

# Development Consent

## Section 89E of the *Environmental Planning and Assessment Act 1979*

As delegate of the Minister for Planning, the Planning Assessment Commission of NSW approves the development application referred to in Schedule 1, subject to the conditions in Schedules 2 to 5.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the on-going environmental management of the development.

**Member of the Commission**

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Sydney

2016

### SCHEDULE 1

<b>Application Number:</b>	SSD 7090
<b>Applicant:</b>	Gunlake Quarries Pty Ltd
<b>Consent Authority:</b>	Minister for Planning
<b>Land:</b>	Lot 13 of DP 1123374 (715 Brayton Road, Brayton)
<b>Development:</b>	Gunlake Quarry Extension Project

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## DEFINITIONS

Aboriginal item or object	Any item or object that provides evidence of the use of an area by Aboriginal people, as defined under the <i>National Parks and Wildlife Act 1974</i>
AHD	Australian Height Datum
Annual Review	The review required by condition 9 of Schedule 5
Applicant	Gunlake Quarries Pty Ltd, or any other person/s who rely on this consent to carry out the development that is subject to this consent
BCA	Building Code of Australia
Biodiversity offset strategy	The conservation and enhancement strategy described in the EIS
CCC	Community Consultative Committee
Conditions of consent	Conditions contained in Schedules 2 to 5 inclusive
Construction	The demolition of buildings or works, carrying out of works and erection of buildings covered by this consent
Council	Goulburn Mulwaree Council
Cured concrete waste	Cured concrete waste from a batch plant as defined in clause 49, Definitions of waste classifications, in Schedule 1 of the <i>POEO Act</i> , as in force from time to time
Day	The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays
Department	Department of Planning and Environment
Development	The development as described in the documents listed in condition 2(a) of Schedule 2
DPI Water	Department of Primary Industries – Water
DPI Fisheries	Department of Primary Industries – Fisheries
DRE	Division of Resources and Energy within the NSW Department of Industry
EEC	Endangered Ecological Community
EIS	Environmental Impact Statement titled <i>Gunlake Quarry Extension Project</i> , dated April 2016 and prepared by EMM, and the Response to Submissions report titled <i>Gunlake Quarry Extension Project Response to Submissions</i> , dated September 2016 and prepared by EMM
EPA	NSW Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPL	Environment Protection Licence under the <i>POEO Act</i>
Evening	The period from 6pm to 10pm
Feasible	Feasible relates to engineering considerations and what is practical to build
GPS	Global Positioning System
Incident	A set of circumstances that: <ul style="list-style-type: none"> <li>• causes or threatens to cause material harm to the environment; and/or</li> <li>• breaches or exceeds the limits or performance measures/criteria in this consent</li> </ul> <i>NSW Industrial Noise Policy</i> (NSW EPA, 2000)
INP	
Laden trucks	Trucks transporting quarry products from the site and/or trucks transporting cured concrete waste to the site
Land	As defined in the EP&A Act, except where the term is used in the noise and air quality conditions in Schedules 3 and 4 of this consent, where it is defined as the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this consent
Material harm to the environment	Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial
Minister	Minister for Planning, or delegate
Mitigation	Activities associated with reducing the impacts of the development
Negligible	Small and unimportant, such as to be not worth considering
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays
OEH	Office of Environment and Heritage
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Primary transport route	Route from the site along Brayton Road, Ambrose Road and Red Hills Road
Privately-owned land	Land that is not owned by a public agency, the Applicant (or its subsidiary) or another quarry-owning company
Public infrastructure	Linear and other infrastructure that provides services to the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc.
Quarrying operations	The extraction, processing, stockpiling and transportation of extractive materials carried out on the site, the associated removal of vegetation, topsoil and overburden, and the associated emplacement of overburden
Quarry products	Includes all saleable quarry products, but excludes tailings and other wastes
Reasonable	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements
Rehabilitation	The restoration of land disturbed by the development to a good condition and for the purpose of establishing a safe, stable and non-polluting environment

RMS	Roads and Maritime Services
Secondary transport route	Route from the site to the Marulan interchange on the Hume Highway, along Brayton Road, across George Street, and under the Hume Highway
Secretary	Secretary of the Department, or nominee
Site	The land identified in Schedule 1
Truck movements	Truck movements mean heavy vehicle one-way trips, either entering or leaving the site

## **SCHEDULE 2 ADMINISTRATIVE CONDITIONS**

### **OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT**

1. In addition to meeting the specific performance measures and criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.

### **TERMS OF CONSENT**

2. The Applicant must carry out the development:
  - (a) generally in accordance with the EIS; and
  - (b) in accordance with the conditions of this consent, the Development Layout Plan and the Statement of Commitments.

*Notes: The Development Layout Plan is included in Appendix 1  
The Statement of Commitments is included in Appendix 2*

3. If there is any inconsistency between the documents in condition 2(a), the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail over all documents in condition 2(a) to the extent of any inconsistency.
4. The Applicant must comply with any requirement/s of the Secretary arising from the Department's assessment of:
  - (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents);
  - (b) any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this consent; and
  - (c) the implementation of any actions or measures contained in these documents.

### **LIMITS ON CONSENT**

#### **Quarrying Operations**

5. The Applicant may carry out quarrying operations on the site until 31 December 2046.

*Note: Under this consent, the Applicant is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Secretary. Consequently, this consent will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of the site and those undertakings have been carried out to a satisfactory standard.*

6. The Applicant must not undertake quarrying operations below a level of 572 m AHD.
7. The Applicant must not transport more than 2 million tonnes of quarry products from the site in any calendar year.
8. The Applicant must not receive more than 30,000 tonnes of cured concrete waste on the site in any calendar year. The volume of cured concrete waste held on site at any one time must not exceed 2,500 tonnes. No other material classified as waste under the *EPA Waste Classification Guidelines 2014* (or its latest version) may be received on site.

#### **Quarry Product Transport**

9. The Applicant must limit truck movements to:
  - (a) no more than 440 movements, including 25 movements on the secondary transport route, both to and from the site per day (averaged over each calendar month); and
  - (b) a maximum of 590 movements, including a maximum of 38 truck movements on the secondary transport route, both to and from the site on any day.

*Note: In this condition, 'day' is defined as any working day on which the Applicant may load and despatch trucks (see condition 4 of Schedule 3).*

### **NOTIFICATION OF COMMENCEMENT**

10. Prior to commencing development under this consent, the Applicant must notify the Department in writing of the date on which it will commence development permitted under this consent.

## **SURRENDER OF EXISTING DEVELOPMENT CONSENTS**

11. Within 4 months of commencing development under this consent, or as otherwise agreed by the Secretary, the Applicant must surrender the project approval MP 07\_0074 for the Gunlake Quarry granted on 24 September 2008, in accordance with the EP&A Regulation.

*Note: This requirement does not extend to the surrender of construction and occupation certificates for existing and proposed building works under Part 4A of the EP&A Act. The surrender of the project approval should not be understood as implying that works legally constructed can no longer be legally maintained or used.*

12. Following the commencement of development under this consent, the conditions of this consent shall prevail to the extent of any inconsistency with the conditions of project approval MP 07\_0074.

## **STRUCTURAL ADEQUACY**

13. The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

*Notes:*

- Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works; and
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the development or project.

## **DEMOLITION**

14. The Applicant must ensure that all demolition work is carried out in accordance with *Australian Standard AS 2601-2001: The Demolition of Structures*, or its latest version.

## **PROTECTION OF PUBLIC INFRASTRUCTURE**

15. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:
- (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and
  - (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.

*Note: This condition does not apply to damage to roads caused as a result of general road usage or otherwise addressed by contributions required by condition 21 of Schedule 2.*

## **OPERATION OF PLANT AND EQUIPMENT**

16. The Applicant must ensure that all the plant and equipment used at the site is:
- (a) maintained in a proper and efficient condition; and
  - (b) operated in a proper and efficient manner.

## **PRODUCTION DATA**

17. The Applicant must:
- (a) provide annual quarry production data to DRE using the standard form for that purpose; and
  - (b) include a copy of this data in the Annual Review.

## **IDENTIFICATION OF APPROVED EXTRACTION LIMITS**

18. Prior to commencing quarrying operations under this consent, the Applicant must:
- (a) engage a registered surveyor to mark out the boundaries of the approved disturbance area; and
  - (b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.
19. While quarrying operations are being carried out, the Applicant must ensure that the boundaries of the approved disturbance areas are clearly marked at all times in a manner that allows operating staff to clearly identify these approved limits.
20. The Applicant must ensure that:
- (a) no quarrying operations take place outside the approved disturbance area; and
  - (b) the haul road between the extraction area and western overburden emplacement area is clearly marked at all times, has the minimum width required for safe hauling operations, and includes erosion and sedimentation measures to minimise impacts from the use of the road on Chapmans Creek.

*Note: The approved disturbance area includes the extraction area, the overburden emplacement areas, the infrastructure area, haul roads and ancillary areas required to carry out the development.*

#### **CONTRIBUTIONS TO COUNCIL**

21. The Applicant must pay to Council an annual financial contribution toward the maintenance of Council-owned roads along its primary and secondary transport routes. The contribution must be determined in accordance with the *Goulburn Mulwaree s94 Development Contributions Plan 2009*, or any subsequent relevant contributions plan adopted by Council.
22. Following commencement of development under this consent, the contribution must be paid to Council within one month of the anniversary of the date of this consent each year and reported in the Annual Review.

## SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

### NOISE

#### Acquisition upon Request

1. Upon receiving a written request from the owner of the land listed in Table 1, the Applicant must acquire the land in accordance with condition 5 of Schedule 4.

*Table 1: Land subject to acquisition upon request*

<b>Acquisition Basis</b>	<b>Land</b>
Noise	R2

*Note: The location of the residence referred to in Table 1 is shown on the figure in Appendix 3.*

#### Additional Mitigation upon Request

2. Upon receiving a written request from the owner of any residence listed in Table 2, the Applicant must implement additional mitigation measures at the residence, in consultation with the landowner.

*Table 2: Land subject to additional mitigation upon request*

<b>Mitigation Basis</b>	<b>Residence</b>
Noise	R2, R7

*Note: The location of the residences referred to in Table 2 is shown on the figure in Appendix 3.*

These measures must be reasonable and feasible, and directed towards reducing the noise impacts of the development on the residence. Mitigation may include measures such as double-glazing, insulation and/or air conditioning.

If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.

#### Enclosure of Primary Crusher

3. The Applicant must achieve at least a 5 dB(A) reduction in the measured sound power level of the primary crusher by enclosing the crusher within four months of commencing development under this consent and prior to operating the primary crusher outside the hours of 7 am to 6 pm Monday to Saturday.

The Applicant must engage a suitably qualified and experienced acoustical practitioner to measure the sound power level of the primary crusher before and after constructing the enclosure to demonstrate that the enclosure has resulted in a 5 dB(A) sound power level reduction. A report from the acoustical practitioner must be provided to the Secretary within 30 days of constructing the enclosure.

#### Hours of Operation

4. The Applicant must comply with the operating hours set out in Table 3.

*Table 3: Operating Hours*

<b>Activity</b>	<b>Permissible Hours</b>
Construction	<ul style="list-style-type: none"> <li>• 7 am to 6 pm Monday to Friday</li> <li>• 8 am to 1 pm Saturday</li> <li>• At no time on Sunday or public holidays</li> </ul>
Blasting	<ul style="list-style-type: none"> <li>• 9 am to 5 pm Monday to Friday</li> <li>• At no time on Saturday, Sunday or public holidays</li> </ul>
Quarrying operations (excluding overburden removal/emplacement and drilling)	<ul style="list-style-type: none"> <li>• 24 hours a day but not between 6 pm Saturday and 2 am Monday</li> <li>• At no time on Sunday or public holidays</li> </ul>
Overburden removal/emplacement and drilling	<ul style="list-style-type: none"> <li>• 7 am to 6 pm Monday to Saturday</li> <li>• At no time on Sunday or public holidays</li> </ul>
Loading and dispatching	<ul style="list-style-type: none"> <li>• 24 hours a day but not between 6 pm Saturday and 2 am Monday</li> </ul>



	<ul style="list-style-type: none"> <li>At no time on Sunday or public holidays</li> </ul>
Transportation on the primary transport route	<ul style="list-style-type: none"> <li>24 hours a day but not between 6 pm Saturday and 2 am Monday</li> <li>At no time on Sunday or public holidays</li> </ul>
Transportation on the secondary transport route	<ul style="list-style-type: none"> <li>6 am to 7 pm Monday to Saturday</li> <li>At no time on Sunday or public holidays</li> </ul>
Maintenance	<ul style="list-style-type: none"> <li>At any time provided that the activity is not audible at any privately-owned residence</li> </ul>

5. The following activities may be carried out on the site outside the hours specified in condition 3:
- delivery or dispatch of materials as requested by Police or other authorities; and
  - emergency work to avoid the loss of lives, property and/or to prevent environmental harm.

In such circumstances, the Applicant must notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.

### Noise Impact Assessment Criteria

6. The Applicant must ensure that operational noise generated by the development does not exceed the criteria in Table 4 at any residence on privately-owned land.

Table 4: Noise criteria dB(A)

Receiver	Day <i>L<sub>Aeq</sub></i> (15 minute)	Evening <i>L<sub>Aeq</sub></i> (15 minute)	Night	
			<i>L<sub>Aeq</sub></i> (15 minute)	<i>L<sub>A1</sub></i> (1 minute)
R7	38	38	38	45
R8	37	37	37	45
All other privately-owned residences	35	35	35	45

Note: Receiver locations referred to in Table 4 are shown on the figure in Appendix 3

Noise generated by the development is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the *NSW Industrial Noise Policy*. Appendix 4 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.

However, the noise criteria in Table 4 do not apply if the Applicant has an agreement with the relevant landowner to exceed the noise criteria, and the Applicant has advised the Department in writing of the terms of this agreement.

### Operating Conditions

7. The Applicant must:
- implement best practice management to minimise the construction, operational and road transportation noise of the development, particularly during the evening and night periods;
  - minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 4);
  - carry out quarterly attended noise monitoring, unless otherwise agreed by the Secretary, to determine whether the development is complying with the relevant conditions of this consent; and
  - regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent,
- to the satisfaction of the Secretary.

Note: Required frequency of noise monitoring may be reduced if approved by the Secretary.

### Noise Management Plan

8. The Applicant must prepare a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:
- be prepared in consultation with the EPA;
  - be submitted to the Secretary within six months of commencing development under this consent, unless otherwise agreed by the Secretary;
  - describe the measures that would be implemented to ensure:
    - compliance with the noise criteria in this consent;
    - best practice noise management is being employed;
    - noise impacts of the development are minimised during meteorological conditions under which the noise criteria in this consent do not apply (see Appendix 4); and

- best practice management is being employed to minimise the noise impacts on the primary transport route and the secondary transport route;
- (d) describe the proposed noise management system; and
- (e) include a monitoring program to be implemented to measure noise from the development against the noise criteria in Table 4, and which evaluates and reports on the effectiveness of the noise management system on site.

The Applicant must implement the approved Noise Management Plan as approved from time to time by the Secretary.

### Traffic Noise Compliance Assessment

9. A noise compliance assessment of the traffic noise impacts of the project must be undertaken within two months of annual dispatches of quarry products exceeding 1 million, 1.5 million and 1.9 million tonnes. The assessment must be conducted by a suitably qualified and experienced acoustical practitioner and must assess compliance of the traffic noise impacts against the predictions in the EIS and relevant road noise criteria. The traffic noise compliance assessment reports must be provided to the Department within 1 month of each assessment.

### BLASTING

#### Blasting Impact Assessment Criteria

10. The Applicant must ensure that blasting on site does not cause any exceedance of the criteria in Table 5.

Table 5: Blasting Criteria

Receiver	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance
Any residence on privately-owned land	120	10	0%
	115	5	5% of the total number of blasts over a period of 12 months

However, these criteria do not apply if the Applicant has a written agreement with the relevant owner to exceed the limits in Table 3, and the Applicant has advised the Department in writing of the terms of this agreement.

#### Blasting Frequency

11. The Applicant may carry out a maximum of 2 blasts per week, unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of the quarry or workers on site.

*Note: For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the quarry.*

#### Operating Conditions

12. During blasting operations, the Applicant must:
- implement best practice management to:
    - protect the safety of people and livestock in the areas surrounding blasting operations;
    - protect public or private infrastructure/property in the surrounding area from damage from blasting operations and
    - minimise the dust and fume emissions of blasting;
  - operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site;
  - co-ordinate the timing of blasting on site with the timing of blasting at Johnniefields quarry and Lynwood quarry to minimise potential cumulative blasting impacts of the three quarries; and
  - carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, to the satisfaction of the Secretary.

#### Blast Management Plan

13. The Applicant must prepare a Blast Management Plan for the development to the satisfaction of the Secretary. This plan must:

- (a) be submitted to the Secretary for approval within six months of commencing development under this consent, unless otherwise agreed by the Secretary;
- (b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this consent;
- (c) include measures to manage flyrock;
- (d) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent;
- (e) include a protocol for investigating and responding to complaints; and.
- (f) include community notification procedures for blasting, which includes:
  - (i) a notification process to alert any resident who registers an interest in the blasting schedule to be notified at least 24 hours in advance of each blast;
  - (ii) a blasting hotline, or alternative system agreed to by the Secretary, to enable the public to obtain up-to-date information on blasting operations; and
  - (iii) information on how the public will be kept informed of the hotline, or any alternative system.

The Applicant must implement the approved Blast Management Plan as approved from time to time by the Secretary.

## AIR QUALITY

### Air Quality Impact Assessment Criteria

14. The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 6 at any residence on privately-owned land.

Table 6: Air quality criteria

Pollutant	Averaging Period	Criterion
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	a,d 30 µg/m <sup>3</sup>
Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	b 50 µg/m <sup>3</sup>
Total suspended particulates (TSP)	Annual	a,d 90 µg/m <sup>3</sup>
<sup>c</sup> Deposited dust	Annual	b 2 g/m <sup>2</sup> /month      a,d 4 g/m <sup>2</sup> /month

Notes to Table 6:

a Cumulative impact (ie increase in concentrations due to the development plus background concentrations due to all other sources).

b Incremental impact (ie increase in concentrations due to the development alone, with zero allowable exceedances of the criteria over the life of the development).

c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.

d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.

e "Reasonable and feasible avoidance measures" includes, but is not limited to, the operational requirements in conditions 14, 15 and 16 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.

