

October 2015

# Independent Environmental Audit Multiquip Quarries – ‘Ardmore Park’



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APPLIED ENVIRONMENTAL MANAGEMENT CONSULTANTS



**Independent Environmental Audit  
'Ardmore Park' Quarry**

**October 2015**

**trevor brown & associates  
applied environmental management consultants**

Report ID: Multiquip/Oct2015/Rev1

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## Executive Summary

An Independent Environmental Audit of the Multiquip 'Ardmore Park' Quarry Project was conducted in October 2015 to satisfy the requirement of Project Approval 08\_0173, Schedule 5 condition 6.

The quarry operation was in the early stages of site development, with extraction restricted to the hard rock (basalt) over layer in the north of the Central Basalt Area. Quarrying of hard rock materials commenced in November 2013 to produce materials for the construction of the Bungonia By-pass road works.

The 'Ardmore Park' Quarry activities were found to be operating generally in compliance with the conditions of the Project approval, with a number of Administrative Non-Compliances related to documentation and low risk non-compliances related to monitoring programs identified.

A summary of the conclusions of the audit findings are presented below:

***Environmental Management Strategy***      **Compliance Status:**      **Compliant**

The Environmental Management Strategy provides a sound basis for the management of the environmental matters related to the Ardmore Park Quarry development.

***Environmental Monitoring Program***      **Compliance Status:**      **Compliant**

The Environmental Monitoring Program consolidated the various requirements for meteorological monitoring, groundwater monitoring, surface water quality, air quality and noise monitoring required under in Project Approval 07\_0155 Schedule 3, into a single tabulated monitoring program of annual requirements for meteorology, groundwater, surface water, air quality and noise.

***Noise***      **Compliance Status**      **Compliant Ongoing**

A Noise Monitoring Program prepared by Heggies (2010) satisfies Project Approval 07\_0155 Schedule 3 conditions 6. The Noise Monitoring Program provides for annual noise monitoring once all components of the project are operating. The Noise Monitoring Program also provides for monitoring of traffic noise once quarry product transport operations commence. No transport of product for sale occurred during the November 2014 to October 2015 period. SLR Consulting Australia Pty Ltd was engaged to conduct noise monitoring in relation to a complaint received from Residence 6 (5094 Oallen Road, Bungonia) regarding noise emissions from the Ardmore Park Quarry. The noise survey found the LAeq(15minute) noise emissions from the quarry ranged from less than 15dBA to 35dBA at Residence 6 that complies with the 36dBA LAeq(15minute) Project Approval Noise assessment criteria.

***Air Quality***      **Compliance Status**      **Compliant**

The Air Quality Monitoring Program implemented for the 'Ardmore Park' Quarry is adequate for the assessment of dust deposition resulting from the quarry activities. The depositional dust results are generally less than 2g/m<sup>2</sup>/month criteria maximum increase in deposited dust at the monitoring sites to the east and southwest of the quarry site. The results from the Inverary site north of the Ardmore Park exhibited increased dust deposition that could not be attributed to activities occurring on Ardmore Park Quarry site. In response to visible dust complaint to the DP&E, crusher operations were improved to ensure that wind and environmental conditions are taken into account when the crusher is operated. Additional dust monitors are being installed to provide data on visible air pollution.



**Surface Water Management**

**Compliance Status**

**Compliant Ongoing**

Surface water management for the "Ardmore Park" Quarry has a combined resource area of approximately 60ha that drains to a common storage to the south of the quarry operations area (identified as Dam 7 within the Environmental Assessment (2008)). Dam 7 is operated as a Water Clarifying Pond and renamed CP3 in the Water Management Plan. The location of surface water management structures designed/recommended by SEEC Morse McVey (2008) to ensure erosion and sedimentation of the Project Site would be minimised and the capture and re-use of water maximised on the site. Surface water monitoring will occur at the locations shown in the water monitoring program during discharge events.

**Groundwater Monitoring**

**Compliance Status**

**Non-Compliant (Low Risk)**

The groundwater monitoring program required under the Environment Protection Licence 13213 conditions will provide an adequate baseline of data for the site if all piezometers/bores are available sampling. The monitoring conducted between November 2013 and October 2015 has indicated that the groundwater quality exhibits pH values near neutral; EC levels reflect the composition of the host geological formation; concentrations of cations and anions have been consistent over the period of the monitoring program; and South Spring and Phil's Spring water quality reflects the close proximity of the groundwater to the remnant basalt layers in the area. Not all monitoring specified in the Groundwater Monitoring Program was undertaken between November 2013 and October 2015, as several of the bores/piezometers established for the Environmental Assessment Groundwater Assessment had been compromised. These bores have been reinstated to ensure an adequate baseline data set for the site is obtained prior to commercial extraction of rock and sand from the quarry.

**Erosion and Sediment Control**

**Compliance Status**

**Currently Compliant**

The erosion and sediment control on the Ardmore Park Quarry site that is being implemented and managed in accordance with the Erosion and Sediment Control Plan developed by SEEC Morse McVey, provides for satisfactory management of surface water runoff and retention of sediment on the site in the settlement basins and establishment of clarifying ponds (Dam 7/CP3) allows for water quality management prior to any release from the site.

The management of erosion and sediment control along the Bungonia By-Pass has been improved with establishment of grass on disturbed areas along the alignment and sediment fences and settlement ponds in the vicinity of the Bungonia Creek crossing.

**Rehabilitation**

**Compliance Status**

**Ongoing**

No rehabilitation of disturbed areas of the quarry site had occurred at the date of this audit due to the works undertaken between November 2013 and October 2015 being mainly site establishment and road work on the Bungonia By-Pass. The Bungonia By-Pass works have included the stabilisation of embankments along the road alignment and establishment of erosion and sediment control structures in the vicinity of the Bungonia Creek bridge.

**Heritage Management**

**Compliance Status**

**Compliant**

An Aboriginal Heritage Management Plan was prepared by Kayandel Archaeological Services in September 2010 to satisfy Project Approval 07\_0155 Schedule 3 condition 24. Two Aboriginal heritage sites (ARD1 and ARD2) consisting of small artefact scatters were identified during the surface archaeological survey. The Cultural Heritage Assessment (2008) concluded it was unlikely that the 'Ardmore Park' Quarry operations would have any impact on identified items or sites of Aboriginal heritage significance.

The European Heritage Assessment (2008) identified Bungonia and the 'Reevesdale' and 'Inverary Park' properties as being of specific heritage significance and concluded that the "Ardmore Park" Quarry project site is located sufficiently distant from the identified heritage that the proposed activities would be unlikely to have any direct physical impact on these sites.

**Traffic Management**

**Compliance Status**

**Compliant Ongoing**

The Traffic Management Plan and Drivers Code of Conduct were prepared in September 2010 for the Ardmore Park Quarry by Christopher Hallam & Associates in consultation with Goulburn-Mulwaree Council and the Roads and Maritime Services, to satisfy Project Approval 07\_0155 Schedule 3 condition 27. The Traffic Management Plan will apply to all trucks/vehicles associated with the Ardmore Park Quarry and will be implemented as the quarry development progresses. Consultation in relation to finalising the Traffic Management Plan should occur as soon as practicable as part of the discussion on the final stages of the road widening program, to ensure that traffic management associated with the 'Ardmore Park' quarry activities comply with Project Approval 07\_0155 Schedule 3 condition 27.

A Road Safety Audit was conducted in July/August 2013 for the detailed design for Stages 1 and 2 of the proposed Transport Route for the Ardmore Park Quarry Project, Bungonia and the proposed upgrade of Oallen Ford Road from the private entrance to Ardmore Park, in accordance with the Roads & Traffic Authority's *Accident Reduction Guide Part 2: Road Safety Audits* (August 2005).

**Visual Amenity**

**Compliance Status**

**Compliant Ongoing**

Controls being implemented for the 'Ardmore Park' Quarry development to reduce the visibility of the quarry operations through establishment of areas of native vegetation to enhance the visual amenity of the largely cleared existing paddocks of the 'Ardmore Park' property. The visual amenity of the surrounding properties and residences will be minimised as far as practicable and the visual impact will not significantly affect the overall amenity of the local area.

# 1. Introduction

## 1.1 Background

Project Approval 07\_0155 was granted to CEAL Limited trading as Multiquip Quarries, by the Minister for Planning on 20 September 2009, for the establishment and operation of the 'Ardmore Park' Quarry Project at the 'Ardmore Park' property approximately 4km from Bungonia in the Goulburn Mulwaree Local Government Area (LGA).

This Independent Environmental Audit was commissioned by Multiquip Quarries and conducted by Trevor Brown of Trevor Brown & Associates to satisfy the requirements of Project Approval 08\_0173, Schedule 5 condition 6:

*INDEPENDENT ENVIRONMENTAL AUDIT*

*Within 2 years of the date of the commencement of quarrying operations, and every 3 years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:*

- (a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;*
- (b) include consultation with the relevant agencies;*
- (c) assess the environmental performance of the project, and its effects on the surrounding environment;*
- (d) assess whether the project is complying with the relevant standards, performance measures and statutory requirements; and*
- (e) review the adequacy of any strategy/plan/program required under this approval, and, if necessary, recommend measures or actions to improve the environmental performance of the project, and/or any strategy/plan/program required under this approval.*

The Independent Environmental Audit site inspection and documentation assessment for compliance with Project Approval 07\_0155 and other environmental approvals for the 'Ardmore Park' Quarry, was carried out in October 2015, by Trevor Brown (the Independent Environmental Auditor) endorsed by the Secretary of the Department of Planning and Environment on 17 September 2015.

## 1.2 Scope of Work

The Independent Environmental Audit was conducted generally in accordance with the Australian/New Zealand Standards ISO 19011:2002 – *Guidelines for Quality and/or Environmental Systems Auditing* and the *Independent Audit Guideline* (DP&E October 2015). The scope of work for the independent environmental audit of the 'Ardmore Park' Quarry operations included:

- review of compliance with Project Approval 07\_0155 conditions and other approvals for the project;
- conduct of a site inspection and review on-site documentation and monitoring data for the project, relevant to the audit;
- discussion of the development consent and other approval conditions and operation of the project with 'Ardmore Park' Quarry personnel;
- assessment of environmental performance of the development with the requirements in this Project Approval and Environment Protection Licence conditions (including any assessments, plans or programs required under these consents/approvals);
- review of the adequacy of strategies, plans or programs prepared under the consents/approval;
- provision of recommendations if considered necessary for implementation of measures or actions to improve environmental performance of the development, and/or any assessment, plan or program required under the project approvals; and
- preparation of the Independent Environmental Audit Report providing assessment of compliance against each approval condition and provision of recommendations or actions where considered

appropriate to improve the environmental performance of the development, and/or the environmental management and monitoring systems

### 1.3 Structure of the Report

The report has been prepared to provide comment on each condition of approval in a tabulated form, with additional discussion where required on specific matters provided in the main text of the Independent Environmental Audit Report. The tabulated comments on the conditions of approval are in the Attachments to this Independent Environmental Audit Report. The Audit Report sections are:

Section 1	Introduction
Section 2	'Ardmore Park' Quarry Project
Section 3	Environmental Approvals and Licenses
Section 4	'Ardmore Park' Quarry Status – October 2015
Section 4	Review of Environmental Management
Section 5	Conclusions and Recommendations
Attachment A	Project Approval (07_0155)
Attachment B	Statements of Commitment
Attachment C	Environment Protection Licence No. 13213

### 1.4 Compliance Tables

This audit assessed the activities for compliance with the intent of the Project Approval, and Environment Protection Licence conditions. The compliance status is expressed in the Attachments to this report as:

Status	Description
<b>Compliant</b>	Where verifiable evidence has been collected to demonstrate that the intent of the elements of the requirements of the regulatory approval and appropriateness of implementation against the Project Approval Condition has occurred.
<b>Compliant Ongoing</b>	The intent and specific requirements of the condition have been met and the requirements are ongoing for the operation of project.
<b>Administrative Non-compliance</b>	A technical non-conformance with a condition of the consent that would not result in any risk or material harm to the environment (e.g. the submission of a report to government later than required under the approval conditions).
<b>Non-Compliance – Low Risk</b>	Non-compliance with the potential for moderate environmental consequences, but is unlikely to occur, or, potential for low environmental consequence but is likely to occur.
<b>Non-Compliance – Moderate Risk</b>	Non-compliance with the potential for serious environmental consequences but unlikely to occur, or, potential for moderate environmental consequence but likely to occur.
<b>Non-Compliant – High Risk</b>	Non-compliance with the potential for significant environmental consequences, regardless of the likelihood of occurrence.
<b>Not active / Not triggered</b>	A regulatory approval requirement / condition has an activation or timing that had not been triggered at the time of the audit, therefore a determination of compliance could not be made.
<b>Noted</b>	A statement or fact where no assessment of compliance is required.

Any Non-compliance (if identified) will be subject to a risk assessment in accordance with the *Independent Audit Guideline* (DP&E October 2015) section 4.2 and reported in Conclusions of this Independent Environmental Audit Report.

## 1.5 Limitations of the Audit

The auditor received cooperation from Multiquip personnel during the audit. Any documentation that could not be located during the site visit / inspection and document review, was requested and provided to the auditor subsequent to the site visit.

The findings of the audit are based upon visual observations on the site and transport routes (including the Bungonia Bypass), interviews with Multiquip personnel and interpretation of records provided by Multiquip. Opinions presented within the audit apply to the site as observed at the time of the audit inspection and from information provided by Multiquip personnel. Any changes to this information of which the Trevor Brown & Associates is not aware and has not had the opportunity to evaluate, cannot therefore be considered in this report. The auditor has taken due care to consider all reasonably available information provided during the audit and has taken this information to represent a fair and reasonable characterisation of the environmental status of the site.

The adequacy of strategy/ plans / programs required under the Project Approval was assessed by reference to the requirements of the Project Approval conditions, where documentation from the relevant agency(s) to Multiquip had not been received confirming approval of the documents at the date of this audit.

## 2. 'Ardmore Park' Quarry Project

### 2.1 Project Description

#### 2.1.1 Project Location

CEAL Limited, trading as Multiquip Quarries, owns the freehold land of the "'Ardmore Park'" property (Lot 24 DP 1001312), located approximately 4km from Bungonia township in the Goulburn-Mulwaree Local Government Area (LGA).

The 'Ardmore Park' Quarry site is surrounded by landholdings characterised by agricultural activities including:

- grazing sheep and cattle;
- extractive industry (organic soils);
- stud cattle;
- goat farms;
- aquaculture activities (e.g. farming of yabbies); and
- rural residential properties

The 'Ardmore Park' Quarry site is situated within largely cleared rolling hills and straddles part of a broad east-southeast trending ridge system that forms a watershed for a number of local creeks. The local topography from Bungonia in the north to Jacqua Creek in the south is gently undulating terrain with slopes of less than 5°. A local high point (Chapman Trig Station 676m AHD) in the north-western part of the 'Ardmore Park' property dominates the topography with a general decrease in elevation from this local high point sloping to the north and east towards Inverary, Lumley and Bungonia Creeks and to the south and west to Jacqua Creek and Nerrimunga River (all tributaries to the Shoalhaven River).

The bulk of the southern sand extraction area of the 'Ardmore Park' Quarry lies within the relatively shallow slopes of the southern part of the Project Site, with the slope increasing slightly (approximately 3° to 5°) into the basalt and central sand extraction area. Both extraction areas are ultimately confined within a valley opening to the south created as the slope of the topography increases to the east, north and west. The processing plant and Quarry Services Area are both to be located on the western and north-western extremity of this "valley" with moderate slopes of approximately 5° providing opportunities to reduce visual impact of the project following cut and fill activities.

The sand processing area hardstand, constructed through cut and fill, will be visually shielded to the west and southwest by a small ridge reaching an elevation of 653m AHD. Similarly, the hard rock processing area and Quarry Services Area hardstand, constructed to an elevation of 653m AHD, would be partially visually shielded to the west by the same ridge line at a height of between 653m and 658m AHD.

#### 2.1.2 Local Geology

The 'Ardmore Park' Quarry site is located within the south-eastern extension of the Molong-South Coast Anticlinorial Zone in the eastern central part of the Lachlan Fold Belt (Thomas et al, 2002) and is largely covered by a late Eocene alkali basalt comprising a series of fine grained, olivine-bearing, flat lying, stacked lava flows, containing zones of clay and zeolite-filled vesicles associated with the upper contact of individual flows. The sand thicknesses and depth to the base of the sand resource in the western part of the proposed extraction areas grade to colluvial 'sheet wash' quartz sand deposits of the palaeo-valley in the northern and western parts of the proposed extraction areas. The sands of the palaeo-valley, that are generally quartz dominant, are exposed or near surface in the southern part of the 'Ardmore Park' Quarry site, where the basalt cover has been weathered and eroded.

## 3. Environmental Approvals and Licenses

### 3.1 Project Approval

A Development Application was lodged Department of Infrastructure, Planning and Natural Resources (DIPNR) in January 2005 to develop and operate the "Ardmore Park" Quarry. The Minister for Planning refused that development application and this decision was upheld in the NSW Land and Environment Court on 19 June 2007 based on two principal transport issues:

- proposed transport route through Bungonia Village would undermine important aspects of the amenity of the village; and
- environmental impacts of upgrading Jerrara Road were not adequately covered.

The transportation component of the Quarry proposal was reviewed by Multiquip and a new development application lodged under Part 3A of the Environmental Planning and Assessment Act 1979 providing for:

- construction of a private road to by-pass Bungonia Village; and
- additional upgrades to the public roads of the proposed transport route to the desired road standard of Goulburn-Mulwaree Council.

The approved layout of the 'Ardmore Park' Quarry Project was:

- A site establishment phase during which an acoustic bund, internal access roads, buildings, fixed plant and hardstands would be constructed;
- Installation of a range of services, structures and transportable buildings on the quarry site;
- Extraction of sand and hard rock resources from an area of 46.8ha;
- Separate processing areas for sand and basalt, with residual silts generated by sand washing placed within silt cells constructed within the completed sections of the extraction area;

A product stockpile area was also approved for the following activities:

- Construction of the Bungonia By-pass, including a bridge crossing of Bungonia Creek.
- Upgrade of the public road network to provide for a widened pavement and sealed road shoulders (8m), upgrade specified intersections and creek crossings and install additional signage.
- Importation of Virgin Excavated Natural Material (VENM) to provide additional material to backfill completed sections of the extraction area and enable the creation of a final landform with an elevation and slopes consistent with those of the pre-Project environment.
- Storage for transportation of quarry products to markets in Sydney, South Coast, Canberra and Goulburn, subject to completion of specified road construction and upgrade works.
- Progressive rehabilitation of the final landform through final profiling, soil replacement and revegetation with both pasture and native woodland vegetation.

CEAL Limited trading as Multiquip Quarries was granted Project Approval 07\_0155 by the Minister for Planning on 20 September 2009. Modifications to the Project Approval 07\_-155 were granted in October 2010 and November 2013:

Date	Modification to Consent
October 2010	Revision of the Site Entrance location and Site Access Road. Specific requirements with respect to the protection of the locally significant 'Larbert Tree' was also included.

Date	Modification to Consent
November 2013	Approval to enable small volumes of products to be delivered by local roads to supply of up to 20 000t of quarry products local customers via roads other than those of the primary transport route.

Review of compliance with the Consolidated Project Approval conditions is provided in Attachment A and comments on the environmental aspects, environmental management and monitoring are provided in this Independent Environmental Audit Report.

