



Licence number	L7037/1997/7
Licence holder	Boral Resources (WA) Ltd
ACN	008 686 904
Registered business address	Level 18, 15 Blue Street, NORTH SYDNEY NSW 2060.
DWER file number	DER2014/000377
Duration	07/04/2021 to 06/04/2041
Date of issue	31/03/2021
Premises details	Mt Regal Quarry Tenement M47/492 North West Coastal Hwy KARRATHA WA 6714 As defined in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 12: Screening etc. of material	1,000,000 tonnes per annual period
Category 35: Asphalt manufacturing	50,000 tonnes per annual period
Category 61A: Solid waste facility	5,000 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 31 March 2021, by:

Stephen Checker
MANAGER WASTE INDUSTRIES
REGULATORY SERVICES

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

Licence history

Date	Reference number	Summary of changes
14/07/1997	L7037/1997/1	New application
27/07/1998	L7037/1997/2	Licence re-issue
07/04/2003	L7037/1997/3	Licence re-issue
05/04/2004	L7037/1997/4	Licence re-issue
07/04/2005	L7037/1997/5	Licence re-issue
06/03/2009	L7037/1997/6	Licence re-issue
22/03/2013	L7037/1997/6	Licence amendment – conversion to new format
8/01/2015	W5737/2014/1	Works approval for Category 35 and increase Category 12 screening production capacity.
15/09/2015	L7037/1997/6	Licence amendment – to include Categories 35, and 61A, and to increase category 12 screening production capacity.
31/03/2021	L7037/1997/7	Renewal and update to current licence format

Interpretation

In this licence:

- (a) the words ‘including’, ‘includes’ and ‘include’ in conditions mean “including but not limited to”, and similar, as appropriate;
- (a) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (b) where tables are used in a condition, each row in a table constitutes a separate condition;
- (c) any reference to an Australian or other standard, guideline, or code of practice in this licence:
 - (i) if dated, refers to that particular version; and
 - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (d) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (e) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The licence holder must ensure that the following conditions are complied with:

Infrastructure and equipment

1. The licence holder shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.

Premises operation

2. The licence holder shall immediately recover or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.
3. The licence holder shall:
 - (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
 - (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.¹

Note1: *The Environmental Protection (Unauthorised Discharges) Regulations 2004* make it an offence to discharge certain materials into the environment
4. The licence holder shall ensure that any discharge of water from the washdown areas shall be discharged via fuel/oil traps and silt traps.
5. The licence holder shall ensure that automatic safeguards are incorporated within the process to prevent the ignition of bitumen within the drum.
6. The licence holder shall ensure that:
 - (a) the baghouse is operational prior to start-up of the drier and operated continuously whilst the drier is operating;
 - (b) the baghouse filters are regularly inspected; and
 - (c) when detected, blocked, frayed or leaking, operations cease immediately and do not commence again until baghouse filters are replaced.
7. The licence holder shall only accept waste on to the Premises:
 - (a) it is of a type listed in Table 1;
 - (b) the quantity accepted is below any quantity limit listed in Table 1;
 - (c) it meets any specification listed in Table 1.

Table 1: Waste acceptance		
Waste type	Quantity Limit	Specification ¹
Processed Reclaimed Asphalt Pavement (RAP)	5,000 tonnes per year	The licence holder shall ensure that processed RAP does not contain any of the following materials: <ul style="list-style-type: none"> • granular pavement materials, clay, soil or organic matter; • bricks, concrete, glass or building materials; or • laterite asphalt, tar based products, geotextile fabrics, raised pavement markers or surface treatments such as high friction surfacing or green or red pavement markings.

Emissions

8. The licence holder shall record and investigate the exceedance of any descriptive or numerical limit specified for conditions 9 and 10 of this Licence.
9. The licence holder shall ensure that where waste is emitted to air from the emission points in Table 2 (and identified on the map of emission points in Schedule 1) it is done so in accordance with the conditions of this Licence.

Table 2: Emission points to air			
Emission point reference on Premises map	Emission Point	Emission point height	Source, including any abatement
A1 (shown as 'Stack' in figure 2 of Schedule 1)	Stack	Minimum 5 metres above ground	Drum dryer via baghouse

10. The licence holder shall not cause or allow point source emissions to air greater than the limits listed in Table 3.

Table 3: Point source emission limits to air			
Emission point	Parameter	Limits (including units) ¹	Averaging period
A1	PM	50 mg/m ³	Stack test (Minimum 60 minute average)
	Stack velocity	At least 12 m/s	Stack test (Minimum 30 minute average)

Note 1: All units are referenced to STP dry

Note 2: Concentration units are referenced to 17% O₂.

Monitoring

11. The licence holder shall ensure that annual monitoring is undertaken at least 9 months apart.
12. The licence holder shall record production or throughput data and any other process parameters relevant to any continuous emissions monitoring system (CEMS) or non-continuous monitoring undertaken.
13. The License holder shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.
14. The licence holder shall undertake the monitoring in Table 4 according to the specifications in that table.

Table 4: Monitoring of point source emissions to air					
Emission point reference	Parameter	Units ^{1, 3}	Averaging period	Frequency ²	Method
A1	Volumetric flow rate	m ³ /s	n/a	Annual	USEPA Method 2
	PM	mg/m ³ g/s	Stack Test (Minimum 60 minute average)		USEPA Method 5 or USEPA Method 17
	NO _x	mg/m ³ g/s	Stack Test (Minimum 30 minute average)		USEPA Method 7E
	Carbon monoxide	mg/m ³ g/s			USEPA Method 10
	Total Volatile Organic Compounds	mg/m ³ g/s			USEPA Method 18

Note 1: All units are referenced to STP dry.