### Operating Conditions

15. The Applicant must:
- (a) implement best practice management to minimise the dust emissions of the development;
  - (b) regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this consent;
  - (c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d under Table 6);
  - (d) monitor and report on compliance with the relevant air quality conditions in this consent; and
  - (e) minimise the area of surface disturbance and undertake progressive rehabilitation of the site, to the satisfaction of the Secretary.

### Air Quality Management Plan

16. The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:

- (a) be prepared in consultation with the EPA;
- (b) be submitted to the Secretary for approval within six months of commencing development under this consent, unless otherwise agreed by the Secretary;
- (c) describe the measures that would be implemented to ensure:
  - compliance with the relevant conditions of this consent;
  - best practice management is being employed; and
  - the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events;
- (d) describe the proposed air quality management system, including a minimum of two High Volume Air Samplers in locations agreed to by the EPA;
- (e) include an air quality monitoring program that:
  - is capable of evaluating the performance of the development;
  - includes a protocol for determining any exceedances of the relevant conditions of consent;
  - effectively supports the air quality management system; and
  - evaluates and reports on the adequacy of the air quality management system.

The Applicant must implement the approved Air Quality Management Plan as approved from time to time by the Secretary.

#### **Quarry-owned Land**

17. The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 6 at any occupied residence on quarry-owned land unless:
- (a) the tenant has been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this consent; and
  - (b) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice, to the satisfaction of the Secretary.

#### **Meteorological Monitoring**

18. For the life of the development, the Applicant must ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the *Approved Methods for Sampling of Air Pollutants in New South Wales* guideline.

#### **Greenhouse Gas Emissions**

19. The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.

#### **SOIL AND WATER**

##### **Water Supply**

20. The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of operations under the consent to match its available water supply, to the satisfaction of the Secretary.

*Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain all necessary water licences for the development.*

##### **Water Discharges**

21. The Applicant must comply with the discharge limits in any EPL, or with section 120 of the POEO Act.

##### **Soil and Water Management Plan**

22. The Applicant must prepare a Soil and Water Management Plan for the development to the satisfaction of the Secretary. This plan must:
- (a) be prepared by suitably qualified and experienced person/s approved by the Secretary;
  - (b) be prepared in consultation with the EPA, WaterNSW and DPI Water;
  - (c) be submitted to the Secretary for approval within six months of commencing development under this consent, unless otherwise agreed by the Secretary;
  - (d) include a:
    - (i) Site Water Balance that includes:
      - details of:

- sources and security of water supply;
  - water use and management on site;
  - any off-site water transfers; and
  - reporting procedures; and
- measures that would be implemented to minimise clean water use on site;
- (ii) Erosion and Sediment Control Plan that:
  - is consistent with the requirements of the Landcom's *Managing Urban Stormwater: Soils and Construction* manual;
  - identifies activities that could cause soil erosion and generate sediment;
  - describes measures to minimise soil erosion and the potential for the transport of sediment to downstream waters, including for the haul road between the extraction area and the western emplacement area;
  - describes the location, function, and capacity of erosion and sediment control structures, including for the haul road between the extraction area and the western emplacement area; and
  - describes what measures would be implemented to maintain (and if necessary decommission) the structures over time.
- (iii) Surface Water Management Plan, that includes:
  - detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development;
  - surface water impact assessment criteria;
  - a protocol for managing any exceedances of the surface water impact assessment criteria;
  - a detailed description of the surface water management system on site including the:
    - clean water diversion system;
    - dirty water management system;
    - water storages, including their capacity to contain dirty water during flood events;
    - irrigation areas; and
    - design of creek and stream crossings; and
  - a program to monitor and report on:
    - the effectiveness of the water management system in ensuring that the development has a neutral or beneficial effect on downstream receiving waters;
    - channel stability of the watercourses on the site;
    - surface water flows and quality in watercourses on the site;
    - surface water discharges from the site, including provisions for sampling of water quality during discharge events;
    - the impact of the irrigation areas on water quality;
  - details of the on-site waste water management system, including the effluent disposal area, that demonstrates there is adequate capacity for the wastewater loads generated by the development;
- (iv) Groundwater Management Plan that includes:
  - detailed baseline data on groundwater levels, flows and quality in the region;
  - groundwater impact assessment criteria for monitoring bores;
  - a program to monitor:
    - groundwater levels and quality on the site;
    - the impacts of the development on any groundwater dependent ecosystems;
    - the impacts of the development on any groundwater bores, springs and seeps on privately-owned land; and
  - a protocol for the investigation of identified exceedances of the groundwater impact assessment criteria.

The Applicant must implement the approved Soil and Water Management Plan as approved from time to time by the Secretary.

## TRANSPORT

### Monitoring of Product Transport

23. The Applicant must keep accurate records of all truck movements to and from the site (including time of arrival and dispatch) and publish a summary of records, which includes daily maximum and calendar month averages, on its website every 6 months.

*Note: See condition 9 of Schedule 2 for the minimum relevant daily maximum and monthly averages.*

## **Operating Conditions**

24. The Applicant must:
- (a) ensure that all laden trucks entering or exiting the site have their loads covered, with the exception of loads consisting solely of boulders greater than one tonne in weight;
  - (b) ensure that all laden trucks exiting the site are cleaned of material that may fall on the road, before leaving the site; and
  - (c) use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport quarry product from the development so they can be easily identified by road users.

## **Traffic Management Plan**

25. The Applicant must prepare a Traffic Management Plan for the development to the satisfaction of the Secretary. This plan must:
- (a) be prepared in consultation with the RMS and Council;
  - (b) be submitted to the Secretary for approval before commencing development under this consent, unless otherwise agreed by the Secretary;
  - (c) describe the measure that would be implemented to avoid dispatching and/or receiving large groups or convoys of laden trucks from the site onto public roads;
  - (d) include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers transporting products to and from the quarry (particularly on the primary and secondary transport routes) and on safe merging practices at the intersection of Red Hills Road and the Hume Highway;
  - (e) describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct; and
  - (f) include measures to minimise the transmission of dust and tracking of material onto the surface of the public road from vehicles leaving the quarry.

The Applicant must implement the approved Traffic Management Plan as approved from time to time by the Secretary.

## **Primary Transport Route**

26. The Applicant must implement and complete all elements of its Statement of Commitments (see Appendix 2) relating to the:
- (a) Hume Highway intersection acceleration lane - prior to transporting more than 62,500 tonnes per calendar month of quarry products from the site and to the satisfaction of the Secretary and RMS; and
  - (b) local road upgrades and corrective actions recommended in the Road Safety Audit - prior to transporting more than 62,500 tonnes per calendar month of quarry products from the site and to the satisfaction of the Secretary and Council,
- unless otherwise agreed by the Secretary.

*Note: 62,500 tonnes per calendar month is the monthly equivalent of 750,000 tonnes per annum, the consented limit under project approval MP 07\_0074.*

27. The Applicant must install and operate a video camera at the intersection of Red Hills Road and the Hume Highway, to the satisfaction of the Secretary. The Applicant must install the camera prior to commencing quarrying operations under this consent and operate the camera until the Hume Highway intersection acceleration lane is constructed and fully operational. The camera must be located in a fixed position with a field of view that accurately records heavy vehicles (including truck identification numbers) merging from Red Hills Road to travel north along the Hume Highway. Recordings from the camera must be examined weekly by the Applicant to ensure safe merging practices at the intersection, securely stored for at least 60 days and made available to the Department and RMS on request.

## **ABORIGINAL HERITAGE**

### **Aboriginal Heritage Management Plan**

28. The Applicant must prepare an Aboriginal Heritage Management Plan for the development to the satisfaction of the Secretary. The plan must:
- (a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;
  - (b) be prepared in consultation with OEH and the Registered Aboriginal Parties;
  - (c) be submitted to the Secretary for approval within six months of commencing development under this consent, unless the Secretary agrees otherwise; and
  - (d) include a description of the measures that would be implemented to:
    - (i) protect, monitor and manage known sites of archaeological significance;

- (ii) manage any new Aboriginal objects or relics that are discovered;
- (iii) store Aboriginal heritage items salvaged on site; and
- (iv) ensure ongoing consultation and involvement of the Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site.

## BIODIVERSITY AND REHABILITATION

### Biodiversity Offset Strategy

29. The Applicant must implement the Biodiversity Offset Strategy, including:
- (a) protecting, enhancing and maintaining the Biodiversity Areas identified in condition 30 of Schedule 3; and
  - (b) retiring the biodiversity credits identified in condition 32 of Schedule 3, in accordance with the *Framework for Biodiversity Assessment - NSW Biodiversity Offsets Policy for Major Projects*; to the satisfaction of the Secretary and OEH.

### Biodiversity Areas

30. The Applicant must protect, enhance and maintain the Biodiversity Areas described in Table 7 and shown conceptually on the plan in Appendix 5, to achieve the objectives in Table 7 to the satisfaction of the Secretary and OEH.

Table 7: Biodiversity Areas

<b>Biodiversity Area</b>	<b>Objective</b>	<b>Minimum Size (ha)</b>
White Box-Yellow Box Blakely's Red Gum Woodland Endangered Ecological Community (Box Gum Woodland EEC)	Protect, maintain and enhance, including through assisted regeneration, Box Gum Woodland EEC on the site	32.66
Cleared land	Regenerate and/or replant cleared land on site with native vegetation representative of Box Gum Woodland EEC	46.16
<b>Total</b>		78.82

### Security of Biodiversity Areas

31. Prior to commencing development under this consent, unless otherwise agreed with the Secretary, the Applicant must make suitable arrangements to provide long-term security and funding for the Biodiversity Areas identified in condition 30 of Schedule 3, to the satisfaction of the Secretary and OEH.

*Note: Mechanisms to provide appropriate long-term security to the Biodiversity Area include a BioBanking Agreement, under the Threatened Species Conservation Act 1995, a Voluntary Conservation Agreement or an alternative mechanism that provides for a similar conservation outcome. Any mechanism must remain in force in perpetuity.*

### Biodiversity Offsets

32. The Applicant must retire the biodiversity credits set out in Table 8, in accordance with the *Framework for Biodiversity Assessment - NSW Biodiversity Offsets Policy for Major Projects* to the satisfaction of the Secretary and OEH.

Table 8: Biodiversity credits to be retired

<b>Credit type</b>	<b>Number of Credits</b>
<b>Ecosystem Credits</b>	
Yellow Box - Blakely's Red Gum Grassy Woodland (PCT1330)	373
Yellow Box - Blakely's Red Gum Grassy Woodland Derived Native Grassland (PCT1330)	185
Broad-leaved Peppermint - Red Stringybark grassy open forest (PCT734)	160

Broad-leaved Peppermint - Red Stringybark grassy open forest Derived Native Grassland (PCT734)	662
<b>Total</b>	1,380

### Security of Offsets

33. Within eighteen months of commencing development under this consent, unless otherwise agreed with the Secretary, the Applicant must make suitable arrangements to provide long-term security and funding for the Biodiversity Offset Areas used to retire the credits identified in condition 32 of Schedule 3, through a Biobanking Agreement under the *Threatened Species Conservation Act 1995*, to the satisfaction of OEH.

### Rehabilitation Objectives

34. The Applicant must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy in the EIS and must comply with the objectives in Table 9.

Table 9: Rehabilitation Objectives

Feature	Objective
Site (as a whole)	<ul style="list-style-type: none"> <li>Safe, stable and non-polluting</li> <li>Final landform integrated with surrounding natural landforms as far as is reasonable and feasible</li> <li>Final landform has minimal visual impact when viewed from surrounding land</li> </ul>
Surface Infrastructure	<ul style="list-style-type: none"> <li>Decommissioned and removed, unless otherwise agreed by the Secretary</li> </ul>
Land identified as the Biodiversity Area	<ul style="list-style-type: none"> <li>Conserved and enhanced with native, endemic vegetation consistent with the objectives shown in Table 7</li> </ul>
Riparian corridors along Chapman Creek and its tributaries	<ul style="list-style-type: none"> <li>Stabilised and vegetated</li> </ul>
Quarry benches	<ul style="list-style-type: none"> <li>Landscaped and vegetated using native tree and understorey species</li> </ul>
Final Void	<ul style="list-style-type: none"> <li>Minimise the size, depth and slope of the batters of the final void</li> <li>Minimise the drainage catchment of the final void</li> </ul>

### Progressive Rehabilitation

35. The Applicant must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation.

*Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to further disturbance in future.*

### Biodiversity and Rehabilitation Management Plan

36. The Applicant must prepare a Biodiversity and Rehabilitation Management Plan for the development to the satisfaction of the Secretary. This plan must:
- be prepared in consultation with OEH, DPI Fisheries and Council;
  - be submitted to the Secretary within twelve months of commencing development under this consent, unless the Secretary agrees otherwise;
  - provide details of the conceptual final landform and associated land uses for the site;
  - describe how the implementation of condition 29 of Schedule 3 would be integrated with the overall rehabilitation of the site;
  - include detailed performance and completion criteria for evaluating performance under condition 29 of Schedule 3 and rehabilitation of the site, including triggers for any necessary remedial action;
  - describe the short, medium and long term measures that would be implemented to:
    - manage remnant vegetation and habitat, including within the Biodiversity Areas and any areas that would be used to offset the biodiversity credits identified in condition 32 of Schedule 3; and
    - ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this consent;



- (g) include a detailed description of the measures that would be implemented over the next 3 years (to be updated for each 3 year period following initial approval of the plan) including the procedures to be implemented for:
  - maximising the salvage of environmental resources within the approved disturbance area, including tree hollows, vegetative and soil resources, for beneficial reuse in the enhancement of the offset area or site rehabilitation;
  - restoring and enhancing the quality of native vegetation and fauna habitat in the biodiversity offset and rehabilitation areas through assisted natural regeneration, targeted vegetation establishment and the introduction of fauna habitat features;
  - protecting vegetation and fauna habitat outside the approved disturbance area on-site;
  - protecting the Chapmans Creek riparian buffer area shown on the figure in Appendix 6 in accordance with the *Policy and Guidelines for Fish Habitat Conservation and Management*;
  - minimising the impacts on native fauna, including undertaking pre-clearance surveys;
  - establishing vegetation screening to minimise the visual impacts of the site on surrounding receivers;
  - ensuring minimal environmental consequences for threatened species, populations and habitats;
  - collecting and propagating seed;
  - controlling weeds and feral pests;
  - controlling erosion; and
  - managing bushfire risk;
- (h) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;
- (i) identify the potential risks to the successful implementation of condition 29 of Schedule 3, and include a description of the contingency measures that would be implemented to mitigate these risks; and
- (j) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

The Applicant must implement the approved Biodiversity and Rehabilitation Management Plan as approved from time to time by the Secretary.

### **Biodiversity and Rehabilitation Bond**

37. Within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Applicant must lodge a Biodiversity and Rehabilitation Bond with the Department to ensure that the Biodiversity Offset Strategy and rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the plan and the relevant conditions of this consent. The sum of the bond must be determined by:
- (a) calculating the cost of implementing the Biodiversity Offset Strategy over the next 3 years for the Biodiversity Areas identified in condition 30 of Schedule 3;
  - (b) calculating the cost of rehabilitating all disturbed areas of the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and
  - (c) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, or by using the Rehabilitation Cost Estimate spreadsheet tool (RCE) issued by DRE.
- to the satisfaction of the Secretary.

#### *Notes:*

- *Alternative funding arrangements for long term management of the Biodiversity Offset Strategy, such as provision of capital and management funding as agreed by OEH as part of a BioBanking Agreement, or transfer to conservation reserve estate can be used to reduce the liability of the Biodiversity and Rehabilitation Bond.*
- *If capital and other expenditure required by the Biodiversity and Rehabilitation Management Plan is largely complete, the Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure.*
- *If the Biodiversity Offset Strategy and/or rehabilitation of the site area are completed (or partially completed) to the satisfaction of the Secretary, then the Secretary will release the bond (or relevant part of the bond). If the Biodiversity Offset Strategy and rehabilitation of the site are not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.*

38. Within 3 months of each Independent Environmental Audit (see condition 10 of Schedule 5), the Applicant must review, and if necessary revise, the sum of the Biodiversity and Rehabilitation Bond to the satisfaction of the Secretary. This review must consider the:
- (a) effects of inflation;
  - (b) likely cost of implementing the Biodiversity Offset Strategy and rehabilitating all disturbed areas of the site (taking into account the likely surface disturbance over the next 3 years of the development); and
  - (c) performance of the implementation of the Biodiversity Offset Strategy and rehabilitation of the site to date.

## **VISUAL**

39. The Applicant must implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development to the satisfaction of the Secretary.

## **WASTE**

40. The Applicant must:
- (a) manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council;
  - (b) minimise the waste generated by the development;
  - (c) ensure that the waste generated by the development is appropriately stored, handled, and disposed of; and
  - (d) report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.
41. Except as expressly permitted in an EPL, the Applicant must not receive waste (with the exception of the cured concrete transported to the site in accordance with condition 8 of Schedule 2) at the site for storage, treatment, processing, reprocessing or disposal.

## **LIQUID STORAGE**

42. The Applicant must ensure that all tanks and similar storage facilities (other than for water) are protected by appropriate bunding or other containment, in accordance with the relevant Australian Standards.

## **DANGEROUS GOODS**

43. The Applicant must ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the *Dangerous Goods Code*.

## **BUSHFIRE**

44. The Applicant must:
- (a) ensure that the development is suitably equipped to respond to any fires on site; and
  - (b) assist the Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.

## **SCHEDULE 4 ADDITIONAL PROCEDURES**

### **NOTIFICATION OF LANDOWNERS**

1. Within 2 months of the commencement of development under this consent, the Applicant must notify in writing the owner of:
  - (a) the residences listed in Table 2 of Schedule 3 that they are entitled to ask the Applicant to install additional noise mitigation measures at the residences; and
  - (b) notify any tenants of quarry-owned land of their rights under this consent.
2. Prior to entering into any tenancy agreement for any land owned by the Applicant that is predicted to experience exceedances of the recommended dust and/or noise criteria, the Applicant must:
  - (a) advise the prospective tenants of the potential health and amenity impacts associated with living on the land, and give them a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time); and
  - (b) advise the prospective tenants of the rights they would have under this consent, to the satisfaction of the Secretary.
3. As soon as practicable after obtaining monitoring results showing:
  - (a) an exceedance of any relevant criteria in Schedule 3, the Applicant must notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and
  - (b) an exceedance of any relevant air quality criteria in Schedule 3, the Applicant must send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).

### **INDEPENDENT REVIEW**

4. If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.

If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Applicant must:

- (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:
  - consult with the landowner to determine his/her concerns;
  - conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and
  - if the development is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria; and
- (b) give the Secretary and landowner a copy of the independent review.

### **LAND ACQUISITION**

5. Within 3 months of receiving a written request from a landowner with acquisition rights, the Applicant must make a binding written offer to the landowner based on:
  - (a) the current market value of the landowner's interest in the land at the date of this written request, as if the land was unaffected by the development, having regard to the:
    - existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and
    - presence of improvements on the land and/or any approved building or structure which has been physically commenced at the date of the landowner's written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of the additional noise mitigation measures in condition 2 of Schedule 3;
  - (b) the reasonable costs associated with:
    - relocating within the Goulburn Mulwaree local government area, or to any other local government area determined by the Secretary; and
    - obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and
  - (c) reasonable compensation for any disturbance caused by the land acquisition process.

However, if at the end of this period, the Applicant and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Secretary for resolution.

Upon receiving such a request, the Secretary will request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:

- consider submissions from both parties;
- determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above;
- prepare a detailed report setting out the reasons for any determination; and
- provide a copy of the report to both parties.

Within 14 days of receiving the independent valuer's report, the Applicant must make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination.

However, if either party disputes the independent valuer's determination, then within 14 days of receiving the independent valuer's report, they may refer the matter to the Secretary for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent valuer's determination. Following consultation with the independent valuer and both parties, the Secretary will determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer's report, the detailed report of the party that disputes the independent valuer's determination and any other relevant submissions.

Within 14 days of this determination, the Applicant must make a binding written offer to the landowner to purchase the land at a price not less than the Secretary's determination.

If the landowner refuses to accept the Applicant's binding written offer under this condition within 6 months of the offer being made, then the Applicant's obligations to acquire the land shall cease, unless the Secretary determines otherwise.

The Applicant must pay all reasonable costs associated with the land acquisition process described in this condition, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.

**SCHEDULE 5**  
**ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING**

**ENVIRONMENTAL MANAGEMENT**

**Environmental Management Strategy**

1. If the Secretary requires, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:
  - (a) be submitted to the Secretary for approval within 6 months of the Secretary requiring preparation of the strategy by notice to the Applicant;
  - (b) provide the strategic framework for environmental management of the development;
  - (c) identify the statutory approvals that apply to the development;
  - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
  - (e) describe the procedures that would be implemented to:
    - keep the local community and relevant agencies informed about the operation and environmental performance of the development;
    - receive, record, handle and respond to complaints;
    - resolve any disputes that may arise during the course of the development;
    - respond to any non-compliance;
    - respond to emergencies; and
  - (f) include:
    - copies of any strategies, plans and programs approved under the conditions of this consent; and
    - a clear plan depicting all the monitoring to be carried out under the conditions of this consent.

The Applicant must implement any Environmental Management Strategy as approved from time to time by the Secretary.

**Management Plan Requirements**

2. The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:
  - (a) detailed baseline data;
  - (b) a description of:
    - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - any relevant limits or performance measures/criteria; and
    - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;
  - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
  - (d) a program to monitor and report on the:
    - impacts and environmental performance of the development; and
    - effectiveness of any management measures (see (c) above);
  - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
  - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
  - (g) a protocol for managing and reporting any:
    - incidents;
    - complaints;
    - non-compliances with statutory requirements; and
    - exceedances of the impact assessment criteria and/or performance criteria; and
  - (h) a protocol for periodic review of the plan.

*Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.*

**Revision of Strategies, Plans & Programs**

3. Within 3 months of the:
  - (a) submission of an Annual Review;
  - (b) submission of an incident report under condition 7 below;
  - (c) submission of an audit report under condition 10 below; and
  - (d) approval of any modifications to this consent,

the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Secretary.

Within 4 weeks of conducting any such review, the Applicant must advise the Secretary of the outcomes of the review, and provide any revised documents to the Secretary for review and approval.

*Note: This is to ensure that strategies, plans and programs are updated on a regular basis, and to incorporate any recommended measures to improve environmental performance of the development.*

### **Updating and Staging of Strategies, Plans or Programs**

4. To ensure that strategies, plans or programs required under this consent are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis.

With the agreement of the Secretary, the Applicant may prepare a revision of or a stage of a strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this consent.

*Notes:*

- While any strategy, plan or program may be submitted on a staged basis, the Applicant will need to ensure that the operations associated with the development are covered by suitable strategies, plans or programs at all times.
- If the submission of any strategy, plan or program is to be staged; then the relevant strategy, plan or program must clearly describe the specific stage/s of the development to which the strategy, plan or program applies; the relationship of this stage/s to any future stages; and the trigger for updating the strategy, plan or program.

### **Adaptive Management**

5. The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:

- (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur;
  - (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
  - (c) implement remediation measures as directed by the Secretary;
- to the satisfaction of the Secretary.

### **COMMUNITY CONSULTATIVE COMMITTEE**

6. The Applicant must establish and operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Secretary. The CCC must be operated in general accordance with the *Community Consultative Committee Guidelines for State Significant Projects* (Department of Planning & Environment, 2016, or its latest version).

*Note:*

- The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent.

### **REPORTING**

#### **Incident Reporting**

7. The Applicant must immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

#### **Regular Reporting**

8. The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.

## Annual Review

9. By the end of September each year, or other timing as may be agreed by the Secretary, the Applicant must submit a report to the Department reviewing the environmental performance of the development to the satisfaction of the Secretary. This review must:
- describe the development (including any rehabilitation) that was carried out in the previous financial year, and the development that is proposed to be carried out over the current financial year;
  - include a comprehensive review of the monitoring results and complaints records of the development over the previous financial year, which includes a comparison of these results against the:
    - relevant statutory requirements, limits or performance measures/criteria;
    - requirements of any plan or program required under this consent;
    - monitoring results of previous years; and
    - relevant predictions in the documents listed in condition 2(a) of Schedule 2;
  - identify any non-compliance over the past financial year, and describe what actions were (or are being) taken to ensure compliance;
  - identify any trends in the monitoring data over the life of the development;
  - identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
  - describe what measures will be implemented over the current financial year to improve the environmental performance of the development.

The Applicant must ensure that copies of the Annual Review are submitted to Council and the EPA and are available to the Community Consultative Committee (see condition 6 of Schedule 5) and any interested person upon request.

## INDEPENDENT ENVIRONMENTAL AUDIT

10. Within a year of commencing development under this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission, commence and pay the full cost of an Independent Environmental Audit of the development. This audit must:
- be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
  - include consultation with the relevant agencies;
  - assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals);
  - review the adequacy of strategies, plans or programs required under the abovementioned approvals;
  - recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy, plan or program required under the abovementioned approvals; and
  - be conducted and reported to the satisfaction of the Secretary.

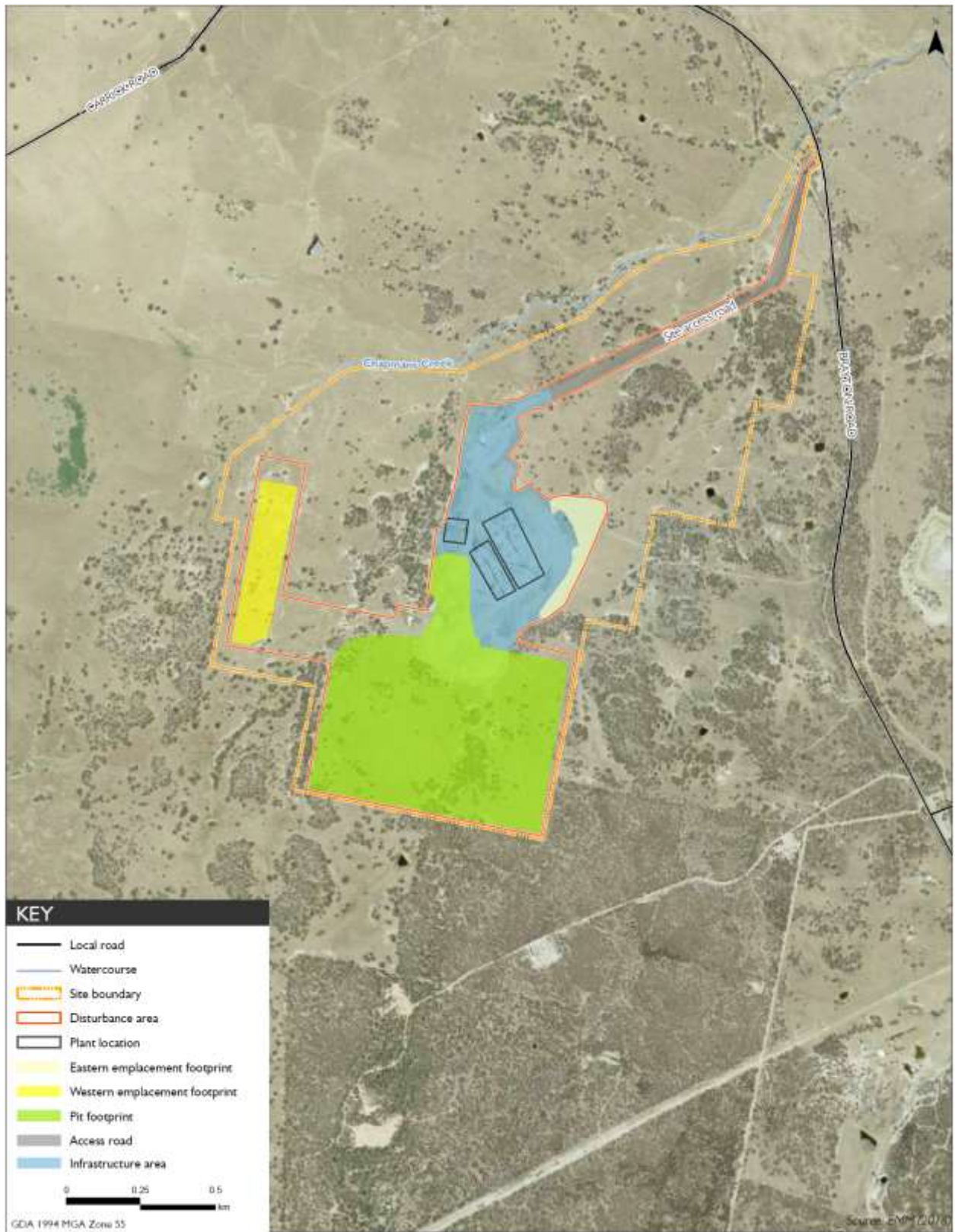
*Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.*

11. Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report.

## ACCESS TO INFORMATION

12. Within 6 months of the commencement of development under this consent, the Applicant must:
- make the following information publicly available on its website:
    - the documents listed in condition 2(a) of Schedule 2;
    - current statutory approvals for the development;
    - all approved strategies, plans and programs required under the conditions of this consent;
    - a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;
    - a complaints register, updated monthly;
    - the annual reviews of the development;
    - any independent environmental audit, and the Applicant's response to the recommendations in any audit; and
    - any other matter required by the Secretary; and
  - keep this information up-to-date, to the satisfaction of the Secretary.

## APPENDIX 1 DEVELOPMENT LAYOUT



**Figure:** Development Layout



## APPENDIX 2 STATEMENT OF COMMITMENTS

Aspect	Commitment
Noise and vibration	<p><i>Voluntary land acquisition and mitigation</i></p> <ul style="list-style-type: none"> <li>• Voluntarily acquisition rights will be offered to receiver R2 in accordance with the VLAMP.</li> <li>• Voluntarily mitigation rights will be offered to receiver R2 and R7 in accordance with the VLAMP.</li> </ul> <p><i>Primary crusher noise attenuation</i></p> <ul style="list-style-type: none"> <li>• The primary crusher will be enclosed as part of the extension project within four months of approval.</li> <li>• The primary crusher will not be operated at night until it is enclosed.</li> </ul> <p><i>Overburden emplacement</i></p> <ul style="list-style-type: none"> <li>• The overburden emplacement east of the infrastructure area will be extended to the north and south as shown in the general site layout.</li> </ul> <p><i>Evening and night operation of mobile fleet</i></p> <ul style="list-style-type: none"> <li>• The mobile fleet operations will be reduced during the evening and night periods, as represented in the noise model.</li> </ul> <p><i>Noise and Blast Management Plan</i></p> <ul style="list-style-type: none"> <li>• An updated Noise and Blast Management Plan will be submitted to DPE within six months of commencing development under the consent.</li> </ul>
Air quality	<p><i>Air quality monitoring</i></p> <ul style="list-style-type: none"> <li>• The existing air quality monitoring network will continue under the extension project. Monitoring results will be reviewed on an annual basis against the Environment Protection Licence (EPL) and approval conditions to determine if additional monitoring is required due to production increases.</li> </ul> <p><i>Air quality management</i></p> <ul style="list-style-type: none"> <li>• The following additional management measures will be implemented to enable Gunlake to continue to manage potential air quality impacts effectively: <ul style="list-style-type: none"> <li>- compliance with the USA-EPA Tier 3 or Tier 4 emissions standards, where practicable, for any new plant acquired by Gunlake; and</li> <li>- consideration of the following factors during blast design: <ul style="list-style-type: none"> <li>▪ delaying blasting to avoid unfavourable weather conditions that are likely to cause or spread a blast fume;</li> <li>▪ selecting an explosive product that is correct for the conditions;</li> <li>▪ monitoring the amount of hydrocarbon (diesel) in the product;</li> <li>▪ preventing water ingress into blast holes;</li> <li>▪ dewatering holes before loading;</li> <li>▪ keeping sleep time (the amount of time between charging and firing of a blast) to a minimum, well within manufacturer recommended times;</li> <li>▪ providing effective stemming; and</li> <li>▪ loading the product using the appropriate techniques.</li> </ul> </li> </ul> </li> </ul>

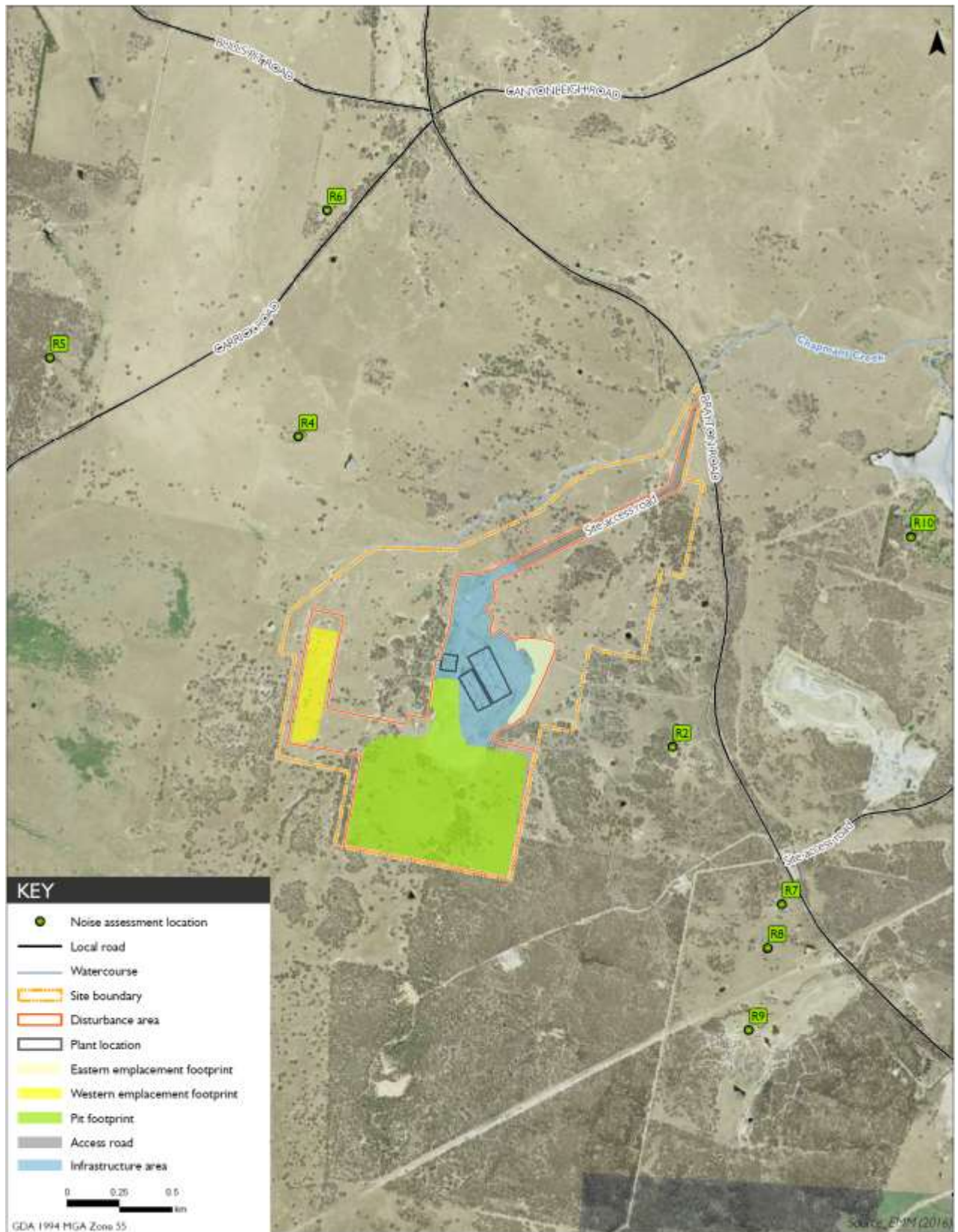
Aspect	Commitment
Biodiversity	<p><i>Rehabilitation and Biodiversity Offsets Management Plan [previously the Landscape Management Plan]</i></p> <ul style="list-style-type: none"> <li>• The Rehabilitation and Biodiversity Offsets Management Plan (RBOMP) will be updated to include details on biodiversity management and rehabilitation for the extension project. The plan will be completed and implemented within 12 months of commencing development under the consent.</li> <li>• The RBOMP will include procedures to be applied for the management of the offset properties, the arrangements for conservation in perpetuity and regeneration works to be undertaken. This will include the procedures for: <ul style="list-style-type: none"> <li>- assisting the revegetation and regeneration in the offset areas, including establishment of canopy, understorey and groundcover in areas of native pasture where required;</li> <li>- controlling weeds and feral pests;</li> <li>- fencing and access arrangements;</li> <li>- erosion control; and</li> <li>- bushfire management.</li> </ul> </li> <li>• An offset monitoring program will also be included within the RBOMP to monitor any changes to the condition of the offset areas.</li> </ul> <p><i>Offsets</i></p> <ul style="list-style-type: none"> <li>• Biodiversity Areas of 78.82 ha will be provided to compensate for the biodiversity impacts of the original approval, as modified.</li> <li>• An offset package with 1,380 ha of biodiversity credits will be provided under a BioBanking agreement to compensate for the additional biodiversity impacts of the extension project.</li> <li>• The offset areas will be managed in accordance with the RBOMP.</li> </ul>
Traffic and transport	<p><i>Hume Highway intersection acceleration lane</i></p> <ul style="list-style-type: none"> <li>• At the intersection of Hume Highway and Red Hills Road, an additional 500 m long (including taper) left turn northbound acceleration lane will be constructed in accordance with the relevant Austroads (2013) intersection design requirements within 12 months of commencing development under the consent.</li> </ul> <p><i>Corrective actions recommended in the road safety audit</i></p> <p>As part of the extension project, Gunlake will:</p> <ul style="list-style-type: none"> <li>• Fit and monitor GPS technology to Gunlake owned trucks.</li> <li>• Work with the Council to install centre double white lines along the appropriate sections of the primary haul route.</li> <li>• Work with the Council to install edge lines along the appropriate sections of the primary haul route.</li> <li>• Work with the Council to commission survey, risk assessment and costing.</li> <li>• Work with the Council to determine appropriate guide post spacing based on an analysis of the frequency of heavy fogs.</li> <li>• Work with the Council on submission to RMS to reduce the speed limit along the primary transport route to 80 km/h.</li> </ul>

Aspect	Commitment
	<p><i>Road upgrades</i></p> <p>As part of the extension project, Gunlake will:</p> <ul style="list-style-type: none"> <li>• Upgrade the intersection of the quarry access road with Brayton Road: <ul style="list-style-type: none"> <li>- asphalt the intersection; and</li> <li>- construct an acceleration lane on Brayton Road south of the quarry intersection.</li> </ul> </li> <li>• Widen both shoulders on Bypass Road (Ambrose Rd) for 400 m on the approach to Brayton Road.</li> <li>• Improve the Red Hills Road and Hume Highway intersection: <ul style="list-style-type: none"> <li>- provide physical separation between the lanes on either side of the road; and</li> <li>- construct an acceleration lane on the Hume Highway within 12 months of commencing development under the consent (rather than in 2025 as proposed in the EIS).</li> <li>- make general improvements along the transport route such as better line marking and increased signage:</li> <li>- marking hidden driveways;</li> <li>- regarding school buses; and</li> <li>- prohibiting the use of air brakes by in-bound trucks.</li> </ul> </li> <li>• Work with Goulburn Mulwaree Council (Council) to submit an application to RMS to reduce the speed limit on the transport route to 80 km/h.</li> <li>• Reduce the proposed maximum number of daily truck movements as part of the extension project from 690 to 590 per day.</li> <li>• Conduct random inspections on the transport route to ensure compliance with the Drivers Code of Conduct.</li> <li>• Work with Council to identify hazards in the clear zone for 80 km/h travel, including a risk assessment and costing to correct or reduce the risk.</li> <li>• Work with Council to determine appropriate guide post spacing based on an analysis of the frequency of heavy fogs.</li> </ul> <p><i>Traffic management plan</i></p> <ul style="list-style-type: none"> <li>• The existing traffic management plan will be updated within 12 months of commencing development under the consent.</li> </ul> <p><i>The Drivers Code of Conduct</i></p> <ul style="list-style-type: none"> <li>• The Drivers Code of Conduct will be updated to incorporate anti-littering practices.</li> <li>• Conduct random checks along the primary and secondary transport routes to ensure compliance with the Truck Driver Code of Conduct.</li> <li>• Truck drivers will be educated regarding the acceptable use of air brakes on local roads.</li> </ul> <p><i>Development contributions</i></p> <ul style="list-style-type: none"> <li>• Gunlake will continue to meet its obligations under Section 94 development contributions to Goulburn Mulwaree Council for the life of the project.</li> </ul>

Aspect	Commitment
Groundwater	<p><i>Water management plan</i></p> <p>The Water Management (WMP) Plan will be updated to provide details of the surface water management system, surface water management and monitoring for the extended quarry and will be submitted to DPE within six months of commencing development under the consent.</p> <p>The Gunlake water management plan will be updated to include:</p> <ul style="list-style-type: none"> <li>• triggers values to facilitate the identification of groundwater impacts outside of predictions;</li> <li>• the use of monitoring data to calibrate and update the model at significant project stages;</li> <li>• quarterly groundwater quality and level monitoring to facilitate the early identification of adverse impacts and test model predictions;</li> <li>• monitoring of spring flow in conjunction with the quarterly groundwater level and quality program;</li> <li>• monitoring mapped areas of Box Gum Woodland;</li> <li>• procedures for the re-use of site water; and</li> <li>• response protocols and contingency mitigation measures to be implemented in the event of an unpredicted adverse impact.</li> </ul> <p><i>Groundwater licensing</i></p> <ul style="list-style-type: none"> <li>• Gunlake Quarry will obtain a WAL(s) for the predicted groundwater take over the lifespan of extension project (up to 37 ML/year).</li> <li>• Groundwater monitoring bores will be registered under the Water Act.</li> </ul>
Surface water	<p><i>Surface water licensing</i></p> <ul style="list-style-type: none"> <li>• Gunlake will seek any required water licences should water need to be imported during extended dry periods.</li> </ul> <p><i>Surface water monitoring</i></p> <ul style="list-style-type: none"> <li>• The current surface water monitoring program will be modified to include monitoring at: <ul style="list-style-type: none"> <li>- two receiving water sites on Chapmans Creek, downstream of the quarry; and</li> <li>- the Process Water Dam and Pit Dewatering Dam.</li> </ul> </li> <li>• Should the monitoring program indicate that the quarry is potentially adversely affecting water quality in Chapmans Creek, Gunlake will undertake an investigation to establish the likely cause and will implement necessary mitigation measures.</li> <li>• The updated Soil and Water Management Plan will include the site water balance and measures to manage water excesses and deficits.</li> </ul>
Aboriginal heritage	<p><i>Aboriginal Heritage Management Plan</i></p> <ul style="list-style-type: none"> <li>• An updated Aboriginal Heritage Management Plan, prepared in consultation with OEH and Registered Aboriginal Parties, will be submitted to DPE within six months of commencing development under the consent</li> <li>• The Gunlake Quarry Aboriginal Heritage Management Plan (AHMP) will be updated and provide details of: <ul style="list-style-type: none"> <li>- all Aboriginal sites identified for the project and those previously recorded in the broader project site boundary;</li> <li>- management measures and their progress towards completion;</li> <li>- continuing consultation and involvement of registered Aboriginal parties;</li> <li>- protocols for newly identified sites;</li> <li>- protocols for suspected human skeletal material; and</li> <li>- provisions for review and updates of the AHMP.</li> </ul> </li> </ul>

Aspect	Commitment
	<p><i>Aboriginal sites</i></p> <ul style="list-style-type: none"> <li>All Aboriginal sites in the project disturbance footprint will be collected by a qualified archaeologist and members of the RAPs and relocated to the same area as previously collected artefacts at the site.</li> <li>If new Aboriginal sites are discovered outside of known site areas, all work will halt and an archaeologist and members of the RAPs be contacted to determine the significance of the objects. Objects will be managed based on their sensitivity in a manner consistent with the management measures outlined above, including appropriate forms of salvage for the items.</li> <li>In the event that known or suspected human skeletal remains are encountered during the activity, the procedures detailed in Appendix M of the EIS will be followed.</li> </ul> <p><i>Avoiding Aboriginal sites</i></p> <ul style="list-style-type: none"> <li>The Aboriginal sites, GL4, GL12, GL13 and GL15, will be fenced and avoided by the project.</li> </ul>
Social	<p><i>Local employment, training and engagement</i></p> <ul style="list-style-type: none"> <li>Gunlake will ensure that preference is given to local employees. Gunlake will use local or regional contractors and suppliers where this presents a cost effective and feasible option.</li> <li>Gunlake will provide ongoing training and certification opportunities for local community members to ensure they have the necessary skills to work in extractive industries.</li> <li>Gunlake will continue to actively engage with the local community and affected individuals and groups and address any complaints and feedback on quarry operations.</li> </ul>
Soils and rehabilitation	<p><i>Rehabilitation scheduling</i></p> <ul style="list-style-type: none"> <li>Rehabilitation will be progressively staged as soon as possible after final completion of works is determined. Staging of rehabilitation activities will require identification of timelines for decommissioning of pits, buildings and other supporting infrastructure. A more detailed schedule of works will be developed 12 to 24 months prior to the confirmed closure.</li> </ul> <p><i>Erosion and sediment control</i></p> <ul style="list-style-type: none"> <li>Erosion and sediment control measures will be defined in an Erosion and Sediment Control Plan to be implemented throughout the life of the project.</li> </ul> <p><i>Weeds</i></p> <ul style="list-style-type: none"> <li>Gunlake will take the necessary precautions to prevent excessive development of weeds within rehabilitated areas.</li> </ul> <p><i>Rehabilitation monitoring</i></p> <ul style="list-style-type: none"> <li>Gunlake will undertake an ongoing monitoring program throughout and beyond the operation of the project. Areas being rehabilitated will regularly be inspected and assessed against the short and long-term rehabilitation objectives outlined in EIS Section 6.4.1.</li> <li>It is envisaged that rehabilitation monitoring will be undertaken for at least 2 years following the completion of all rehabilitation. The exact period would reflect seasonal conditions during that period. In any event, maintenance will continue until such time as the objectives have been achieved. The monitoring criteria will be reviewed and finalised with Goulburn Mulwaree Council at the time of submitting a final rehabilitation plan.</li> </ul>
Visual	<p><i>Visual amenity</i></p> <ul style="list-style-type: none"> <li>Gunlake will continue to consult with surrounding landowners regarding the visual amenity of the quarry and will implement any reasonable additional controls to further reduce their visual impact, if necessary.</li> </ul>
Historic heritage	<p><i>Unexpected finds</i></p> <ul style="list-style-type: none"> <li>Gunlake will include an unexpected finds protocol in relation to historic heritage as part of the EMS for the quarry.</li> </ul>

### APPENDIX 3 NOISE RECEIVER LOCATIONS



**Figure:** Noise Assessment Locations

## **APPENDIX 4 NOISE COMPLIANCE ASSESSMENT**

### **Applicable Meteorological Conditions**

1. The noise criteria in Table 2 are to apply under all meteorological conditions except the following:
  - (a) wind speeds greater than 3 m/s at 10 m above ground level; or
  - (b) temperature inversion conditions between 1.5°C and 3°C/100 m and wind speed greater than 2 m/s at 10 m above ground level; or
  - (c) temperature inversion conditions greater than 3°C/100 m.

### **Determination of Meteorological Conditions**

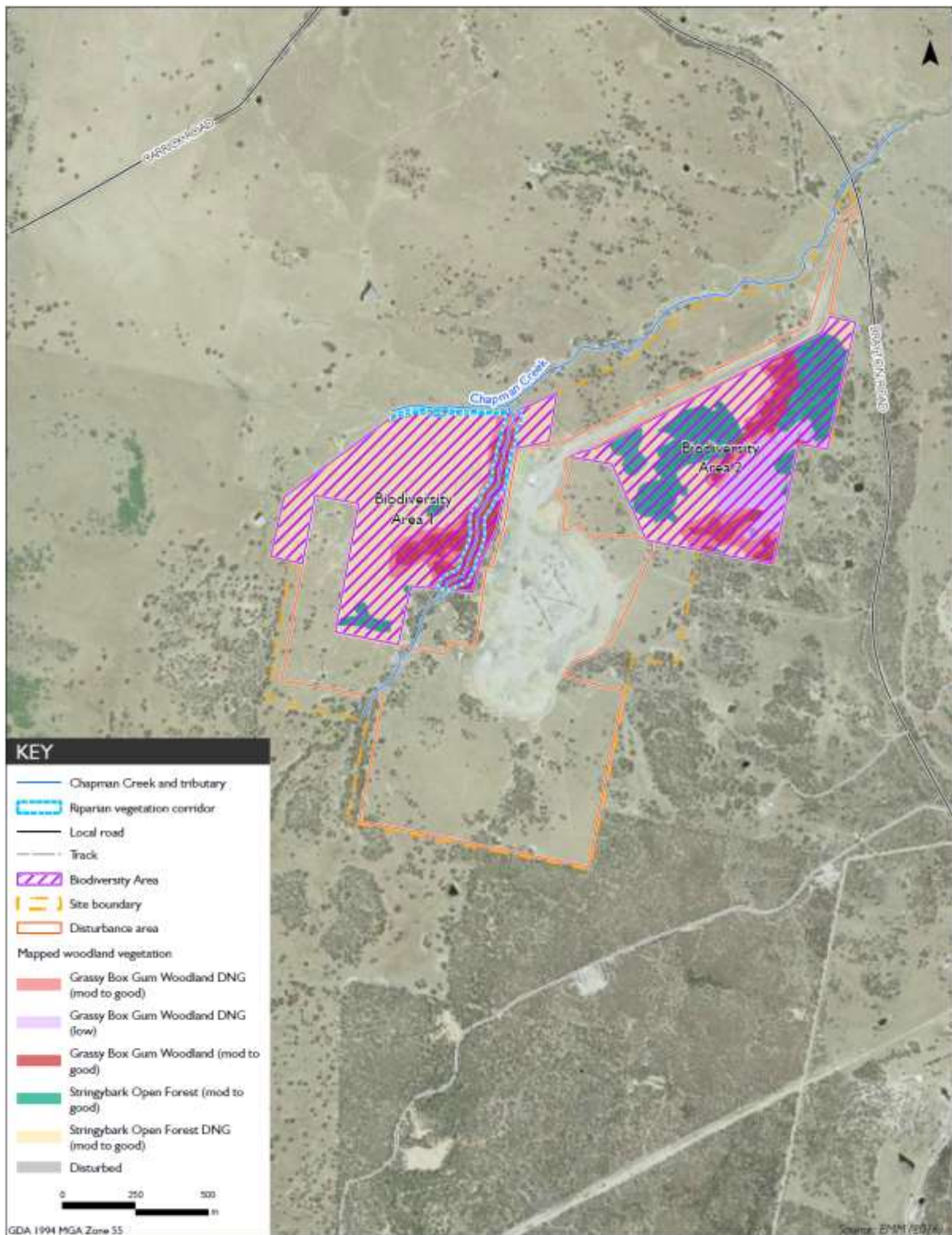
2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be that recorded by the meteorological station required under condition 18 of Schedule 3.

### **Compliance Monitoring**

3. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.
4. Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the *NSW Industrial Noise Policy* (as amended from time to time), in particular the requirements relating to:
  - (a) monitoring locations for the collection of representative noise data;
  - (b) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and
  - (c) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.



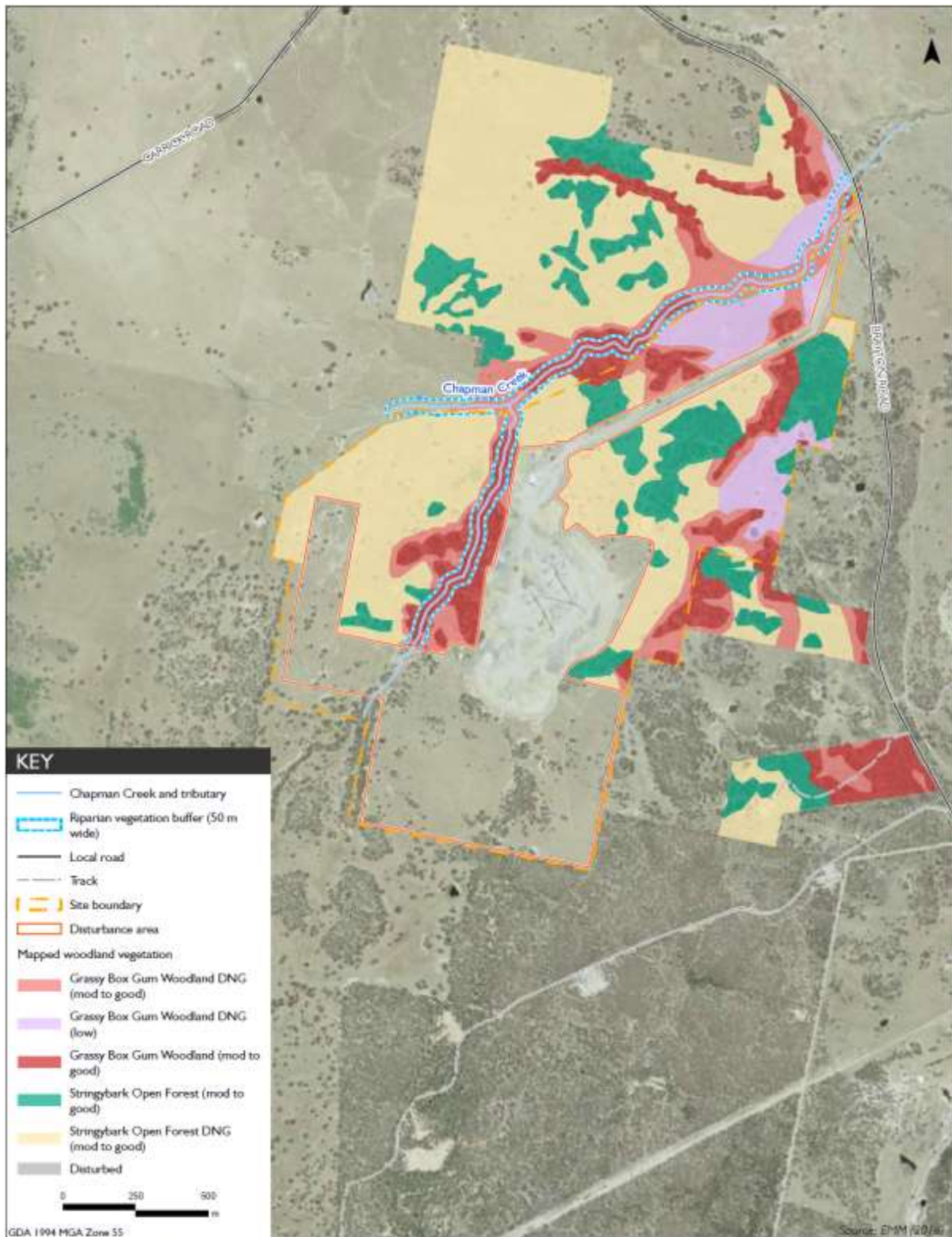
## APPENDIX 5 BIODIVERSITY AREAS



**Figure:** Location of Biodiversity Areas



## APPENDIX 6 CHAPMANS CREEK RIPARIAN BUFFER



**Figure:** Chapmans Creek Riparian Buffer