### 3.2 Environment Protection Licence

Environmental Protection Licence (EPL) 13213 was issued by the Environment Protection Authority on 20 August 2013 with an anniversary date of 21 August. No Variations to the EPL had occurred between November 2013 and October 2015.

The EPL 13213 was issued for Land Based Extractive Activity including crushing, grinding and/or separating Schedule Activities and Fee Based Activities to a maximum of 500,00 tonnes extracted, processed or stored at the Ardmore Park Quarry, 5152 Oallen Ford Road Bungonia NSW 2580.



## 4. 'Ardmore Park' Quarry Status – October 2015

The 'Ardmore Park' Quarry development between November 2013 and October 2015 included:

### Roadworks

- Construction activities related to the Bungonia By-pass commenced in November 2013 with clearing of vegetation, placement of sub-base materials and sealing of the two-lane road and erection of a bridge over Bungonia Creek to within 50m of Mountain Ash Road completed in mid-2014.



○ Bungonia By-pass road surface and Bungonia Creek crossing

○ Sediment fencing and settlement basins on the disturbed surface areas stabilised with revegetation;

○ The roadside batters of Bungonia By-pass, establishment of grass.

- Stage 1 road and intersection upgrades completed at the date of this audit were:
  - Bungonia By-pass, including the intersection with Mountain Ash Road;
  - upgrade the Mountain Ash Road - Jerrara Road intersection;
  - widening of the carriageway of Jerrara Road at Crossing E (approx. 5.94km from the Hume Highway);
  - "Give Way" signs on the southbound approach to Crossings B, C, D, E and G (that are approximately 3.16km, 3.43km, 5.12km, 5.94km and 9.72km from the Hume Highway)

- Construction activities at the 'Ardmore Park' Quarry site included an upgrade of the Access Road into the site, an internal access road from the Site Access Road to the extraction area, hardstand for the placement of a temporary crushing facility and the partial completion of an earth mound and acoustic barrier to the west of the extraction area.



- Construction of the Quarry Site entrance with Oallen Ford Road;

### Quarry Site

- Construction of the western earth mound and acoustic barrier (Project Approval 07\_0155 Schedule 3 condition 5) had commenced.
- Installation of an upgraded fuel storage near the Quarry Services Area in accordance with Australian Standard (AS) 1940 is planned to be completed in 2016.

- Note: Major works on the construction/installation of the processing plant and associated infrastructure on the quarry site, had not commenced at the date of this audit (October 2015).
- Approximately 12,000 tonnes of basalt extracted between 11 November and 13 December 2013 was used for the construction works on the Bungonia By-pass. All materials were removed by ripping and the hard rock basalt was crushed using a mobile crushing unit, the material sorted and loaded onto trucks for delivery to the Bungonia By-pass construction area. Subject to road construction requirements and local customer demand, it is not anticipated that crushing more than 20,000t of basalt would occur during 2015/2016.
- No sand extraction, processing for sale, or transport from the site occurred between November 2013 and October 2015.
- No VENM was imported to the 'Ardmore Park' Quarry Site between November 2013 and October 2015.
- No rehabilitation had occurred within the 'Ardmore Park' Quarry between November 2013 and October 2015. Rehabilitation activities planned for 2015/2016 will include profiling and establishment of grass on the outer batter of the western earth mound and acoustic barrier; and general weed management.

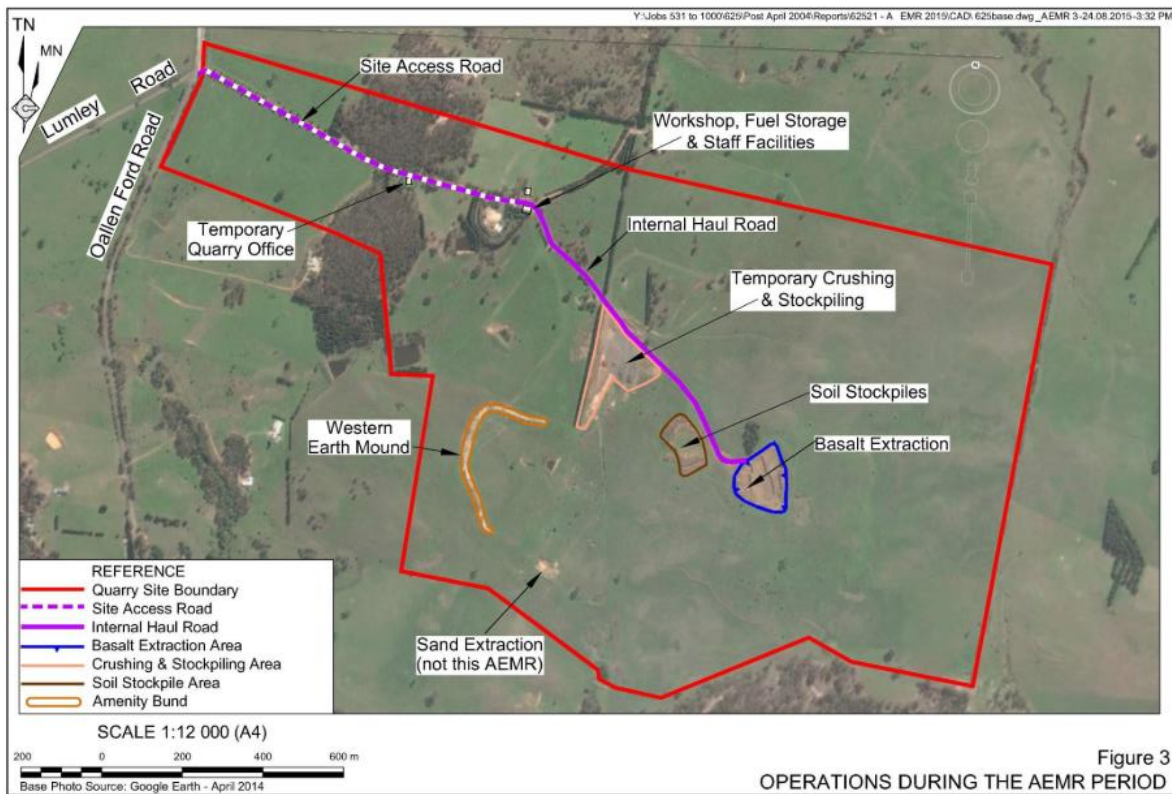


Figure 4: 'Ardmore Park' Quarry Project Site 2015



## 5.2 Environmental Monitoring

[Project Approval 07\_0155 Schedule 5 condition 2]

### 5.2.1 Environmental Monitoring Program

[Project Approval 07\_0155 Schedule 5 condition 2]

An Environmental Monitoring Program prepared to satisfy Project Approval 07\_0155 Schedule 5 condition 2 for the 'Ardmore Park' Quarry project was submitted to the Director-General prior to commencing any development on site. The Environmental Monitoring Program consolidated the various monitoring requirements in Project Approval 07\_0155 Schedule 3 Management Plans into a single tabulated monitoring program of requirements for meteorology, groundwater, surface water, air quality and noise.

#### 5.2.1 Conclusion

<b>Environmental Monitoring Program</b>	<b>Status:</b>	<b>Compliant</b>
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The Environmental Monitoring Program consolidated the various requirements for meteorological monitoring, groundwater monitoring, surface water quality, air quality and noise monitoring required under in Project Approval 07\_0155 Schedule 3, into a single tabulated monitoring program of annual requirements for meteorology, groundwater, surface water, air quality and noise.

## 5.3 Noise

[Project Approval 07\_0155 Schedule 3 conditions 1 to 8]

### 5.3.1 Noise Monitoring Program

[Project Approval 07\_0155 Schedule 3 conditions 6]

A Noise Monitoring Program for the 'Ardmore Park' Quarry was prepared by Heggies (2010) to satisfy Project Approval 07\_0155 Schedule 3 conditions 6. The Noise Monitoring Program provides for annual noise monitoring at two residential locations near the 'Ardmore Park' Quarry site ("Lochmoor Lodge" 5046 Oallen Ford Road, Bungonia (site R6) and private residence 5199 Oallen Ford Road, Bungonia (site R9), once all components of the project were operating. The Noise Monitoring Program also provides for monitoring of traffic noise at two locations adjacent to the Bungonia By-pass once transport operations commence. No transport of product for sale occurred during the November 2014 to October 2015 period so the requirement to monitoring traffic noise was not triggered.

#### 5.3.2 Noise Control Measures

The noise impact from the 'Ardmore Park' Quarry Project on non-project related residences was assessed to be minimal in the Environmental Assessment (2008) Specialist Consultant Studies Part 2 -Noise and Vibration Impact Assessment and noise levels experienced at the residences were assessed to be within the NSW Industrial Noise Policy criteria.

No other industrial activity / noise sources are active for the local area of the 'Ardmore Park' Quarry so there would not be additional cumulative noise impact to local residents as a result of the 'Ardmore Park' Quarry operations. Noise controls including the maintenance of mobile plant and restriction of operating to day time hours have been adopted by Multiquip so the quarry operations are not considered a significant noise generation activity in the local environment.

### 5.3.3 Environmental Assessment Noise Criteria

[Environmental Assessment (2008) section 5.3]

The project requires construction works including the Bungonia By-pass road works, limited tree clearing, topsoil removal, internal site access road construction, construction of the sand and hard rock processing plants, construction of the acoustic earth bund, and installation of offices, amenities and services to the 'Ardmore Park' Quarry site. The construction activity noise criteria would be less than or equal to an  $LA_{10(15\text{ min})}$  level of 40dB(A). The environmental noise criteria for the operational phase of a project nominated in the Environmental Assessment section 5.3, was consistent with an "intrusiveness" criterion limit of  $LA_{eq(15\text{ min})}$  noise levels of 35dB(A). Operational noise criteria nominated in the Project Approval 07\_0155 was 36dBA  $LA_{eq(15\text{ minute})}$ .

### 5.3.4 Noise Monitoring

[Project Approval 07\_0155 Schedule 3 condition 6]

The Noise Monitoring Program developed by Heggies (2010) to be implemented when all components of the 'Ardmore Park' Quarry become operational, was developed following discussion and consultation with neighbouring landowners and the DECC/EPA and includes:

- A period of unattended noise monitoring to be undertaken during construction activities (for 1 week preceding commencement of operational activities) and for 1 week following commencement of operational activities
- Attended monitoring and unattended monitoring at representative locations around the Project Site near the start and finish of the monitoring with the various activities noted.
- The results of the noise monitoring compared to the noise modelling predictions provided in the Environmental Assessment (section 5.3.6.3) to establish the accuracy of model predictions.
- If the model predictions prove to overestimate the noise generated by the project, annual noise monitoring would be undertaken at or adjacent to those assessment locations identified as being most affected.
- Should the model predictions prove accurate or underestimate the noise generated by the proposed quarry activities (i.e. remain below the nominated noise criteria) monitoring will be undertaken on a quarterly basis until such time as reduced noise levels are consistently recorded.

Monitoring locations for unattended noise monitoring will be at or adjacent to Residences 5 and 6 during the construction stage and Residences 6 and 9 during the operational stage. The locations will be positioned to allow for accurate comparison between the predicted noise levels presented in Environmental Assessment (section 5.3.6.3) and the noise levels measured at the residence.

### 5.3.5 Review of Noise Monitoring Results

Only restricted extraction and crushing activities were undertaken between November 2013 and October 2015 and these did not trigger the commencement of noise monitoring as nominated in the Noise Monitoring Program section 3.3 (that requires monitoring to commence when all components of the quarry were operational).

Multiquip commissioned SLR to conduct a noise monitoring survey in relation to a complaint received from the residence located at 5094 Oallen Road, Bungonia (referred to as Residence 6 in the Project Approval Schedule 3 condition 2) regarding noise emissions from the 'Ardmore Park' Quarry.

Attended noise monitoring was conducted on 25 September 2015 and for the period 23 October to 17 November 2015 triggered noise monitoring was conducted at Residence 6 during quarrying operations to quantify site noise emissions.





## 5.4 Air Quality

[Project Approval 07\_0155 Schedule 3 conditions 7 to 10]

### 5.4.1 Air Quality Monitoring Program

[Project Approval 07\_0155 Schedule 3 conditions 9]

The Air Quality Monitoring Program was prepared by R W Corkery & Co. Pty Ltd to satisfy Project Approval 07\_0155 Schedule 3 conditions 9. The Air Quality Monitoring Program was submitted to Department of Planning (DoP) and the DECCW (OEH) on 18 January 2011. The Air Quality Monitoring Program was approved by the Director-General of DoP on 22 July 2011 and EPA on 6 August 2013.

### 5.4.2 Environmental Assessment (2008) - Air Quality Assessment

[Environmental Assessment (July 2008) section 5.4.5]

Background air quality concentrations of suspended particulate matter for the 'Ardmore Park' Quarry site were obtained with the installation of a real-time TSI DustTrak dust monitor with a PM<sub>10</sub> sampling head and logging capability for the Environmental Assessment (2008). Background particulate matter for a 12month period was obtained using verified data for 24-hour average PM<sub>10</sub> concentrations at the DECC air quality monitoring site in Bathurst and background total suspended particulate (TSP) concentration was estimated by multiplying the annual average PM<sub>10</sub> concentrations by a factor 2 (US EPA, 2001). Background concentrations in the vicinity of the Project Site were estimated as PM<sub>10</sub> - 18µg/m<sup>3</sup> and TSP - 36µg/m<sup>3</sup>.

In the absence of site-specific dust deposition data, an indication of likely background dust deposition was estimated by Heggies (2008b) based on typical rural dust deposition levels. The average deposition rate in rural areas unaffected by unsealed roads and quarrying activities is typically 1.0 to 2.0g/m<sup>2</sup>/month expressed as an annual average. Heggies (2008b) concluded that with the implementation of the air quality management measures described in the Environmental Assessment (July 2008) section 5.4.6, the potential air quality impact from the proposed operation would be within the DECC (and NEPM) air quality goals at all surrounding residences.

The Environmental Assessment undertaken by Heggies Pty Ltd - Air Quality Assessment of the Modified "Ardmore Park" Quarry Proposal, - Part 3 of the Specialist Consultant Studies Compendium (2008), indicated that fugitive particulate emissions would be acceptable for all stages of the quarry development as modelled and as such air quality was not anticipated to adversely affect the nearest residences.

The greenhouse gas assessment completed for the proposed Project Site operations also demonstrated a negligible impact on NSW and Australian greenhouse gas emission levels.

### 5.4.3 Environment Assessment Air Quality Management Commitments

[Environmental Assessment (July 2008) section 5.4.6]

Multiquip proposed to adopt the following safeguards and management procedures to limit the generation of dust from site activities.

- (i) The mobile crushing plant would be located within the cut section of the hard rock processing area.
- (ii) The dust generating components of the permanent hard rock processing plant would be enclosed.
- (iii) A water truck would be used to regularly to wet the active internal unsealed roads. Watering of the unsealed roads would occur with an application of water and soil binder approximately 2L/m<sup>2</sup> per application if required.

- (iv) Multiquip would minimise the areas of surface disturbance to reduce wind erosion, through ensuring that clearing and soil stripping is limited to that required for extraction activities and conducting progressive rehabilitation on available areas.
- (v) Topsoil stockpiles, acoustic bund and areas where landform preparation is complete would be seeded with either native or pasture species to assist in stabilising the exposed surface.
- (vi) The drop heights between front-end loader buckets and trucks carrying sand/basalt or overburden would be minimised for the management of dust generation.
- (vii) The raw feed material delivered to the sand washing plant and dry processing plant would have a degree of inherent moisture that would contribute to the overall control of dust.

The safeguards and management procedures would be reviewed as part of the Annual Environmental Management Report and any changes to the operation would be reflected in the review of dust management strategies adopted on site.



Air quality management and mitigation measures implemented for the quarry activities between November 2013 and October 2015 have been based on the applicable Environmental Assessment air quality management commitments (July 2008) section 5.4.6.

Meteorological monitoring occurs from the weather station installed on the Quarry Site that continuously monitors temperature, precipitation, wind speed and direction.

### 5.4.3 Dust Monitoring and Criteria

[Project Approval 07\_0155 Schedule 3 condition 7 and 9]  
 (Environment Protection Licence condition P1.1)]

A deposited dust monitoring program for the 'Ardmore Park' Quarry project was established in accordance with Project Approval 07\_0155 Schedule 3 condition 9(b).

Air Quality impact assessment criteria for 'Ardmore Park' Quarry are presented in Project Approval 07\_0155 Schedule 3 condition 7:

Table 4: Long term impact assessment criteria for particulate matter

Pollutant	Averaging Period	Criterion
Total suspended particulate (TSP) matter	Annual	90 µg/m <sup>3</sup>
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	30 µg/m <sup>3</sup>

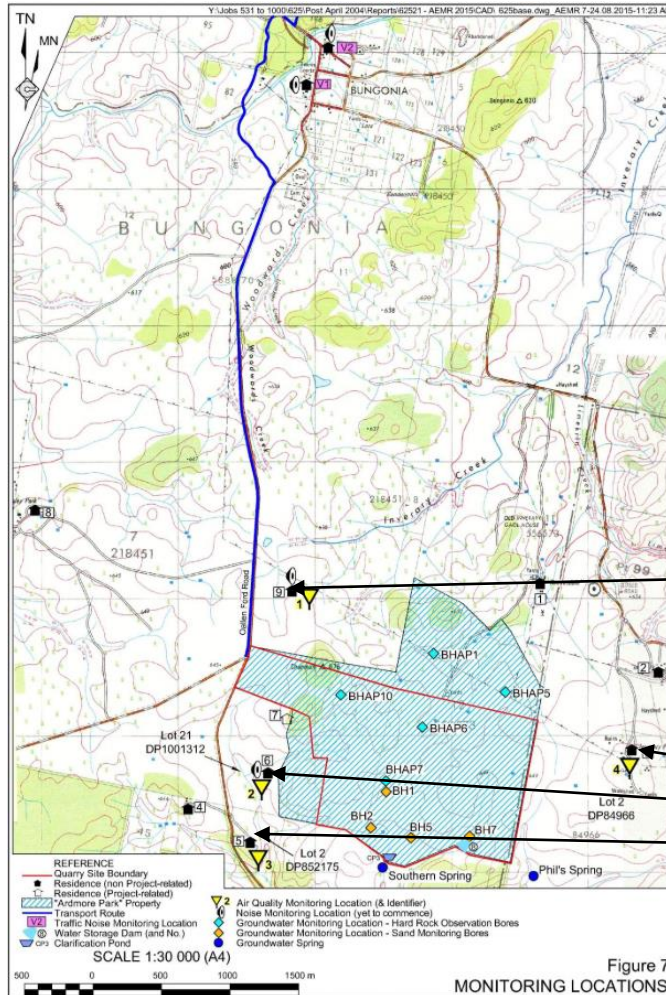
Table 5: Short term impact assessment criterion for particulate matter

Pollutant	Averaging Period	Criterion
Particulate matter < 10 µm (PM <sub>10</sub> )	24hour	50 µg/m <sup>3</sup>



Table 6: Long term impact assessment criteria for deposited dust

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level
Deposited dust	Annual	2 g/m <sup>2</sup> /month	4 g/m <sup>2</sup> /month



Dust deposition monitoring occurs with gauges adjacent to Residence 3 “Inverary Park” (EPA DD1), Residence 5 “The Osiers” (EPA DD2), Residence 6 “Lochmoor Lodge” ((EPA DD3), and Residence 9 5199 Oallen Road (EPA DD4) in accordance with the Air Quality Management Plan Figure 5. The locations were selected (on advice from Heggies) take account of local meteorological conditions, the proximity of surrounding residences, and the location of likely dust emission sources from the ‘Ardmore Park’ Quarry site.

