ENVIRONMENTAL MANAGEMENT STRATEGY

Oberon Quarries Pty Ltd

V5_June_2025

Document Status

Rev No.	Reviewer		Approved for Issue	
	Name	**Date**	**Name**	**Date**
1	Emma Mudford (Umwelt (Australia) Pty Limited)	March 2016	Peter Jamieson (Umwelt (Australia) Pty Limited)	March 2016
2	Emma Mudford (Umwelt (Australia) Pty Limited)	May 2016	Peter Jamieson (Umwelt (Australia) Pty Limited)	May 2016
3	Emma Mudford (Umwelt (Australia) Pty Limited)	December 2016	Peter Jamieson (Umwelt (Australia) Pty Limited)	December 2016
4	Rod Williams (Umwelt (Australia) Pty Limited)	August 2017	Luke Bettridge (Umwelt (Australia) Pty Limited)	August 2017
5	Emma Terracini (Oberon Quarries Pty Ltd)	June 2025	Neil Hargraves (Oberon Quarries Pty Ltd)	June 2025

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1.0 Introduction

1.1 Background

Oberon Quarries Pty Ltd (Oberon Quarries) operates Oberon Quarry, an existing hard rock quarry located approximately 4 kilometres south of Oberon, New South Wales (NSW) (refer to **Figure 1.1**). Oberon Quarries has been operating at the site since 1995. The original Oberon Quarries Development Consent (DA92/164) was granted on 1 October 1993 by the NSW Minister for Planning and was surrendered on 2 December 2015. The existing operations have been developed in accordance with DA92/164 (incorporating the 2000, 2002, 2004, 2007 and 2013 modifications) and Environment Protection Licence (EPL) 4442.

On 14 September 2015, Oberon Quarries was granted Development Consent (SSD_6333) (Development Consent) for Oberon Quarry Continuation Project by the NSW Minister for Planning to extend the life of the quarry for an additional 30 years.

The Development Consent allows for continued operations of the Oberon Quarry including increasing the extraction area by approximately 1 hectare to avoid sterilisation of a small section of additional high quality basalt resources. The Development Consent provides for a maximum production level of 400,000 tonnes per annum (tpa) and the transport of up to 3000 tonnes per day of quarry product from the quarry.

Oberon Quarries is committed to implementing continued quarrying operations in the context of updated and contemporary environmental management requirements. This Environmental Management Strategy (EMS) has been prepared in accordance with Schedule 5, Condition 1 of the Development Consent.

1.2 Project Description

The Oberon Quarries Development Consent (SSD_6333) provides for the following:

- continued quarrying operations within the approved project area as defined by SSD_6333 until 30 August 2045
- retaining the current maximum production level of 400,000 tpa and transport of a maximum 3000 tonnes per day of product from the quarry
- replacement of some of the existing screening plant, reconfiguration of the alignment of screens and the inclusion of an additional cone crusher
- inclusion of a second diesel fuel storage tank of approximately 28,000 litre capacity
- inclusion of a 1.0 hectare extension to the existing extraction area to avoid the sterilisation of approximately 500,000 tonnes of high quality basalt resource
- inclusion of a Finlay 750e Hydrasander (or equivalent) to produce washed sand by separating silt and clay from sand size particles in the crusher fines
- duplication of approximately a 180 metre section of the internal haul road to improve road safety
- continued extraction of the high quality basalt from the existing extraction areas as required, with extraction at times occurring simultaneously on the upper and lower benches.

1.3 Purpose and Scope

The EMS has been developed to identify, address and effectively manage the environmental aspects and impacts of the operation, including:

- hard rock extraction operations
- environmental monitoring (refer to **Figure 1.2**) and management programs
- the role and responsibility of key personnel.

This EMS addresses the requirements detailed in the Development Consent. The Development Consent conditions relevant to this plan are provided in **Section 2.1**, including a checklist of where each condition has been addressed within this document.

1.4 Objectives

The objectives of this EMS include the following:

- to exist as an umbrella document for the Oberon Quarry environmental management system (encompassing management plans and procedures) that has been developed to address environmental aspects that are specific to Oberon Quarry's operations
- to implement a fully functional and effective environmental management system that is used to drive improved environmental performance and reduced environmental risk
- to ensure ownership of the environmental management system at all levels and that employee knowledge and use of the system remain high
- to prioritise staff and financial environmental resources on the basis of environmental risk
- to continuously improve the environmental performance of the operations through improvement plans, audits and inspection processes, training programs and effective corrective action systems.

To ensure these objectives are met, environmental performance will be reviewed annually as part of the Annual Review required under Condition 9 of Schedule 5 of SSD_6333 and the EMS and associated plans and programs will be revised as required.

umwelt

Image Source: Gaagle Maps (2015)
Dala Saurce: Geoscience Auslralia (2009),
0 EH (2013)

0.5 .25 2.5km
INSET :50 000

Locality Plan

File Name (A4): R74/ 296 209.dgn
20 70306 8.52

ANDITI

Data source: Oberon Quarries Pty Ltd 2021 | Image source: Google 2023

0 0.25 0.5 0.75 1 km

SCALE 1 : 13 000

Legend

- Project Area
- Processing Area
- Right of Carriageway (12m Wide)
- Residence owned by Oberon Quarries/Associated with Oberon Quarry
- Private Residences
- Blast monitoring location
- Depositional dust gauge location
- Groundwater monitoring location
- Surface water monitoring location

FIGURE 1.2

Environmental Monitoring Locations

2.0 Regulatory Requirements

2.1 Development Consent

The Development Consent for the Oberon Quarry Continuation Project was assessed under the *Environmental Planning and Assessment Act 1979* (EP&A Act). Approval for the project was granted by the Minister for Planning on 14 September 2015. The requirement for this EMS arises from Schedule 5, Condition 1 of the Oberon Quarry Development Consent. The requirements from the Development Consent, and where these requirements are addressed within this document, are provided in **Table 2.1**.

Table 2.1 Development Consent Conditions

Conditions		Addressed in Section
Schedule 5 – Environmental Management **Environmental Management Strategy**		
1	The Applicant shall prepare and implement 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 date of this consent;	**Appendix 9**
	b) provide the strategic framework for environmental management of the development;	**Section 2.2**
	c) identify the statutory approvals that apply to the development;	**Section 3.0**
	d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	**Section 8.0**
	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;	**Section 4.1**
	• receive, record, handle and respond to complaints;	**Section 4.1.2**
	• resolve any disputes that may arise during the course of the development;	**Section 4.1.3**
	• respond to any non-compliance;	**Sections 5.3** and **6.0**
	• respond to emergencies; and	**Section 4.3**

Conditions		Addressed in Section
	f) include: • copies of the various 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.	**Appendices**
Schedule 5 – Environmental Management, Reporting and Auditing **Annual Review**		
9.	By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:	**Noted**
	(a) describe the development (including any rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;	
	(b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar 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 EIS;	
	(c) identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance;	
	(d) identify any trends in the monitoring data over the life of the development;	
	(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	
	(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.	

Conditions		Addressed in Section
Schedule 5 – Environmental Management, Reporting and Auditing **Access to Information**		
12.	Within 6 months of the date of this consent, the Applicant shall:	**Noted**
	(a) make the following information publicly available on its website:	
	• The documents listed in condition 2 of Schedule 2;	
	• current statutory approvals for the development;	
	• all approved strategies, plans and programs required under the conditions of consent;	
	• a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of the 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.	
	(b) keep this information up-to-date, to the satisfaction of the Secretary.	

As required by the Development Consent, a series of management plans have been developed to specifically address and manage environmental matters relevant at Oberon Quarry. The strategies, plans and programs are identified in **Table 2.2**.

In addition to the Development Consent, Oberon Quarry holds an Environment Protection Licence (EPL) 4442 which requires the development of a Pollution Incident Response Management Plan (PIRMP). The PIRMP can be found on Oberon Quarries Pty Ltd website (http://oberonquarries.com.au/).

Table 2.2 Strategies, Plans and Programs required by Consent conditions

Conditions		Appendix
Schedule 3 – Environmental Performance Conditions		
5	Prepare and implement a Noise Management Plan	**1**
9	Prepare and implement a Blast Management Plan	**2**
12	Prepare and implement an Air Quality Management Plan	**3**
16	Prepare and implement a Water Management Plan	**4**
21	Prepare and implement a Transport Management Plan	**5**
24	Prepare and Implement a Landscape and Rehabilitation Management Plan	**6**

2.2 Strategic Framework Context

Environment and community aspects and impacts for Oberon Quarry are identified in consideration of the activities undertaken at the site as well as legislative requirements, project approvals conditions and other licences and approvals. This process aims to appropriately manage environmental and community aspects and minimise the potential environmental and community impacts of the operation.

The Environmental Impact Statement (EIS) (Umwelt, 2015) identified the risks associated with the continued operation of the Quarry, assessed the potential impacts of these risk and recommended management controls to minimise any potential impact. The efficacy of the management controls will be reviewed as part of the Annual Review process as detailed in **Section 7.0**.

The objectives and targets for Oberon Quarry incorporated into this EMS have been developed based on the EIS, Development Consent, EPL 4442, previous environmental performance and other regulatory and company requirements. Objectives and targets set in order to meet the commitments and to measure the performance of the operation, are outlined throughout the EMS.