Note 2: Monitoring shall be undertaken to reflect normal operating conditions and any limits or conditions on inputs or production.

Note 3: Concentration units for A1 are referenced to 17% O₂.

15. Sampling required to comply with Condition 14 of this Licence must be undertaken at sampling locations in accordance with the AS 4323.1.
16. All non-continuous sampling and analysis undertaken pursuant to condition 14 must be undertaken by a holder of NATA accreditation for the relevant methods of sampling and analysis.
17. The licence holder shall ensure that a broken bag detector is continuously operated to monitor pressure changes within the baghouse.

Records and reporting

18. 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 18(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.
19. The licence holder shall ensure that:

- (a) 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
 - (b) 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.
20. The licence holder shall complete an Annual Audit Compliance Report (AACR) indicating the extent to which the licence holder 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.
21. The license holder 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.
22. The licence holder shall 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 5 in the format or form specified in that table.

Table 5: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or form
-	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
-	Comparison of the approved production capacities and actual production/throughput for the Annual period	Brief summary
Table 4	Point source air emission monitoring results	AR1 ¹
Table 4	An assessment of the monitoring results against previous monitoring results and Licence limits	Graphical and brief summary
Condition 20	Compliance	AACR
Condition 21	Complaints summary	None specified

Note 1: Forms are in Schedule 2

23. The licence holder shall submit the information in Table 6 to the CEO according to the specifications in that table.

Table 6: Non-annual reporting requirements				
Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form
-	Copies of original monitoring reports submitted to the licence holder by	Not Applicable	Within 14 days of the CEOs request	As received by the licence holder from

	third parties			third parties
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24. The licence holder shall ensure that the parameters listed in Table 7 are notified to the CEO in accordance with the notification requirements of the table.

Table 7: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement¹	Format or form
Condition 8	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5 pm of the next usual working day. Part B: As soon as practicable	N1 ²
-	Intention for the site to recommence normal operations from a care and maintenance status	At least 30 calendar days prior to site recommencing operations	None specified

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

Definitions

In this licence, the terms in Table have the meanings defined.

Table 8: Definitions

Term	Definition
Act	means the <i>Environmental Protection Act 1986</i> ;
ACN	Australian Company Number
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
annual period	a 12 month period from 1 January until 31 December in each year.
AS 4323.1	means the Australian Standard AS4323.1 <i>Stationary Source Emissions Method 1: Selection of sampling positions</i> ;
averaging period	means the time over which a limit or target is measured or a monitoring result is obtained;
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
CEMS	means continuous emissions monitoring system;
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994 (WA)</i> and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
g/s	means grams per second
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified

Term	Definition
	conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
m ³	means cubic metres
mg/m ³	means milligrams per cubic metre
m/s	means metres per second
NATA	means the National Association of Testing Authorities, Australia;
NATA accredited	means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;
NO _x	means oxides of nitrogen, calculated as the sum of nitric oxide and nitrogen dioxide and expressed as nitrogen dioxide;
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this licence.
normal operating conditions	means any operation of a particular process (including abatement equipment) excluding start-up, shut-down and upset conditions, in relation to stack sampling or monitoring
PM	means total particulate matter including both solid fragments of material and miniscule droplets of liquid;
Processed RAP	means RAP which has been crushed and/or screened to size for recycling into new asphalt;
prescribed premises	has the same meaning given to that term under the EP Act.
RAP	means Reclaimed Asphalt Pavement which consists of surplus plant mix or the material reclaimed from an asphalt wearing or intermediate course by cold planning;
Schedule 1	means Schedule 1 of this Licence unless otherwise stated;
Schedule 2	means Schedule 2 of this Licence unless otherwise stated;
spot sample	means a discrete sample representative at the time and place at which the sample is taken.
stack test	means a discrete set of samples taken over a representative period at normal operating conditions;
start-up	means the period when plant or equipment is brought from inactivity to normal operating conditions;

Term	Definition
STP dry	means standard temperature and pressure (0° Celsius and 101.325 kilopascals respectively), dry;
USEPA	means United States (of America) Environmental Protection Agency;
USEPA Method 2	means the USEPA Method 2 – Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube);
USEPA Method 5	means the USEPA Method 5 - Determination of Particulate Matter Emissions From Stationary Sources;
USEPA Method 7E	means the USEPA Method 7E - Determination of Nitrogen Oxides Emissions From Stationary Sources (Instrumental Analyzer Procedure);
USEPA Method 10	means the USEPA Method 10 - Determination of Carbon Monoxide Emissions From Stationary Sources (Instrumental Analyzer Procedure);
USEPA Method 17	means the USEPA Method 17 - Determination of Particulate Matter Emissions From Stationary Sources; and
USEPA Method 18	means the USEPA Method 18 - Measurement of Gaseous Organic Compound Emissions By Gas Chromatography.
waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS



Figure 2: Insets showing the Mobile Asphalt activities location

Licence:

Licence holder:

Form: AR1

Period :

Name: Monitoring of point source emissions to air

Emission point	Parameter	Result ¹	Result ¹	Averaging period	Method	Sample date & times
A1 (Stack)	Volumetric flow rate	m ³ /s				
	PM	mg/m ³	g/s			
	NO _x	mg/m ³	g/s			
	VOCs	mg/m ³				

Note 1: All units are referenced to STP dry and relevant Oxygen Correction

Signed on behalf of Boral Resources (WA) Ltd: Date: