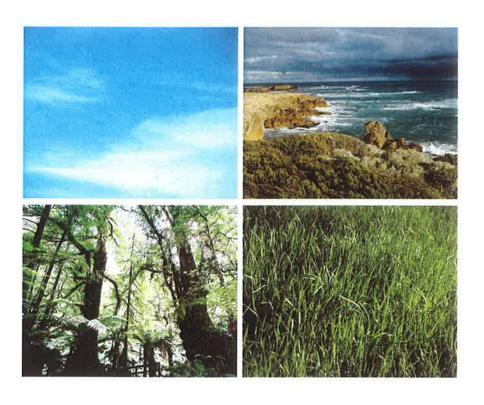
### SECTION 96 REPORT FOR READYMIX- JANDRA QUARRY







Engineering a Sustainable Future for Our Environment

### SECTION 96 REPORT FOR READYMIX- JANDRA QUARRY

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BENBOW ENVIRONMENTAL

Report No:

17022\_S96

August 2007

(Released: 20 August 2007)





Engineering a Sustainable Future for Our Environment

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## **ATTACHMENTS**

Attachment 1: DECC Letter Dated 3 August 2007 Attachment 2: Environment Protection Licence (EPL)





### 1. INTRODUCTION

CSR Limited submitted a development application (DA No 231-10-99) to the Department of Urban Affairs and Planning on the 26<sup>th</sup> of October 1999 for the expansion of Jandra Quarry for the extraction and processing of hardrock and associated facilities. The site is identified as Lot 2 in DP255621 and Lots 11, 12, 13, 14 and 15 DP790056 Parish of Beryan, Greater Taree City Council. The application was supported by an Environmental Impact Statement prepared by Environmental Resources Management Australia (ERM).

The expanded site was approved by the then Minister for Urban Affairs and Planning and commenced operations in June 2000.

A modification was approved under Section 96 of the Act in December 2002.

The site also holds Environment Protection Licence (EPL) 2796 from the NSW Department of Environment and Climate Change (DECC).

Following the demerger of CSR Limited in 2003, the site now trades under the Readymix Humes brand, which is in turn owned by Rinker Australia Pty Ltd.

Readymix Humes (Readymix) are submitting an application under Section 96 of the Environmental Planning and Assessment Act 1979 (EP&A Act) for a modification to their conditions of consent. The conditions they seek to modify are the requirement to monitor Environmental Noise and Total Suspended Particulate (TSP) on an annual basis. Readymix propose a 3-yearly monitoring regime. This report supports the Section 96 Application.



### 2. SITE DESCRIPTION

The subject 'site' is located off the Pacific Highway at Possum Brush, south of Taree. The site is identified as Lot 2 in DP255621 and Lots 11, 12, 13, 14 and 15 DP790056 Parish of Beryan, Greater Taree City Council.

Figure 2-1 shows the quarry and surrounding locations.

Figure 2-1: Site Location and Surrounds

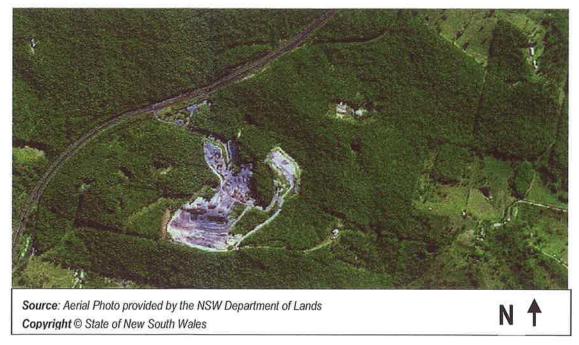
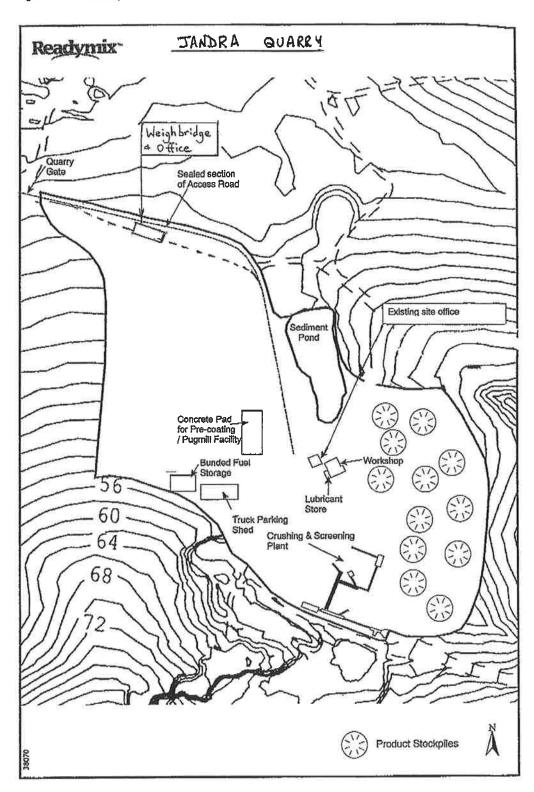


Figure 2-2 shows the layout of the quarry.

Issue No: 1



Figure 2-2: Site Map





### 3. REGULATORY CONSIDERATIONS

This application is made under the EP&A Act, Section 96 'Modifications of Consents', (1A) Modifications involving minimal environmental impact.

This modification is substantially the same development and is consistent with the original development consent. The proposed modification involves the modification of the conditions of consent from annual monitoring to 3 yearly monitoring for Environmental Noise and Total Suspended Particulate (TSP). The modification results in no change to the operation of the facility or the associated environmental impacts.

No change is sought to the site's Environment Protection Licence.



### 4. DETAILS OF THE S96 APPLICATION

#### 4.1 AIR QUALITY AND THE REQUIREMENT TO MONITOR TSP

Condition 16 of the consent conditions issued on 30<sup>th</sup> March 2000 for DA 231-10-99 (File No. G92/00678) reads as follows:

16. The applicant shall implement the air quality controls identified in the EIS and take all practicable steps to manage the quarry's operations so that no exceedances occur of the ambient air quality goals for total suspended particulates (TSP) of 90µg/m³ (annual average) and the dust deposition goal of 4 grams/m³ /month (annual average) when measured at any monitoring location specified in the EIS

Condition 43 reads as follows:

43. Monitoring of dust deposition and the concentration of total suspended particulate matter in ambient air must be carried out as described in the EIS.

The operational Environmental Management Plan (EMP) developed from the EIS specifies the following monitoring program:

 TSP monitoring to be undertaken annually for the first five years following commencement of operation. Results will then be discussed with EPA to determine future monitoring requirements.

Three locations for TSP monitoring are identified in the EMP.

No monitoring frequency is specified in the EPL.

Readymix request the modification of condition 16 and 43 to reflect 3-yearly monitoring. The existing environmental safeguards have resulted in no non-compliances in the last 6 years. Further details are provided in the following section. Readymix do not propose to change the ambient air quality goals of  $90\mu g/m^3$  (annual average) for total suspended particulates (TSP).

This request to change the conditions reflects the original purpose of specifying a five year period. The EPA (now DECC) have been contacted. DECC advised in correspondence dated 3 August 2007, provided in Attachment 1, that DECC has no comment to offer in respect of this proposal. The need for monitoring requirements do not exist in the EPL.

Readymix have clearly demonstrated compliance with the consent conditions and have in place the dust controls outlined in the EIS. The need for further monitoring does not exist and justifies replacement of Condition 43 to read:

43. Monitoring of dust deposition and the concentration of total suspended particulate matter in ambient air to be carried out 3 yearly on the basis of maintaining the current dust control practices.

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#### 4.2 REQUIREMENT TO MONITOR NOISE

Condition 44 of the consent conditions issued on 30<sup>th</sup> March 2000 for DA 231-10-99 (File No. G92/00678) reads as follows:

The levels of noise emitted from the premises must be monitored annually for 72 hours at the locations identified in the EIS (Table 6.1, page 6.4) or as agreed by the EPA.

No monitoring frequency is specified in the EPL. The noise limits given in the EPL specially relate to blasting operations. Readymix do not propose to modify these limits.

Readymix request the modification of condition 44 to reflect 3-yearly monitoring. The existing environmental safeguards have resulted in no non-compliances in the last 6 years and no residential complaints. Further details are provided in the following section. Readymix do not propose to change the environmental noise or blasting limits specified in either the EPL or the consent conditions.

It is requested that condition 44 be modified to read:

44. The levels of noise emitted from the premises be monitored on a 3 yearly basis for a period of 72 hours.



### 5. ENVIRONMENTAL SAFEGUARDS

#### 5.1 TSP COMPLIANCE HISTORY

Benbow Environmental (formerly trading as Dick Benbow & Associates) have been commissioned to undertake annual TSP compliance assessments since July 2002. TSP was assessed in 2001 by HLA-Envirosciences. The results from 2001 have been included in this correspondence to demonstrate the history of the site.

The selection of the monitoring locations was reviewed each year depending on property acquisition and the direction of the breeze. Residents more likely to be exposed to dust emissions were selected. The monitoring needs to have this approach so that it is of more use to the environmental management plan.

TSP sampling undertaken by Benbow Environmental were measured over a single 24 hour period and the results are shown in the Table below. The seven days of continuous monitoring nominated in the EMP would only be warranted if dust emissions were high or uncontrolled. This has not been evident during any of the sampling periods, and discussions with residents each year support this.

Table 5-1: Results of Dust Sampling					
Year	Minimum Concentration	Maximum Concentration	Average Concentration	Number of locations sampled	
August 2001*	35 μg/m³	73 μg/m³	49 μg/m³	3	
July 2002	8 μg/m <sup>3</sup>	17 μg/m <sup>3</sup>	13.3 μg/m <sup>3</sup>	3	
July 2003	6.9 μg/m³	53.2 μg/m <sup>3</sup>	43.7 μg/m <sup>3</sup>	3	
September 2004	7.7 μg/m³	7.7 μg/m³	7.7 μg/m <sup>3</sup>	1	
February 2006	<10 μg/m <sup>3</sup>	24.3 μg/m <sup>3</sup>	18.3 μg/m <sup>3</sup>	3	

**Notes:** \* Data taken from studies undertaken by HLA-Envirosciences. Where multiple sampling dates were recorded, figures reported above represent averages of measured values.

Condition 16 of the conditions of consent specifies ambient air quality for TSP of 90  $\mu$ g/m³ (annual average). For each of the five years sampled, all measurements are below the criteria of 90  $\mu$ g/m³. This is shown graphically in the following figure.



Readymix Jandra Quarry
TSP results

July 2002

September 2004

September 2004

Pebruary

February

Angust

Ang

Figure 5-1: Annual TSP Results

**Notes:** Concentrations shown are in  $\mu g/m^3$ . For February 2006 a value of 10  $\mu g/m^3$  (as the minimum concentration) was used for graphical purposes and to calculate the average.

Average

Consent conditions

#### 5.2 Noise compliance history

Minimum

Benbow Environmental (formerly trading as Dick Benbow & Associates) have been commissioned to undertake annual noise compliance assessments at the Jandra quarry since July 2002. Noise was assessed in 2001 by HLA-Envirosciences. The results from 2001 have been included in this correspondence to demonstrate the history of the site.

A combination of attended and unattended monitoring has been conducted each year.

Maximum

Section 7.4 of the site EMP addresses noise monitoring at the site and includes the following requirements:

- At the locations identified in the EIS being the YALA 3, Loveday and Jones locations;
- Received noise levels from quarry operations at the residences (L<sub>Aeq</sub>, 15 minute) should not exceed
  the rating background level (L<sub>A90</sub>, 15 minute) by more than 5 dB(A) or 50 dB(A) whichever is the
  lower.

The rating background level was determined by measuring the  $L_{A90}$ , 15 minute noise level where  $L_{A90}$  is the level of noise exceeded for 90% of the time and is the average of the minimum noise levels that occurred.

The  $L_{A90}$  results were used to set acoustic goals for each monitoring location using the  $L_{Aeq}$  level emitted from the quarry by adding 5 dB(A) to the minimum repeated  $L_{A90}$  in accordance with the DEC's Industrial Noise Policy.

# Readymix – Jandra Quarry Section 96 application



That is:

 $L_{Aeq} = L_{A90} + 5 dB(A)$ 

The acoustic goals used to assess compliance for the site are shown in the following table.

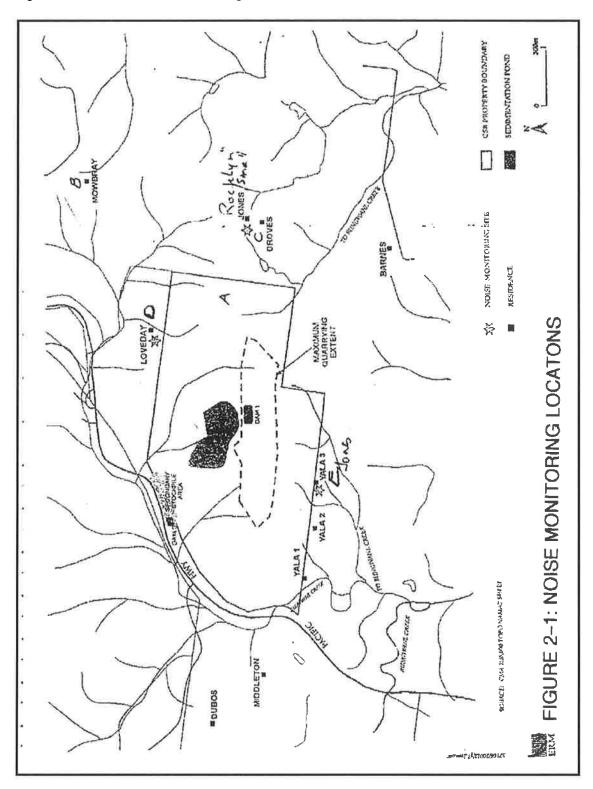
Table 5-2: Acoustic Goals	
Location	Acoustic Goal (L <sub>Aeq</sub> , 15 min)
B – Mowbray residence	42
C – "Rocklyn" (Jones)	40
D Loveday residence	42
E – Jones residence	42

Location E, D, and C correspond to the three locations specified in the EMP above (being YALA 3, Loveday and Jones respectively). The acoustic goal for the Loveday residence of  $42 \, dB(A) \, L_{Aeq}$  level was also applied to the Mowbray residence.

Figure 5-2 illustrates the environmental noise monitoring locations.



Figure 5-2: Environmental Noise Monitoring Locations





The noise measured during unattended and attended monitoring consists of noise from the quarry and noise from the environment, such as the Pacific Highway, birds chirping, wind rustling leaves and grass, frogs and other insects. From the observations during the attended monitoring it can be noted that the quarry was generally either reported as inaudible or no note of its contribution to the overall noise level could be made.

Thus it is considered that the upper limit of the quarry can be estimated to be 10 dB(A) below the background noise ( $L_{A90}$ ). Using this methodology, the noise levels from the quarry at each location have been reported in each annual compliance assessment and these are shown below.

Table 5-3: 2001 Estimated Quarry Noise Levels Compared to Acoustic Goals*				
Location	Estimated Noise Level	Acoustic Goal	Difference	Compliance
C – Rocklyn	37.5	40	-2.5	Yes
D – Loveday	39.0	42	-3.0	Yes
E – Jones	40.0	42	-2.0	Yes

Notes: \*Data for 2001 taken from studies undertaken by HLA-Envirosciences.

Table 5-4: 2002 Estimated Quarry Noise Levels Compared to Acoustic Goals				
Location	Estimated Noise Level	Acoustic Goal	Difference	Compliance
B – Mowbray	30	42	-12	Yes
C – Rocklyn	30	40	-10	Yes

Table 5-5: 2003 Estimated Quarry Noise Levels Compared to Acoustic Goals				
Location	Estimated Noise Level	Acoustic Goal	Difference	Compliance
B – Mowbray	27	42	-15	Yes
C – Rocklyn	27	40	-13	Yes
D - Loveday	34	42	-8	Yes
E – Jones	40	42	-2	Yes



Table 5-6: 2004 Estimated Quarry Noise Levels Compared to Acoustic Goals				
Location Estimated Noise Acoustic Goal Difference Compliance				
B – Mowbray	33	42	-9	Yes
C – Rocklyn	30	40	-10	Yes
D - Loveday	34	42	-8	Yes

During the attended monitoring in 2006 the quarry was inaudible at each location. However, at Loveday's (Location D) the hydraulic drill was audible at 42 dB(A) during changing of the drill rods when a "rattling" sound is audible. The pug mill was also inaudible.

Table 5-7: 2006 Estimated Quarry Noise Levels Compared to Acoustic Goals				
Location	Estimated Noise Level	Acoustic Goal	Difference	Compliance
D - Loveday	39	42	-3	Yes

For each of the five years sampled, all estimated noise levels from the quarry are below the acoustic goals.

#### 5.3 JUSTIFICATION

There have been no non-compliance results for TSP monitoring since 2001.

There have been no non-compliances of the acoustic goals for environmental noise monitoring conducted since 2001.

Discussions with the residents are positive for the site operations.

The DECC has expressed no objections to the proponent's intention to amend the conditions of consent for annual monitoring of environmental noise and TSP. Correspondence from the DECC can be found in the attachments.

The quarry operates using industry best practices and has demonstrated over a six year period that it readily satisfies conditions of consent relating to noise and dust emissions.

It is therefore a very reasonable request to alter conditions of consent requiring yearly monitoring of these emissions. Readymix desire to continue the monitoring, but on a 3 yearly interval as the annual basis is not necessary and provides no further protection to the residential community. Readymix have operated their activities without causing nuisance or complaints from the residential community, hence a 3 year monitoring period is a reasonable outcome.



#### 6. CONCLUSION

The operations of the Readymix Jandra Quarry are readily meeting their environmental requirements and are not causing a nuisance or detracting from the amenity of the residential areas.

The annual environmental studies carried out so far have found no non-compliances. The controls that are in place at the quarry and the daytime operating hours of the asphalt plant ensures compliance is being maintained for noise and TSP. The contact with the residential community during the monitoring has also been very favourable and positive feedback regarding the quarry has been received.

The DECC has expressed no objections to the proposal.

This concludes the Section 96 report.

Simone Sullivan

Projects Manager

R T Benbow

R7Below

**Principal Consultant** 



### 7. LIMITATIONS

Our services for this project are carried out in accordance with our current professional standards for site assessment investigations. No guarantees are either expressed or implied.

This report has been prepared solely for the use by Readymix – Jandra Quarry, as per our agreement for providing environmental assessment services. Although all due care has been taken in the preparation of this study, no warranty is given, nor liability accepted (except that required by law) in relation to the information contained within this document.

Readymix – Jandra Quarry is entitled to rely upon the findings in the report within the scope of work described in this report. No responsibility is accepted for the use of any part of the report in any other context or for any other purpose.

Opinions and judgements expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions.

**ATTACHMENTS** 

Attachment 1: DECC Letter Dated 3 August 2007

Your reference Our reference : 17022\_let2\_DECC

Our reference Contact : DOC 07/27495, File No. 271179A4 : Hamish Rutherford, (02) 4908 6823

Benbow Environmental PO Box 687 PARRAMATTA NSW 2124

- 3 AUG 2007

[7/ 207

Dear Sir/Madam

### JANDRA QUARRY - REQUEST TO MODIFY CONSENT

I write in reference to your letter to the Department of Environment and Climate Change (DECC) dated 11 July 2007 regarding the intention to submit an application to the Department of Planning to vary conditions of consent in respect of the Jandra Quarry, Pacific Highway, Possum Brush (Environment Protection Licence 2796).

I note that you intend applying to remove conditions of the development consent relating to environmental noise and ambient total suspended particulate (TSP) matter monitoring requirements.

As these monitoring requirements are not repeated within the Environment Protection Licence, and you do not intend varying the Environment Protection Licence, DECC has no comment to offer in respect of this proposal.

If you require any further information regarding this matter please contact Hamish Rutherford on (02) 4908 6823.

Yours sincerely

MARK HARTWELL

A/Head Regional Operations Unit

**North East Branch** 

Climate Change and Environment Protection

The Department of Environment and Conservation is now part of the Department of Environment and Climate Change

PO Box 488G, Newcastle NSW 2300 117 Bull Street, Newcastle West, NSW Tel: (02) 4908 6800 Fax: (02) 4908 6810 ABN 30 841 387 271 www.environment.nsw.gov.au

Department of Environment and Conservation NSW



Licence - 2796

Department of Environment & Climate Change NSW

**Licence Details** 

Number:

2796

Anniversary Date:

01-May

Review Due Date:

04-Nov-2010

Licensee

RINKER AUSTRALIA PTY LIMITED

**PO BOX 400** 

PARRAMATTA NSW 2124

**Licence Type** 

**Premises** 

**Premises** 

JANDRA QUARRY

PACIFIC HIGHWAY

POSSUM BRUSH NSW 2430

**Scheduled Activity** 

Crushing, Grinding or Separating Works

**Extractive Industries** 

**Fee Based Activity** 

Hard-Rock Gravel Quarrying (36)

<u>Scale</u>

> 100000 - 500000 T obtained

Region

North East - Hunter

Ground Floor, NSW Govt Offices, 117 Bull Street

NEWCASTLE WEST NSW 2302

Phone: 02 49086800 Fax: 02 49086810

PO Box 488G NEWCASTLE

NSW 2300

Licence - 2796



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Department of Environment & Climate Change NSW



Li	icei	nce	_	27	796

GENER	RAL CONDITIONS	. 14			
G1	Copy of licence kept at the premises	. 14			
	ITION STUDIES AND REDUCTION PROGRAMS				
	Not applicable.				
	PECIAL CONDITIONS				
	Not applicable.				
	ICTIONARY				
	General Dictionary				

Licence - 2796



### Information about this licence

#### **Dictionary**

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

#### Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

ensure persons associated with you comply with this licence, as set out in section 64 of the Act; control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act); and

report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

#### Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

#### **Duration of licence**

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

#### Licence review

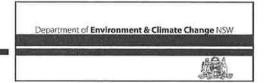
The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

#### Fees and annual return to be sent to the EPA

For each licence fee period you must pay: an administrative fee; and a load-based fee (if applicable).

The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees.

Licence - 2796



The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

#### Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

#### Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

licence applications;

licence conditions and variations;

statements of compliance;

load based licensing information; and

load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

#### This licence is issued to:

RINKER AUSTRALIA PTY LIMITED PO BOX 400 PARRAMATTA NSW 2124

subject to the conditions which follow.

### 1 Administrative conditions

#### A1 What the licence authorises and regulates

- A1.1 Not applicable.
- A1.2 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, feebased activity classification and the scale of the operation.

Licence - 2796



Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

#### **Scheduled Activity**

Crushing, Grinding or Separating Works

**Extractive Industries** 

Fee Based Activity	Scale
Hard-Rock Gravel Quarrying (36)	> 100000 - 500000 T obtained

A1.3 Not applicable.

### A2 Premises to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
JANDRA QUARRY
PACIFIC HIGHWAY
POSSUM BRUSH

NSW

2430

LOT 2 DP255621, LOTS 11, 12, 13, 14, 15

DP790056

#### A3 Other activities

A3.1 Not applicable.

Licence - 2796



### A4 Information supplied to the EPA

A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- (a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- (b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

## 2 Discharges to air and water and applications to land

### P1 Location of monitoring/discharge points and areas

- P1.1 Not applicable.
- P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.
- P1.3 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

#### Water and land

EPA identi- fication	Type of monitoring point	Type of discharge point	Description of location
no. 1	Discharge quality monitoring	Discharge quality monitoring	Discharge from final sediment dam as shown in the CSR Readymix Site Photo - Jandra Quarry Water Monitoring Location Figure 1 provided to the EPA 13 May 2002

### 3 Limit conditions

#### L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

Department of Environment & Climate Change NSW

Licence - 2796

#### L2 Load limits

- L2.1 Not applicable.
- L2.2 Not applicable.

#### L3 Concentration limits

- L3.1 For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L3.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L3.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\s.

#### Water and Land

#### POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile Concentration Limit
рН	pH				6.5-8.5
Total suspended solids	mg/L				50

#### L4 Volume and mass limits

L4.1 Not applicable.

#### L5 Waste

L5.1 Not applicable.

#### L6 Noise Limits

L6.1 The airblast overpressure level from blasting operations in or on the premises must not exceed:

Department of Environment & Climate Change NSW

Licence - 2796

- (a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period;and
- (b) 120 dB (Lin Peak) at any time.

At any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital.

- L6.2 The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed:
  - (a) 5mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period; and
  - (b) 10 mm/s at any time.

At any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital. .

- L6.3 To determine compliance with condition(s) L6.1 and L6.2:
  - (a) Airblast overpressure and ground vibration levels must be measured at any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital - for all blasts carried out in or on the premises; and
  - (b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard 2187.2 of 1993.

## 4 Operating conditions

#### O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- (a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- (b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

#### O2 Maintenance of plant and equipment

- O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
  - (a) must be maintained in a proper and efficient condition; and
  - (b) must be operated in a proper and efficient manner.

#### O3 Dust Control

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust

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from the premises.

## 5 Monitoring and recording conditions

#### M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
  - (a) in a legible form, or in a form that can readily be reduced to a legible form;
  - (b) kept for at least 4 years after the monitoring or event to which they relate took place; and
  - (c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
  - (a) the date(s) on which the sample was taken;
  - (b) the time(s) at which the sample was collected;
  - (c) the point at which the sample was taken; and
  - (d) the name of the person who collected the sample.

### M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

#### Water and Land

#### POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Total suspended solids	mg/L	2 times daily during discharge	Grab sample
Turbidity	NTU	2 times daily during discharge	Grab sample
pH	pН	Each overflow event	Grab sample

#### M3 Testing methods - concentration limits

- M3.1 Not applicable.
- M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with

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the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

#### M4 Recording of pollution complaints

- M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M4.2 The record must include details of the following:
  - (a) the date and time of the complaint;
  - (b) the method by which the complaint was made;
  - (c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
  - (d) the nature of the complaint;
  - (e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
  - (f) if no action was taken by the licensee, the reasons why no action was taken.
- M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

### M5 Telephone complaints line

- M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M5.3 Conditions M5.1 and M5.2 do not apply until 3 months after:
  - (a) the date of the issue of this licence or
  - (b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

#### M6 Requirement to monitor volume or mass

M6.1 Not applicable.

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#### M7 Requirement to monitor weather

- M7.1 Rainfall at the premises must be measured and recorded in millimetres per 24 hour period, at the same time each day.
- Note: The rainfall monitoring data collected in compliance with Condition M7 will assist in interpreting the effectiveness of stormwater management at the quarry.

## 6 Reporting conditions

#### R1 Annual return documents

#### What documents must an Annual Return contain?

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
  - (a) a Statement of Compliance; and
  - (b) a Monitoring and Complaints Summary.

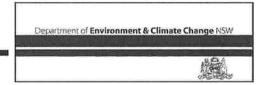
A copy of the form in which the Annual Return must be supplied to the EPA accompanies this licence. Before the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

#### Period covered by Annual Return

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
  - (a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
  - (b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.
- Note: An application to transfer a licence must be made in the approved form for this purpose.
- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
  - (a) in relation to the surrender of a licence the date when notice in writing of approval of the surrender is given; or
  - (b) in relation to the revocation of the licence the date from which notice revoking the licence operates.

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#### **Deadline for Annual Return**

R1.5 The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

#### Notification where actual load can not be calculated

R1.6 Not applicable.

#### Licensee must retain copy of Annual Return

R1.7 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

#### Certifying of Statement of Compliance and signing of Monitoring and Complaints Summary

- R1.8 Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
  - (a) the licence holder; or
  - (b) by a person approved in writing by the EPA to sign on behalf of the licence holder.
- R1.9 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

#### R2 Notification of environmental harm

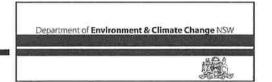
- Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.
- R2.1 Notifications must be made by telephoning the EPA's Pollution Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

#### R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
  - (a) where this licence applies to premises, an event has occurred at the premises; or
  - (b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,

and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

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- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
  - (a) the cause, time and duration of the event;
  - (b) the type, volume and concentration of every pollutant discharged as a result of the event;
  - (c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
  - (d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
  - (e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
  - (f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
  - (g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

### General conditions

- G1 Copy of licence kept at the premises
- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

### Pollution studies and reduction programs

U1 Not applicable.

### **Special conditions**

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E2

Not applicable.

## **Dictionary**

### **General Dictionary**

In this licence, unless the contrary is indicated, the terms below have the following meanings:

,	mode and definiting to maleated, the terms below have the fellowing meaninger
3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991

Means Environment Protection Authority of New South Wales.

**EPA** 

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fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 1998.
flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
industrial waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
inert waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
reprocessing of waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997

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solid waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

TM Together with a number, means a test method of that number prescribed by the Approved Methods for the

Sampling and Analysis of Air Pollutants in New South Wales.

treatment of waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

TSP Means total suspended particles

TSS Means total suspended solids

Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or Type 1 substance

more of those elements

Type 2 substance Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any

compound containing one or more of those elements

utilisation area Means any area shown as a utilisation area on a map submitted with the application for this licence

waste Has the same meaning as in the Protection of the Environment Operations Act 1997

waste code Means the waste codes listed in Appendix 5 of the EPA document A Guide to Licensing Part B.

Means Group A, Group B, Group C, inert, solid, industrial or hazardous waste waste type

Mr Nigel Sargent

**Environment Protection Authority** 

(By Delegation)

Date of this edition - 08-Feb-2005

### **End Notes**

- Licence varied by notice 1006152, issued on 21-Feb-2002, which came into effect on 1 18-Mar-2002.
- Licence varied by notice 1016675, issued on 20-Jun-2002, which came into effect on 2 15-Jul-2002.
- Licence transferred through application 141653, approved on 19-Dec-2002, which came into 3 effect on 01-Oct-2002.

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## **End Notes**

Licence varied by notice 1042128, issued on 14-Jan-2005, which came into effect on 08-Feb-2005.