3.0 Statutory Approvals

3.1 NSW State Legislation

3.1.1 Environmental Planning and Assessment Act 1979

The Oberon Quarry Development Consent was granted on 14 September 2015. A copy of the Development Consent is included as **Appendix 7**.

3.1.2 Protection of the Environment Operations Act 1997

Oberon Quarry holds EPL 4442 under the *Protection of Environment Operations Act 1997* at Hargraves Quarry Road, Oberon NSW 2787. EPL 4442 is for crushing, grinding or separating between 100,000 and 500,000 tonnes of hard rock per year and land-based extractive activity for a production level between 100,000 and 500,000 tonnes per year. The licence sets out limits for water, air quality, noise and blast emissions from the operation and details monitoring and reporting requirements. These requirements are discussed further in the Noise Management Plan, Blast Management Plan, Air Quality Management Plan and Water Management Plan (refer to **Appendix 1, 2, 3** and **4** respectively).

A copy of EPL 4442 is included as **Appendix 8**.

It should be noted that a License Variation was approved by the EPA on May 6th, 2024 with details to be found within the latest version of the Water Management Plan.

4.0 Implementation and Operation

4.1 Consultation

4.1.1 Communication with the Broader Community

Management plans, strategies, monitoring results and reports will be published on Oberon Quarries website (http://oberonquarries.com.au/) to keep the community informed. As outlined in **Section 6.1.3**, an Annual Review will be submitted to the Secretary by the end of March each year which details the operational status of the quarry and environmental performance for the previous year. All Annual Review's will be published on Oberon Quarries website to keep the community informed.

Oberon Quarries has been operating for the last 20 years and has established relationships with the surrounding residences (refer to **Figure 1.2**). The Quarry Manager maintains regular contact with the few residences that reside within the vicinity of the operation. The Quarry Manager will notify the surrounding residences with the following information when required:

- the proposed blasting schedule
- the community complaints line and information located on the Oberon Quarries website
- modifications to the Development Consent and/or other relevant licences
- any other activity that may affect the residence.

4.1.2 Complaints

Complaints will be managed in accordance with the requirements of this EMS and Complaints Management Policy & Procedure. In accordance with Condition M5 of EPL 4442, a community complaints line is operated by Oberon Quarry during the hours of operation. The complaints line is displayed on Oberon Quarries website (http://oberonquarries.com.au/).

The Complaints Line number is (02) 6336 0259.

The Complaints line has been operational for many years and provides the community with a mechanism by which to raise any concerns that they have with operations at Oberon Quarry. The Oberon Quarry Manager is responsible for the implementation of the complaints management process and will ensure a timely initial response to any complaints received and then, as appropriate, will provide a more detailed response outlining any complaint investigation findings and corrective actions implemented.

If a complaint is received the following information will be recorded including:

- name of person who received the complaint
- the complainants name, address and contact details (if provided)
- date and time of complaint
- method of complaint (phone, email etc.)

- nature of complaint
- action taken.

Records of complaints will be kept for a minimum of four years in a register to be maintained by the Quarry Manager, the complaints register is available on Oberon Quarries website. The community complaints will also be reported annually in the Annual Review.

4.1.3 Dispute Resolution

Oberon Quarries strives to maintain good relations with all external stakeholder groups through effective communication. It is Oberon Quarries desire to avoid disputes with relevant external stakeholders through addressing any concerns in a timely manner. Should any disputes arise that cannot be resolved through direct consultation, the dispute resolution processes discussed below will be implemented.

Schedule 4, Condition 2 of the Development Consent outlines an independent review process that can be initiated if a landowner considers that the operations of the quarry are exceeding the impact assessment criteria outlined in Schedule 3 of the Development Consent. In accordance with these requirements, the landowner may ask Oberon Quarry in writing for an independent review of the impacts of the project on their land. If the independent review determines that the quarrying operations are not complying with the relevant criteria, then the measures that could be implemented to ensure compliance with the relevant criteria, with the results of the investigation are to be identified and reported to the Secretary.

4.2 Training and Induction

Oberon Quarries aims to provide the necessary tools and training for its employees and contractors to enable the effective implementation of Oberon Quarry's management systems and to assist with the risk management process for the quarry. A competency-based training scheme has been implemented to identify minimum qualifications and skills required, to ensure that adequate resources and training are provided to meet these requirements. All employees and contractors are required to complete a structured site induction. The scope of the induction includes:

- an overview of the Oberon Quarry's operation and EMS
- an overview of the Oberon Quarry's standard operating procedures
- legislative requirements
- environmental incident and community complaint reporting requirements
- Workplace Health and Safety (WHS) requirements
- Emergency Response Procedures.

Training of staff is ongoing to improve the environmental and social understanding, capabilities and performance of personnel and contractors. In addition, specific training will be provided to personnel involved in:

- proximity of the extraction areas to threatened species where they exist
- where disturbance is allowed, where buffer zones are and what activities are allowed in buffer zones

- importance of maintaining the integrity of the water management system
- maintaining and operating pollution control equipment
- storing and handling hydrocarbons
- Oberon Quarry site transport rules
- responding to environmental incidents and emergencies.

4.3 Operational Controls and Emergency Procedures

4.3.1 Waste

Waste management principles implemented by Oberon Quarries include:

- waste avoidance and reduction at the source
- waste re-use
- waste recycling
- waste removal and disposal (all waste that cannot be re-used or recycled).

The underpinning strategies for management of waste are focused on minimisation through cleaner production and the aforementioned principles as well as the appropriate segregation, storage and disposal of waste generated.

Waste currently generated at the site, and methods of management, consist of the following:

- office waste – negligible amounts consistent with that generated by 2 to 3 equivalent people. Waste is removed from site and disposed of in a licensed landfill facility (estimated to be less than 10 tonnes/year)
- small amounts of oil waste – collected and taken off site to a recycling facility (estimated to be less than 1000 L/year)
- approximately 0.5 tonnes/year of batteries disposed of to a recycling facility
- approximately 10 tonne/year of scrap metal is sold to a recycling facility
- approximately 20 tonnes of chrome iron per year, are returned to manufacturers for recycling.

Oberon Quarries also has a Council approved pump out sewage system which is regularly pumped out by a licensed contractor who disposes of the sewage according to Council requirements.

4.3.2 Dangerous Goods

Storage, handling and transport of dangerous goods such as fuels on-site will be undertaken and managed by suitably qualified persons in accordance with Australian Standards, particularly AS/NZS ISO 31000:2009 (Standards Australia, 2009) and ADG7 : Australian Dangerous Goods Code (National Transport Commission, 2011).

Refuelling of equipment occurs within the extraction areas via the usage of mobile refuelling equipment, consisting of a fuel tank, spilt fuel bund/spill catch tray and spill kit. An additional mobile spill kit is located within the extraction area to enable prompt clean up in the event of a spill during refuelling activities.

4.3.3 Emergency Procedures

Oberon Quarries is aware of the risks associated with the quarry operations and is committed to being prepared for emergencies and crisis, aiming to reduce impacts upon workers, the organisation, environment and local community.

A Pollution Incident Response Management Plan (PIRMP) has been developed which outlines the procedures for notification of pollution incidents resulting in or having the potential to cause material harm to the environment. The PIRMP can be downloaded from Oberon Quarries website (http://www.oberonquarries.com.au/).

An internal Emergency Management Plan (EMP) has been developed specifically to address the requirements determined in dealing with emergency situations at the quarry. The EMP is an extension of the quarry Safety Management System and is designed to assist Oberon Quarries further assess and control emergency situations.

These documents will be supported by appropriate instruction and training to all Oberon Quarry workers involved in quarry operations to ensure that should an emergency situation arise, it can be dealt with in an effective and controlled manner.

5.0 Monitoring and Compliance

5.1 Monitoring Programs

Environmental monitoring programs have been developed in accordance with the Development Consent and other approvals, licences, etc. to ensure that the required environmental monitoring is undertaken at Oberon Quarry.

5.2 Environmental Inspections

As a minimum, environmental inspections will be undertaken monthly to assist in environmental management of the quarry and determine compliance with legislation, standards, codes and other external requirements, the Development Consent and EPL. Inspections are to be conducted by the Quarry Manager or his/her delegate and be recorded according to document control procedures (see **Section 2.2**).

Outcomes of the inspections shall be documented within the monitoring checklist to capture and track all actions. In the event that the inspection identifies repair or maintenance of management controls is required, a works program will be prepared and works will be undertaken where possible within two weeks. In the event of a non-compliance being identified during the inspection, corrective and/or preventative actions are to be developed in accordance with **Section 5.5**. The completion and effectiveness of the corrective and/or preventative action is to be assessed during the next monthly inspection as detailed in the checklist.

5.3 Compliance Assessment

A non-compliance can be defined as an exceedance of impact assessment criteria or relevant regulatory instrument. This can include but is not limited to:

- any monitoring result that does not meet the acceptance criteria specified in the Development Consent or EPL, noting any considerations within the EMS and related documents; and/or
- any notice of non-compliance issued by the Environment Protection Authority (EPA) or any other regulatory authority with environmental jurisdiction (e.g. DP&E, Department of Primary Industries – Water etc); or any non-compliance with legislation, other approvals or licences.

Notification and reporting procedures for non-compliance events are included in **Section 6.0**.

5.4 Independent Environmental Audit

Independent Environmental Audits are to be undertaken to verify compliance with legislation, licences, approvals and the EMS. Audit results will be communicated to the local community where relevant. The recommendations from Independent Environmental Audits will be consolidated into action plans.

Schedule 5, Condition 10 of the Development Consent requires an Independent Environmental Audit to be undertaken within a year of the date of the consent and every three years thereafter, unless the Secretary directs otherwise. The Applicant must commission and pay the full cost of these Audits.

In accordance with the requirements of Schedule 5, Condition 10 of the Development Consent, the Independent Environmental Audits must:

(a) be conducted by a suitably qualified, experienced, and independent team of experts whose appointment has been endorsed by the Secretary;
(b) include consultation with the relevant agencies;
(c) 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);
(d) review the adequacy of strategies, plans or programs required under the above mentioned approvals; and
(e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy, plan or program required under the above mentioned approvals.

Schedule 5, Condition 11 of the Development Consent requires that:

Within 6 weeks of completion of this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

5.5 Corrective Action

An environmental non-compliance is taken to be any deviation from procedures implemented at Oberon Quarry including identified objectives and targets. The non-compliance may be identified from routine inspections, audits or monitoring or it can be from an external complaint. In the case of any non-compliance, corrective action will be developed and managed through internal tracking mechanisms. Additionally, any non-compliance resulting in an environmental incident will be managed in accordance with **Section 6.0**.

Corrective actions may also be identified through investigations of any environmental incidents (refer to **Section 6.0**) or non-compliances (refer to **Section 5.3**).

6.0 Reporting

6.1 Project Approval Requirements

6.1.1 Incident Reporting

Environmental incidents will be managed in accordance with this EMS, which has been developed to:

- define and categorise environmental incidents
- manage hazards and incidents to minimise damage to people, environment, community and other assets
- identify factors that contributed to incidents through an investigation process and to learn from those events and prevent reoccurrence.

Schedule 5, Condition 7 of the Development Consent requires Oberon Quarries to immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident or other agreed timeframe, Oberon Quarries shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

6.1.2 Regular Reporting

In accordance with Schedule 5, Condition 8 of the Development Consent, Oberon Quarries will provide regular reporting on the environmental performance of the development on its website. This reporting will be in accordance with the arrangements set out in plans and programs approved under the conditions of the Development Consent.

The decision on whether to notify should not delay immediate actions to ensure the safety of people or contain a pollution incident. However, incident notification should be made as soon as it is safe to do so in accordance with company protocols.

The information about a pollution incident that must be notified includes:

- the time, date, nature, duration and location of the incident
- the location of the place where pollution is occurring or is likely to occur
- the nature, the estimated quantity or volume and the concentration of any pollutants involved, if known
- the circumstances in which the incident occurred, including the cause of the incident, if known
- the action taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution, if known.

6.1.3 External Reporting

By the end of March each year Oberon Quarries Pty Ltd shall review the environmental performance of the development to the satisfaction of the Secretary, in accordance with Schedule 5, Condition 9 of the Development Consent.

In addition, in accordance with *Protection of the Environment Legislation Amendment Act 2011* (Amendment Act) and Schedule 5, Condition 12 of the Development Consent, Oberon Quarries will also publish environmental monitoring results on the Oberon Quarries website (http://www.oberonquarries.com.au).

6.2 EPL Requirements

6.2.1 Annual Return

For each 12 month reporting period, Oberon Quarries will provide the EPA with an EPL Annual Return within 60 days of the end of the reporting period. This Annual Return will include a statement of compliance and monitoring and complaints summary for the preceding 12 month period.

6.2.2 Written Report

Where an EPA officer or other government representative suspects on reasonable grounds that an event has occurred at the premises the officer may request a written report of the event.

Should the report provided not give enough details to satisfy the EPA, a request for further details from the proponent may be lodged.

6.3 Access to Information

In accordance with Schedule 5, Condition 12 of the Development Consent, all strategies, plans and programs will be displayed on the company website (http://oberonquarries.com.au/). The website will be updated in accordance with Schedule 5, Condition 12 of the Development Consent. The following information will be made publicly available on the website:

- the documents listed in Schedule 2, Condition 2
- current statutory approvals for the development
- all approved strategies, plans and programs required under the conditions of consent
- a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of the 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
- any other matter required by the Secretary
- keep this information up-to-date, to the satisfaction of the Secretary.

7.0 Review and Improvement

In accordance with Schedule 5, Condition 5 of the Development Consent, Oberon Quarries Pty Ltd shall review, and if necessary revise, the strategies, plans, and programs required under Development Consent to the satisfaction of Secretary, within 3 months of the submission of an:

(a) *incident report under condition 7 below;*
(b) *annual review under condition 9 below;*
(c) *audit report under condition 10 below; and*
(d) *any modifications of this consent,*

the Applicant shall review the strategies, plans, and programs required under this consent, to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Secretary.

The Quarry Manager and Oberon Quarries environmental personnel will review and if necessary, revise this EMS and resubmit to DP&E as noted above.

Any changes made to the EMS as a result of the review will be made in consultation with relevant stakeholders. A copy of the revised EMS will be supplied to the Secretary for approval. The EMS will reflect changes in environmental requirements, technology and operational procedures. Updated versions of the approved EMS will be made publicly available on the Oberon Quarries Pty Ltd website (http://oberonquarries.com.au/).

Continuous improvement will also occur through independent review as a result of the three-yearly compliance audit, which is required in accordance with Schedule 5, Condition 10 of the Development Consent (refer to **Section 5.4**).

8.0 Accountabilities

The Quarry Manager will be accountable for all aspects pertaining to the operations, environmental management and safety at the quarry. The implementation, day-to-day management and continued improvement of the EMS will be the responsibility of the Quarry Manager. The specific duties of the Quarry Manager include:

- ensuring compliance is achieved with relevant legislation and company policy by establishing and maintaining appropriate management and monitoring systems
- ensuring the management practices described in the EMS and associated plans and programs are implemented effectively
- review and revise strategies/plans/programs, as necessary
- ensuring that contractors fulfil their contractual obligations
- monitoring the performance of EMS strategies
- regular liaison with the government, community and other stakeholders
- implementing environmental induction procedures and appropriate training for Oberon Quarry personnel and contractors
- reporting.

It is the responsibility of all quarry staff and contractors to comply with the regulations and procedures defined in the EMS, and to carry out their work in a way that minimises the social and the environmental impacts.

9.0 References

National Transport Commission, 2011. ADG7 : Australian Dangerous Goods Code.

Standards Australia, 2009. AS/NZS ISO 31000:2009 Risk management – Principles and guidelines.

Umwelt (Australia) Pty Limited, 2017a. Noise Management Plan. Report prepared for Oberon Quarries Pty Limited.

Umwelt (Australia) Pty Limited, 2017b. Blast Management Plan. Report prepared for Oberon Quarries Pty Limited.

Umwelt (Australia) Pty Limited, 2017c. Air Quality Management Plan. Report prepared for Oberon Quarries Pty Limited.

Umwelt (Australia) Pty Limited, 2017d. Water Management Plan. Report prepared for Oberon Quarries Pty Limited.

Umwelt (Australia) Pty Limited, 2017e. Transport Management Plan. Report prepared for Oberon Quarries Pty Limited.

Umwelt (Australia) Pty Limited, 2017f. Landscape and Rehabilitation Management Plan. Report prepared for Oberon Quarries Pty Limited.

Umwelt (Australia) Pty Limited, 2015. Proposed Extended Life of Operations and Development Changes to Oberon Quarry, Environmental Impact Statement. Report prepared for Oberon Quarries Pty Limited.

APPENDIX 1

Noise Management Plan

APPENDIX 2

Blast Management Plan

APPENDIX 3

Air Quality Management Plan

APPENDIX 4

Water Management Plan

APPENDIX 5

Transport Management Plan

APPENDIX 6

Landscape and Rehabilitation Management Plan

APPENDIX 7

Oberon Quarry Continuation Project
Development Consent (SSD_6333)

Development Consent

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

As delegate of the Minister for Planning, I approve 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.

Oliver Holm
Executive **Director**
Resource **Assessments and** Compliance

Sydney 14/ 9/ 2015

SCHEDULE 1

Application Number	SSD_6333
Applicant	Oberon Quarries Pty Ltd
Consent **Authority:**	Minister for Planning
Land:	Lot 3 DP1087170 (formerly Lot 1 DP845776) Lot 2 DP1087170 Lot 3 DP845776 Lot 94 DP757067 Lot 107 DP757067 Lot 108 DP757067
Development	Oberon Quarry Continuation Project

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DEFINITIONS

Annual Review	The review required by condition 9 of Schedule 5
Applicant	Oberon 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
Conditions of consent	Conditions contained in Schedules 2 to 5
Construction	The demolition of buildings or works, carrying out of works and erection of buildings covered by this consent
Council	Oberon Council
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 in condition 2 of Schedule 2
DPI-Water	Department of Primary Industries - Water
DRE	Division of Resources and Energy (within the Department of Trade and Investment, Regional Infrastructure and Services)
EIS	Environmental Impact Statement titled *Proposed Extended Life of Operations and Development Changes to Oberon Quarry*, dated January 2015, as modified by the Response to Submissions titled, *SSD 6333 – Oberon Quarry Continuation Project Modification*, dated 27 July 2015
EPA	NSW Environment Protection Authority
EP&A Act	*Environmental Planning and Assessment Act 1979*
EP&A Regulation	*Environmental Planning and Assessment Regulation 2000*
EPL	Environment Protection Licence issued under the POEO Act
Evening	The period from 6pm to 10pm
Feasible	Feasible relates to engineering considerations and what is practical to build or implement
GPS	Global Positioning System
Incident	A set of circumstances that: • causes or threatens to cause material harm to the environment; and/or • breaches or exceeds the limits or performance measures/criteria in this consent
Laden trucks	Trucks transporting quarry products from 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
m AHD	metres Australian Height Datum
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 prior to or during those impacts occurring
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays
POEO Act	*Protection of the Environment Operations Act 1997*
Privately-owned land	Land that is not owned by a public agency or the Applicant (or its subsidiary)
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 and transportation of extractive materials on the site and the associated removal of vegetation, topsoil and overburden
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
Secretary	Secretary of the Department, or nominee
Site	The land described in Schedule 1
Statement of Commitments	The Applicant's commitments in Appendix 2

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 shall 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 shall carry out the development:

    (a) generally in accordance with the EIS;
    (b) in accordance with the Development Layout and Statement of Commitments; and
    (c) in accordance with the conditions of this consent.

    Notes:
    - *The Development Layout is shown in the figures in Appendix 1.*
    - *The Statement of Commitments is reproduced in Appendix 2.*

3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.

4. The Applicant shall comply with any reasonable 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;
    (b) any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this consent; or
    (c) the implementation of any actions or measures contained in these documents.

LAPSING OF CONSENT

5. If the development has not been physically commenced within 5 years of the date of this consent, then this development consent shall lapse.

LIMITS ON CONSENT

Quarrying Operations

6. The Applicant shall not extract extractive materials below a level of 1125 m AHD.

7. The Applicant may carry out quarrying operations on the site until 30 August 2045.

    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.

Production Limits

8. The Applicant shall not transport more than 400,000 tonnes of quarry products from the site in any calendar year.

9. The Applicant shall not transport more than 3,000 tonnes of quarry products from the site on any day.

SURRENDER OF EXISTING DEVELOPMENT CONSENTS

10. Within 6 months of the date of this consent, or as otherwise agreed by the Secretary, the Applicant shall surrender the development consent (DA 92/164) for the existing operations on the site in accordance with clause 97 of 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. Surrendering of consent should not be understood as implying that works legally constructed under a valid consent can no longer be legally maintained or used.

11. Prior to the surrender of development consent DA 92/164, the conditions of this consent shall prevail to the extent of any inconsistency with the conditions of development consent DA 92/164.

STRUCTURAL ADEQUACY

12. The Applicant shall 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.*

DEMOLITION

13. The Applicant shall 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

14. The Applicant shall:
   (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.

OPERATION OF PLANT AND EQUIPMENT

15. The Applicant shall 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

16. The Applicant shall:
   (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 (see condition 9 of Schedule 5).

IDENTIFICATION OF APPROVED EXTRACTION LIMITS

17. By 30 November 2015, unless otherwise agreed with the Secretary, the Applicant shall:
   (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the development area; and
   (b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.

18. While quarrying operations are being carried out, the Applicant shall ensure that these boundaries are clearly marked at all times in a manner that allows operating staff to clearly identify the approved limits of extraction.

DEVELOPMENT CONTRIBUTIONS

19. The Applicant shall pay Council road maintenance contributions for the maintenance/repair of public roads. The contribution shall be:
   (a) paid at a rate of $0.482 per tonne of extractive materials hauled from the site;
   (b) paid every month based on the material transported in the preceding month; and
   (c) indexed annually to changes in the Consumer Price Index (All Groups).

Notes: If the parties are not able to agree on any aspect of the road maintenance contributions, either party may refer the matter to the Secretary for resolution.

SCHEDULE 3
ENVIRONMENTAL PERFORMANCE CONDITIONS

NOISE

Hours of Operation

1. The Applicant shall comply with the operating hours set out in Table 1.

Table 1: Operating Hours

Activity	***Operating Hours***
Extraction operations	7 am to 6 pm Monday to Friday 7 am to 5 pm Saturday
Loading and dispatch	6 am to 10 pm Monday to Friday 6 am to 5 pm Saturday
Construction and maintenance activities	7 am to 6 pm Monday to Friday 7 am to 4 pm Saturday
Blasting	9 am to 5 pm Monday to Saturday

Note: The Applicant may carry out other activities e.g. maintenance, on the site provided that these activities are conducted in a manner that is inaudible at all privately-owned residences.

2. The following activities may be carried out on the site outside the hours specified in condition 1:
   (a) delivery or dispatch of materials as requested by Police or other authorities; and
   (b) emergency work to avoid the loss of lives, property and/or to prevent environmental harm.

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

Noise Impact Assessment Criteria

3. The Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land.

Table 2: Noise criteria dB(A)

Receiver	***Day / Evening***	***Night***	
	$L_{Aeq(15\ min)}$	$L_{Aeq(15\ min)}$	$L_{A1(max)}$
All privately-owned residences	35	35	45

   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, these criteria do not apply if the Applicant has an agreement with the relevant landowner to exceed the noise criteria in Table 2, and the Applicant has advised the Department in writing of the terms of this agreement.

Operating Conditions

4. The Applicant shall:
   (a) implement best practice management to minimise the operational and road transportation noise of the development;
   (b) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 4);
   (c) carry out noise monitoring (at least every 3 months, unless otherwise approved by the Secretary) to determine whether the development is complying with the relevant conditions of this consent; and
   (d) 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.

Noise Management Plan

5. The Applicant shall prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:

(a) be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;
(b) describe the measures that would be implemented to ensure compliance with the noise criteria and operating conditions of this consent;
(c) describe the proposed noise management system in detail; and
(d) include a monitoring program to be implemented to measure noise from the development against the noise criteria in Table 2, and which evaluates and reports on the effectiveness of the noise management system on site.

BLASTING

Blasting Impact Assessment Criteria

6. The Applicant shall ensure that blasting on site does not cause any exceedance of the criteria in Table 3.

Table 3: Blasting Criteria

Location	***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 landowner to exceed the limits in Table 3, and the Applicant has advised the Department in writing of the terms of this agreement.

Blasting Frequency

7. 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

8. During blasting operations, the Applicant shall:
(a) implement best management practice to:
- protect the safety of people and livestock in areas surrounding blasting operations;
- protect public or private infrastructure/property in the surrounding area from damage from blasting operations; and
- minimise dust and fume emissions from blasting;

(b) operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and
(c) 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

9. The Applicant shall prepare and implement 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 6 months of the date of 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 in conditions 7 and 8 above;
(c) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent;
(d) include community notification procedures for the blasting schedule; and
(e) include a protocol for investigating and responding to complaints.

AIR QUALITY

Air Quality Impact Assessment Criteria

10. The Applicant shall 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 4 at any residence on privately-owned land.

Table 4: Air Quality Criteria

Pollutant	***Averaging Period***	***Criterion***	
Particulate matter < 10 µm (PM_{10})	Annual	[a,d] 30 µg/m^3	
Particulate matter < 10 µm (PM_{10})	24 hour	[b] 50 µg/m^3	
Total suspended particulates (TSP)	Annual	[a,d] 90 µg/m^3	
[c] Deposited dust	Annual	[b] 2 g/m^2/month	[a,d] 4 g/m^2/month

Notes to Table 4:
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 11 and 12 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.

Operating Conditions

11. The Applicant shall:
    (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 4);
    (d) monitor and report on compliance with the relevant air quality conditions in this consent;
    (e) implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site; and
    (f) minimise the area of surface disturbance and undertake progressive rehabilitation of the site,
    to the satisfaction of the Secretary.

Air Quality Management Plan

12. The Applicant shall prepare and implement an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:
    (a) be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;
    (b) describe the measures that would be implemented to ensure compliance with the air quality criteria and operating conditions of this consent;
    (c) describe the proposed air quality management system;
    (d) 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.

Meteorological Monitoring

13. For the life of the development, the Applicant shall 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.

SOIL AND WATER

Water Supply

14. The Applicant shall 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 the necessary water licences for the development, including in respect of the extraction and/or interception of groundwater.

Water Pollution

15. Unless an EPL authorises otherwise, the Applicant shall comply with Section 120 of the POEO Act.

Water Management Plan

16. The Applicant shall prepare and implement a Water Management Plan for the development to the satisfaction of the Secretary. This plan must:
    (a) be prepared by suitably qualified person/s approved by the Secretary;
    (b) be prepared in consultation with the EPA and DPI-Water;
    (c) be submitted to the Secretary for approval within 6 months of the date of 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.
        - measures that would be implemented to minimise clean water use on site;

        (ii) 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;
        - a detailed description of the surface water management system on site including the:
            - clean water diversion system;
            - erosion and sediment controls;
            - dirty water management system; and
            - water storages; and
        - a program to monitor and report on:
            - any surface water discharges;
            - the effectiveness of the water management system;
            - maintaining sufficient dirty water storage capacity to avoid discharges of sediment-laden water; and
            - surface water flows and quality in local watercourses;

        (iii) Groundwater Management Plan, that includes:
        - baseline data on groundwater levels, yield and quality in local aquifers and privately-owned groundwater bores that could be potentially affected by the development;
        - a program to monitor and report on groundwater inflows to the quarry pit and the impacts of the development on surrounding aquifers and privately-owned groundwater bores; and
        - an analysis of the monitoring results to predict long-term water levels within the quarry void; and

        (iv) Surface and Ground Water Contingency Strategy, that includes:
        - a protocol for the investigation, notification and mitigation of identified impacts on surface water flows and quality in water bodies and/or groundwater levels, yield and quality in local aquifers and privately-owned groundwater bores that could be potentially affected by the development; and
        - the procedures that would be followed if any unforeseen impacts are detected during the development.

TRANSPORT

Monitoring of Product Transport

17. The Applicant shall keep accurate records of all truck movements to and from the site (hourly, daily, weekly, monthly and annually) and publish a summary of records on its website every 6 months.

Operating Conditions

18. The Applicant shall ensure that:
    (a) all reasonable measures are taken such that laden trucks have appropriate signage, including a contact phone number, so they can be easily identified by road users;
    (b) all laden trucks entering or exiting the site have their loads covered;
    (c) all laden trucks exiting the site are cleaned of material that may fall on the road, before leaving the site;
    (d) during the periods 6 am to 7 am and 6 pm to 10 pm, a maximum of 4 laden vehicles per hour shall leave the site; and
    (e) no trucks queue at the entrance to the site before 6 am.

Further Road Maintenance and Contributions

19. Within 6 months from the date of this consent the Applicant shall provide and install "Intersection Advance" (G1-207) warning signage on the eastbound approach to the intersection of Duckmaloi Road and Titania Road.

20. Within two weeks of receiving a written request from Council, or as otherwise agreed by Council, the Applicant shall:
    (a) provide Council with sufficient 14/7 mm sealing aggregate for the intersections of Shooters Hill and Edith Roads; Edith and Titania Roads; and Titania and Duckmaloi Roads; and
    (b) provide Council with sufficient DGB 20 road base to reconstruct the pavement at the intersection of Edith and Titania Roads to a depth of 200 mm.

    Notes:
    - *The minimum required quantities of materials for each intersection listed in 20(a) and 20(b) are shown in Appendix 5.*
    - *If the parties are not able to agree on any aspect of the maintenance contributions, either party may refer the matter to the Secretary for resolution.*

Transport Management Plan

21. The Applicant shall prepare and implement a Transport Management Plan for the development to the satisfaction of the Secretary. This plan must:
    (a) be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;
    (b) include a Drivers' Code of Conduct to minimise the impacts of development-related trucks on local residences and road users; and
    (c) describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct.

LANDSCAPE AND REHABILITATION

Rehabilitation Objectives

22. The Applicant shall rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy set out in the EIS and the conceptual final landform shown in Appendix 3 and must comply with the objectives in Table 5.

Table 5: Rehabilitation Objectives

Feature	***Objective***
Site (as a whole)	• Safe, stable and non-polluting • Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land
Surface Infrastructure	• Decommissioned and removed, unless DRE agrees otherwise
Quarry Benches	• Landscaped and vegetated using native tree and understorey species

Quarry Pit Floor	• Landscaped and revegetated using improved pasture species, native trees and understorey species
Final Void	• Minimise the height and slope of batters • Minimise the drainage catchment
Community	• Ensure public safety • Minimise the adverse socio-economic effects of quarry closure

Progressive Rehabilitation

23. The Applicant shall 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.

Landscape and Rehabilitation Management Plan

24. The Applicant shall prepare and implement a Landscape and Rehabilitation Management Plan for the development to the satisfaction of the Secretary. This plan must:
(a) be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;
(b) provide details of the conceptual final landform and associated land uses for the site;
(c) describe the short, medium and long-term measures that would be implemented to ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this consent;
(d) 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 the 3 years covered by the initial approval of the plan) including the procedures to be implemented for:
- maximising the salvage of environmental resources within the approved disturbance area for beneficial reuse;
- protecting vegetation and fauna habitat outside the approved disturbance area on-site;
- minimising the impacts on native fauna;
- landscaping the site to minimise visual and lighting impacts;
- reviewing improved pasture species and application rates;
- controlling weeds and feral pests;
- controlling erosion;
- controlling access; and
- bushfire management;

(e) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;
(f) identify the potential risks to the successful rehabilitation of the site, and include a description of the contingency measures that would be implemented to mitigate these risks; and
(g) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

Rehabilitation Bond

25. Within 6 months of the approval of the Landscape and Rehabilitation Management Plan, the Applicant shall lodge a Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is implemented in accordance with the performance and completion criteria set out in the plan and relevant conditions of this consent. The sum of the bond shall be determined by:
(a) calculating the cost of rehabilitating the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and
(b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs,
to the satisfaction of the Secretary.

Notes:
- *If capital and other expenditure required by the Landscape 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 rehabilitation of the site is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is 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.*

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

VISUAL

27. The Applicant shall 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

28. The Applicant shall:
    (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.

29. Except as expressly permitted in an EPL, the Applicant must not receive waste at the site for storage, treatment, processing, reprocessing or disposal.

LIQUID STORAGE

30. The Applicant shall ensure that all tanks and similar facilities for storage of liquids (other than for water) are protected by appropriate bunding, which must exceed 110% of the stored volume of the liquid.

DANGEROUS GOODS

31. The Applicant shall 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

32. The Applicant shall:
    (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. As soon as practicable after obtaining monitoring results showing:
   (a) an exceedance of any relevant criteria in Schedule 3, the Applicant shall 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 shall 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

2. 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 shall:
   (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.

SCHEDULE 5
ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

1. The Applicant shall prepare and implement 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 date of this consent;
   (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.

Management Plan Requirements

2. The Applicant shall 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.

Application of Existing Management Plans

3. Prior to the approval of management plans under this consent, the Applicant shall manage development undertaken pursuant to this consent in accordance with any equivalent or similar management plan/s required under development consent DA 92/164.

Staged Submission of Strategies, Plans or Programs

4. With the approval of the Secretary, the Applicant may submit any strategies, plans or programs required by this consent on a progressive basis.

   Note: If the submission of any strategy, plan or program is to be staged; then the Applicant must ensure that the existing strategy, plan or program clearly describes the specific stage to which the strategy, plan or program *applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.*

Revision of Strategies, Plans & Programs

5. Within 3 months of the submission of an:
   (a) incident report under condition 7 below;
   (b) annual review under condition 9 below;
   (c) audit report under condition 10 below; and
   (d) any modifications to this consent,

   the Applicant shall review the strategies, plans and programs required under this consent, to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Secretary.

   Note: *The purpose of this condition is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve environmental performance of the development.*

Adaptive Management

6. 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.

REPORTING

Incident Reporting

7. The Applicant shall immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant shall 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 shall 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 March each year, or other timing as may be agreed by the Secretary, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:
   (a) describe the development (including any rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;
   (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar 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 EIS;
   (c) identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance;
   (d) identify any trends in the monitoring data over the life of the development;
   (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
   (f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.

INDEPENDENT ENVIRONMENTAL AUDIT

10. Within a year of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:
    (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
    (b) include consultation with the relevant agencies;
    (c) 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);
    (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and
    (e) 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.

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

11. Within 6 weeks of completion of this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

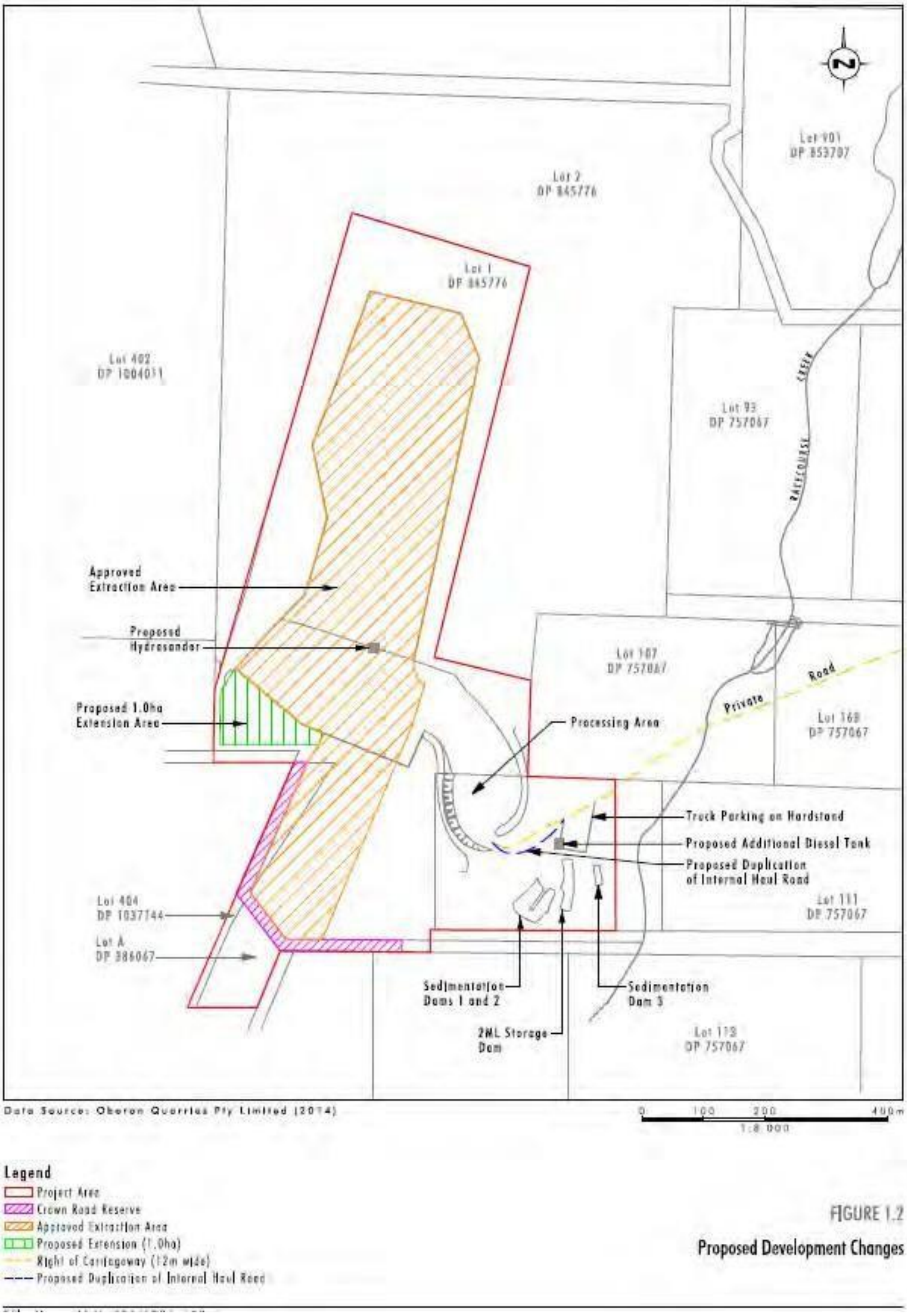
ACCESS TO INFORMATION

12. Within 6 months of the date of this consent, the Applicant shall:
    (a) make the following information publicly available on its website:
    - the documents listed in condition 2 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

    (b) keep this information up-to-date,

    to the satisfaction of the Secretary.

APPENDIX 1
DEVELOPMENT LAYOUT



APPENDIX 2
STATEMENT OF COMMITMENTS

Clause 7(1)(e) of Schedule 2 EP&A Regulation Requirements requires that the EIS include a compilation of the mitigation measures (refer to **Section 4.2.1.2**).

If development consent is granted under Part 4 of the EP&A Act for the Project, Oberon Quarries will commit to the following controls.

Hours of Operation

Oberon Quarries' approved hours of operation are as per Condition 16 of DA 92/164, and are dependent on the activity being undertaken; approved hours are detailed in **Table 7.1**. Hours of operation will not change as a result of the Project.

Table 7.1 – Approved Hours of Operation

Activity	Approved Hours of Operation
Quarrying and Processing Areas	7.00 am to 6.00 pm, Mondays to Fridays 7.00 am to 5.00 pm, Saturdays No quarrying or processing shall be undertaken on Sundays or public holidays.
Loading Haul Trucks	6.00 am to 10.00 pm, Mondays to Fridays 6.00 am to 5.00 pm, Saturdays No loading of haul trucks shall be undertaken on Sundays or public holidays.
Product Delivery	6.00 am to 10.00 pm, Mondays to Fridays 6.00 am to 5.00 pm, Saturdays No product delivery trucks are to enter the quarry prior to 6.00 am on any day. During the periods 6.00 am to 7.00 am and 6.00 pm to 10.00 pm a maximum of 4 laden delivery trucks shall leave the site per hour (total 8 truck movements per hour).
Construction of Haul Road and Quarry Infrastructure	7.00 am to 6.00 pm Mondays to Fridays 7.00 am to 4.00 pm Saturdays No construction shall be undertaken on Sundays or public holidays.
Maintenance	7.00 am to 6.00 pm Mondays to Fridays 7.00 am to 4.00 pm Saturdays

Erosion and Sediment Control

Current site infrastructure and management practices successfully manage sediment and erosion control for the operation. Surface water management infrastructure at the quarry has been established and fully operational since 1995. The existing water management system at the site includes diversion drains, catch drains and sedimentation dams. Diversion drains and embankments have been constructed around the disturbance area and are vegetated. Catch drains have been constructed with rock weirs and convey sediment-laden runoff from the extraction area to a series of sedimentation dams.

In addition to the diversion drains and sedimentation ponds, Oberon Quarries will continue to implement localised sediment and erosion controls, as required, in accordance with *Managing Urban Stormwater – Soils and Construction* (Landcom, 2001) to reduce the impacts on the water quality in the quarry's dirty water management system.

Noise

Key noise management and mitigation measures to limit potential operational noise impacts currently being implemented at Oberon Quarries' operations and that will be applied to future operations include:

- consideration of seasonal influences on noise impacts, to avoid or otherwise minimise noise impacts to sensitive receivers;
- undertaking prescribed works within the approved hours of operation. Works undertaken outside these hours include:
  - emergency work to avoid the loss of life, property and/or prevent environmental harm; and
  - any other work as agreed through negotiation between Oberon Quarries and potentially affected noise receivers or as otherwise agreed by the EPA.
- where practical aural reversing alarms on mobile plant will be muffled;
- regular inspections of all site plant and equipment to ensure ongoing compliance with manufacturers' noise specifications;
- provision of noise awareness training to site workers;
- positioning (i.e. location and orientation) mobile plant and equipment to minimise any potential noise impact on the surrounding residential receivers;
- implementing noise attenuation controls, where feasible, on mobile and stationary equipment that is potentially generating noise levels above that predicted and/or are generating noise complaints;
- installation of a new crushing plant that has a SWL 6 dB less than the existing equipment and the screening plant that has a SWL 3 dB less than the existing equipment;
- limiting truck speeds on the internal haul roads to 40 km/h;
- not permitting the use of compression brakes on internal haul roads and Oberon Quarry Road;
- drilling associated with blasting will only take place between the hours of 7.00 am and 6.00 pm, 5 days per week;
- restricting truck movements during the periods 6.00 am to 7.00 am and 6.00 pm to 10.00 pm to a maximum of 4 laden truck movements per hour (total 8 truck movements per hour);
- undertaking noise compliance monitoring and reporting (i.e. attended noise monitoring to assess compliance and assist with minimising impacts) once the new crusher and screen are installed. A noise report will be prepared by an independent and suitably qualified person, to assess compliance with the noise levels generated by the quarrying, processing and transportation of quarry products; and
- minimising noise impacts at residential locations, unless there is an alternative agreement with the private resident.

Oberon Quarries will operate a community contact line. The local community is encouraged to use this point of contact to report any instances of excessive noise. All enquiries are to be recorded and the subsequent investigation, action and response logged. The action taken is also communicated to the person who made the enquiry.

These are considered the only feasible measures available to mitigate noise impacts.

Blasting

Oberon Quarries will continue to implement the existing blast management measures:

- all relevant quarry personnel will be trained on the environmental obligations in relation to blasting controls;
- the surrounding landowners and Council will be notified prior to undertaking a blast;
- the date, location of blast holes and quantity of explosive used each day will be documented;
- blasts will be designed to comply with overpressure and vibration criteria;
- monitoring will be undertaken at the nearest private residence and/or other sensitive locations (as required) to verify compliance with the relevant criteria (refer to **Figure 6.1**);
- the maximum number of holes to be detonated in a blast is 150;
- sufficient distance will be maintained between the blast hole and the quarry face;
- appropriate delays will be used;
- blast monitoring data will be used on an ongoing basis to further refine the blast design and management;
- blast design and blast management procedures will be periodically reviewed to evaluate performance and identify corrective action, if required; and
- blasting will be undertaken between 9.00 am and 5.00 pm, Monday to Saturday inclusive, except under apparent temperature inversions conditions when blasting shall only occur between 11.00 am and 1.00 pm Monday to Saturday. No blasting is undertaken on Sundays or public holidays, without approval of the Secretary.

Air Quality

Oberon Quarries has committed to implementing the following dust management and mitigation practices:

- regular watering of unsealed haul roads within the extraction and processing areas and working areas;
- mist sprays on conveyors discharging to product stockpiles;
- limiting vehicles speeds on unsealed surfaces to 40 km/h;
- progressive stabilisation/rehabilitation of exposed areas no longer needed for operational purposes;

- rehabilitating the final landform surface as soon as practicable;
- minimisation of the total disturbed/working areas at any one time;
- implementing temporary stabilisation measures (e.g. cover crops or mulch) on disturbed areas soon as practicable, if rehabilitation is not to be undertaken within the coming three months;
- where practical/possible conduct drilling and blasting during suitable meteorological conditions (i.e. not during high winds);
- drill holes will be capped with stemming to restrict the upward emission of dust;
- undertaking preventative maintenance on all dust suppression plant and equipment;
- truck wheel wash facility will be maintained to be fully functional;
- covering of all laden trucks leaving the site; and
- monitoring of depositional dust levels and analysis of the data for trends (refer to **Figure 6.1** for locations).

Oberon Quarries will continue to implement the existing air quality monitoring program which comprises four dust deposition gauges and monitor the dust levels at these locations at monthly sample intervals.

These are considered the only feasible measures available to mitigate air quality impacts.

Surface Water

The existing water management system including diversion drains, catch drains and sedimentation dams will continue to be managed as per current operations. The system can and will be readily augmented to allow for the additional 1.0 hectare extension area.

Oberon Quarries holds a surface water licence (80SI05018, WAL 34279) that allows extraction of water from Racecourse Creek. No other water licensing will be required for the continued operation of the quarry.

In addition Oberon Quarries will continue to implement localised sediment and erosion controls, as required, in accordance with *Managing Urban Stormwater – Soils and Construction* (Landcom, 2001) to reduce the impacts on the water quality in the quarry's dirty water management system.

Surface water monitoring will continue in accordance with Condition 26 of DA 92/164, and EPL Condition P1.3, surface water quality is monitored at two sites on Racecourse Creek (refer to **Figure 6.1**):

- W1 – upstream of the quarry; and
- W2 – downstream of the quarry.

The samples are analysed for pH, conductivity, turbidity, non-filterable residue (NFR), total nitrogen (TKN), total phosphorus (TP), and total petroleum hydrocarbons (TPH).

EPL condition M2.1 requires the monitoring of Oil & Grease, Total Suspended Solids (TSS) and pH. TPH has been used at the quarry for many years as a suitable measurement for Oil & Grease.

Groundwater

Groundwater will continue to be monitored in accordance with Condition 26 of DA 92/164. Oberon Quarries undertakes groundwater monitoring to determine any potential impacts as a result of quarry operations. Groundwater is monitored for pH and conductivity at a spring-fed dam (GW1) at 'Langley Heights', downslope of the quarry on Racecourse Hill (refer to **Figure 6.1**).

Traffic and Transport

In accordance with existing consent requirements, Oberon Quarries pays and will continue to pay Oberon Council a tonnage based and indexed road maintenance contribution for wear and tear on roads (i.e. road pavement damage).

Flora and Fauna

To ensure the ecological impacts of the quarry are minimised, Oberon Quarries has committed to implementing the following management and mitigation measures:

- installing survey pegs to mark the extent of extraction;
- create a stable final landform within the quarry pit consisting of self-sustaining vegetation communities characteristic of the pre quarry environment;
- progressively conduct rehabilitation and revegetation of the post quarry area over the life of the operations and as quarrying operations of the second bench allow (refer to **Section 6.18**);
- minimising the extent of vegetation clearance to that associated with the next blast area; and
- identifying the weed management controls for the Project Area, i.e. types of weeds known to be present, required control methods and frequencies, as well as monitoring frequencies.

Aboriginal Archaeology

To ensure the archaeological impacts of the quarry are minimised, Oberon Quarries has committed to implementing the following management and mitigation measures:

- Oberon Quarries should ensure that all parties involved in the Project are aware that it is an offence under Section 86 of the NPW Act to harm or desecrate an Aboriginal object unless that harm or desecration is the subject of an AHIP;
- Oberon Quarries will submit an ASIR form to correct the status of site AHIMS #44-6-0060, which appears as valid on the AHIMS database but was located within the approved extraction area;
- in the event that an Aboriginal object (or objects) is uncovered during the proposed works, ground disturbance works will cease within 20 metres of the object(s) and OEH and the relevant Aboriginal parties will be contacted so that appropriate management strategies can be identified;

- In the unlikely event that a potential burial site or potential human skeletal material is exposed within the Project Area, the following procedure should be followed in accordance with the *Policy Directive – Exhumation of Human Remains* (NSW Department of Health, 2008), *Skeletal Remains – Guidelines for the Management of Human Skeletal Remains under the Heritage Act 1977* (NSW Heritage Office, 1998) and the *Aboriginal Cultural Heritage Standards and Guidelines Kit* (NPWS, 1997):
  - as soon as remains are exposed, work in the vicinity of the remains is to halt immediately to allow assessment and management;
  - the relevant manager of the project will be informed and will contact local police, OEH and the Heritage Branch;
  - if the remains are suspected to be human, a physical or forensic anthropologist should inspect the remains *in situ*, and make a determination of whether the remains are human and if so, the likely ancestry (Aboriginal or non-Aboriginal) and antiquity (pre-contact, historic or forensic);
  - if the remains are identified as forensic the area is deemed as crime scene;
  - if the remains are identified as Aboriginal, the site is to be secured and OEH and the relevant Aboriginal parties are to be notified in writing; or
  - if the remains are non-Aboriginal (historical) remains, the site is to be secured and the Heritage Branch is to be contacted.

  This process functions only to appropriately identify the remains and secure the site. From this time, the management of the remains is to be determined through liaison with the appropriate stakeholders and in accordance with the *Public Health Act 1991*.

Greenhouse Gas and Energy

There are a number of mitigation and management measures proposed to be implemented for the ongoing operations. These are outlined in **Table 7.2** below.

Table 7.2 – Greenhouse Gas and Energy Mitigation and Management Measures

Mitigation/Management Measure	Application
Improving transport diesel use efficiency	
Limiting the length of transport routes	The transport route is selected based on considering the shortest route and traffic congestion/delays.
Fuel efficient haul trucks	The existing transport fleet over the life of the ongoing operations will be replaced by more efficient trucks. Fuel use efficiency will be an important factor in selecting new haul trucks.
Maximising payload	Oberon Quarries ensure the each truck carries the maximum legal payload.
Reducing idling times	Oberon Quarries will continuously try to improve idle times. Idle times are typically minimal given there is a front end loader specifically for truck loading.
Improving on-site diesel use efficiency	
Scheduling activities so that equipment and vehicle operation is optimised	Quarry operations are scheduled to optimise the productivity and efficiency of equipment.

Table 7.2 – Greenhouse Gas and Energy Mitigation and Management Measures (cont)

Mitigation/Management Measure	Application
Fuel efficient equipment	The existing quarry fleet over the life of the ongoing operations will be replaced by more efficient trucks, excavators and front end loaders. Fuel use efficiency will be an important factor in selecting quarry fleet.
Blasting strategies to improve extraction efficiency	Blasting will be undertaking using best practice.
Maximising resource recovery efficiency	Resource recovery will be optimised within the constraints of the Project.
Working machines to their upper design performance	Machines will be worked to their upper design performance. Optimising machine performance is a key performance indicator for operators. This will be an important factor in selecting new machines.
Haul Truck Options	
Limiting the length of material haulage routes	The quarry planning process paid particular attention to reducing haul route distances.
Optimising ramp gradients	Over the life of the quarry the excavation depth will be increased, thereby reducing the haul road gradient between the processing area and the quarry pit.
Fuel efficient haul trucks	The existing haul truck over the life of the ongoing operations will be replaced by a more efficient truck. Fuel use efficiency will be an important factor in selecting new haul trucks.
Maximising payload	Trucks will be matched with excavators to maximise payload.
Improving rolling resistance of haul roads	Haul road locations are constantly changing and it would be very expensive to pave every haul route. The haul roads are regularly maintained to improve the rolling resistance of haul roads.
Reducing idling times	Oberon Quarries will continuously try to improve idle times. Idle times are typically minimal given there is a front end loader and/or excavator specifically for haul truck loading.
Improving electricity efficiency of processing equipment	
Reducing reject percentage	The installation of the new crushers is expected to reduce the percentage of 5 millimetres minus material that is created from 30 per cent to 25 per cent. This results in a 5 per cent efficiency gain in production and reduces the need for double handling. It is anticipated that the existing markets for the 5 millimetres minus material will be expanded over time and new markets will be developed such as production of manufactured sand as is proposed. This has the potential to create up to a 25 per cent gain in energy efficient per tonne of product.
High efficiency motors	Will occur as part of on-going upgrades to the processing plant. Likely to be financially reasonable
Variable Speed Drives	Will occur were appropriate as part of on-going upgrades to the processing plant. Likely to be financially reasonable.
Optimising motor size to load	Will occur as part of on-going upgrades to the processing plant.
Optimising basalt throughput	The processing plant has been designed to match the maximum through put of the quarry.

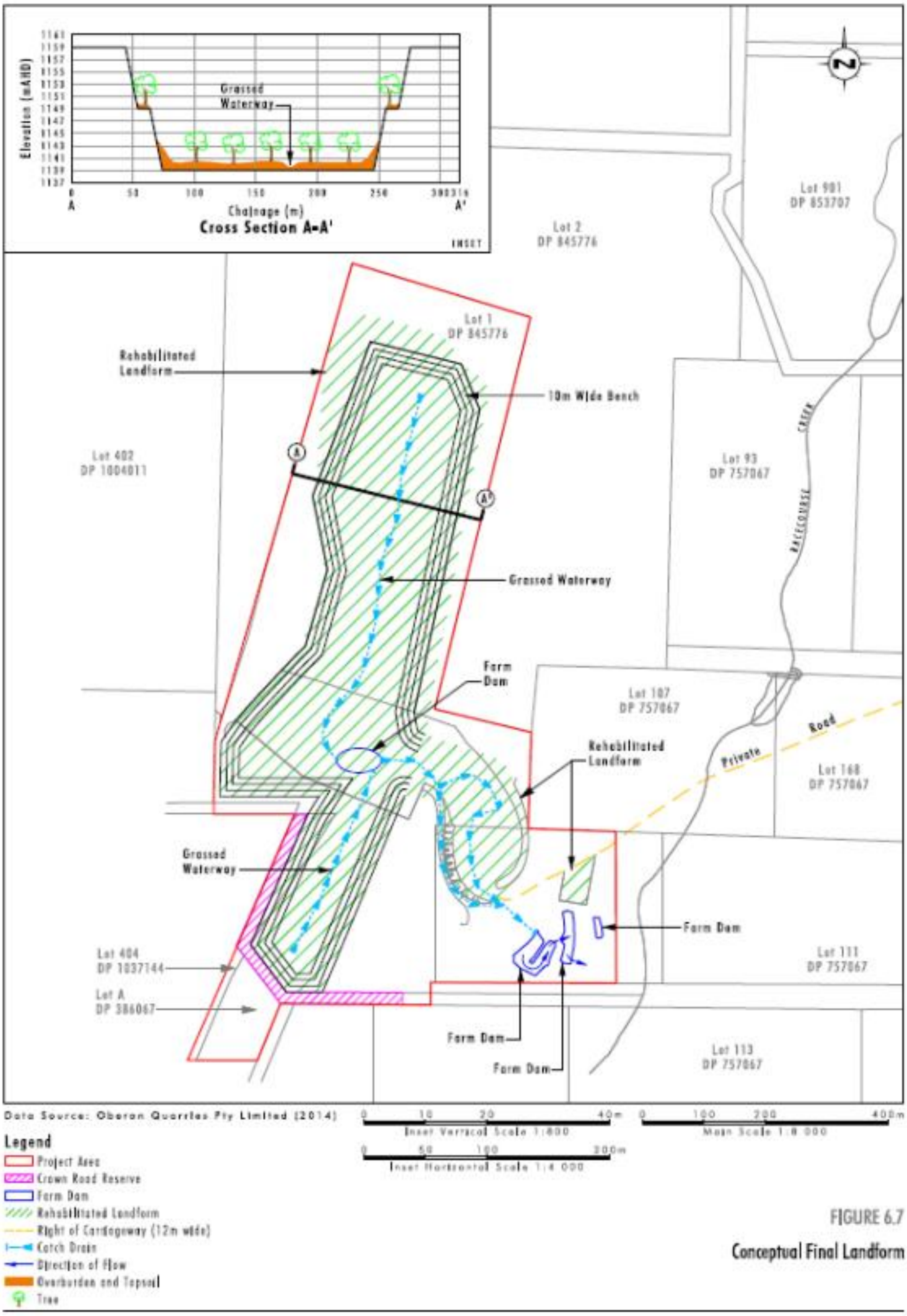
Waste

The current site waste management practices will continue to be implemented for the life of the Project.

Bushfire

The Council approved Bushfire Management Plan for the site will continue to be implemented for the life of the Project.

APPENDIX 3
CONCEPTUAL FINAL LANDFORM



APPENDIX 4
NOISE COMPLIANCE ASSESSMENT

Applicable Meteorological Conditions

1. The noise criteria in Table 2 of the conditions is 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) stability category F temperature inversion conditions and wind speeds greater than 2 m/s at 10 m above ground level; or
   (c) stability category G temperature inversion conditions.

Determination of Meteorological Conditions

2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions shall be that recorded by the meteorological station required under condition 13 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) meteorological conditions during which collection of noise data is not appropriate;
   (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and
   (d) 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
ROAD MATERIALS CONTRIBUTIONS

The quantities of materials to be provided for each intersection are as follows:

(a) Shooters Hill/Edith Road Intersection (surface area 1400 m^2) — 21.5 tonnes of sealing aggregate;
(b) Edith/Titania Road Intersection (surface area 1500 m^2) — 23 tonnes of sealing aggregate and 750 tonnes of road base; and
(c) Titania/Duckmaloi Road Intersection (surface area 1300 m^2) — 20 tonnes of sealing aggregate.

APPENDIX 8

Oberon Quarry Environment Protection Licence 4442

Section 55 Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 4442

Licence Details	
Number:	4442
Anniversary Date:	11-January

Licensee
OBERON QUARRIES PTY. LIMITED
315 COMMERCIAL ROAD
VINEYARD NSW 2765

Premises
"LANGLEY HEIGHTS" HARD ROCK QUARRY
HARGRAVES QUARRY ROAD
OBERON NSW 2787

Scheduled Activity
Crushing, grinding or separating
Extractive activities

Fee Based Activity	Scale
Crushing, grinding or separating	> 100000-500000 T annual processing capacity
Extractive activities	> 100000-500000 T annually extracted or processed

Contact Us
NSW EPA 6 Parramatta Square 10 Darcy Street
PARRAMATTA NSW 2150
Phone: 131 555
Email: info@epa.nsw.gov.au
Locked Bag 5022 PARRAMATTA NSW 2124

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);
- 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. 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:

OBERON QUARRIES PTY. LIMITED
315 COMMERCIAL ROAD
VINEYARD NSW 2765

subject to the conditions which follow.

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 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, fee-based activity classification and the scale of the operation.

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	Fee Based Activity	Scale
Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity
Extractive activities	Extractive activities	> 100000 - 500000 T annually extracted or processed

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
"LANGLEY HEIGHTS" HARD ROCK QUARRY
HARGRAVES QUARRY ROAD
OBERON
NSW 2787
LOT 94 DP 757067, LOT 107 DP 757067, LOT 108 DP 757067, LOT 2 DP 845776, LOT 3 DP 845776, LOT 1 DP 1087170, LOT 2 DP 1087170, LOT 3 DP 1087170, LOT 1 DP 1227662
PARISH OF NORWAY, OBERON LOCAL GOVERNMENT AREA

A3 Information supplied to the EPA

A3.1 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 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

Air

EPA identi-fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Dust deposition monitoring		Labelled as "D1" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04).
2	Dust deposition monitoring		Labelled as "D2" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04)
3	Dust deposition monitoring		Labelled as "D3" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04).
4	Dust deposition monitoring		Labelled as "D4" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04).

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.

L2 Waste

L2.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.

L2.2 This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if it requires an environment protection licence.

L3 Noise limits

L3.1 Noise from the premises must not exceed 35 dB(A) $L_{Aeq(15\ minute)}$ at any noise sensitive location at any time.

Where L_{Aeq} means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.

Note: The above noise limits do not apply at properties where the licensee has a written agreement with the landowner to exceed the noise limits.

Note: 'Noise sensitive locations' include buildings used as a residence, hospital, school, child care centre, places of public worship and nursing homes. A noise sensitive location includes the land within 30 metres of the building.

L3.2 The noise limits in Condition L4.1 apply under all meteorological conditions except for the following:
a) Wind speeds greater than 3m/s at 10 metres above ground level; or
b) Stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10 metres above the ground level; or
c) Stability category G temperature inversion conditions.

L3.3 For the purposes of condition L4.2:
a) Data recorded by the nearest Bureau of Meteorolgy station must be used to determine meteorological conditions; and
b) Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy.

L3.4 To determine compliance with condition L4.1, noise from the premises is to be measured:
a) approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or
b) within 30 metres of a dwelling façade, but not closer than 3 metres where any dwelling on the property is more than 30 metres from the boundary closest to the premises.

L3.5 For the purposes of determining the noise generated at the premises the modification factors in Fact Sheet C of the Noise Policy for Industry (EPA, 2017) must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.

L4 Blasting

L4.1 The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

L4.2 The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

L4.3 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

L4.4 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

Note: 1. The airblast overpressure and groundvibration levels in conditions L5.1 to L5.4 do not apply at noise sensitive locations that are owned by the licensee or subject to a private agreement, relating to airblast overpressure and ground vibration levels, between the licensee and land owner.
2. "Noise sensitive locations" includes buildings used as a residence, hospital, school, child care centres, places of public worship and nursing homes. A noise sensitive location includes the land within 30 metres of the building.

L5 Hours of operation

L5.1 All work at the premises must be conducted between the following hours:
Quarrying and processing 7.00am to 6.00pm Mondays to Fridays, 7.00am to 5.00pm Saturdays. Other activities (loading trucks/product delivery) 6.00am to 10.00pm Mondays to Fridays, 6.00am to 5.00pm Saturdays.

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

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

O3.2 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

O4 Processes and management

O4.1 All chemicals and fuels and explosives must be handled and stored in a bunded area which complies with the specifications of the relevant Australian Standard and legislative requirements.

O4.2 Contingency and emergency management plans must be developed and implemented for the spill of any chemical and fuel.

O5 Other operating conditions

O5.1 The licensee must undertake maintenance to desilt all sediment ponds to retain their design storage capacities.

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:

M2.2 Air Monitoring Requirements

POINT 1

Pollutant	Units of measure	Frequency	Sampling Method

Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2022* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

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 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.

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.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').

R1.6 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.

R1.7 Within the Annual Return, the Statements 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.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.

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.

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.

7 General Conditions

G1 Copy of licence kept at the premises or plant

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.

Dictionary

General Dictionary

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 2009
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 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
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
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environmen t Operations Act 1997
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
licensee	Means the licence holder describe d at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
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.
restricted solid 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
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
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*.

Environment Protection Licence

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or 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 type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-putrescible), special waste or hazardous waste
Wellhead	Has the same meaning as in Schedule 1 to the Protection of the Environment Operations (General) Regulation 2021.

Mr Nigel Sargent

Environment Protection Authority

(By Delegation)

Date of this edition: 06-March-2000

End Notes

1	Licence varied by notice 1012728, issued on 18-Nov-2002, which came into effect on 13-Dec-2002.
2	Licence varied by correction to EPA File No. record, issued on 07-Oct-2005, which came into effect on 07-Oct-2005.
3	Licence varied by notice 1053136, issued on 07-Nov-2005, which came into effect on 02-Dec-2005.
4	Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
5	Licence varied by notice 1505071 issued on 11-May-2012
6	Licence varied by notice 1561955 issued on 02-May-2018
7	Licence varied by notice 1596765 issued on 03-Aug-2020
8	Licence varied by notice 1627624 issued on 28-Mar-2023
9	Licence varied by notice 1637029 issued on 06-May-2024