, Postans Road, Hope Valley (Premises). The Applicant has been the Occupier of the Premises since August 2010. The Applicant has been granted Part V *Environmental Protection Act 1986* licence L6501/1994/11 for the following prescribed activities at the Premises:

- Limestone quarries: Category 12 screening etc of material, with an approved capacity of 100,000 tonnes per annual period.
- Construction and demolition waste processing: Category 13 crushing of building material, with an approved capacity of 100,000 tonnes per annual period.
- Waste storage and reprocessing: Category 61A solid waste facility, with an approved capacity of 200,000 tonnes per annual period which includes the acceptance of construction and demolition waste, of which 100,000 tonnes can be processed under Category 13 per annual period.

The amendment of this Licence is for:

- The operation of works constructed under W5410/2013/1.
- Approval to operate category 13 and 61A prescribed activities to an increased capacity of 100,000 and 200,000 tonnes per annual period respectively.
- Approval to accept all Inert Waste Type 1 materials that may be crushed and used, with specified controls, for the production of reconstituted blocks.
- Addressing the risk posed by asbestos potentially being present in Inert Waste Type 1.
- Additional regulatory controls identified as appropriate through the risk assessment process.
- Administrative amendments.

The licences and works approvals issued for the Premises:

Instrument log		
Instrument	Issued	Description
W1289/1994/1	09/10/1995	New works approval (Rinker Australia)
W2606/1998/1	11/11/1998	New works approval (Rinker Australia)
L6501/1994/4	29/11/2000	Licence re-issue (Rinker Australia)
L6501/1994/5	17/12/2001	Licence re-issue (Rinker Australia)
L6501/1994/6	24/12/2002	Licence re-issue (Rinker Australia)
L6501/1994/8	08/12/2003	Licence re-issue (Rinker Australia)
L6501/1994/9	16/11/2004	Licence re-issue (Rinker Australia)
L6501/1994/10	29/11/2007	Licence re-issue (Rinker Australia)
L6501/1994/10	29/11/2007	Transferred to Lunard Pty Ltd (August 2010)
L6501/1994/11	29/11/2012	Licence re-issue (Lunard Pty Ltd)
W5410/2013/1	24/04/2013	Works approval waste acceptance pad (Lunard Pty Ltd)
L6501/1994/11	15/08/2013	Licence amendment (Lunard Pty Ltd)
L6501/1994/11	26/05/2016	Licence amendment (Lunard Pty Ltd)



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:

'acceptance criteria' has the meaning defined in Landfill Definitions;

'ACM' has the meaning defined in the document Department of Health 2009, *Guidelines for Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia*, Government of Western Australia;

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

'annual period' means the inclusive period from 1 July until 30 June in the following year;

'asbestos' means the asbestiform variety of mineral silicates belonging to the serpentine or amphibole groups of rock-forming minerals and includes actinolite, amosite, anthophyllite, chrysotile, crocidolite, tremolite and any mixture containing 2 or more of those;

'asbestos fibres' has the meaning defined in the document Department of Health 2009, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*, Government of Western Australia;

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

'CEO' for the purpose of correspondence means;
Department Administering the *Environmental Protection Act 1986*
Locked Bag 33
CLOISTERS SQUARE WA 6850
Telephone: (08) 9333 7510
Facsimile: (08) 9333 7550;
Email: info@der.wa.gov.au

'concrete batching waste' means concrete waste from concrete batch plants and cement agitators;

'construction and demolition waste' has the meaning defined in Landfill Definitions;

'crushing area' means the area defined in the Premises Map in Schedule 1 and labeled "crusher";

'DER Asbestos Guidelines' means the document titled *Guidelines for managing asbestos at construction and demolition waste recycling facilities* published by the Department of Environment and Conservation, as amended from time to time;

'inert waste type 1' has the meaning defined in Landfill Definitions;

'Landfill Definitions' means the document titled *Landfill Waste Classification and Waste Definitions 1996* published by the Chief Executive Officer of the Department of Environment as amended from time to time.

'Licence' means this Licence numbered L6501/1994/11 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;

'Schedule 2' means Schedule 2 of this Licence unless otherwise stated;

'solid waste' has the meaning defined in Landfill Definitions;

'Special Waste Type 1' has the meaning defined in Landfill Definitions;

'usual working day' means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia; and

'waste acceptance pad' means the area defined in the Premises Map in Schedule 1 and labeled "waste acceptance pad";

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

1.2 Premises operation

1.2.1 The Licensee must ensure that the limits specified in Table 1.2.1 are not exceeded.

Table 1.2.1 Production or design capacity limits		
Category ¹	Category description ¹	Quantity limit
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.	100,000 tonnes per annual period
13	Crushing of building material: premises on which water building or demolition material (for example, bricks, stones or concrete) is crushed or cleaned.	100,000 tonnes per annual period

Note 1: *Environmental Protection Regulations 1987*, Schedule 1.

1.2.2 The Licensee must only accept waste on to the Premises if:

- (a) it is of a type listed in Table 1.2.2;
- (b) the quantity accepted is below any quantity limit listed in Table 1. 2.2; and
- (c) it meets any specification listed in Table 1.2.2;

Table 1.2.2: Waste acceptance		
Waste type	Quantity Limit	Specification
Inert Waste Type 1 Construction and demolition waste	200,000 tonnes per annual period accepted under category 61A	(i) All waste must be inspected for the presence of asbestos and ACM prior to acceptance. (ii) Special Waste Type 1 and waste containing visible asbestos or ACM must not be accepted at the Premises. (iii) Concrete batching waste must only be accepted onto the waste acceptance pad at the Premises.

1.2.3 The Licensee must ensure that where waste does not meet the waste acceptance criteria set out in condition 1.2.2 it is immediately removed from the Premises.



- 1.2.4 The Licensee must ensure that raw materials and wastes accepted are only subjected to the processes set out in Table 1.2.3 and in accordance with any process requirements listed in Table 1.2.3.

Table 1.2.3: Raw material and waste processing		
Raw material/waste type	Processes	Process requirements limits
All waste types Limestone	Receipt, handling, sorting, reprocessing, screening and storage	(a) Dust management infrastructure and equipment specifications must be operational in accordance with Condition 1.2.5 items c, d, e, f, g, h, i and j. (b) Special Waste Type 1 and waste containing asbestos or ACM must not be processed.
Construction and demolition waste	Screening and crushing	(c) Special Waste Type 1 and waste containing asbestos or ACM must not be crushed or screened. (d) Crushing must only occur within the crushing area. (e) Dust management infrastructure and equipment specifications must be operational in accordance with Condition 1.2.5 items a, c, d, e, f, g, h, i and j.
Concrete batching waste	Acceptance and storage	(f) Must not be removed from the waste acceptance pad until the concrete batching waste is a solid waste.

- 1.2.5 The Licensee must ensure that the infrastructure or equipment specified in Table 1.2.4 is installed and operated in accordance with the specifications in Table 1.2.4.

Table 1.2.4: Dust management infrastructure and equipment specifications	
Infrastructure and equipment	Specification
(a) Crushing plant	(i) Must cease operation when winds at the Premises are ≥ 25 knots in any direction. (ii) Operating water sprays must be fitted and maintained at the intake, discharge and head of the conveyor achieve a minimum discharge rate of 30 L per minute.
(b) Dump hoppers	(i) Operating water sprays must be fitted and maintained.
(c) Haul roads	(i) A maximum vehicle speed limit of 15 km/ hour must apply. (ii) Must have water regularly applied by the water truck.
(d) Reticulated water network	(i) Must be activated if PM_{10} dust levels exceed $400\mu g/m^3$ over any 15 minute period until such time as the dust levels are reduced to be below $400\mu g/m^3$ over any 15 minute period.
(e) Screening plants	(i) Operating water sprays must be fitted and maintained at the intake, discharge and head of the conveyor achieve a minimum discharge rate of 30 L per minute.
(f) Stackers	(i) Operating water sprays must be fitted and maintained.
(g) Stockpiles	(i) Must be regularly sprayed with water.
(h) Vehicles	(i) All vehicles leaving the Premises with crushed material must completely cover the crushed material with a tarpaulin. (ii) All trucks leaving the Premises must pass through the wheel wash.
(i) Water storage tanks	(i) A minimum water storage capacity of 55 kL must be maintained.
(j) Water truck	(i) A minimum capacity 30 kL water truck must be available to suppress dust at all times.



1.2.6 The Licensee must ensure that noise emissions at the Premises are managed in accordance with the specified parts of the management plan specified in Table 1.2.5.

Table 1.2.5: Noise management specifications		
Management plan	Parts	Date of document
Lunard Pty Ltd 2012, <i>Stoneridge Quarries WA Noise Management Plan SQ-PLA-002</i> , Hope Valley Western Australia	All	10 April 2012

1.2.7 The Licensee must ensure that the asbestos (parameter) content of any construction and demolition waste that is crushed at the Premises does not exceed the contamination limit specified in Table 1.2.6 as determined in accordance with the method specified in Table 1.2.6.

Table 1.2.6: Crushed construction and demolition waste contamination limit, sampling and testing		
Parameter	Contamination limit	Method
ACM, asbestos and asbestos fibres	0.001%w/w	In accordance with the DER Asbestos Guidelines.

2 Monitoring

2.1 Monitoring of inputs and outputs

2.1.1 The Licensee must undertake the monitoring in Table 2.1.1 according to the specifications in Table 2.2.1.

Table 2.1.1: Monitoring of inputs and outputs				
Input/ Output	Parameter	Units	Averaging period	Frequency
Waste Inputs	Inert Waste Type 1	Tonnes	Annual period	Each load arriving at Premises
	Concrete batching waste			
	Construction and demolition waste			
Waste Outputs	Waste type as defined in the Landfill Definitions			Each load leaving or rejected from the Premises

2.2 Process monitoring

2.2.1 The Licensee must undertake the monitoring in Table 2.2.1 according to the specifications in Table 2.2.1.

Table 2.2.1: Process monitoring				
Process description	Parameter	Units	Averaging period	Frequency
Screening of material	Limestone	Tonnes	Annual period	Continuous
Crushing of building material	Construction and demolition waste			



3 Improvements

3.1 Improvement program

3.1.1 The Licensee must complete the improvements in Table 3.1.1 by the date of completion in Table 3.1.1.

Improvement reference	Improvement	Date of completion
IR1	<p>The Licensee must prepare and submit to the CEO an Asbestos Management Plan for the Premises that is consistent with the DER Asbestos Guidelines and the Conditions of this Licence.</p> <p>The Asbestos Management Plan must include:</p> <ul style="list-style-type: none">(a) Identification of where asbestos may be present at the site;(b) Standard operational procedures for the pre-acceptance, acceptance and processing of waste and how any asbestos detected at the Premises will be managed;(c) A sampling and analysis program;(d) Identification of each person's roles and responsibilities under the Asbestos Management Plan; and(e) Monitoring procedures to be implemented at the Premises;(f) Procedures for detailing incidents or emergencies associated with asbestos; and(g) Details of compliance and performance audits undertaken and periodic reviews of the Asbestos Management Plan with feedback mechanisms and improvement.	31 July 2016

4 Information

4.1 Records

4.1.1 All information and records required by the Licence must:

- (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 4.1.1(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.

4.1.2 The Licensee must complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.

4.1.3 The Licensee must 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.



4.2 Reporting

4.2.1 The Licensee must submit to the CEO an Annual Environmental Report within 60 calendar days after the end of the annual period. The report shall contain the information listed in Table 4.2.1 in the format or form specified in that table.

Table 4.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or form
1.2.7	Summary of crushed construction and demolition waste contamination monitoring data over the annual period including copies of laboratory sample analysis data.	None specified
2.1.1	Summary of input and output monitoring data for each parameter over the annual period.	
2.2.1	Summary of process monitoring data for each parameter over the annual period.	
4.1.2	Compliance	Annual Audit Compliance Report (AACR)
4.1.3	Complaints summary	None specified

4.3 Notification

4.3.1 The Licensee must ensure that the parameters listed in Table 4.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 4.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
-	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. Part B: As soon as practicable	N1

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

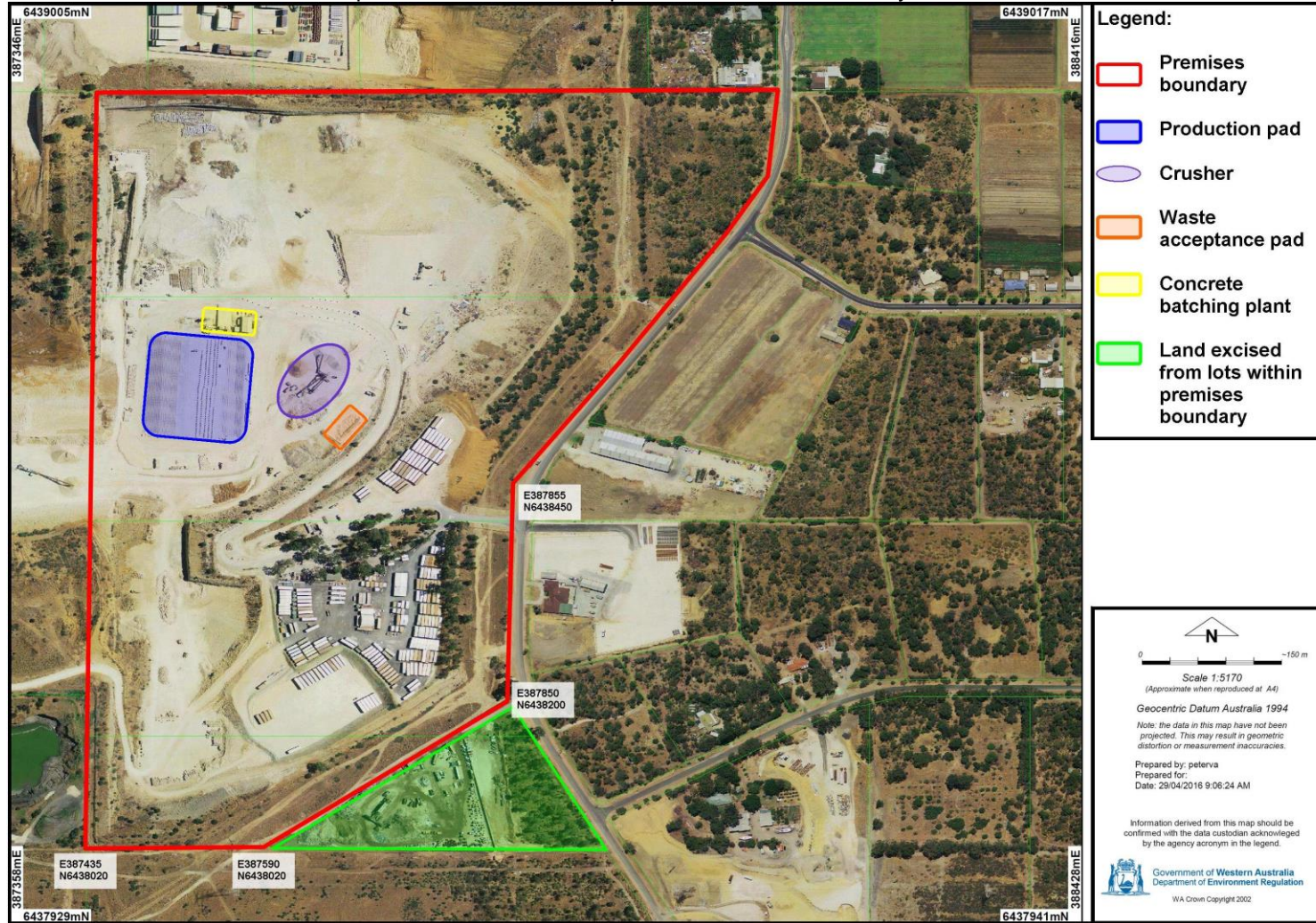
Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The red line depicts the Premises boundary.





Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

SECTION A LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

1. Were all conditions of the Licence complied with within the reporting period? (please tick the appropriate box)

Yes Please proceed to Section C

No Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this Annual Audit Compliance Report (AACR).

Initial:



SECTION B

DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

Please use a separate page for each Licence condition that was not complied with.

a) Licence condition not complied with:	
b) Date(s) when the non compliance occurred, if applicable:	
c) Was this non compliance reported to DER?:	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally Date _____ <input type="checkbox"/> Reported to DER in writing Date _____	<input type="checkbox"/> No
d) Has DER taken, or finalised any action in relation to the non compliance?:	
e) Summary of particulars of the non compliance, and what was the environmental impact:	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram):	
g) Cause of non compliance:	
h) Action taken, or that will be taken to mitigate any adverse effects of the non compliance:	
i) Action taken or that will be taken to prevent recurrence of the non compliance:	

Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) may only be signed by a person(s) with legal authority to sign it. The ways in which the AACR must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the <i>Corporations Act 2001</i> ; or by two directors of the licensee; or by a director and a company secretary of the licensee, or if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/> <input type="checkbox"/>	by the chief executive officer of the licensee; or by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: _____

SIGNATURE: _____

NAME:
(printed) _____

NAME:
(printed) _____

POSITION: _____

POSITION: _____

DATE: ____/____/____

DATE: ____/____/____

SEAL (if signing under seal)



Licence: L6501/1994/11
Form: N1

Licensee: Lunard Pty Ltd
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	

Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Lunard Pty Ltd	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Lunard Pty Ltd

Licence: L6501/1994/11

Registered office: C/- Flinders Accountants
Level 4, 1 Howard Street
PERTH WA 6000

ACN: 063 569 826

Premises address: Stoneridge Quarries WA – Postans Quarry
243 Postans Road
Being Lots 569, 570, part of Lot 571 and Part of Lot 572 on Plan 3475,
within the coordinates (MGA Zone 50) E387855, N6438450; E387850,
N6438200; E387590, N6428020; and E387435, N6438020
HOPE VALLEY WA 6167

Issue date: Thursday, 29 November 2012

Commencement date: Thursday, 6 December 2012

Amendment date: Thursday, 26 May 2016

Expiry date: Tuesday, 5 December 2017

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 and legal requirements and that the Licence and its conditions will ensure that an appropriate level of environmental protection is provided.

Decision Document prepared by:

Peter van Schoubroeck
Licensing Officer

Decision Document authorised by:

Caron Goodbourn
Manager Licensing – (Waste 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	<table border="1"> <thead> <tr> <th>Category number(s)</th> <th>Assessed design capacity</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>100,000 tonnes per year</td> </tr> <tr> <td>13</td> <td>100,000 tonnes per year combined with cat 61A</td> </tr> <tr> <td>61A</td> <td>200,000 tonnes per year combined with cat 13</td> </tr> </tbody> </table>	Category number(s)	Assessed design capacity	12	100,000 tonnes per year	13	100,000 tonnes per year combined with cat 61A	61A	200,000 tonnes per year combined with cat 13
	Category number(s)	Assessed design capacity							
	12	100,000 tonnes per year							
13	100,000 tonnes per year combined with cat 61A								
61A	200,000 tonnes per year combined with cat 13								
Application verified	Date: 11 August 2015 and 1 February 2016								
Application fee paid	Date: Not applicable								
Works Approval has been complied with	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>								
Compliance Certificate received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>								
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>								
Commercial-in-confidence claim outcome	Not applicable								
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> ?	<table border="1"> <tbody> <tr> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td> Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/> </td> </tr> </tbody> </table>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>						
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>								
Is the proposal subject to Ministerial Conditions?	<table border="1"> <tbody> <tr> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td> Ministerial statement No: EPA Report No: </td> </tr> </tbody> </table>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:						
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: 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>)?	<table border="1"> <tbody> <tr> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td> Department of Water consulted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> </td> </tr> </tbody> </table>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Department of Water consulted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Department of Water consulted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <i>Environmental Protection (Kwinana) (Atmospheric Wastes) Policy 1999</i>									
Is the Premises subject to any EPP requirements? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <i>Environmental Protection (Kwinana) (Atmospheric Wastes) Regulations 1992</i>									



3 Executive summary of proposal and assessment

Prescribed Premises summary

Lunard Pty Ltd, trading as Stoneridge Quarries WA (Applicant), is the current owner of Lots 569, 570, 571 and Lot 572 on Plan 3475, Postans Road, Hope Valley (Premises). The Applicant has been the Occupier of the Premises since August 2010. The Applicant has been granted Part V *Environmental Protection Act 1986* licence L6501/1994/11 for the following prescribed activities at the Premises:

- Limestone quarries: Category 12 screening etc of material, with an approved capacity of 100,000 tonnes per annual period.
- Construction and demolition waste processing: Category 13 crushing of building material, with an approved capacity of 100,000 tonnes per annual period.
- Waste storage and reprocessing: Category 61A solid waste facility, with an approved capacity of 200,000 tonnes per annual period which includes the acceptance of construction and demolition waste, of which 100,000 tonnes can be processed under Category 13 per annual period.

The Applicant also holds Registration R1021/1998/1 which was granted on 7 October 1999. Registration R1021/1998/1 is for the concrete batching operations which are regulated by the *Environmental Protection (Concrete Batching and Cement Product Manufacturing) Regulations 1998*.

The Premises is located within the *Environmental Protection (Kwinana) (Atmospheric Wastes) Policy 1999* Area B and the *Environmental Protection (Kwinana) (Atmospheric Wastes) Regulations 1992* are applicable to the operations of the Premises with regards to total suspended particulates.

The Premises is located within the *Water and Rivers Commission Act 1995* Cockburn Sound Management Area.

Based on data, summarised in Table 1, sourced from the Department of Water Water Information Reporting database, the depth to groundwater from the operating floor of the quarry (13 mAHD) is estimated to be greater than 10 m.

Table 1: Local groundwater monitoring bore data summary (Source: Department of Water Water Information Reporting database).

Bore	Bore location from Premises boundary	Groundwater depth over period
#61410077 and #61410078	~750m northeast	Range ~0.2 – 1.25 mAHD (~2005-2015)
#61407112	~850m northwest	Range 0.4-0.75 mAHD (~2010-2015)

Prescribed activities and licence amendment summary

The Applicant manufactures limestone blocks from the quarry as well as reconstituted concrete blocks using limestone derived from the quarry mixed with other waste and materials. The quarry is expected to be in operation until about 2030 dependant on the rate of extraction. Other wastes and materials used are all inert waste type 1 and are usually crushed and/ or screened before use (including aggregates: quarried rock, laterite, gravel, limestone, blast furnace slag; concrete: blocks, bricks, pavers, kerbing, slabs; and clay- bricks, blocks, pavers, tiles). Sand (material excavated from construction sites) is also used. Raw materials, crushed or otherwise, are inspected upon arrival at the Premises and are stored in various areas across the Premises.

A concrete batching plant is used in the production of the reconstituted blocks. No wastewater is generated from the batching process.

Concrete batching waste is only accepted onto the ‘incoming materials acceptance pad’, where it dries prior to being crushed for reuse. The ‘incoming materials acceptance pad’ was constructed under works approval W5410/2013/1 and comprises of a concrete hardstand and impermeable stormwater run-off catchment.



On 24 April 2013 the Applicant was granted works approval W5410/2013/1 for the construction of a concrete pad and stormwater run-off catchment (incoming materials acceptance pad) to receive and process inert waste and concrete batching waste materials. The works were expected to increase the combined capacity of crushed waste and screened virgin quarry material to 150,000 tonnes per annual period. The works included the establishment of Category 13 and Category 61A prescribed activities. Construction compliance documentation for the works was received by the then Department of Environment and Conservation on 8 October 2013.

Licence amendment applications were received from the Applicant on 5 August 2015 and 1 February 2016:

- The August 2015 amendment application requested approval to accept 100,000 tonnes per annual period of waste under category 61A activities¹.
- The February 2016 amendment application requested approval to accept waste in the form of bricks, stone and concrete for storage, crushing and screening and reconstitution in blocks.

Note 1: Category 61A has been amended to 200,000 tonnes which includes the acceptance of construction and demolition waste, of which 100,000 tonnes can be processed under Category 13 per annual period.

This Decision Document is for the amendment of the Licence granted 23 May 2016, being for:

- The operation of works constructed under W5410/2013/1.
- Approval to operate category 13 and 61A prescribed activities to an increased capacity of 100,000 and 200,000 tonnes per annual period respectively.
- Approval to accept all Inert Waste Type 1 materials that may be crushed and used, with specified controls, for the production of reconstituted blocks.
- Addressing the risk posed by asbestos potentially being present in Inert Waste Type 1.
- Additional regulatory controls identified as appropriate through the risk assessment process.
- Administrative amendments.

The risk of dust and noise emissions arising from the receipt, handling and processing (crushing and screening) of inert waste type 1 and construction and demolition waste have been considered as part of this Licence amendment.

Other relevant approvals

Approval for operations at the Premises is granted under the *Planning and Development Act 2005* by the City of Kwinana over the period 13 March 2013 to 13 March 2018. Approval is subject to a number of conditions addressing:

- Stormwater management;
- Dust management;
- Noise management; and
- The contour levels denoted by the *Latitude 32 District Structure Plan – Earthworks Concept Plan*¹.

Note 1: Zoning in the area under the City of Kwinana is not currently defined. The Premises is located within the Latitude 32 industry zone which is currently going through various stages of planning. The Latitude 32 area is established under the *Hope Valley – Wattleup Redevelopment Act 2000*.



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.

DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Interpretation	L1.1.2, 1.1.3 and 1.1.4	<p>Operation</p> <p>Conditions 1.1.2, 1.1.3 and 1.1.4 have been amended to ensure that terminology used within the Licence is referenced to the appropriate definitions where applicable, that any reference to a standard or guideline is to the most current version of that standard or guideline.</p> <p>Definitions under Condition 1.1.2 that are not used within the Licence, including those that were linked to conditions which have been removed (addressed in the sections below) have been deleted.</p> <p>Additional definitions have been inserted for the following:</p> <ul style="list-style-type: none"> • To accurately reference waste types in accordance with the Landfill Definitions. • To accurately reference terms used in conditions for controlling the risks related to asbestos. • To accurately define relevant operational areas within the Premises which are subject to specific regulatory controls. • To accurately define the Premises boundary. <p>Amendments to Condition 1.1.3 ensure that the wording is consistent and accurate.</p> <p>Amendments to Condition 1.1.4 remove the reference to 'code of practice'; no codes of practice are referred to in the Licence.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Guidance Statement: Regulatory Principles</i></p> <p><i>Guidance Statement: Setting Conditions</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	N/A	<p>Operation Licence conditions 1.2.1, 1.2.2, 1.2.3 and 1.2.4 in the previous version of the Licence have been deleted. No other conditions of relevance have been identified and the 'general conditions' section of the Licence has been removed. The conditions were removed for the following reasons:</p> <ul style="list-style-type: none"> • Condition 1.2.1: is an explanatory statement and not a condition, the intent of the statement is covered by the general provisions of the Act. • Condition 1.2.2: there is no specified pollution control, monitoring equipment or maintenance schedule which the condition clearly relates to, where infrastructure is required to control or monitor emissions it is specified within conditions under the 'Premises operation' and section of the Licence. • Condition 1.2.3: the provisions of the condition were not clear or enforceable. No substances requiring specific regulatory controls have been identified for the prescribed activities undertaken at the Premises. • Condition 1.2.4: the storage and remediation of spills of relevant materials can be effectively regulated by the general provisions of the <i>Environmental Protection Act 1986</i> and the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>. No substances requiring specific regulatory controls have been identified for the prescribed activities undertaken at the Premises. 	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i></p> <p><i>Guidance Statement: Regulatory Principles</i></p> <p><i>Guidance Statement: Setting Conditions</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operation	L1.2.1 - 1.2.7	<p>Operation Approval for the increase in the production capacity for category 13 and 61A prescribed activities from 50,000 to 100,000 tonnes per annual period respectively has been granted subject to the risk assessments and regulatory controls documented below.</p> <p>There is no change to the category 12 prescribed activity production capacity however, the risk posed by the emission of dust from category 12 and 13 activities is relatively similar. Subsequently the emission risk assessment and proposed regulatory controls have inherently addressed both category 12 and 13 operations where appropriate.</p> <p>Specific regulatory controls are justified under the relevant emission risk assessment section (fugitive, noise and leachate) in this Decision Document below where relevant. Amendments to premises operation conditions are for:</p> <ul style="list-style-type: none"> • Administrative amendments: renumbering conditions chronologically and substituting the term 'shall' for 'must'. • Condition 1.2.1 has been inserted to limit category 12 and 13 prescribed activities at the assessed production capacity of 100,000 tonnes per annual period for each prescribed activity. Operations greater than these volumes will require consideration of Section 53 and Section 56 of the Act and potentially a reassessment of the emission risks posed by the activity. • Condition 1.2.2 (being condition 1.3.1 in the previous licence version) has been amended to grant approval for up to 200,000 tonnes of waste to be accepted under category 61A per annual period. Specifications have been amended to: <ul style="list-style-type: none"> ○ Grant approval for all Inert Waste Type 1 to be accepted at the Premises with the exclusion of any and all Special Waste Type 1. ○ Specify that concrete batching waste must be accepted to the 'incoming materials acceptance pad' to fully dry before further processing. ○ Include the content of condition 1.3.2 in the previous licence version. Inspection of the waste for acceptance can include visual assessment, laboratory testing and supporting documentation from the waste generator. 	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Guidance Statement: Regulatory Principles</i></p> <p><i>Guidance Statement: Setting Conditions</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operation cont.		<ul style="list-style-type: none"> • Condition 1.2.3 (being condition 1.3.3 in the previous licence version) has been amended to require waste types not conforming to the waste acceptance criteria to be removed from the Premises immediately. This is consistent with the Applicants operations procedures. Where the acceptability of a load cannot be determined the Applicant segregates the load until the load can be determined as acceptable or removes it from the Premises. • Condition 1.2.4 (being condition 1.3.4 in the previous licence version) has been amended to require the processing of wastes and raw materials to adequately control the potential risk posed by emissions. • Condition 1.2.5 has been inserted based on the risk assessment undertaken for fugitive emissions (dust) in this Decision Document below. The condition replaces condition 2.6.3 in the previous version of the licence. • Condition 1.2.6 has been inserted based on the risk assessment undertaken for noise emissions in this Decision Document below. • Condition 1.2.7 has been inserted based on the risk assessment undertaken for fugitive emissions (dust - asbestos) in this Decision Document below. 	
Emissions (general)	N/A	<p>Operations Amendments to emissions conditions, and removal of the emissions section, are for:</p> <ul style="list-style-type: none"> • Condition 2.1.1 in the previous licence version has been deleted; there are no descriptive or numerical limits or targets specified in the emissions section of the Licence. • Sections 2.2-2.5 in the previous licence version have been deleted; the sections contained no conditions. • Conditions 2.6.1 and 2.6.2 in the previous version of the licence have been deleted; see the fugitive emissions (dust) section of this Decision Document. • Conditions 2.6.3 and 2.6.4 in the previous version of the licence have been deleted; the conditions are replaced by condition 1.2.5 and are addressed in the fugitive emissions (dust) section of this Decision Document. • Condition 2.8.1 in the previous licence version has been deleted; see the noise emissions section of this Decision Document. 	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Guidance Statement: Setting Conditions</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Fugitive Emissions (Dust)	N/A	<p>Operation</p> <p>The emission of dust may arise at the Premises from the following activities:</p> <ul style="list-style-type: none">• Processing of limestone under category 12 activities;• Acceptance, handling, crushing and processing of wastes under category 13 activities; and• Acceptance, handling and processing of wastes under category 61A activities. <p>This licence amendment is for the increase in the production capacities of category 13 and 61A activities and for the acceptance and processing (handling, crushing, reprocessing and screening) of Inert Waste Type 1 including construction and demolition waste.</p> <p>Risk assessments and appropriate regulatory controls are documented in Appendix A for:</p> <ul style="list-style-type: none">• Dust emissions arising from an increase in category 13 and 61A activities; and• Dust emissions that may contain asbestos/ ACM as a result of contaminated construction and demolition waste being accepted and processed at the Premises.	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Guidance Statement: Regulatory Principles</i></p> <p><i>Guidance Statement: Setting Conditions</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Noise	N/A	<p>Operation</p> <p>The emission of noise may arise at the Premises from the following activities:</p> <ul style="list-style-type: none"> • Processing of limestone under category 12 activities; • Acceptance, handling, crushing and processing of wastes under category 13 activities; and • Acceptance, handling and processing of wastes under category 61A activities. <p>This licence amendment is for the increase in the production capacities of category 13 and 61A activities and for the acceptance and processing (handling, crushing, reprocessing and screening) of Inert Waste Type 1 including construction and demolition waste.</p> <p>Risk assessments and appropriate regulatory controls are documented in Appendix A for noise emissions arising from an increase in category 13 and 61A activities.</p> <p>Condition 2.8.1 in the previous licence version has been deleted. No blasting takes place at the Premises, subsequently no noise emissions arising from blasting activities are granted approval by Licence L650181994/11 or assessed in this Decision Document.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Environmental Protection (Noise) Regulations 1997</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Monitoring (general)	L2.1.1	<p>Operation</p> <p>Amendments to monitoring conditions are for:</p> <ul style="list-style-type: none">• Sections 3.1-3.4 and 3.7-3.8 in the previous licence version have been deleted; the sections contained no conditions.• Condition 2.1.1, being condition 3.5.1 in the previous licence versions, has been amended to clarify the parameter types being monitored, specify that units are to be measured in tonnes via the weighbridge at the Premises, that data is to be averaged by the annual period and that the frequency on monitoring is to be every load arriving and rejected from the Premises. The previous version of the condition contained errors in nomenclature. The condition also replaces condition 5.1.5 in the previous licence version.• Condition 2.2.1 has been inserted to require the volume of limestone processed under category 12 activities and the volume of construction and demolition waste processed under category 13 activities to be monitored. <p>The data obtained by the monitoring under Conditions 2.1.1 and 2.2.1 is required to be reported annually under Condition 4.2.1 which will then allow compliance against conditions 1.2.1 and 1.2.2 to be determined.</p>	General provisions of the <i>Environmental Protection Act 1986</i>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Improvement	L3.1.1	<p>Operation</p> <p>Condition 3.1.1 has been inserted based on the risk assessment in Appendix A for fugitive emissions (dust – asbestos). The condition requires the development and submission of an Asbestos Management Plan (AMP) that is consistent with the document <i>Guidelines for managing asbestos at construction and demolition waste recycling facilities</i>. The AMP will document procedures to help address the risk that asbestos and ACM may be present in waste, particularly construction and demolition waste, accepted and crushed at the Premises.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Guidance Statement: Regulatory Principles</i></p> <p><i>Guidance Statement: Setting Conditions</i></p> <p><i>Guidelines for managing asbestos at construction and demolition waste recycling facilities</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Information	L4.2.1 and 4.3.1	<p>Operation Administrative amendments to renumber conditions chronologically and substitute the term 'shall' for 'must' have been made.</p> <p>Condition 5.1.2 in the previous version of the licence has been deleted. A lack of awareness of Licence conditions by a Licensee and their representatives is not a defence to offences under the <i>Environmental Protection Act 1986</i>.</p> <p>Condition 5.1.5 in the previous version of the licence has been deleted. The requirement to monitor waste inputs and outputs is covered by Condition 2.1.1.</p> <p>Condition 4.2.1 (being condition 5.2.1 in the previous licence version) has been amended to allow 60 calendar days for the submission of the Annual Environmental Report and for the following requirements:</p> <ul style="list-style-type: none"> • Removal of the reporting requirements for pollution control equipment and incidents; relevant reporting requirements are adequately addressed by Condition 4.3.1 and Section 72 of the <i>Environmental Protection Act 1986</i>. • Inserting the requirement to report on Condition 1.2.7 for asbestos contamination results in crushed construction and demolition waste. • Inserting the requirement to report on Condition 2.1.1 for waste acceptance volumes which identify the tonnage of waste accepted under category 13 and 61A. • Inserting the requirement to report on Condition 2.1.2 for limestone and construction and demolition waste processing which identify the tonnage of material processed under category 12 and 13. • Removal of the reporting requirements for condition 5.1.5 in the previous licence version which is now covered by Condition 2.1.1. <p>All amendments to the Annual Environmental Report requirements are to facilitate the efficient determination of compliance against the conditions of the Licence.</p> <p>Condition 4.3.1 has been inserted to require any limit under the Licence being exceeded to be reported as soon as practicable. This will facilitate a prompt review of the risk posed by the limit being exceeded and any response required.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Guidance Statement: Regulatory Principles</i></p> <p><i>Guidance Statement: Setting Conditions</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Licence Duration	N/A	<p>The previous version of the licence was granted until 5 December 2017.</p> <p>Development approval from the City of Kwinana has been granted until 13 March 2018.</p> <p>All residual risk assessments have identified emission risks at the Premises being low and moderate.</p> <p>Subsequently in accordance with the <i>Guidance Statement: License Duration</i>, the amended Licence is granted as per the previous licence version until 5 December 2017.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Guidance Statement: Licence Duration</i></p>



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
16/05/2016	Proponent sent a copy of draft instrument	<ul style="list-style-type: none">• Administrative error;• Correction on dust management infrastructure; and• Clarification on waste storage limits	<ul style="list-style-type: none">• Error corrected;• Specification of dust management infrastructure corrected; and• Waste storage limit clarified, specifying that a 200,000 tonnes limit under Category 61A is inclusive of the 100,000 tonnes of waste crushed under Category 13.
30/05/2016	Amended instrument was advertised in West Australian		



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 (dust) - Operation

Emission description:

Emission: Dust could arise at the Premises from the movement of vehicles and machinery and operation of equipment for the acceptance, handling, ripping, screening, crushing, reprocessing, stockpiling and loading of limestone, inert waste type 1 and construction and demolition waste.

Impact: Dust within the Premises and emanating from the Premises could cause reduced local air quality from airborne particulates, impact flora and fauna and cause interference with the health, welfare, convenience, comfort or amenity of sensitive receptors. The following receptors have been identified:

- Commercial receptors directly north and west of the Premises.
- Residential receptor located directly adjacent on the northeast corner of the Premises (Lot 569).
- Commercial and residential receptors located generally east (north and south) along Postans Road, with multiple residential receptors extending further east.

Separation distances to neighbouring Premises start from directly adjacent the Premises. All private residences are located at least 500 metres from the location of the crushing plant within the Premises. Consideration of future receptors has identified that the zoning in the area under the City of Kwinana is not currently defined. The Premises is located within the Latitude 32 industry zone which is currently going through various stages of planning. The Latitude 32 area is established under the *Hope Valley – Wattleup Redevelopment Act 2000*.

Controls: The Licensee has developed a Dust Management Plan, document SQ-PLA-001 dated 10 April 2012, (DMP) and within the DMP has committed to the following dust management measures:

- Complaints register and incident reporting procedure;
- Routine housekeeping;
- Staff induction and training;
- Two water tanks (20 and 35 kL capacity);
- A 30 kL water truck with spray bars;
- Vehicle speed and access restrictions;
- Periodic road sweepers;
- Tarpaulins cover loads of all crushed material prior to existing the Premises;
- Wheel washes for all trucks leaving the Premises.
- Material stockpiles are actively managed to reduce heights and are treated with water sprays;
- Cessation of crushing when winds ≥ 25 knots/ 54 km/ hour in any direction;
- Progressive rehabilitation of disturbed areas and use of stabilising emulsions (hydromulch).
- Water sprays fitted to dump hoppers, crushing and screening plants and stackers;
- Maintaining dust suppression activities during adverse conditions outside of operating hours;
- Bund walls and boundary setbacks which include an operational quarry floor level of 13 mAHD compared to a level of ~ 34 mAHD in the northeast part of the Premises, outside of the quarry, providing a vertical buffer of ~ 20 metres;
- Crushing plant remains at a central and fixed position within the Premises;
- Cessation of operations when dust levels exceed PM_{10} $400\mu\text{g}/\text{m}^3$ over any 15 minute period and the reticulated water network will be activated; and
- Operations cease in the event that the water supply for dust suppression fails.

In addition a real time Ambient Air Quality Baseline Monitoring programme has been considered including the use of multiple dust monitors and a weather station however, monitoring has not implemented by the Licensee at this time.



A licence under the *Rights in Water and Irrigation Act 1914* is held by the Licensee, instrument number GWL51052(4), for the entitlement to extract 11,000 kL per year. The duration of instrument number GWL51052(4) is from 27 July 2015 to 27 July 2025.

Risk assessment

Consequence: Moderate

Likelihood: Unlikely

Risk Rating: Moderate

Regulatory Controls:

- The Premises is located within the *Environmental Protection (Kwinana) (Atmospheric Wastes) Policy 1999* Area B and the *Environmental Protection (Kwinana) (Atmospheric Wastes) Regulations 1992* are applicable to the operations of the Premises for total suspended particulates; specifically Regulation 4(b) and Regulation 5. While monitoring requirements are not specified in this Licence, complaints from receptors will serve as a primary trigger for undertaking a review and considering the specified controls required to ensure the limits under the *Environmental Protection (Kwinana) (Atmospheric Wastes) Regulations 1992* are complied with.
- In accordance with the provisions of the *Environmental Protection (Kwinana) (Atmospheric Wastes) Regulations 1992* and in consideration of the emission source for total suspended particulates within the Premises the following commitments made by the Licensee are specified as regulatory controls under Condition 1.2.4:
 - (a) Dust emission controls specified under Condition 1.2.5 (items c, d, e, f, g, h, I and j) must be operational for waste and limestone to be received, handled, sorted, reprocessed, stored, crushed or screened.
 - (d) Crushing must only occur within the crushing area to maintain a buffer from the Premises boundary.
 - (e) Dust emission controls specified under Condition 1.2.5 (items a, c, d, e, f, g, h, I and j) must be operational for construction and demolition waste to be crushed or screened.
- In continue regard to dust emission controls, the following commitments made by the Licensee are specified as regulatory controls under Condition 1.2.5:
 - Item (a): operating controls for the crushing plant.
 - Item (b): operating controls for the concrete batching plant (in addition to the provisions of the *Environmental Protection (Concrete Batching and Cement Product Manufacturing) Regulations 1998*).
 - Item (c): operating controls for all haul roads.
 - Item (d): operating trigger point of the reticulated water network.
 - Item (e): operating controls for the screening plants.
 - Item (f): operating controls for the stackers.
 - Item (g): operating controls for the material stockpiles.
 - Item (h): operating controls for dust prone vehicles leaving the Premises.
 - Item (i): operating controls for minimum water storage requirements.
 - Item (j): operation controls for minimum water truck capacity.

Residual risk

Consequence: Moderate

Likelihood: Rare

Risk Rating: Moderate



Fugitive emissions (dust - asbestos) - Operation

Emission: Asbestos and asbestos fibres may become airborne or spread through materials if contaminated material was accepted at the Premises and subsequently handled, crushed, screened or reprocessed.

Impact: The spread of asbestos, particularly airborne fibres poses a significant health risk (e.g. asbestosis) to people exposed to the Premises air shed.

Controls: Asbestos is not knowingly accepted by the Licensee at the Premises. There remains a potential for asbestos and ACM to be present in some materials accepted at the Premises which may be handled, sorted, stored, reprocessed or screened. Construction and demolition waste is identified as the waste type most likely to be contaminated. Controls put in place by the Licensee are:

- Visual inspection and associated registers of all waste accepted at the Premises.
- A sorting pad and waste receipt area for the receipt of all waste which facilitates the identification and isolation of any materials in which asbestos and ACM may be present.
- Isolating any loads of waste where the potential for contamination cannot be established.
- The periodic requirement for supporting documentation to verify the quality of some waste accepted at the Premises, primarily from the City of Cockburn and Eco Resources Pty Ltd.

Risk Assessment

Consequence: Major

Likelihood: Unlikely

Risk Rating: Moderate

Regulatory Controls

- The general provisions of the *Environmental Protection Act 1986* are applicable, including Section 49 causing pollution and unreasonable emission.
- Part 3, Division 6, Regulations 42 through 47 of the *Environmental Protection (Controlled Waste) Regulations 2004* are applicable for the transport and acceptance of asbestos.
- The following regulatory controls are specified in the Licence:
 - Condition 1.2.2, item (c)(ii-iv) require that all waste accepted to the Premises, excluding concrete batching waste, is accepted to the sorting pad, is inspected for asbestos and SCM and that no asbestos or ACM is accepted at the Premises.
 - Condition 1.2.4, items (b) and (c) requires that no asbestos or ACM is reprocessed, screened or crushed at the Premises.
 - Condition 1.2.5 dust management measures also further reduce the risk of asbestos emissions should asbestos or ACM inadvertently make its way through the acceptable quality assurance process.
 - Condition 1.2.7 requires that construction and demolition waste that is crushed at the Premises is tested in accordance with the DER Asbestos Guidelines for the presence of ACM, asbestos and asbestos fibres. Testing of crushed construction and demolition waste is considered appropriate, rather than testing of final products (reconstituted blocks), due to:
 - the higher likelihood that ACM, asbestos and asbestos fibres will be detected in the raw construction and demolition waste that is crushed; and
 - the presence of any ACM, asbestos and asbestos fibres will present a higher risk to receptors while in the crushed raw state compared to comingled reconstituted blocks.
- Condition 3.1.1 requires an Asbestos Management Plan consistent with the Conditions of the Licence and the document *Guidelines for managing asbestos at construction and demolition waste recycling facilities* (Department of Environment Regulation 2012) from which the specifications a) through g) are derived. Adherence to such a plan will help ensure the health and safety of workers and neighbouring residences and members of the public should asbestos inadvertently be accepted and possibly released at the Premises.

Residual Risk

Consequence: Major

Likelihood: Rare

Risk Rating: Moderate



Noise - Operation

Emission: Noise arising from operational activities, vehicular and machinery movement, handling of waste material, limestone extraction, crushing, screening, diamond saw and concrete batching.

Impact: Interference with the health, welfare, convenience, comfort or amenity of sensitive commercial and residential receptors, which are located adjacent to the Premises on all sides, with residential receptors occurring to the east and north east.

Controls: The Licensee has made the following commitments:

- The approach documented within the Lunard Pty Ltd 2012, *Stoneridge Quarries WA Noise Management Plan SQ-PLA-002*, Hope Valley Western Australia.
- Operations are only to occur between 0600 and 1800 hours on Mondays through Saturdays.
- Equipment is strategically located to minimise the intensity of noise emissions leaving the Premises.
- Bund walls and boundary setbacks which include an operational quarry floor level of 13 mAHD compared to a level of ~34 mAHD in the northeast part of the Premises, outside of the quarry, providing a vertical buffer of ~20 metres.

Risk assessment:

Consequence: Minor

Likelihood: Possible

Risk Rating: Moderate

Regulatory controls:

- It is considered that the provisions of *Environmental Protection (Noise) Regulations 1997* will be sufficient to regulate noise emissions during operation.
- The commitments made by the Licensee under the Lunard Pty Ltd 2012, *Stoneridge Quarries WA Noise Management Plan SQ-PLA-002*, Hope Valley Western Australia have been captured by Condition 1.2.7.
- A complaint register is required to be maintained under existing licence L6860/1995/11 condition 4.1.3 which will help verify any potential impacts arising from noise emissions.

Risk assessment:

Consequence: Minor

Likelihood: Possible

Risk Rating: Moderate



Leachate - Operation

Emission: Contaminants within inert waste, construction and demolition waste and concrete batching waste may leach under saturated conditions into the limestone base and potentially reach the groundwater. Low levels of leachate contaminants would be expected within the inert waste types.

Impact: Contaminants leaching from waste may become bound in sediments or eventually reach groundwater and migrate to Cockburn Sound.

Controls: The Licensee has the following controls in place:

- Concrete batching waste is only accepted to the waste acceptance pad (a hardstand);
- Only inert waste types are accepted.
- A separation distance of more than 10 meters to groundwater is maintained (based on a minimum floor level of 13.5 mAHD derived from the Latitude 32 planning and approval process. This is established through the *Latitude 32 District Structure Plan – Earthworks Concept Plan*¹ and further identified in the *Latitude 32 Industry Zone: Latitude 32 Levels Planning Policy* (Version 2, July 2014).

Risk assessment:

Consequence: Minor

Likelihood: Unlikely

Risk Rating: Moderate

Regulatory controls:

The risk of leachate can be adequately controlled by:

- Condition 1.2.4 (f) which requires all concrete batching waste to be located on the waste acceptance pad until it is a solid waste.
- The general provisions of the *Environmental Protection Act 1986*.
- The *Environmental Protection (Authorised Discharge) Regulations 2004*.

Risk assessment:

Consequence: Minor

Likelihood: Rare

Risk Rating: Low