**Dust Deposition Gauge Locations**

- Residence 9 - 5199 Oallen Road (EPA DD4)
- Residence 3 “Inverary Park” (EPA DD1)
- Residence 6 - “Lochmoor Lodge” (EPA DD3)
- Residence 5 - “The Osiers” (EPA DD2)

**5.4.4 Review of Dust Monitoring Results**

The depositional dust results for DD2, DD3 and DD4 are generally less than 2g/m<sup>2</sup>/month criteria for maximum increase in deposited dust specified in Table 6: Long term impact assessment criteria for deposited dust (Project Approval 07\_0155 Schedule 3 condition 7) and are all less than the 4g/m<sup>2</sup>/month criteria for maximum deposited dust level specified in Table 6: Long term impact assessment criteria for deposited dust (Project Approval 07\_0155 Schedule 3 condition 7), except for Location DD1.

The results for Location DD1 (i.e. Residence 3 “Inverary Park”) exhibited increased dust deposition in December 2013 (27g/m<sup>2</sup>/month), June (7.5g/m<sup>2</sup>/month) and July 2014 (4.9g/m<sup>2</sup>/month) that cannot be explained by the activities occurring on ‘Ardmore Park’ Quarry site. While extraction and crushing of basalt occurred during the first 2 weeks of December, the significantly elevated result (27g/m<sup>2</sup>/month) is considered to be anomalous and not attributable to the quarry activities.

### 5.4.5 Conclusion

<b>Air Quality</b>	<b>Compliance Status</b>	<b>Compliant</b>
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The Air Quality Monitoring Program implemented for the 'Ardmore Park' Quarry is adequate for the assessment of dust deposition resulting from the quarry activities. The depositional dust results are generally less than 2g/m<sup>2</sup>/month criteria maximum increase in deposited dust at the monitoring sites to the east and southwest of the quarry site. The results from the Inverary site north of the Ardmore Park exhibited increased dust deposition that cannot be attributed to activities occurring on Ardmore Park Quarry site. In response to a visible dust complaint to the DP&E, crusher operations were improved to ensure that wind and environmental conditions are taken into account when the crusher is operated. Additional dust monitors are being installed to provide data on visible air pollution.

## 5.5 Site Water Management

[Project Approval 07\_0155 Schedule 4 conditions 23 to 29]

### 5.5.1 Regional Setting

The regional setting of 'Ardmore Park' Quarry site drainage is within the middle-western division of the Shoalhaven River system. The Shoalhaven River system catchment originates in the Southern Tablelands and flows some 300km through the townships of Braidwood and Kangaroo Valley reaching the sea east of Nowra. Within the catchment, approximately 50% of the land is forested, 45% is under pasture, about 2% is cropped and less than 3% is urbanised (Healthy Rivers Commission, 1999).

The surface water quality in the Shoalhaven River system is in relatively good condition, directly attributable to the large proportion of the catchment being located in reserved National Parks, State Forests and drinking water catchments. The upper part of the catchment (notably in the former Mulwaree Shire area) suffers from significant land degradation, clearing of riverside vegetation, weed invasion and effects of past mining practices. Road maintenance and poorly designed creek crossings have also contributed to significant stream bank erosion.

### 5.5.2 Water Management Plan

[Project Approval 07\_0155 Schedule 3 conditions 13]

The Water Management Plan was prepared by R W Corkery and Co, Strategic Environmental Consulting (SEEC) and Larry Cook a& Associates to satisfy Project Approval 07\_0155 Schedule 3 conditions 13 in August 2010. Additional erosion and sediment control measures were developed by SEEC for the Bungonia By-pass following release of turbid water to Bungonia Creek in February 2014 following a heavy rainfall event resulting in the discharge of water from a settlement basin.

The Water Management Plan includes the Site Water Balance; Erosion and Sediment Control Plan; Surface Water Monitoring Program; Groundwater Monitoring Program; and Surface and Groundwater Response Plan for the 'Ardmore Park' Quarry site and road construction works.

### 5.5.3 Surface Water Management

[Project Approval 07\_0155 Schedule 3 condition 13 and 16]

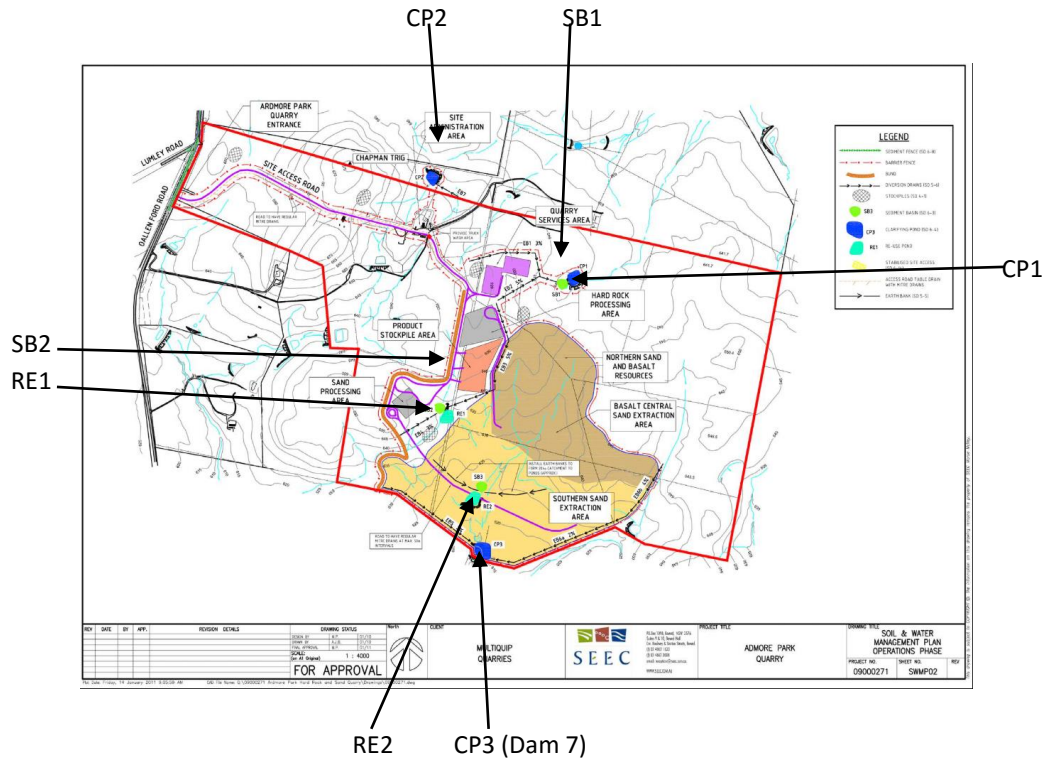
[Environmental Assessment (2008) section 5.2.5.1]

The primary objectives in managing surface water flows on the 'Ardmore Park' Quarry project site are to ensure:

- site operations have a neutral on surface water quality.
- site operations do not adversely impact surface water flows within the catchments of the project site;

- capture of surface water on the project site remains within the MHRDC for the 'Ardmore Park' property; and
- adequate supplies of surface water are available for dust suppression and sand washing activities.

The location of surface water management structures designed/recommended by SEEC Morse McVey (2008) to ensure erosion and sedimentation of the Project Site would be minimised, and the capture and re-use of water maximised.



**Figure 5.5.2: Water Management Ardmore Park Quarry (SEEC October 2010)**

Water management for the 'Ardmore Park' Quarry resource area of approximately 60ha drains to a common storage in the south of the quarry (identified as Dam 7 within the Environmental Assessment (2008)), that is operated as a Water Clarifying Pond and renamed CP3.

The quarry material processing area and stockpile areas drain to a common settlement basin (SB2) and then to re-use pond (RE1) which ultimately drains to CP3. The quarry services area and the quarry administration area are on lands that drain north. Runoff from the Site Administration Area will be diverted to Clarifying Pond 2 (CP2) while runoff from the Quarry Services Area will be diverted to Sediment Basin 1 (SB1) with overflow to Clarifying Pond 1 (CP1). Water will be drawn from the clarifying ponds and at least two re-use ponds (RE1 and RE2) for use in dust suppression and sand processing. A shortfall in water supply may be mitigated using bore water<sup>1</sup>.

With implementation of the water quality control measures recommended by SEEC Morse McVey (2008), modelling results illustrated that the 'Ardmore Park' Quarry operations would not result in an impact on water quality of the local catchments. Surface water monitoring of water discharged from Dam 7 and 8 would be conducted with the EPA advised of any impacts attributable to the proposed extraction operations.

<sup>1</sup> Water Management Plan Appendix 1.1, SEEC October 2010.

### 5.5.3 Site Water Balance

[Project Approval 07\_0155 Schedule 4 condition 27(c)]

The water requirements of the 'Ardmore Park' Quarry operations assessed in the Environmental Assessment Specialist Consultant Studies Compendium Part 5 (2008) of the flow of water within the catchments of the project site, suggested 20.5ML of water would be available for use during average rainfall years and 38.5ML during high rainfall years, with up to 100ML of groundwater that could be extracted from the project site groundwater bores without adversely impacting on the water table, groundwater dependent ecosystems, or groundwater availability and use on other surrounding properties.

Multiquip has storage capacity for water of up to 20.5ML within dams on the 'Ardmore Park' property.

Water at the 'Ardmore Park' Quarry is used for:

- dust suppression - water use for dust suppression on exposed unsealed roads and hardstand areas at a rate of 2L/m<sup>2</sup>, approximately once per day will be supplemented with the application of a soil binder (e.g. 'DustBloc', a bitumen-water blend that mixes with water to form a safe product that can be applied to a range of surfaces to control dust). The dust suppression water requirement would be sourced almost entirely from water captured on the disturbed areas of the Ardmore Park' Quarry project site. Additional water required on below average rainfall years would be sourced from the existing or new water storage dams of the 'Ardmore Park' property.
- sand washing - Water used in the sand washing process was estimated to be 700L per tonne of sand washed. Assuming all sand extracted is washed it was estimated that the proportion of water re-used would vary between approximately 50% at the lower production rate (100,000tpa), increasing to 70% at the maximum production rate (400,000tpa). Therefore, as the volume of water used increases, the percentage lost to evaporation decreases. Table 5.22 presents the minimum and maximum annual water requirement based on these varying re-use rates.
- domestic purposes -approximately 1kL of water would be used per day for drinking, cooking and/or toilet use.

The site water balance assessment suggested that water would always be available for dust suppression activities, however, rainfall may limit the ability of Multiquip Quarries to wash the full 400,000tpa of sand if this extraction rate was achieved during dry years.

The 'Ardmore Park' property covers approximately 288ha and has a Maximum Harvestable Rights Dams Capacity (MHRDC) of approximately 20.2ML (calculated in accordance with the DWE Farm Dams Policy in 1999, that entitles a landholder to capture up to 10% of the rainfall and runoff from the property and use it for any purpose without needing a licence for the dam(s)).

### 5.5.4 Surface Water Monitoring

[Project Approval 07\_0155 Schedule 3 condition 16]

Baseline water quality testing conducted by SEEC for Dam 7 and Dam 8 (the catchments of which at that time were both subjected to typical agricultural activities) demonstrated that the water quality of the two dams was similar. Dam 7 is used as the main clarifying pond (CP3) for the quarry operation. Dam 8 (1 ML) to the southeast of the quarry operations is not used for water management associated primarily with the quarry operations. Diversion of surface runoff from the quarry activities will not enter Dam 8 so this Dam is used for water quality (control) monitoring.

Overflow from CP3 (Dam 7) drains to a natural first-order watercourse that becomes a second-order stream as it drains south through an adjoining property to the Shoalhaven River.

Overflow from Dam 8 (to the southeast of the quarry extraction area) follows a similar watercourse and any release from the two 'Ardmore Park' water dams joins at a point 600m downstream of the 'Ardmore Park' property. The monitoring of the watercourse will occur at this confluence and a series of baseline cross sections will be surveyed and photographs taken.

A six monthly inspection of the watercourse will occur when the quarry is operating and a comparative series of photographs taken to document the condition of the banks of the water courses. If any significant signs of accelerated erosion are noted a suitably qualified consultant will be employed to investigate, report, liaise with EPA as required.

Surface water monitoring will occur at the locations shown in the water monitoring program during discharge events (Water Management Plan section 6).

### 5.5.5 Review of Surface Water Monitoring Results

All surface water management control structures are inspected regularly with maintenance undertaken as required. Quarterly surface water quality monitoring will occur for pH, EC, total suspended solids (TSS), hydrocarbons and nutrient levels (Total Nitrogen and Total Phosphorous) of any water discharged from Dam 7 and Dam 8 and results compared with ANZECC water quality guidelines.

No overflows or discharge events occurred between November 2013 and October 2015 from Dam 7 or Dam 8 so no surface water monitoring had been conducted of discharge water during this period.

### 5.5.6 Surface Water Incident

[Project Approval 07\_0155 Schedule 5 condition 3]

A fugitive release of turbid water to Bungonia Creek occurred on 16 February 2014 following a heavy rainfall event resulting in the discharge of water from a settlement basin in the Bungonia By-Pass construction area on the northern side of Bungonia Creek. The incident was reported to the EPA. Sydney Catchment Authority (SCA) (now Water NSW), conducted an inspection of the Bungonia By-Pass construction on 17 February 2014, and concluded the incident constituted a breach of Section 120 of the *Protection of the Environment Operations Act 1997* (POEO Act). Multiquip was advised that in the opinion of the SCA, effective erosion and sediment controls were not installed to prevent sediment from entering Bungonia Creek.

The SCA determined that the release of turbid water to Bungonia Creek was a breach of Section 120 of the POEO Act and SCA issued a clean-up notice and a requirement to install and maintain sediment and erosion controls.

Multiquip engaged Strategic Environmental and Engineering Consultants (SEEC) to provide recommendations for upgraded erosion and sediment control. These controls were installed, however, following a subsequent inspection of the site on 17 and 20 June 2014 by the SCA, it was determined that the structures were not being adequately maintained (i.e. emptied of accumulated water to maintain effective storage capacity). SCA determined that the Company has breached Section 91 of the POEO Act and an additional fine of \$1500 was issued.



Multiquip now undertake regular inspections of the settlement basins on the Bungonia By-pass, including immediately following rainfall, with accumulated water pumped to a water truck to maintain the effective storage capacity.

### 5.5.7 Conclusion

Surface Water Management	Compliance Status	Compliant Ongoing
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Surface water management for the "Ardmore Park" Quarry drains to a common storage to the south of the quarry operations area (identified as Dam 7 within the Environmental Assessment (2008)). Dam 7 is operated as a Water Clarifying Pond and renamed CP3 in the Water Management Plan. The location of surface water management structures designed/recommended by SEEC Morse McVey (2008) to ensure erosion and sediment loss on the Project Site would be minimised and the capture and re-use of water maximised on the site. Surface water monitoring will occur at the locations shown in the water monitoring program during discharge events.

## 5.6 Groundwater

[Project Approval 07\_0155 Schedule 4 condition 29]

### 5.6.1 Local Hydrogeology

[Environmental Assessment (2008) Part 4 Groundwater Assessment]

A groundwater assessment of the 'Ardmore Park' property and surrounding area was conducted by Larry Cook and Associates for the Environmental Assessment of the Project.

The local hydrogeology can be divided into several aquifer domains including a remnant cap of stacked Tertiary basalt flows in the eastern half of the Property, a laterally extensive and well developed interbedded Tertiary palaeo-alluvial system preserved beneath the basalt and a sequence of significantly older, deformed, steeply dipping Siluro-Devonian and Ordovician metasedimentary and volcanic rocks that underlie the district with Karstic features associated with limestone and calcareous sedimentary formations in the Silurian lithologies.

Unconfined and deep, confined aquifers in the quartz-dominant sand and gravel layers in the palaeo-alluvial sequence are interbedded with layers of silty clay, one of which constitutes a significant 'aquiclude' and separates a partly saturated and unconfined quartz sand sequence from a series of deeper, saturated, confined quartz sand and gravel aquifers.

Water-bearing zones in the local area of the 'Ardmore Park' Quarry development include:

- hardrock ("basalt") aquifers associated with the Tertiary basalt;
- alluvial aquifers associated with alluvial deposits beneath the base of the basalt. groundwater levels ranged from 0.85m to 8.65m below natural ground level in the upper alluvial aquifer and 21.2 to 33.7m below natural ground level in the deeper alluvial aquifer;
- basement rock ("fractured") aquifers associated with geological discontinuities (fractures and faults) that have dissected the Palaeozoic basement rocks underlying the basalt. 8.05m to 57.2m in the fractured aquifers of the basement rocks;

### 5.6.2 Groundwater and Surface Water Interaction

[Environmental Assessment (2008) Part 4 Groundwater Assessment]

Aquifer recharge occurs primarily from precipitation. Some of this recharge would provide base flow to the Inverary Creek, Jacqua Creek and Nerrimunga River systems. Alternatively, during high flow, the structurally controlled creeks in the area would provide direct recharge into the deeper basement rock aquifers.

A number of water features or ‘springs’ that are essentially areas of shallow groundwater discharge have been identified on landholdings surrounding the ‘Ardmore Park’ Quarry site. The major springs are:

- “Inverary Park” Spring (also known as Phils Spring) is located approximately 400m to 600m from the proposed basalt extraction area. Discharge from the spring is from the base of the sand sequence in a similar geological setting to the ‘Ardmore Park’ Quarry; and this spring provides a small but important water supply for the “Inverary Park” property.
- the Southern Spring located immediately south of the ‘Ardmore Park’ Property, due south of the Southern Sand Resource Extraction Area. This water feature, located approximately 160m south of the proposed southern sand resource extraction area, is supplied by water flowing from the base of the southern sand resource.

### 5.6.3 Environmental Assessment Groundwater Impact Assessment

[Environmental Assessment (2008) section 5.2 Water Resources]

[Environmental Assessment (2008) Part 4 Groundwater Assessment]

Groundwater in the local area is used for irrigation, livestock watering. Groundwater levels are expected to fluctuate by up to 15% naturally reflecting natural flows, local extraction for agricultural and domestic purposes and seasonal and longer-term meteorological conditions. Any fluctuation in SWL of up to 15% would not be considered necessarily attributable to the sand, basalt or water extraction of the Ardmore Park Quarry project. The proposed criteria for groundwater level potential impact by the quarry operation was proposed as a decrease in Standing Water Levels (SWL) by greater than 15%.

Baseline groundwater levels were obtained at the ‘Ardmore Park’ Quarry development site and groundwater quality samples were collected in accordance with the relevant Australian Standards and analysed at a NATA accredited laboratory for parameters including various combinations of:

- pH, Electrical Conductivity (EC) and Total Deposited Solids (TDS) and turbidity;
- anions and cations (Na, Ca, K, Mg, Cl, F, NO<sub>3</sub>, SO<sub>4</sub>, HCO<sub>3</sub> and PO<sub>4</sub>);
- metals (Cu, Pb, Zn, Cd, Cr, Fe, Mn, As, Hg);
- total hardness;
- sodium adsorption ratio;
- calcium carbonate saturation index.

**Table 5.6.3: Summary of Groundwater Background Analytical Results**  
(Environmental Assessment (2008) Part 4 Groundwater Assessment)

Analyte	Units	BAPH5	BAPH6	BAPH10	BH2	BH3	BH4	BH5	BH6
pH	units	7.2	7.6	6.3	6.7	7.6	7.6	7.2	7.2
EC	µS/m		1100		675	967	1241	1095	1670
Sodium	mg/L	35	80	550	60	66	110	78	165
Potassium	mg/L	1.0	2.1	7.7	0.3	1.1	3.8	1.6	5.9
Calcium	mg/L	24	84	130	14	54	91	85	135
Magnesium	mg/L	62	34	190	45	55	59	54	60
Iron	mg/L	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Chloride	mg/L	54	160	130	190	120	230	160	410
Sulphate	mg/L	4		28	4	12	18	13	32

Analyte	Units	BAPH5	BAPH6	BAPH10	BH2	BH3	BH4	BH5	BH6
Bicarbonate	mg/L	380		170	88	390	470	450	430
Ammonia	mg/L	0.2		<0.01	<0.1	<0.1	<0.1	<0.1	0.2
Nitrate	mg/L	<0.01		0.25	8	9.2	3.7	8.5	1.4

The chemical data from the background groundwater sampling and geochemical classification reveal important chemical differences in groundwater hosted by both hardrock and palaeo-alluvial aquifers. The chloride dominant groundwater in BHAP10 likely reflects the chemistry of the Devonian host rocks. The bicarbonate dominant groundwater sampled in proposed production bore BHAP6 is hosted by Silurian metasediments that are known to include carbonate lithologies.

The 'upper' palaeo-alluvial aquifer also shows a range of geochemical types between chloride and bicarbonate dominance with subtle but significant trends in cation chemistry noted in some samples.

These lateral variations in groundwater chemistry occurring within the same unconfined sand aquifer over approximately 20 hectares suggest that the chemical signature is influenced by the materials the groundwater flow comes into contact with.

It was concluded that the groundwater in Phil's Spring is not in direct hydraulic connection with groundwater in the unconfined sand aquifer in the Southern Sand Resource and therefore will not be directly affected by the extractive industry.

#### 5.6.4 Groundwater Monitoring Program

[Project Approval 07\_0155 Schedule 3 condition 17]

The Groundwater Monitoring Program prepared to satisfy Project Approval 07\_0155 Schedule 3 condition 17 nominated five groundwater monitoring bores to be developed within basalt, 4 monitoring bores developed within the sand resource and two in groundwater springs.

Initial groundwater sampling undertaken in January and July 2015 by Larry Cook Consulting Pty Ltd included:

- Hard rock bores: BHAP 1, BHAP 5, BHAP 6, and BHAP 10.
- Groundwater springs:
  - Southern Spring; and
  - Phil's Spring.

During the July 2015 monitoring campaign, Larry Cook Consulting noted that the bores within the sand resource (BH 1, BH 2, BH 5 and BH 7) were not monitored as two of the sand monitoring bores (BH 1 and BH 7) had been destroyed and required reinstalling, and the remaining two bores (BH 2 and BH 5) had been compromised. Reinstatement and/or redeveloped of these bores was planned prior to next sampling campaign. The bores were redeveloped by Larry Cook Consulting in Q4 2015.

A summary of the analysis results for pH, electrical conductivity (EC), anions and cations from the groundwater monitoring conducted at the "Ardmore Park" Quarry site conducted by Larry Cook Consulting is shown in Table 5.6.3.



**Table 5.6.3: Summary of Groundwater Monitoring Results January / July 2015**  
(Larry Cook Consulting Reports for January / July 2015)

Analyte	Units	BAPH1	BAPH5	BAPH6	BAPH10	South Spring	Phil's Spring
pH	units	6.7/6.3	7.3/8.3	7.1/7.1	6.8/6.8	7.2/7.1	7.4/7.4
EC	µS/m	780/760	405/680	3000/2100	2610/2500	1020/530	1090/1100
Sodium	mg/L	110/130	20/20	305/230	430/400	155/50	81/87
Potassium	mg/L	7.3/1.3	6.0/0.9	11/3.3	17/8.0	6.4/1.1	6.0/0.7
Calcium	mg/L	40/18	23/19	240/140	59/69	42/21	57/50
Magnesium	mg/L	20/13	46/72	100/70	84/96	42/31	84/81
Chloride	mg/L	230/230	48/52	850/500	820/670	79/86	145/150
Sulphate	mg/L	20/6	19/19	32/25	43/59	<2/<1	25/16
Bicarbonate	mg/L	78/18	255/230	585/350	260/330	670/170	520/420
Carbonate	mg/L	<1/<5	<1/<5	<1/<5	<1/<5	<1/<5	<1/<5
Phosphorus	mg/L	<0.1/0.1	<0.1/0.2	<0.1/0.1	<0.1/0.3	<0.1/1.4	<0.1/0.2

The analysis of groundwater monitoring results provided in the Groundwater Monitoring Reports prepared by Larry Cook Consulting following each groundwater monitoring campaign indicated:

- pH values are near neutral;
- Electrical Conductivity (EC) levels reflect the composition of the host geological formation;
- The South Spring and Phil's Spring water quality reflects the relative close proximity of the groundwater to the remnant basalt layers in the area; and
- concentrations of cations and anions have been consistent over the monitoring program between November 2013 and October 2015.

### 5.6.5 Conclusion

#### **Groundwater Monitoring Compliance Status Non-Compliant (Low Risk)**

The groundwater monitoring program required under the Environment Protection Licence 13213 conditions will provide an adequate baseline of data for the site if all piezometers/bores are available sampling. The monitoring conducted between November 2013 and October 2015 has indicated that the groundwater quality exhibits pH values near neutral; EC levels reflect the composition of the host geological formation; concentrations of cations and anions have been consistent over the period of the monitoring program; and South Spring and Phil's Spring water quality reflects the close proximity of the groundwater to the remnant basalt layers in the area. Not all monitoring specified in the Groundwater Monitoring Program was undertaken between November 2013 and October 2015, as several of the bores/piezometers established for the Environmental Assessment Groundwater Assessment had been compromised. These bores have been reinstated to ensure an adequate baseline data set for the site is obtained prior to commercial extraction of rock and sand from the quarry.

#### **Recommendation**

The groundwater bores that have been destroyed, disturbed or not found during the groundwater monitoring campaigns should be re-development and re-establishment as soon as practicable to ensure adequate baseline water quality and standing levels is obtained prior to the quarry reaching full extraction rates.

## 5.7 Erosion and Sediment Control

[Project Approval 07\_0155 Schedule 3 condition 15]

Earth diversion banks have been established on the 'Ardmore Park' Quarry site to prevent the flow of surface water over areas of disturbance (e.g. cleared areas ahead of extraction or soil stockpiles) and direct surface water to project site dams or settlement basins. Additional temporary earth diversion banks will be constructed to divert water away from active extraction areas, as required. The settlement basins provide water retention structures to allow for the settlement of suspended solid material from the water prior to discharge. Clarification ponds provide additional storage of the settled water prior to discharge or re-use for operational or environmental (dust suppression, rehabilitation watering) purposes.

### 5.7.1 Erosion and Sediment Control Plan

[Project Approval 07\_0155 Schedule 3 condition 15]

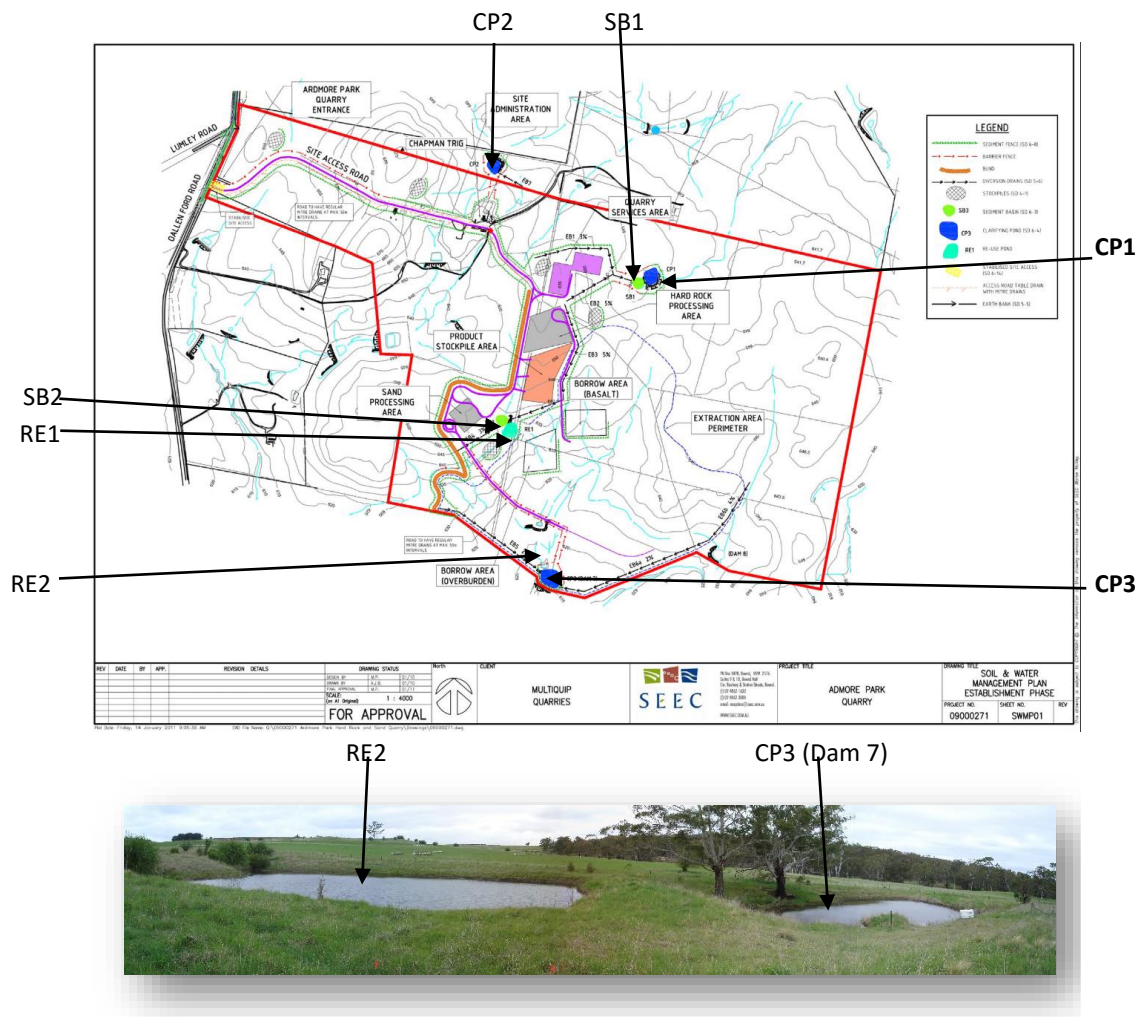


Figure 5.7.1: Erosion and Sediment Control Plan Ardmore Park Quarry Project (SEEC August 2010).

SEEC Morse McVey (2008) considered the potential areas of disturbance on the project site and determined the basin and pond capacities required:

- Quarry Services Area - A 100m<sup>3</sup> basin (SB-1) at the southern end of the hardstand area. Water from the sediment basin can release to a 500m<sup>3</sup> clarification pond (CP-1).

- Hard Rock Processing and Product Stockpile Area runoff is directed to a 500m<sup>3</sup> sediment basin (SB-2). Discharge from the sediment basin would flow to 4000m<sup>3</sup> clarification pond (CP-2) for preferential re-use in the sand washing operations.
- Sand Processing Area runoff will be directed to a 120m<sup>3</sup> sediment basin (SB3). Discharge from the sediment basin would flow to 2000m<sup>3</sup> clarification pond (CP-3) for preferential re-use in the sand washing operations. Overflow from the CP-3 can also flow to CP-2 where it would be preferentially re-used in the sand washing operations.
- Extraction Area - diversion banks around the quarry extraction area will divert water to a sediment basin / clarification pond upstream of Water Storage Dam 7, from where water may discharge from the project site. The sediment basin has a capacity of 100m<sup>3</sup> and the clarification pond capacity of 4000m<sup>3</sup>.

The design features for the sediment basins in accordance the Blue Book, Landcom (2004) assumes type D or F soils (i.e. fine or dispersive soils) providing for maximum settlement time.

### 5.7.2 Erosion and Sediment Control Monitoring

All sediment basins on the Ardmore Park site are inspected regularly and cleaned out as appropriate to maintain the nominated storage capacities.

### 5.7.3 Conclusion

<b>Erosion and Sediment Control</b>	<b>Compliance Status</b>	<b>Compliant</b>
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The erosion and sediment control on the Ardmore Park Quarry site that is being implemented and managed in accordance with the Erosion and Sediment Control Plan developed by SEEC Morse McVey, provides for satisfactory management of surface water runoff and retention of sediment on the site in the settlement basins and establishment of clarifying ponds (Dam 7/CP3) allows for water quality management prior to any release from the site.

The management of erosion and sediment control along the Bungonia By-Pass has been improved with establishment of grass on disturbed areas along the alignment and sediment fences and settlement ponds in the vicinity of the Bungonia Creek crossing.

## 5.8 Land Management

[Project Approval 07\_0155 Schedule 3 conditions 19 to 23]

### 5.8.1 Land Management Plan

[Project Approval 07\_0155 Schedule 3 condition 20]

A Land Management Plan for the Ardmore Park Quarry was prepared by RW Corkery & Co Ltd and Kevin Mills & Associates in September 2010 to satisfy Project Approval 07\_0155 Schedule 3 condition 20 and submitted to the DP&I for approval.

The Land Management Plan includes:

- Rehabilitation Management Plan (section 4) that described the final landform and land use, rehabilitation strategy and rehabilitation performance; and
- Quarry Closure (section 4.3.2) closure criteria.

## 5.8.2 Rehabilitation Management Plan

[Project Approval 07\_0155 Schedule 3 conditions 21]

### 5.8.3 Rehabilitation Principles and Objectives

Overburden screened oversize material, consolidated silt material and VENM imported as a backload to the project site to create a final landform equivalent to that of the pre-project environment, are an integral components of the operating quarry.

The 'Ardmore Park' Quarry site is located in an area dominated by smaller scale and specialist agricultural operations and properties managed for rural amenity and aesthetic value only. In designing the final landform, Multiquip considered these issues and nominated the preferred final land use as a return to medium intensity grazing or specialist agricultural/horticultural activities.

The water storage structures constructed on the Project Site would be retained for future agricultural land use.

To maximise the ability of the final landform to sustain agricultural activities, Multiquip proposes to return the site to a landform with constructed slopes similar to that of the pre-extraction environment.

Areas of the final landform would also be designated for the establishment of native vegetation, (principally the endangered White Box Yellow Box Blakely's Red Gum Woodland communities) along the southern and western boundaries of the project site to link with the isolated pockets of native vegetation to the south, west and northwest of the project site.

### 5.9.4 Conclusion

#### Land Management (Quarry)

Status

Not triggered

No rehabilitation of the disturbed areas of the quarry site had occurred at the date of this audit (October 2015) due to the works undertaken between November 2013 and October 2015 being mainly site establishment and road work on the Bungonia By-Pass.

The Bungonia By-Pass works have included the stabilisation of embankments along the road alignment with grass cover and establishment of erosion and sediment control structures in the vicinity of the Bungonia Creek bridge.

## 5.9 Heritage Management

[Project Approval Schedule 3 condition 24]

### 5.9.1 Aboriginal Heritage Management Plan

[Project Approval Schedule 3 condition 24]

An Aboriginal Heritage Management Plan was prepared by Kayandel Archaeological Services in September 2010 to satisfy Project Approval 07\_0155 Schedule 3 condition 24.

### 5.9.2 Environmental Assessment (2008) Commitments

[Environmental Assessment (2008) Specialist Consultant Studies Compendium - Part 7 Cultural Heritage]

A cultural heritage assessment of the 'Ardmore Park' Quarry project site was conducted by Cultural Heritage Management Australia in May 2008.

Two Aboriginal heritage sites (ARD1 and ARD2) consisting of small artefact scatters were identified during the surface archaeological survey. Both sites are situated on or near creek lines.

Based on the results and conclusions of the Cultural Heritage Assessment (2008) it is considered unlikely that the 'Ardmore Park' Quarry operations will have any impact on identified items or sites of Aboriginal heritage significance. Further investigations in the form of test-pitting are to be undertaken in accordance with the Aboriginal Heritage Management Plan, Project Approval Schedule 3 condition 24, and Statement of Commitment 10.2.

### 5.9.3 European Heritage

[Project Approval 07\_0155 Schedule 3 condition 24]

[Statement of Commitment 11.2]

The "Ardmore Park' Quarry site is located sufficiently distant from the identified sites of heritage significance such that the proposed activities would be unlikely to have any direct physical impact on these sites.

GSA Planning (2007) identified Bungonia Village, and the 'Reevesdale' and 'Inverary Park' properties as being of specific heritage significance:

- Bungonia Village - The Ardmore Park' Quarry project site is approximately 4km to the south of Bungonia Village and would have little potential impact on the heritage significance of the village. As all product transport will occur along the Bungonia By-Pass (constructed by Multiquip) no project vehicles will use King Street Bungonia, except if required for local delivery of quarry product.
- 'Reevesdale' Property - The "Ardmore Park'" property shares its northern boundary with the "Reevesdale" property, however, the "Ardmore Park' Quarry operations will all be to the south of a ridge on the "Ardmore Park'" property, providing a visual screen to the 'Reevesdale' property.
- 'Inverary Park' property residence is located at a higher elevation than the Ardmore Park' Quarry project and the quarry operations are potentially within the visual catchment of the residence. The 'Inverary Park' property residence is greater than 1,200m from the Ardmore Park' Quarry operations and is considered by GSA Planning (2007) to be sufficiently remote such that the operations as not to diminish the surrounding landscape quality or heritage value of the property.

### 5.9.4 Conclusion

Heritage Management	Compliance Status	Compliant
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An Aboriginal Heritage Management Plan was prepared by Kayandel Archaeological Services in September 2010 to satisfy Project Approval 07\_0155 Schedule 3 condition 24. Two Aboriginal heritage sites (ARD1 and ARD2) consisting of small artefact scatters were identified during the surface archaeological survey. The Cultural Heritage Assessment (2008) concluded it was unlikely that the 'Ardmore Park' Quarry operations would have any impact on identified items or sites of Aboriginal heritage significance.

The European Heritage Assessment (2008) identified Bungonia Village, and the 'Reevesdale' and 'Inverary Park' properties as being of specific heritage significance and concluded that *the "Ardmore Park' Quarry project is located sufficiently distant from the identified heritage that the proposed activities would be unlikely to have any direct physical impact on these sites.*

## 5.10 Traffic and Transport

[Project Approval 07\_0155 Schedule 3 condition 25 to 30]

### 5.10.1 Traffic Management Plan

[Project Approval 07\_0155 Schedule 3 condition 27]

A Traffic Management Plan was prepared in September 2010 for the "Ardmore Park' Quarry by Christopher Hallam & Associates (approved by the Director-General), to satisfy Project Approval 07\_0155 Schedule 3 condition 27. The Traffic Management Plan was prepared in consultation with Goulburn-Mulwaree Council and Roads and Maritime Services (RMS) and submitted to the Director-General for approval prior to carrying out any development on "Ardmore Park' Quarry site. The DP&I provided comments on the Traffic Management Plan on 22 July 2011 and Multiquip responded to the comments on 23 August 2011. The Traffic Management Plan had not been finalised and approved at the date of this audit (October 2015).

The Bungonia By-pass road construction and the entrances to Ardmore Park property were completed in Q1 2016. Planning of the final stages of the road widening program were occurring at the date of this audit and consultation in relation to finalising the Traffic Management Plan will occur as part of the discussion of those road works.

#### **Recommendation:**

It is recommended that consultation and finalisation of the Traffic Management Plan occurs as soon as practicable to ensure that traffic management associated with the 'Ardmore Park' Quarry complies with Project Approval 07\_0155 Schedule 3 condition 27.

### 5.10.2 Road Safety Audit

[Project Approval 07\_0155 Schedule 3 condition 27(b)]

A Road Safety Audit to satisfy Project Approval 07\_0155 Schedule 3 condition 27(b) was undertaken by an accredited road safety auditor (Transport and Urban Planning Pty Ltd) in July/August 2013 for the detailed design for Stages 1 and 2 of the proposed Transport Route for the "Ardmore Park' Quarry, Bungonia By-pass and the proposed upgrade of Oallen Ford Road from the private entrance to 'Ardmore Park', in accordance with the Roads and Traffic Authority document - *Accident Reduction Guide Part 2: Road Safety Audits* (August 2005). The objective of the road safety audit was to identify potential safety problems for road users and to ensure that measures to eliminate or reduce these likely problems were fully considered.

The Road Safety Audit findings presented a number of features of the proposed design that could be altered or reconsidered to improve road safety. The issues identified were risk ranked generally as low, with medium ranked issues related to Give Way and Stop signs to be erected and barrier protection on steep slopes. The final design of the road upgrades will consider the findings of the Road Safety Audit prior to finalisation of the road upgrades.

### 5.10.3 Traffic Management Implementation

The implementation of the Traffic Management Plan and Drivers Code of Conduct applies to all Multiquip and contract personnel involved in travel to and from the 'Ardmore Park' Quarry site. All drivers are inducted prior to accessing the quarry site and required to review and sign a copy of the Driver Code of Conduct before being authorised to transport any quarry product from the site.

The Driver Code of Conduct requires all drivers to:



- Comply with all RTA regulations regarding speed, load weight limits and driving hours;
- Strictly follow the Ardmore Park Speed Limit of 80 km/hr on Jerarra and Oallen Ford Roads;
- When driving on the Bungonia Bypass road, a speed of 60 km/hr is not to be exceeded;
- When driving on Jerrara Road or Oallen Ford Road, if you are in close proximity to another quarry truck, allow adequate space between trucks to permit other traffic to pass, one truck at a time;
- When passing a stopped school bus during the school day periods of 7.00-9.30am and 3.00-5.30pm, drivers must decelerate so that the speed of the truck when it passes the stopped bus does not exceed 60 km/hr;
- Comply with all rules and regulations such as speed restrictions when in the quarry or customer properties;
- Ensure that all loads are correctly covered and sealed;
- Limit the use of the engine brake and other noisy driving practices in built up areas
- Ensure compliance with all time restrictions and curfews relating to the "Ardmore Park' Quarry or customer's sites;
- Use the truck wash and/or wheel wash before leaving the "Ardmore Park' Quarry site, when provided;
- Show courtesy to all customers and all road users at all times;
- Be familiar with the Personal Protection Equipment requirements for each customer or depot and strictly adhere to them;
- Ensure that your actions bring credit upon yourself, our company and the transport industry in general.  
Comply with all RTA regulations regarding speed, load weight limits and driving hours;

(As the "Ardmore Park' Quarry activities to the date of this audit (October 2015) had been predominately related to site establishment and construction of the Bungonia By-Pass and other road works, traffic management has only been associated with sporadic truck movements of material mainly related for the Bungonia By-Pass development, not transport of product from the site).

#### 5.10.4 Conclusion

<u>Traffic Management</u>	<u>Compliance Status</u>	<u>Compliant Ongoing</u>
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The Traffic Management Plan and Drivers Code of Conduct were prepared in September 2010 for the Ardmore Park Quarry by Christopher Hallam & Associates in consultation with Goulburn-Mulwaree Council and the Roads and Maritime Services, to satisfy Project Approval 07\_0155 Schedule 3 condition 27. The Traffic Management Plan will apply to all trucks/vehicles associated with the Ardmore Park Quarry and will be implemented as the quarry development progresses.

Consultation in relation to finalising the Traffic Management Plan should occur as soon as practicable as part of the discussion on the final stages of the road widening program, to ensure that traffic management associated with the 'Ardmore Park' quarry activities comply with Project Approval 07\_0155 Schedule 3 condition 27.

A Road Safety Audit was conducted in July/August 2013 for the detailed design for Stages 1 and 2 of the proposed Transport Route for the Ardmore Park Quarry Project, Bungonia Village and the proposed upgrade of Oallen Ford Road from the private entrance to Ardmore Park, in accordance with the Roads & Traffic Authority's *Accident Reduction Guide Part 2: Road Safety Audits* (August 2005).

## 5.11 Visual Amenity

[Project Approval 07\_0155 Schedule 3 conditions 31 to 36]

### 5.11.1 Environmental Assessment of Visual Impacts

The Environmental Assessment (2008) concluded that despite the orientation of the various components of the 'Ardmore Park' Quarry project operations, the visual controls to be implemented would still result in a number of residences having varying views of the quarry activities. The views have been minimised as far as practicable and are not considered to be of a magnitude likely to impact significantly on the amenity of the local area or the affected properties.

The visual controls being implemented for the Quarry development will reduce the visibility of the quarry operations (e.g. the establishment of earthen bunds on the western side of the quarry extraction areas with vegetative cover and quarry operations conducted below the existing surface level of the site). The vegetation of these bunds, and the revegetation of the project site in general, will ultimately minimise the visual impact providing a screen around much of the proposed quarry operations. Establishment of areas of native vegetation on the 'Ardmore Park' Quarry site will enhance the visual amenity of the largely cleared paddocks of the 'Ardmore Park' property.

### 5.11.2 Visual Impact Mitigation Report

[Project Approval 07\_0155 Schedule 3 condition 32]

A Visual Impact Mitigation Report was prepared to satisfy Project Approval 07\_0155 Schedule 3 condition 32. The Visual Impact Mitigation Report identified the privately-owned residences likely to experience visual impacts during the construction and operation of the 'Ardmore Park' Quarry project and described in general terms additional mitigation measures that could be implemented to reduce the visibility of the quarry from these residences. Neighbouring property owners/residents who could have some view of the approved operations at the 'Ardmore Park' Quarry are:

- Properties 19, 20, 21 and Residence 3 - There would be no visual impact of the quarry from the Philip's main living and working area as significant vegetation provides a natural screen between the house, shed and quarry area. Some boundary line vegetation locations were suggested;
- Property 47 and Residence 6 - No visual impact from Residence 6 or any place on Property 47 was evident as a large hill on the Ardmore Park property is located between the property and quarry operations; and
- Properties 9, 17 and 18 - Residence 9 is generally screened from the quarry property and there are only obstructed views of the main driveway onto 'Ardmore Park'. It was suggested an increase in vegetation along the driveway would assist in mitigating his view of quarry operations.

The Multiquip Landscape Management Plan addresses the rehabilitation strategy for the 'Ardmore Park' property and this includes the short, medium and long term to provide visual and habitat corridors across the site, that will reduce the visual impact of disturbance from the quarry development and operation.

### 5.11.3 Conclusion

<u>Visual Amenity</u>	<u>Compliance Status</u>	<u>Compliant Ongoing</u>
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Controls are being implemented for the 'Ardmore Park' Quarry development to reduce the visibility of the quarry operations, through establishment of areas of native vegetation to enhance the visual amenity of the largely cleared existing paddocks of the 'Ardmore Park' property. The visual amenity of the surrounding properties and residences will be minimised as far as practicable and the visual impact will not significantly affect the overall amenity of the local area.



## 5.12 Bushfire

[Project Approval 07\_0155 Schedule 3 conditions 31 to 36]

### Environmental Assessment of Bushfire Hazard

The 'Ardmore Park' property, has been largely cleared for agricultural grazing activities with some isolated native trees present within the predominantly cleared areas. The bushfire management controls and safeguards, in conjunction with general clearing activities associated with the quarry project will ensure that a low bushfire hazard is maintained on the 'Ardmore Park' property.

Based on a Rural Fire Service report (2001), approximately 95% of the Ardmore Park' property vegetation is classified as Group 3, Class 26 (F3 Sown Pasture). The remaining vegetation is classified as either Group 3, Class 1 (M1 Open Woodland) or areas meeting the classification of Group 2, Class 6 (M2 Woodland).

The vegetation of the surrounding landholdings is dominated by cleared land for agricultural activities and similar to that of the Ardmore Park' property, with the exception of remnant stands of native woodland/forest (particularly to the immediate southeast of the 'Ardmore Park' Quarry Site).

The RFS bushfire attack category is defined as low (i.e. *an expected fire behaviour of "insignificant ember attack, radiation no greater than 14.5kW/m<sup>2</sup> or is greater than 100m from all woody vegetation"*).

As such the bushfire hazard of the Project Site would be low and the proposed "Ardmore Park" Quarry unlikely to be significantly influenced by bushfire.

## 5.13 Community Consultative Committee

[Project Approval 07\_0155 Schedule 5 condition 9]

A Community Consultative Committee (CCC) was established to satisfy Project Approval 07\_0155 Schedule 5 condition 9. The first CCC Meeting was held on the 8 September 2010 and the CCC has met at least each six months and currently comprises the following representatives.

- Don Elder (Chairman).
- Jason Mikosic (Multiquip Representative).
- Rick Mandelson (Multiquip Representative).
- Steve Mikosic (Multiquip Representative).
- Louise Wakefield (Goulburn Mulwaree Council).
- Mick Ireland (Committee Member).
- Phillip Broadhead (Committee Member).
- Joanne Macey (Committee Member).

CCC Meetings have been held on:

- 8 September and 1 December 2010
- 4 May and 12 October 2011
- 2 May and 5 December 2012
- 20 May and 11 November 2013
- 12 May and 10 November 2014; and
- 11 May 2015

The CCC Meetings have been mainly associated with description of the development of the 'Ardmore Park' Quarry site and roadworks. Matters related to the status of the roadworks and traffic from the quarry development have been raised by the Bungonia Progress Association at recent CCC meetings. A DP&E Compliance Audit of the Multiquip Ardmore Park Quarry (conducted as part of the State Sand Quarries Campaign) was reported in September 2015. The findings of the DP&E Compliance Audit of the Multiquip Ardmore Park Quarry did not indicate a breach of the Project Approval conditions in relation to traffic movements from the quarry (except for an Administrative Non-compliance related to reporting truck movements and production rates to the DRE).

## 6. DP&E Compliance Audit

### 6.1 DP&E Compliance Audit Findings

The DP&E conducted a Compliance Audit of the "Ardmore Park" Quarry Bungonia in July 2015, as part of the State Sand Quarries Campaign.

The findings of the compliance audit were that:

*"Multiquip Ardmore Park quarry was found to be operating generally in compliance with the conditions of the Project approval; however, 10 administrative non-compliances, 1 low risk non-compliance, and 3 moderate risk non-compliances with conditions (or sub elements of conditions) were identified where action is required to ensure compliance is achieved."*

The Summary Table 1 of the DP&E Compliance Audit listed the following Non-Compliances. The Non-Compliances were reviewed and comments from the findings of Independent Environmental Audit provided on the current status of each DP&E matter.

**Table 6.1: Independent Environmental Audit Findings on the Status of Each DP&E Non-Compliance**

Project Approval condition	D&E - Details of Non-Compliance	DP&E Recommendation	Multiquip Response and /Finding of this Independent Audit
<b>DP&amp;E Non-Compliance (Low Risk)</b>			
Schedule 3, Condition 2	The proponent has not been conducting the required noise monitoring and therefore the Noise Monitoring Program has not been implemented. DP&E has received complaints regarding noise from crusher operations in June / July 2015.	The proponent is to undertake annual noise monitoring in accordance with the Noise Monitoring Program.  It is recommended monitoring be conducted the next time the crusher is to be used on site. DP&E must be advised of the intended date of this operation at least 72 hours prior to commencement.	Routine operator attended noise monitoring had not commenced at the date of this audit (i.e. October 2015) as all components of the quarry were not operating. (refer to approved Noise Monitoring Program section 3.3). Multiquip has conducted noise monitoring when the crusher was operational and provided the report to DP&E.
Schedule 3, Condition 6	While the proponent has prepared a Noise Management Plan, noise monitoring has not been carried out and therefore the Noise Monitoring Program has not been implemented as required by this condition.		<b>Audit finding current status: Compliant</b> with the approved Noise Monitoring Program page 7, section 3.3 first para.
Schedule 3, Condition 8	The condition requires the proponent to ensure visible air pollution generated by the project is assessed regularly, and quarrying operations are relocated,	The proponent is to advise DP&E at least 72 hours prior to commencement of the next date the crusher is to be used on site and visible air	Crusher operations have been improved to ensure that wind and environmental conditions are taken into account when the crusher is operated. Additional dust monitors are being installed

Project Approval condition	D&E - Details of Non-Compliance	DP&E Recommendation	Multiquip Response and /Finding of this Independent Audit
	modified, and/or stopped to minimise air quality impacts on privately owned land. DP&E have received complaints about large dust plumes impacting on adjoining private land.	pollution must be monitored and assessed.	to provide data on visible air pollution. <b>Audit finding current status: Remains a low risk Non-compliance.</b> The DP&E recommendation is being implemented.
Schedule 3, Condition 28 (b)	The condition requires that loaded vehicles leaving the site are cleaned of materials that may fall on the road, before they leave the site. To date traffic flow from the site has been low, however once the upgrade of the intersection of Oallen Ford Road / Lumley Road at the quarry entrance is completed (scheduled for completion by 31 October 2015) local deliveries will be permitted. Vehicle washing facilities should be in place before local deliveries commence.	Vehicle washing facilities are to be installed prior to commencement of local deliveries.	The Ardmore Park Quarry service area is being constructed, including a wheel washing facility for vehicles leaving the site. While the Quarry service area is under development, a road sweeper is maintained on the premises and used to ensure that road near the Ardmore Park entrance is regularly kept free from material that may have fallen from truck wheels. Vehicle washing facilities will be installed prior to commencement of local deliveries of quarry products. <b>Audit finding current status: Remains a low risk Non-compliance.</b> The DP&E recommendation is being implemented.
<b>DP&amp;E Administrative Non-Compliance</b>			
Schedule 2, Condition 13	The proponent has not paid any section 94 contributions to Goulburn-Mulwaree Council.	The proponent should liaise with Council to ensure contributions obligations under this approval are up to date, and provide written confirmation to DP&E from Council within 30 days.	Material extracted has been calculated and truck movement determined. The Section 94 contribution owing to date has been has been calculated by Multiquip and the Council advised of the amount. <b>Audit finding current status: Remains an Administrative Non-compliance.</b> Multiquip is awaiting a response from the Council of the amount determined to finalise this matter for the material extracted and transported to date.
Schedule 3, Condition 23	A rehabilitation and offset bond is required to be lodged with DP&E within 3	The proponent should lodge the required bond	The mix of future production from the quarry will affect the disturbed areas of the Ardmore

Project Approval condition	D&E - Details of Non-Compliance	DP&E Recommendation	Multiquip Response and /Finding of this Independent Audit
	months of approval of the Landscape Management Plan (submitted January 2011). The AEMR acknowledges that the bond should be lodged.	with DP&E within 3months date of this audit.	Park development. The rehabilitation and offset bond will be lodged when the extent of disturbed areas is finalised. <b>Audit finding current status: Remains an Administrative Non-compliance.</b>
Schedule 3, Condition 30	The condition requires the proponent to record and maintain a log of extraction quantities and traffic movement in and out of the quarry site. The log of vehicle movements kept to date does not provide adequate detail on traffic movements.	The proponent is to maintain a log of traffic movements for all heavy vehicles and trucks into and out of the quarry site. That log is to record: <ul style="list-style-type: none"> <li>• Time and date of entry/exit;</li> <li>• Vehicle identification (registration &amp; company vehicle number if applicable);</li> <li>• Load weight and load type (e.g. aggregate; VENM, etc)</li> </ul>	A traffic movement log has been created from information held by Multiquip for the period ended 31 December 2015. Extracted material has been determined from scales on the loaders used to fill trucks and material taken off-site for the use on road works or local sales. <b>Audit finding current status: Compliant</b> A log of all heavy vehicle and trucks in and out of the quarry site has been maintained on-site since 1 January 2016.
Schedule 3, Condition 41 (a)	The condition requires the proponent to provide annual production data to DRE using the standard form. This has not been done to date.	Annual production data returns are to be lodged with DRE for all outstanding periods.	Production data has been completed on the DRE standard form for 2015. Records are now being kept for submission to DRE. <b>Audit finding current status: Compliant</b>
Schedule 5, Condition 3	The condition requires the proponent to notify DP&E within 24 hours of an incident likely to cause environmental harm. The incident (February 2014) in which sediment laden stormwater was discharge into Bungonia Creek was not reported within 24 hours to DP&E or other agencies as required.	The proponent is advised that any incident likely to cause environmental harm, failure of monitoring equipment or any exceedance of limit criteria should be reported to DP&E as an incident.	As part of the revised Erosion and Sediment Control Plan, site monitoring plan and incident reporting forms are being developed and integrated with weather monitoring data to improve response time and reporting time of any incidents. No notifiable incidents occurred to the date of this audit. <b>Audit finding:</b> Multiquip have introduced a procedure to address this matter if an incident occurs.
Schedule 5, Condition 5	The proponent is required, within 12 months of commencement of construction activity, and	The proponent is to ensure that future AEMRs are submitted by the due date.	The AEMR for the Ardmore Park Quarry is required to be prepared by November each year for the

Project Approval condition	D&E - Details of Non-Compliance	DP&E Recommendation	Multiquip Response and /Finding of this Independent Audit
	<p>then annually thereafter, to provide an Annual Environmental Management Report (AEMR) to DP&amp;E. An AEMR for 2014 was not submitted as required. On 25 August 2015 the proponent provided a copy of an AEMR for the period November 2013 to August 2015 to the auditors.</p>		<p>previous 12 months and submitted to the DP&amp;E.</p> <p><b>Audit finding current status:</b> Multiquip have committed to submission of the Annual Environmental Management Report to be submitted by the due date, in accordance with Project Approval 07_0155 Schedule 5 condition 5.</p>
<p>Schedule 5, Condition 5A (d)</p>	<p>The condition requires that within 3 months of any modification of the approval, the proponent shall review and if necessary revise, the strategies, plans and programs required under the approval. The audit could find no evidence that the relevant strategies, plans and programs had been reviewed following the determination to approve Mod 2 in December 2013.</p>	<p>The proponent is to ensure that if any of the triggers set out in condition 5A apply, that the strategies, plans and programs are reviewed, and that this is appropriately documented so as to demonstrate compliance. The proponent is reminded that submission of the AEMR dated August 2015 means that a review of strategies, plans and programs and, where necessary, revision of these is completed is due within 3 months of the date of AEMR submission.</p>	<p>All strategies, plans and programs will be reviewed and a log developed to record reviews and revisions/considerations to be documented.</p> <p><b>Audit finding current status:</b> Multiquip have committed to a periodic system of review to be implemented to ensure that strategies, plans and programs remain relevant and appropriate.</p>
<p>Schedule 5, Condition 11</p>	<p>The condition requires the proponent ensures that a summary of monitoring results required under the approval is publicly available on its website, and that these results are updated at least every 3 months. No monitoring data was available on the Proponent's website during the audit period (July-August 2015).</p>	<p>The proponent is to ensure that the required monitoring summaries are available on its website and regularly up dated.</p>	<p>While a new website for the Ardmore Park Quarry was being developed, reports were not uploaded to the live site in a timely manner. This duty has now been assigned to a Multiquip staff member to ensure that each period report is received and uploaded in a timely manner.</p> <p><b>Audit finding current status:</b> <b>Remains an Administrative Non-compliance.</b> The uploading of the required monitoring summaries to its website will</p>

Project Approval condition	D&E - Details of Non-Compliance	DP&E Recommendation	Multiquip Response and /Finding of this Independent Audit
			occur when the new website is operational.

**Summary of Groundwater Management Non- Compliances**

GMP condition	D&E - Details of Non-Compliance	DP&E Recommendation	Multiquip Response and /Finding of this Independent Audit
<b>DP&amp;E Non-Compliance (Low Risk)</b>			
Section 1.1 Appendix 2.1	Audit could only establish existence of monitoring data for January 2015 and July 2015. No evidence of monthly sampling or explanation for change of monitoring frequency.	Proponent is to ensure monitoring conducted in accordance with GMP	Electronic loggers have been installed to allow for more regular monitoring. A variation to the licence was granted on 23 December 2015 updating the water monitoring program and location of bores to be monitored. <b>Audit finding current status: Compliant</b> The installation of electronic loggers should address the monitoring frequency.
10.4.3.1	Four sand bores and one hard rock bore were not operational due to failures. No explanation was found for why number of bores appears to have been reduced from 9 to 5. These matters should have been reported as an incident to DP&E.	The proponent is to advise DP&E when destroyed / non-operational bores are reinstated, and ensure monitoring in accordance with GMP	Following the re-instatement of the bores to be monitored and the installation of electronic loggers the monitoring is in compliance with GMP. Any failures due to bores becoming non-operational or failure in monitoring will be reported as an incident to DP&E. <b>Audit finding current status: Remains a low risk Non-compliance.</b> The DP&E recommendation will be implemented if bores are non-operational.
Section 1.2 Appendix 2.1	Audit could not establish existence of monitoring data for sand bores – sand bores destroyed and need to be replaced.	Proponent is to advise DP&E when destroyed / non-operational bores are reinstated, and ensure monitoring in accordance with GMP	A variation to the licence was granted on 23 December 2015 updating the water monitoring program and location of bores to be monitored. All agreed monitoring points are presently being monitored in accordance with GMP.
Section 2.1 Appendix 2.1	Appendix 2.1 Audit could only establish existence of water quality	Proponent is to ensure monitoring conducted in accordance with GMP.	



GMP condition	D&E - Details of Non-Compliance	DP&E Recommendation	Multiquip Response and /Finding of this Independent Audit
	monitoring data for hard rock bores for January and July 2015		<b>Audit finding current status:</b> The EPL Variation has addressed the groundwater monitoring matters. Future groundwater monitoring reports should be in accordance with the Groundwater Management Plan
Section 2.1 Appendix 2.1	No explanation of why sampling not done prior to January 2015, or for 6 monthly sampling at this stage	Proponent is to ensure monitoring conducted in accordance with GMP.	
Section 1.1 Appendix 2.1	No evidence of annual reporting to NOW since commencement of extraction in November 2013	Proponent to clarify reporting requirements with NOW and report outcome to DP&E.	<b>Audit finding current status:</b> A copy of Water Management Reports will be forwarded to NOW and any specific reporting requirement (if any) of NOW will be forwarded to DP&E. NOW officers have inspected the site and have not requested any additional material to date.

**Summary of Landscape and Rehabilitation Management Plan Non- Compliances**

LMP section	D&E - Details of Non-Compliance	DP&E Recommendation	Multiquip Response and /Finding of this Independent Audit
<b>DP&amp;E Administrative Non-Compliance</b>			
6.2	The LRMP requires regular inspections and creation of a log to maintain records of the results. The following to be monitored: - condition of fencing - condition of planted areas - condition of rehabilitated pasture areas - confirmation that disturbance is limited to approved areas of operation. The audit did not see a log of records on these matters.	The proponent is to monitor the matters listed, and to establish and maintain a log to record the outcome of required inspection.	A farm management plan is being developed to enable the agricultural land of Ardmore Park that is not required for quarrying and quarrying associated activities to be productively utilised. The farm management plan will require additional fencing, the creation of paddocks and stock protection (including areas of shelter) and areas to enable stock movement between paddocks. The farm management plan will include regular inspection and repair of fencing, as well as soil cover and health of trees and general vegetation. <b>Audit finding current status:</b> <b>Remains an Administrative Non-compliance</b> The development of the Farm Management Plan will address the DP&E requirement and

LMP section	D&E - Details of Non-Compliance	DP&E Recommendation	Multiquip Response and /Finding of this Independent Audit
			monitoring results should be summarised and reported in the AEMR.

## 6.2 Conclusion

A response from Multiquip to the findings of Non-compliances identified in the DP&E Compliance Audit of the Multiquip Ardmore Park Quarry Report dated September 2015, has been prepared and submitted to DP&E.

A number of the Non-compliances have been addressed or procedures or processes are being developed, to address the DP&E recommendations when the Project Approval conditions are next triggered.

DP&E identified Non-compliances that still require Multiquip action, have also been identified in this Independent Environmental Audit and comment is provided in the compliance tables or where relevant addressed in the main text section 5.

## 7. Conclusions

The findings of the Independent Environmental Audit of the 'Ardmore Park' Quarry conducted in October 2015 have verified that the Multiquip Ardmore Park Quarry site establishment and road works are being conducted generally in compliance with the conditions of the Project Approval 07\_0155. This Independent Environmental Audit findings are generally consistent with the conclusions of the DP&E Compliance Audit of the Multiquip Ardmore Park Quarry report dated September 2015.

The Independent Environmental Audit identified the following Non-compliances with the conditions of Project Approval 07\_0155 (refer to Tables 6.1 to 6.3):

- Eight (8) Administrative Non-compliances;
- Two (2) Low Risk Non-compliances – one related to visual dust complaint and one related to reporting to DRE of truck movements and product from the site;
- One (1) Moderate Non-compliance, with the conditions of Project Approval 07\_0155 (refer to Tables 6.1 to 6.3).

The DP&E Compliance Audit of the Multiquip Ardmore Park Quarry (September 2015) identified Low Risk Non-compliance related to groundwater monitoring under the Groundwater Management Plan and this Independent Environmental Audit also identified two (2) Low Risk Non-Compliances with the Environment Protection Licence 13213 conditions P1.3 and M2.3 related to groundwater monitoring bores (refer to Table 6.4):

- Two (2) Non-compliances (Low Risk) related to groundwater monitoring bores that had been destroyed during the site establishment construction activities resulting in no groundwater baseline data being collected during the June 2015 monitoring program.

**Table 6.1: Project Approval 07\_0155 Non-compliances (Administrative)**

	Project Approval Condition	Audit Comment	Status
	<b>Section 94 Contributions</b>		
<b>2/13</b>	The Proponent shall pay Council a monthly contribution of 4.43 cents per kilometre per tonne of material trucked from the site for the upgrade and maintenance of roads in accordance with Goulburn Mulwaree Section 94 Development Contributions Plan 2009 Amendment No. 2 in force at the date of this approval. The contribution amount shall be adjusted annually to account for the effects of inflation (Consumer Price Index).	Transport of product from the quarry between November 2013 and October 2015 was for the construction of the Bungonia By-Pass. No S94 contributions had been paid to the Goulburn-Mulwaree Council at the date of this audit. The proponent should liaise with Council to ensure obligations related to S94 contributions are up to date for material trucked from the site for the upgrade and maintenance of roads. Multiquip has calculated the material extracted and truck movements from the quarry site. The Section 94 contribution owing to date has been advised to the Council. Multiquip is awaiting a response from the Council of the amount determined to finalise this matter for the material extracted and transported to date.	Administrative Non-Compliance

	Project Approval Condition	Audit Comment	Status
	<b>Rehabilitation Bond</b>		
3/23	Within 3 months of the approval of the Landscape Management Plan, the Proponent shall lodge a rehabilitation and offset bond for the project with the Director-General.....	The rehabilitation and offset bond had not been lodged at the date of this audit (October 2015). Multiquip advised that the mix of future production of rock and sand from the Ardmore Park Quarry will affect the disturbed areas of the Ardmore Park development and rehabilitation and offset bond will be lodged when the extent of disturbed areas is finalised.	Administrative Non-compliance
	<b>Traffic Management Plan</b>		
3/27	The Proponent shall prepare and implement a Traffic Management Plan for the project to the satisfaction of the Director-General. This plan must: (a) be prepared in consultation with Council and the RMS by suitably qualified independent expert/s whose appointment/s have been approved by the Director-General, and be submitted to the Director-General for approval prior to carrying out any development on site;	The Traffic Management Plan was prepared for the Ardmore Park Quarry by Christopher Hallam & Associates in September 2010: (a) The Traffic Management Plan was prepared in consultation with Goulburn-Mulwaree Council and the RMS on 20 August 2010 by Christopher Hallam of Christopher Hallam & Associates (approved by the Director-General). The Traffic Management Plan was submitted to the Director-General for approval prior to carrying out any development on site. Comments were received from DP&I on 22 July 2011. Multiquip responded on 23 August 2011. Consultation in relation to finalising the Traffic Management Plan will occur as part of the discussion on the final stages of the road widening program.	Administrative Non-compliance
	<b>PRODUCTION DATA</b>		
3/41	The Proponent shall: (a) provide annual production data to the DRE using the standard form for that purpose; and (b) include a copy of this data in the AEMR.	(a) Annual production data reporting to the DRE for the Ardmore Park Quarry had not occurred to the date of this audit (October 2015).	Administrative Non-Compliance
	<b>REPORTING</b>		
	<b>Incident Reporting</b>		
5/3	Within 24 hours of detecting an exceedance of the limits/performance criteria in this approval or the occurrence of an incident that causes (or may cause) harm to the environment, the Proponent shall notify the	An incident resulting in release of turbid water to Bungonia Creek following heavy rainfall event was reported to the EPA. The DP&E was not notified. Incident reporting forms are being developed by Multiquip to improve response time and reporting of any incidents.	Administrative Non-compliance

	Project Approval Condition	Audit Comment	Status
	Department and other relevant agencies of the exceedance/incident.		
5/4	Within 6 days of notifying the Department and other relevant agencies of an exceedance/incident, the Proponent shall provide the DP&E and these agencies with a written report that: (a) describes the date, time, and nature of the exceedance/incident; (b) identifies the cause (or likely cause) of the exceedance/incident; (c) describes what action has been taken to date; and (d) describes the proposed measures to address the exceedance/incident.	An Incident Report on the loss of turbid water to Bungonia Creek in February 2014 was not submitted to DP&E. Notification occurred to EPA and SCA, who conducted a site inspection. Multiquip engaged Strategic Environmental and Engineering Consultants (SEEC) to provide recommendations for upgraded erosion and sediment control to address the cause of the incident. No other notifiable incidents occurred to the date of this audit.	Administrative Non-Compliance
5/5	Within 12 months of the commencement of construction activities, and annually thereafter, the Proponent shall submit an AEMR to the Director-General and relevant agencies.	The first AEMR was not prepared within 12 months of the commencement of construction activities. The first AEMR was prepared " <i>for the initial 19 month period of operations under MP 07 0155, commencing in November 2013 through to 21 August 2015. This reflects the relatively minor nature of activities undertaken</i> "	Administrative Non-Compliance
5/11	During the project, the Proponent shall: (a) make a summary of monitoring results required under this approval publicly available on its website and at the site office; and (b) update these results on a regular basis (at least every 3 months).	Multiquip Quarries should ensure that the monitoring summaries are available on its website and are regularly updated. Monitoring data produced between November 2013 and October 2015 had not been uploaded to the website at the date of this audit (October 2015).	Administrative Non-Compliance

**Table 6.2: Project Approval 07\_0155 Non-compliances (Low Risk)**

	Project Approval Condition	Audit Comments	Status
	<b>Operating Conditions</b>		
3/8	The Proponent shall ensure any visible air pollution generated by the project is assessed regularly, and that quarrying operations are relocated, modified, and/or stopped as required to minimise air	Visible dust generated from the quarry operations was reported to the DP&E in 2014 and a dust complaint was lodged with Multiquip in May 2015. Crusher operations now ensure that wind and environmental conditions are taken into account when the crusher is operated.	<b>Non-Compliance (Low Risk)</b>

	Project Approval Condition	Audit Comments	Status
	quality impacts on privately owned land.	Additional dust monitors are being installed to provide data on visible air pollution.	
	<b>Road Haulage</b>		
<b>3/28</b>	The Proponent shall ensure that: (a) all loaded vehicles entering or leaving the site are covered; and (b) all loaded vehicles leaving the site are cleaned of materials that may fall on the road, before they leave the site.	a) the Drivers Code of Conduct and Traffic Management Plan address covering of loads for all vehicles entering or leaving the site when transport of product commences; and (b) vehicle washing facilities are to be installed prior to commencement of transport of quarry product from the site for local deliveries. The Ardmore Park Quarry service area is being constructed, including a wheel washing facility for vehicles leaving the site. While the Quarry service area is under development, a road sweeper is maintained on the premises and used to ensure that road near the Ardmore Park entrance is regularly kept free from material that may have fallen from truck wheels.	<b>Non-compliance (Low Risk)</b>

**Recommendation:**

It is recommended that consultation in relation to finalising the Traffic Management Plan should occur as part of the discussion on the final stages of the road widening program as soon as practicable, to ensure that traffic management associated with the Ardmore Park Quarry complies with Project Approval 07\_0155 Schedule 3 condition 27.

**Table 6.3: Project Approval 07\_0155 Non-compliances (Moderate Risk)**

	Project Approval condition	Audit Comment	Status
	<b>Discharges</b>		
3/12	The Proponent shall not discharge any water from the quarry or its associated operations except in accordance with an EPL.	No planned discharge of surface water occurred between November 2013 and October 2015. A fugitive discharge of water from a sediment basin constructed on northern side of Bungonia Creek occurred on 16 February 2014 as a result of a heavy rainfall event. This event was reported as an incident to the EPA and SCA.	<b>Non-compliant (Moderate Risk)</b>

Table 6.4 Environment Protection Licence No. 13213 Non-compliances

3	EPL 13213 Condition				Audit Comment	Status																																																																								
P1.3	<p><i>Water and Land</i></p> <table border="1"> <thead> <tr> <th data-bbox="280 360 400 465">EPA ID No.</th> <th data-bbox="400 360 600 465">Type of Monitoring Point</th> <th data-bbox="600 360 943 427">Location Description</th> </tr> </thead> <tbody> <tr><td>5</td><td></td><td>BHAP1</td></tr> <tr><td>6</td><td></td><td>BHAP5</td></tr> <tr><td>7</td><td></td><td>BHAP6</td></tr> <tr><td>8</td><td></td><td>BHAP7</td></tr> <tr><td>9</td><td></td><td>BHAP10</td></tr> <tr><td>10</td><td></td><td>BH1</td></tr> <tr><td>11</td><td rowspan="10">Groundwater Monitoring Points</td><td>BH2</td></tr> <tr><td>12</td><td>BH3</td></tr> <tr><td>13</td><td>BH4</td></tr> <tr><td>14</td><td>BH5</td></tr> <tr><td>15</td><td>BH6</td></tr> <tr><td>16</td><td>APS38</td></tr> <tr><td>17</td><td>APS39</td></tr> <tr><td>18</td><td>Phil's Spring</td></tr> <tr><td>19</td><td>Southern Spring</td></tr> <tr><td>20</td><td>Western Spring</td></tr> </tbody> </table>				EPA ID No.	Type of Monitoring Point	Location Description	5		BHAP1	6		BHAP5	7		BHAP6	8		BHAP7	9		BHAP10	10		BH1	11	Groundwater Monitoring Points	BH2	12	BH3	13	BH4	14	BH5	15	BH6	16	APS38	17	APS39	18	Phil's Spring	19	Southern Spring	20	Western Spring	<p>Several bores (BH1, BH2, BH5, BH7 and BHAP7) were not sampled in January and June 2015 due the piezometers being destroyed or requiring redevelopment due to disturbance of the areas during site establishment activities associated with the quarry. The Groundwater Monitoring, Sampling and Testing Report June 2015 recommended that sand monitoring bores BH1 and BH7 by reinstalled, BH2 and BH5 be redeveloped, and site investigation be continued for the location of BHAP7. The monitoring bores were re-instated by Larry Cook &amp; Associates.</p>	<p><b>Non-Compliance (Low Risk)</b></p>																														
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		disturbance of the areas during site establishment activities associated with the quarry. The Groundwater Monitoring, Sampling and Testing Report June 2015 recommended that sand monitoring bores BH1 and BH7 be reinstalled, BH2 and BH5 be redeveloped, and site investigation be continued for the location of BHAP7.	
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**Recommendation**

It is recommended that the re-development and re-establishment of groundwater bores that have been destroyed, disturbed or not found during groundwater monitoring campaigns should occur as soon as practicable to ensure adequate baseline water quality and standing levels is obtained prior to the quarry reaching full extraction rates.

**Attachment A Project Approval 07\_0155 Conditions**

**Attachment B Statements of Commitment**

**Attachment C Environment Protection Licence 13213 Conditions**

## Independent Environmental Audit October 2015

Ardmore Park Quarry – Multiquip Quarries

Assessment of compliance with the intent of the Project Approval, Statements of Commitment and Environment Protection Licence conditions are expressed in these Attachments to the Independent Environmental Audit as:

Status	Description
<b>Compliant</b>	Where verifiable evidence has been collected to demonstrate that the intent of the elements of the requirements of the regulatory approval and appropriateness of implementation against the Project Approval Condition has occurred.
<b>Compliant Ongoing</b>	The intent and specific requirements of the condition have been met and the requirements are ongoing for the operation of project.
<b>Administrative Non-compliance</b>	A technical non-conformance with a condition of the consent that would not result in any risk or material harm to the environment (e.g. the submission of a report to government later than required under the approval conditions).
<b>Non-Compliance – Low Risk</b>	Non-compliance with the potential for moderate environmental consequences, but is unlikely to occur, or, potential for low environmental consequence but is likely to occur.
<b>Non-Compliance – Moderate Risk</b>	Non-compliance with the potential for serious environmental consequences but unlikely to occur, or, potential for moderate environmental consequence but likely to occur.
<b>Non-Compliant – High Risk</b>	Non-compliance with the potential for significant environmental consequences, regardless of the likelihood of occurrence.
<b>Not active / Not triggered</b>	A regulatory approval requirement / condition has an activation or timing that had not been triggered at the time of the audit, therefore a determination of compliance could not be made.
<b>Noted</b>	A statement or fact where no assessment of compliance is required.

Attachment A

Project Approval 07\_0155

Red type represents October 2010 Modification.

Blue type represents November 2013 Modification.

Condition No.	Project Approval 07_0155 Condition	Verification	Comments	Compliance
	<b>Obligation to Minimise Harm to the Environment</b>			
1	The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the project.			<b>Noted</b>
	<b>Terms of Approval</b>			
2	The Proponent shall carry out the project generally in accordance with the: (a) EA; (b) (a1) EA (Mod 1); (c) (a2) EA (Mod 2); (d) (b) statement of commitments; and (e) (c) conditions of this approval.  <i>Notes: • The layout of the project is shown in the figure in Appendix 1; and • The statement of commitments is included in Appendix 2.</i>	<ul style="list-style-type: none"> <li>Environmental Assessment for the Modified Ardmore Park Quarry Project, July 2008</li> <li>Environmental Assessment of the Proposed Modified Quarry Entrance and Access Road, Ardmore Park Quarry Project (M)D 1, 2010</li> <li>Environmental Assessment for the Modified Ardmore Park Quarry Project (M)D 2, June 2013</li> </ul>		<b>Compliant Ongoing</b>
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 approval shall prevail to the extent of any inconsistency		No inconsistencies identified during the audit period.	<b>Noted</b>
4	The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of: (a) any reports, plans, programs or correspondence that are submitted in accordance with the conditions of this approval; and (b) the implementation of any actions or measures contained in these reports, plans, programs or correspondence.			<b>Noted</b>
	<b>Limits on Approval</b>			
5	Extraction and processing operations may take place until 30 July 2039.  <i>Note: Under this approval, the Proponent is required to rehabilitate the site to the satisfaction of the Director-General. Consequently this approval will continue to apply in all other respects other than</i>		Quarry establishment commenced in 2013 and extraction and processing operations may take place until 30 July 2039.	<b>Noted</b>


# Independent Environmental Audit October 2015

Ardmore Park Quarry – Multiquip Quarries

Condition No.	Project Approval 07_0155 Condition	Verification	Comments	Compliance
	<i>the right to conduct extraction and processing operations until the site has been rehabilitated to a satisfactory standard.</i>			
6	The Proponent shall not transport more than 400,000 tonnes of product a year from the site by road. <i>Note: Truck movements are further restricted under condition 25 of schedule 3.</i>		Road transport of product from the quarry has not exceeded 400,000 tonnes per year between November 2013 and October 2015.	<b>Compliant</b>
	<b>Management Plans / Monitoring Programs</b>			
7	With the approval of the Director-General, the Proponent may submit any management plan, program or strategy required by this approval on a progressive basis.		All management plans, monitoring programs and environmental strategy required by this approval have been submitted to the DP&E for approval.	<b>Compliant</b>
	<b>Structural Adequacy</b>			
8	The Proponent 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. <i>Notes: • Under Part 4A of the EP&amp;A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; • Part 8 of the EP&amp;A Regulation sets out the requirements for the certification of the project.</i>		No new buildings or structures had been installed or constructed on the Ardmore Park Quarry site between November 2013 and October 2015.	<b>No triggered</b>
	<b>Demolition</b>			
9	The Proponent shall ensure that all demolition work is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.	<ul style="list-style-type: none"> <li>AS 2601-2001: The Demolition of Structures</li> </ul>	No demolition of structures had occurred on the Ardmore Park Quarry site between November 2013 and October 2015.	<b>Not triggered</b>
	<b>Protection of Public Infrastructure</b>			
10	The Proponent shall: (a) repair, or pay all reasonable costs associated with repairing, any public infrastructure that is damaged by the project; and (b) relocate, or pay all reasonable costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project.		No public infrastructure had been damaged or required relocation as a result of the Ardmore Park Quarry project between November 2013 and October 2015.	<b>Not triggered</b>
	<b>Operation of Plant and Equipment</b>			
11	The Proponent shall ensure that all plant and equipment used at the site is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient condition.		Plant and equipment used at the on the Ardmore Park Quarry site is maintained and operated in a proper and efficient condition	<b>Compliant Ongoing</b>
	<b>Crown Land</b>			

# Independent Environmental Audit October 2015

Ardmore Park Quarry – Multiquip Quarries

Condition No.	Project Approval 07_0155 Condition	Verification	Comments	Compliance
12	The Proponent shall not commence any development authorised by this approval on Crown land without the prior approval of the Department of Lands.		No development for the Ardmore Park Quarry had occurred on Crown Land between November 2013 and October 2015. Multiquip owns all the land that on which development of the quarry and the construction of the Bungonia By-pass have occurred. No development has occurred on Crown Land.	Not triggered
	<b>Section 94 Contributions</b>			
13	The Proponent shall pay Council a monthly contribution of 4.43 cents per kilometre per tonne of material trucked from the site for the upgrade and maintenance of roads in accordance with Goulburn Mulwaree Section 94 Development Contributions Plan 2009 Amendment No. 2 in force at the date of this approval. The contribution amount shall be adjusted annually to account for the effects of inflation (Consumer Price Index).		Transport of product from the quarry between November 2013 and October 2015 was for the construction of the Bungonia By-Pass. No S94 contributions had been paid to the Goulburn-Mulwaree Council at the date of this audit.  Multiquip has calculated the material extracted and truck movements from the quarry site. The Section 94 contribution owing to date has been advise to the Council. Multiquip is awaiting a response from the Council of the amount determined to finalise this matter for the material extracted and transported to date.	Administrative Non-Compliance
	<b>SCHEDULE 3 ENVIRONMENTAL PERFORMANCE</b>			
	<b>GENERAL EXTRACTION AND PROCESSING PROVISIONS</b>			
	<b>Identification of Boundaries</b>			
1	<p>Within 3 months of the date of this approval, or as otherwise agreed by the Director-General, the Proponent shall:</p> <p>(a) engage an independent registered surveyor to survey the boundaries of the approved limit of extraction and the approved ancillary work areas;</p> <p>(b) submit a survey plan of these boundaries to the Director-General; and</p> <p>(c) ensure that these boundaries are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify those limits.</p> <p><i>Note: The limit of extraction and ancillary areas is shown conceptually on the layout plans in Appendix 1.</i></p>	<ul style="list-style-type: none"> <li>Survey Plan of Ardmore Park Quarry, Southern Cross Consulting Surveyors, 27 Nov 2009</li> </ul> 	<p>Southern Cross Consulting Surveyors prepared a Modified Site Plan showing set-out mark placements for the Ardmore Park Quarry. The boundaries of the surveyed areas are marked with stakes and painted base encasements for each of the proposed development areas for the quarry infrastructure and the boundaries of the quarry extraction areas.</p>	Compliant

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Ardmore Park Quarry – Multiquip Quarries

Condition No.	Project Approval 07_0155 Condition	Verification	Comments	Compliance																															
		Boundaries of surveyed areas are marked with stakes and painted base encasements																																	
	<b>ACQUISITION OF AFFECTED PROPERTIES</b>																																		
	<b>Acquisition Upon Request</b>																																		
<b>1A</b>	Prior to the commencement of any extraction the Proponent shall make a firm and binding offer to acquire Lot 23 DP 1001312 ("Residence 7" in Appendix 3) in accordance with the terms of the agreement, dated 14 July 2008, as amended, between the Proponent and the owners of this property, unless otherwise agreed by the Director-General.	<ul style="list-style-type: none"> <li>Contract for Sale of Land, Lot 23 DP 1001312, Clayton Utz, 8 Dec 2009</li> </ul>	Multiquip purchased the property on Lot 23 DP 1001312 ("Residence 7" in Appendix 3), with the Contract for Sale dated 8 December 2009.	<b>Compliant COMPLETE</b>																															
	<b>NOISE</b>																																		
	<b>Operational Noise Assessment Criteria</b>																																		
<b>2</b>	The Proponent shall ensure that the noise generated by the project, including the bypass road, does not exceed the noise impact assessment criteria in Table 1 at any residence or on more than 25 per cent of any privately-owned land.	<ul style="list-style-type: none"> <li>Noise Monitoring Program, Heggies, 13 May 2010</li> <li>Ardmore Park Quarry Investigation of Noise, SLR, 16 Mar 2016</li> </ul>	Routine operator attended noise monitoring had not commenced at the date of this audit as all components of the quarry were operating. Quarry (Noise Monitoring Program section 3.3).	<b>Compliant</b>																															
	<i>Table 1: Noise Impact Assessment Criteria</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #D9D9D9;">Noise Assessment Location</th> <th style="background-color: #D9D9D9;">LAeq (15 minute)</th> </tr> </thead> <tbody> <tr><td>Residence 1</td><td style="text-align: center;">35</td></tr> <tr><td>Residence 2</td><td style="text-align: center;">35</td></tr> <tr><td>Residence 3</td><td style="text-align: center;">35</td></tr> <tr><td>Residence 4</td><td style="text-align: center;">35</td></tr> <tr><td>Residence 5</td><td style="text-align: center;">35</td></tr> <tr><td>Residence 6</td><td style="text-align: center;">36</td></tr> <tr><td>Residence 8</td><td style="text-align: center;">35</td></tr> <tr><td>Residence 9</td><td style="text-align: center;">36</td></tr> <tr><td>Residence R1</td><td style="text-align: center;">35</td></tr> <tr><td>Residence R2</td><td style="text-align: center;">35</td></tr> <tr><td>Residence R3</td><td style="text-align: center;">36</td></tr> <tr><td>Residence R4</td><td style="text-align: center;">35</td></tr> <tr><td>Residence V1</td><td style="text-align: center;">38</td></tr> <tr><td>Residence V2</td><td style="text-align: center;">36</td></tr> </tbody> </table>		Noise Assessment Location	LAeq (15 minute)	Residence 1	35	Residence 2	35	Residence 3	35	Residence 4	35	Residence 5	35	Residence 6	36	Residence 8	35	Residence 9	36	Residence R1	35	Residence R2	35	Residence R3	36	Residence R4	35	Residence V1	38	Residence V2	36	<ul style="list-style-type: none"> <li>Noise Monitoring Program, Heggies, 13 May 2010</li> <li>Ardmore Park Quarry Investigation of Noise, SLR, 16 Mar 2016</li> </ul>	Multiquip commissioned SLR to conduct a noise monitoring survey in relation to a complaint received from the residence located at 5094 Oallen Road, Bungonia (referred to as Residence 6 in the Project Approval Schedule 3 condition 2) regarding noise emissions from the Ardmore Park Quarry. The noise survey found the LAeq(15minute) noise emissions from the quarry ranged from less than 15dBA to 35dBA at Residence 6 that is compliant with the 36 dBA LAeq (15 minute)) Project Approval Noise Limit in Table 1.	<b>Compliant</b>
Noise Assessment Location	LAeq (15 minute)																																		
Residence 1	35																																		
Residence 2	35																																		
Residence 3	35																																		
Residence 4	35																																		
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	<b>Traffic Noise Impact Assessment Criteria</b>																																		



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Ardmore Park Quarry – Multiquip Quarries

Condition No.	Project Approval 07_0155 Condition	Verification	Comments	Compliance																	
3	<p>The Proponent shall take all reasonable and feasible measures to ensure that the traffic noise generated by the project (after commencement of quarrying operations) does not exceed the traffic noise impact assessment criteria in Table 2.</p> <p><i>Table 2: Traffic noise criteria dB(A) LAeq (1 hour)</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Roads</th> <th style="width: 50%; text-align: center;">Day/Evening</th> </tr> </thead> <tbody> <tr> <td>Oallen Ford Road Mountain Ash Road Jerrara Road Tarago Road Windellama Road</td> <td style="text-align: center;">55 dB(A) LAeq (1 hour)</td> </tr> </tbody> </table>	Roads	Day/Evening	Oallen Ford Road Mountain Ash Road Jerrara Road Tarago Road Windellama Road	55 dB(A) LAeq (1 hour)	<ul style="list-style-type: none"> <li>Noise Monitoring Program, Heggies, 13 May 2010</li> </ul>	Noise monitoring had not commenced at the date of this audit as all components of the quarrying operations had not commenced and no product had been transported from the site since December 2013.	<b>Noted</b>													
Roads	Day/Evening																				
Oallen Ford Road Mountain Ash Road Jerrara Road Tarago Road Windellama Road	55 dB(A) LAeq (1 hour)																				
	<b>Operating Hours</b>																				
4	<p>The Proponent shall comply with the operating hours in Table 3.</p> <p><i>Table 3: Operating Hours</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Activity</th> <th style="width: 25%;">Day</th> <th style="width: 50%;">Time</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="vertical-align: top;">Construction Work</td> <td>Monday to Friday</td> <td>7.00am to 6.00pm</td> </tr> <tr> <td>Saturday</td> <td>8.00am to 1.00pm</td> </tr> <tr> <td>Sunday and Public Holidays</td> <td>None</td> </tr> <tr> <td rowspan="3" style="vertical-align: top;">Quarrying, processing (including overburden removal) and product transportation</td> <td>Monday to Friday</td> <td>7.00am to 6.00pm</td> </tr> <tr> <td>Saturday</td> <td>8.00am to 1.00pm</td> </tr> <tr> <td>Sunday and Public Holidays</td> <td>None</td> </tr> </tbody> </table>	Activity	Day	Time	Construction Work	Monday to Friday	7.00am to 6.00pm	Saturday	8.00am to 1.00pm	Sunday and Public Holidays	None	Quarrying, processing (including overburden removal) and product transportation	Monday to Friday	7.00am to 6.00pm	Saturday	8.00am to 1.00pm	Sunday and Public Holidays	None		Activities associated with the Ardmore Park Quarry including road construction works have occurred in accordance with the operating hours specified in this condition, between November 2013 and October 2015.	<b>Compliant Ongoing</b>
Activity	Day	Time																			
Construction Work	Monday to Friday	7.00am to 6.00pm																			
	Saturday	8.00am to 1.00pm																			
	Sunday and Public Holidays	None																			
Quarrying, processing (including overburden removal) and product transportation	Monday to Friday	7.00am to 6.00pm																			
	Saturday	8.00am to 1.00pm																			
	Sunday and Public Holidays	None																			
	<p><i>Notes: • Maintenance activities may be conducted outside the hours in Table 3 provided that the activities are not audible at any privately-owned residence beyond the boundary of the site. • This condition does not apply to delivery of material if that delivery is required by police or other authorities for safety reasons, and/or the operation or personnel or equipment are endangered. In such circumstances, notification is to be provided to EPA and the affected residents as soon as possible, or within a reasonable period in the case of emergency</i></p>			<b>Noted</b>																	
	<b>Additional Noise Mitigation Measures</b>																				
5	The Proponent shall construct the western earth mound and acoustic barrier prior to the commencement of any extraction (apart from overburden extraction for the purpose of constructing		Partial completion of an earth mound and acoustic barrier to the west of the quarry extraction area had occurred at the date of	<b>Compliant Ongoing</b>																	

# Independent Environmental Audit October 2015

Ardmore Park Quarry – Multiquip Quarries

Condition No.	Project Approval 07_0155 Condition	Verification	Comments	Compliance															
	the mound) or processing activities to the east of the earth mound and acoustic barrier, unless otherwise agreed by the Director-General.		this audit. Profiling and establishment of grass on the outer batter of the western earth mound and acoustic barrier had occurred. The construction of the earth bund is ongoing.																
	<b>Noise Monitoring</b>																		
<b>6</b>	<p>The Proponent shall prepare and implement a Noise Monitoring Program for the project to the satisfaction of the Director-General. This plan must:</p> <p>(a) be prepared in consultation with EPA, and be submitted to the Director-General for approval prior to carrying out any development on site; and</p> <p>(b) include details of how the noise performance of the project would be monitored, and include a noise monitoring protocol for evaluating compliance with the relevant noise limits in this approval.</p>	<ul style="list-style-type: none"> <li>Noise Monitoring Program, Ardmore Park Project, Heggies, 13 May 2010</li> <li>Letter from DECCW re Approval of Noise Monitoring Program, 12 Mar 2010</li> <li>Ardmore Park Quarry Investigation of Noise, SLR, 16 Mar 2016</li> </ul>	<p>The Noise Monitoring Program for the Ardmore Park Quarry was prepared to satisfy Project Approval Schedule 3 condition 6 and approved on 12 March 2010:</p> <p>a) The Noise Monitoring Program was prepared by Heggies Pty Ltd and submitted to the Director-General for approval prior to carrying out any development on site. Consultation with EPA occurred on 11 February 2010 and approval provided on 12 Mar 2010. C; and</p> <p>(b) section 3 of the Noise Monitoring Program includes details for monitoring noise performance of the project, and section 5.3 provides a noise monitoring protocol for evaluating compliance with the relevant noise limits in this approval.</p>	<b>Compliant</b>															
	<b>AIR QUALITY</b>																		
	<b>Impact Assessment Criteria</b>																		
<b>7</b>	<p>The Proponent shall ensure that dust generated by the project does not cause exceedances of the criteria listed in Tables 4, 5 and 6 at any residence or on more than 25 per cent of any privately owned land.</p> <p><i>Table 4: Long term impact assessment criteria particulate matter</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Pollutant</th> <th style="text-align: center;">Averaging Period</th> <th style="text-align: center;">Criterion</th> </tr> </thead> <tbody> <tr> <td>Total suspended particulate (TSP) matter</td> <td style="text-align: center;">Annual</td> <td style="text-align: center;">90 µg/m<sup>3</sup></td> </tr> <tr> <td>Particulate matter &lt; 10 µm (PM<sub>10</sub>)</td> <td style="text-align: center;">Annual</td> <td style="text-align: center;">30 µg/m<sup>3</sup></td> </tr> </tbody> </table> <p><i>Table 5: Short term impact assessment criterion particulate matter</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Pollutant</th> <th style="text-align: center;">Averaging Period</th> <th style="text-align: center;">Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter &lt; 10 µm (PM<sub>10</sub>)</td> <td style="text-align: center;">24hour</td> <td style="text-align: center;">50 µg/m<sup>3</sup></td> </tr> </tbody> </table>	Pollutant	Averaging Period	Criterion	Total suspended particulate (TSP) matter	Annual	90 µg/m <sup>3</sup>	Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	30 µg/m <sup>3</sup>	Pollutant	Averaging Period	Criterion	Particulate matter < 10 µm (PM <sub>10</sub> )	24hour	50 µg/m <sup>3</sup>	<ul style="list-style-type: none"> <li>Air Quality Monitoring Program, Sep 2010</li> </ul>	<p>The Air Quality Monitoring Program section 6 addresses the review and reporting of air quality monitoring results and actions triggered in the event of exceedance of air quality impact assessment criteria.</p> <p>The implementation of the dust emission management measures (Air Quality Monitoring Program section 4.1 and 4.2) provide dust suppression controls on the site to meet the criteria in condition 7.</p>	<b>Noted</b>
Pollutant	Averaging Period	Criterion																	
Total suspended particulate (TSP) matter	Annual	90 µg/m <sup>3</sup>																	
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	30 µg/m <sup>3</sup>																	
Pollutant	Averaging Period	Criterion																	
Particulate matter < 10 µm (PM <sub>10</sub> )	24hour	50 µg/m <sup>3</sup>																	

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Ardmore Park Quarry – Multiquip Quarries

Condition No.	Project Approval 07_0155 Condition	Verification	Comments	Compliance								
	<p><i>Table 6: Long term impact assessment criteria for deposited dust</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Maximum increase in deposited dust level</th> <th>Maximum total deposited dust level</th> </tr> </thead> <tbody> <tr> <td>Deposited dust</td> <td>Annual</td> <td>2 g/m<sup>2</sup>/month</td> <td>4 g/m<sup>2</sup>/month</td> </tr> </tbody> </table> <p><i>Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia, 1991, AS 3580.10.11991: Methods for Sampling and Analysis of Ambient Air - Determination of Particulates - Deposited Matter - Gravimetric Method.</i></p>	Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level	Deposited dust	Annual	2 g/m <sup>2</sup> /month	4 g/m <sup>2</sup> /month			
Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level									
Deposited dust	Annual	2 g/m <sup>2</sup> /month	4 g/m <sup>2</sup> /month									
	<b>Operating Conditions</b>											
8	The Proponent shall ensure any visible air pollution generated by the project is assessed regularly, and that quarrying operations are relocated, modified, and/or stopped as required to minimise air quality impacts on privately owned land.		<p>Visible dust generated from the quarry operations was reported to the DP&amp;E in 2014 and a dust complaint was lodged with Multiquip in May 2015.</p> <p>Crusher operations have been improved to ensure that wind and environmental conditions are taken into account when the crusher is operated. Additional dust monitors are being installed to provide data on visible air pollution.</p> <p>Quarry operations have been managed since May 2015 to minimise air quality impacts on privately owned land.</p>	<b>Non-Compliance (Low Risk)</b>								
	<b>Air Quality Monitoring</b>											
9	<p>The Proponent shall prepare and implement an Air Quality Monitoring Program for the project to the satisfaction of the Director-General. This program shall:</p> <p>(a) be prepared in consultation with EPA, and be submitted to the Director-General for approval prior to carrying out any development on site;</p> <p>(b) include details of how the air quality performance of the project would be monitored, and include a protocol for evaluating compliance with the relevant air quality criteria in this approval.</p>	<ul style="list-style-type: none"> <li>• Air Quality Monitoring Program, 625/12Sep 2010</li> <li>• Summary of Consultation with Government Agencies, R W Corkery &amp; Co.</li> <li>• Letter from EPA re Approval of the Air Quality Monitoring Program, 6 Aug 2010</li> <li>• Letter from DP&amp;I re Conditional Approval of the Air Quality Monitoring Program, 22 Jul 2011</li> </ul>	<p>The Air Quality Monitoring Program was prepared by R W Corkery &amp; Co. Pty Ltd to satisfy Project Approval Schedule 3 condition 9 in September 2010:</p> <p>(a) The Air Quality Monitoring Program was submitted to the Director-General for approval prior to carrying out any development on site. Conditional approval was provided from DP&amp;I on 22 July 2011. Consultation with the EPA occurred on 18 January 2011 but was not recorded in the Air Quality Monitoring Program document;</p> <p>(b) section 5 includes details of how the air quality performance of the project would be monitored, and section 6 includes the protocol for evaluating compliance with the relevant air quality criteria in this approval.</p>	<b>Compliant</b>								

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Ardmore Park Quarry – Multiquip Quarries

Condition No.	Project Approval 07_0155 Condition	Verification	Comments	Compliance
	<b>METEOROLOGICAL MONITORING</b>			
10	During the life of the project, the Proponent shall ensure that there is a suitable meteorological station 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.	<ul style="list-style-type: none"> <li>AS 2923-1987 – <i>Ambient Air-Guide for Measurement of Horizontal Wind for Air Quality Applications</i></li> </ul>	A meteorological station has been established on the Ardmore Park Quarry site. Wind speed and direction, Sigma-Theta, rainfall, temperature and humidity are measured continuously at 15 minute intervals.	<b>Compliant</b>
	<b>WATER</b>			
	<b>Water Supply</b>			
11	The Proponent shall ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of operations to match its water supply. <i>Note: The Proponent is required to obtain necessary water licences for the project under the Water Act 1912 and/or Water Management Act 2000.</i>	<ul style="list-style-type: none"> <li>Water Licence for Production Bore 110ML/yr</li> </ul>	Multiquip has had sufficient water for the quarry activities between 2013 and October 2015. Multiquip has not extracted water from the production bore on site as no sand washing had been undertaken. Water requirements on site have been obtained from water runoff collected in the Clarifying Pond CP3 (identified as Dam 7 within the Environmental Assessment (2008)).	<b>Compliant Ongoing</b>
	<b>Discharges</b>			
12	The Proponent shall not discharge any water from the quarry or its associated operations except in accordance with an EPL.		No planned discharge of surface water occurred between November 2013 and October 2015. It is noted that one discharge of water from a sediment basin constructed on northern side of Bungonia Creek occurred on 16 February 2014 as a result of a heavy rainfall event. This event was reported as an incident to the EPA and SCA.	<b>Non-compliant (Moderate Risk)</b>
	<b>Water Management and Monitoring</b>			
13	The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Director-General. This plan must: (a) be prepared in consultation with NOW, EPA and SCA, and be submitted to the Director-General for approval prior to carrying out any development on site; and	<ul style="list-style-type: none"> <li>Water Management Plan 625/08, Aug 2010</li> <li></li> </ul>	A Water Management Plan was prepared by Strategic Environmental & Engineering Consulting, Larry Cook & Associates Pty Ltd and R.W. Corkery & Co. Pty. Limited for the Ardmore Park Quarry Project to satisfy Project Approval 07_0155 Schedule 3 condition 3:	<b>Compliant</b>
	(b) include a: <ul style="list-style-type: none"> <li>Site Water Balance;</li> <li>Erosion and Sediment Control Plan;</li> </ul>	<ul style="list-style-type: none"> <li>Summary of Consultation with DoP, NOW, EPA and SCA, R W Corkery &amp; Co.</li> </ul>	(a) The Water Management Plan was submitted to the Director-General for approval prior to carrying out any development on site. Comments were	<b>Compliant</b>

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Ardmore Park Quarry – Multiquip Quarries

Condition No.	Project Approval 07_0155 Condition	Verification	Comments	Compliance
	<ul style="list-style-type: none"> <li>• Surface Water Monitoring Program;</li> <li>• Groundwater Monitoring Program; and</li> <li>• Surface and Groundwater Response Plan.</li> </ul>	<ul style="list-style-type: none"> <li>• Letter from SCA re Review of Water Management Plan, 1 Nov 2010</li> <li>• Letter from DP&amp;I re Amendments and Inclusions in Water Management Plan, 22 Jul 2011</li> <li>• Letter from DECCW re Approval of Water Management Plan, 5 Oct 2011</li> </ul>	<p>received from DP&amp;I on 22 July 2011 and the Water Management Plan revised and resubmitted. Consultation with DoP, DECCW, NOW and SCA occurred on 12 August 2010. The consultation is not recorded in the Water Management Plan documentation; and</p> <p>(b) the Water Management Plan includes</p> <ul style="list-style-type: none"> <li>• Site Water Balance (section 3);</li> <li>• Erosion and Sediment Control Plan (section5);</li> <li>• Surface Water Monitoring Program (section 6);</li> <li>• Groundwater Monitoring Program (ssection10); and</li> <li>• Surface and Groundwater Response Plan (sections 9 and 11).</li> </ul>	
<b>14</b>	<p>The Site Water Balance must:</p> <p>(a) include details of: • sources and security of water supply; • water use on site; • water management on site, including the location and capacity of water storages on site and the means of access; • off-site water transfers; and • reporting procedures; and</p> <p>(b) investigate and describe measures to minimise water use by the project.</p>	<ul style="list-style-type: none"> <li>• Water Management Plan, August 2010</li> </ul>	<p>The Site Water Balance is described in section 3 of the Water Management Plan:</p> <p>a) include details of: • sources and security of water supply (section 3.1.4);</p> <ul style="list-style-type: none"> <li>• water use on site (section 3.1.3);</li> <li>• water management on site, including the location and capacity of water storages on site and the means of access (section 3.1.2); and</li> <li>• reporting procedures (section 8); and</li> </ul> <p>(b) investigate and describe measures to minimise water use by the project (section 3.1.3.</p>	<b>Compliant</b>
<b>15</b>	<p>The Erosion and Sediment Control Plan must:</p> <p>(a) be consistent with the requirements of Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition, 2004 (Landcom);</p> <p>(b) identify activities that could cause soil erosion and generate sediment;</p> <p>(c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;</p> <p>(d) principles for the design and construction of waterway crossings along the transport route, in consultation with DPI;</p>	<ul style="list-style-type: none"> <li>• Water Management Plan 625/08, Aug 2010</li> <li>• Environmental Assessment (2008) Specialist Consultant Studies Part 5 Surface Water Management Assessment SEEC/Morse McVey, July 2008</li> </ul>	<p>The Erosion and Sediment Control Plan is described in sections 4 and 5 of the Water Management Plan:</p> <p>a) Appendix 1.1 outlines requirements consistent with the Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition, 2004 (Landcom);</p> <p>(b) identify activities that could cause soil erosion and generate sediment;</p> <p>(c) section 5 describes measures to minimise soil erosion and the potential for</p>	<b>Compliant</b>

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	(e) describe the location, function, and capacity of erosion and sediment control structures; (f) demonstrate that the design capacity of basins intended to collect storm runoff will not be compromised by storage of operational water; and (g) describe what measures would be implemented to maintain (and if necessary decommission) the structures over time.		the transport of sediment to downstream waters; (d) principles for the design and construction of waterway crossings along the transport route, in consultation with DPI; (e) sections 4 and 5 describe the location, function, and capacity of erosion and sediment control structures; (f) sections 4 and 5 outline design capacity of basins; and (g) section 4.1.2 describes measures to maintain (and if necessary decommission) the structures over time.	
<b>16</b>	The Surface Water Monitoring Program must include: (a) detailed baseline data on surface water flows and quality in downstream watercourses that could be affected by the project; (b) surface water quality and stream health impact assessment criteria, including trigger levels for investigating any potentially adverse surface water impacts; (c) a program to monitor: • surface water flows, quality, and impacts on water users; • stream health; and • channel stability.	<ul style="list-style-type: none"> <li>• Water Management Plan, August 2010</li> <li>• Environmental Assessment (2008) Specialist Consultant Studies Part 5 Surface Water Management Assessment SEEC/Morse McVey, July 2008</li> </ul>	The Surface Water Monitoring Program is described in section 6 of the Water Management Plan: (a) section 6.1 addresses baseline data on surface water flows and section 6.2 quality in downstream watercourses is addressed; (b) section 6.2 addresses surface water quality and stream health impact assessment, and section 9 addresses trigger levels for investigating any potentially adverse surface water impacts; (c) section 6 provides a program to monitor: • surface water flows, quality, and impacts on water users; • stream health; and • channel stability.	<b>Compliant</b>
<b>17</b>	The Groundwater Monitoring Program must include: (a) detailed baseline data on groundwater levels, flows and quality in the region, and particularly any groundwater bores, springs and seeps (including spring and seep fed dams) that may be affected by operations on site; (b) groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts; and (c) a program to monitor: • groundwater levels and quality in new and existing monitoring bores; • the impacts of the project on: - any groundwater bores, springs and seeps (including spring and seep fed farm dams) on privately-owned land; and - any groundwater dependent ecosystems.	<ul style="list-style-type: none"> <li>• Water Management Plan 625/08, Aug 2010</li> <li>• Environmental Assessment (2008) Specialist Consultant Studies Part 4 Groundwater Impact Assessment, Larry Cook &amp; Associates, July 2008</li> </ul>	The Groundwater Monitoring Program is described in section 10 of the Water Management Plan: a) section 10.4 provides baseline data on groundwater levels, flows and quality, and particularly any groundwater bores, springs and seeps (including spring and seep fed dams) that may be affected by operations on site; (b) section 10.5 and Appendix 2.1 outlines groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts; and	<b>Compliance</b>

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			(c) section 10.4 provides a program to monitor groundwater levels and quality in new and existing monitoring bores; the impacts of the project on any groundwater bores, springs and seeps (including spring and seep fed farm dams) on privately-owned land; and - any groundwater dependent ecosystems.	
<b>18</b>	The Surface and Groundwater Response Plan must include: (a) a protocol for the investigation, notification and mitigation of any exceedances of the surface and ground water impact assessment criteria; (b) measures to mitigate and/or compensate potentially affected landowners, including provision of alternative long-term supply of water to the affected landowner that is equivalent to the loss attributed to the project; and (c) the procedures that would be followed if any unforeseen impacts are detected during the project.	<ul style="list-style-type: none"> <li>• Water Management Plan 625/08, Aug 2010</li> <li>• Environmental Assessment (2008) Specialist Consultant Studies Part 4 Groundwater Impact Assessment, Larry Cook &amp; Associates, and Part 5 Surface Water Management Assessment SEEC/Morse McVey, July 2008</li> </ul>	The Surface and Groundwater Response Plan is described in sections 9 and 11 of the Water Management Plan: a) section 9 provides a protocol for the investigation, notification and mitigation of any exceedances of the surface water impact assessment criteria and section 11 provides a protocol for ground water impact assessment criteria; (b) section 9 Table 1.3 provides surface water response measures and section 11.3 provides mitigation and compensation measures for affected landowners related to groundwater, including provision of alternative long-term supply of water to the affected landowner that is equivalent to the loss attributed to the project; and (c) sections 9 and 11 outline procedures to be followed if any unforeseen impacts are detected during the project.	<b>Compliant</b>
	<b>LANDSCAPE MANAGEMENT</b>			
	<b>Rehabilitation</b>			
<b>19</b>	The Proponent shall progressively rehabilitate the site, in a manner that: (a) is generally consistent with the concept final landform in the EA (as reproduced in Appendix 4); and (b) provides at least 14.7 hectares of Yellow Box – Red Gum Woodland, to the satisfaction of the Director-General.		Rehabilitation had not commenced on the quarry site due to the early stage of the site establishment. No VENM was imported to the project site and no backfill operations occurred between November 2013 and October 2015.  The roadside batters of Bungonia By-pass were sown with seed during the 2014-2015 period.	<b>Noted</b>



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	<b>Landscape Management Plan</b>			
<b>20</b>	<p>The Proponent shall prepare and implement a Landscape Management Plan for the project to the satisfaction of the Director-General. This plan must:</p> <p>(a) be prepared in consultation with OEH by suitably qualified expert/s whose appointment/s have been approved by the Director-General, and be submitted to the Director-General for approval prior to the commencement of quarrying operations; and</p> <p>(b) include a:</p> <ul style="list-style-type: none"> <li>• Rehabilitation Management Plan; and</li> <li>• Quarry Closure Plan.</li> </ul> <p><i>Note: The Department accepts that the initial Landscape Management Plan may not include a detailed Quarry Closure Plan. However, the initial plan must include an outline and a timetable for completion of the detailed Quarry Closure Plan</i></p>	<ul style="list-style-type: none"> <li>• Landscape Management Plan 625/09, Sep 2010</li> <li>• Summary of Consultation with Government Agencies, R W Corkery &amp; Co.</li> <li>• Letter from DECCW to DP&amp;I re Approval of the Landscape Management Plan, 31 May 2010</li> <li>• Letter from DP&amp;I re Approval of Landscape Management Plan, 22 Jul 2011</li> </ul>	<p>A Landscape Management Plan was prepared to satisfy Project Approval 07_0155 Schedule 3 condition 20:</p> <p>a) Landscape Management Plan was prepared by R.W. Corkery &amp; Co. Pty. Limited and Kevin Mills &amp; Associates approved by the Director-General. Consultation with OEH is not recorded in the Landscape Management Plan document. The Landscape Management Plan was submitted to the Director-General for approval prior to the commencement of quarrying operations and approved on 22 July 2011. DP&amp;E approval was received 22 July 2011; and</p> <p>(b) the Landscape Management Plan includes a Rehabilitation Management Plan (Part 1); and a Quarry Closure Plan (Part 2).</p>	<b>Compliant</b>
	<b>Rehabilitation Management Plan</b>			
<b>21</b>	<p>The Rehabilitation Management Plan must include:</p> <p>(a) the rehabilitation objectives for the site;</p> <p>(b) a description of the short, medium, and long term measures that would be implemented to: • rehabilitate the site; and • maintain and enhance existing site vegetation outside the disturbance area;</p> <p>(c) detailed performance and completion criteria for the site rehabilitation;</p> <p>(d) a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for:</p> <ul style="list-style-type: none"> <li>• progressively rehabilitating disturbed areas; • protecting vegetation and soil outside the disturbance areas;</li> <li>• rehabilitating creeks and drainage lines on the site to ensure no net loss of stream length and aquatic habitat;</li> <li>• undertaking pre-clearance surveys;</li> <li>• managing impacts on fauna;</li> <li>• landscaping the site to minimise visual impacts, including a landscape plan for the visual/noise bund and other boundaries of the site;</li> <li>• conserving and reusing topsoil;</li> </ul>	<ul style="list-style-type: none"> <li>• Landscape Management Plan 625/09, Part 1, Sep 2010</li> </ul>	<p>The Rehabilitation Management Plan was prepared as Part 1 of the Landscape Management Plan and includes:</p> <p>(a) section 1.3 outlines the rehabilitation objectives for the site;</p> <p>(b) section 4.2 provides a description of the short, medium, and long term measures that would be implemented to rehabilitate the site;</p> <p>(c) section 4.3 provides performance and completion criteria for the site rehabilitation;</p> <p>(d) section 4.2.2 provides a description of the rehabilitation strategy measures that would be implemented over the next 3 years, including the procedures to be implemented for progressively rehabilitating disturbed areas (section 5.2); vegetation and soil protection outside the disturbed areas (section 5.3); creek and drainage lines rehabilitation to ensure no net loss of stream length / aquatic habitat</p>	<b>Compliant</b>

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	<ul style="list-style-type: none"> <li>• VENM quality assurance;</li> <li>• collecting and propagating seed for rehabilitation works; • salvaging and reusing material from the site for habitat enhancement;</li> <li>• controlling weeds and feral pests;</li> <li>• controlling access; and</li> <li>• bushfire management;</li> </ul> <p>(e) a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria;</p> <p>(f) a description of the potential risks to successful rehabilitation and/or revegetation, and a description of the contingency measures that would be implemented to mitigate these risks; and</p> <p>(g) details of who would be responsible for monitoring, reviewing, and implementing the plan.</p>		<p>(section 5.5); pre-clearance surveys (section 5.6); management of impacts on fauna (section 5.7); landscaping the site to minimise visual impacts (section 5.8); conserving and reusing topsoil(section 5.9.2); VENM quality assurance (section 22); collecting and propagating seed for rehabilitation works (section 5.12); salvaging and reusing material from the site for habitat enhancement; controlling weeds and feral pests (section5.13); controlling access; and bushfire management (section 5.15);</p> <p>(e) section 6.2 provides a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria;</p> <p>(f) section 6.3 provides a description of the potential risks to successful rehabilitation and/or revegetation, and a description of the contingency measures that would be implemented to mitigate these risks; and</p> <p>(g) section 7 addresses who would be responsible for monitoring, reviewing, and implementing the plan.</p>	
	<b>Quarry Closure Plan</b>			
<b>22</b>	<p>The Quarry Closure Plan must:</p> <p>(a) include provision for certification from a qualified geotechnical engineer that the final proposed landform is stable;</p> <p>(b) define the objectives and criteria for closure of the quarry;</p> <p>(c) investigate options for the future use of the site, including any final void;</p> <p>(d) describe the measures that would be implemented to minimise or manage the ongoing (post closure) environmental effects of the project; and</p> <p>(e) describe how the performance of these measures would be monitored over time.</p>	<ul style="list-style-type: none"> <li>• Landscape Management Plan, Part 2, Sep 2010</li> </ul>	<p>The Quarry Closure Plan was prepared as Part 2 of the Landscape Management Plan and includes:</p> <p>(a) section 9.2 provides for certification from a qualified geotechnical engineer that the final proposed landform is stable;</p> <p>(b) section 8.2 defines the objectives and criteria for closure of the quarry;</p> <p>(c) section 10 provides final land use options for the future use of the site, including any final void;</p> <p>(d) section 11 describes the measures to be implemented to minimise or manage the ongoing (post closure) environmental effects of the project; and</p>	<b>Compliant</b>

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			(e) section 11.2 describes how the performance of these measures would be monitored over time.	
	<b>Rehabilitation Bond</b>			
<b>23</b>	<p>Within 3 months of the approval of the Landscape Management Plan, the Proponent shall lodge a rehabilitation and offset bond for the project with the Director-General. The sum of the bond shall be calculated at:</p> <ul style="list-style-type: none"> <li>• \$2.50/m<sup>2</sup> for the area of new disturbance in each 3year review period;</li> <li>• \$1.00/m<sup>2</sup> for the total area of land previously disturbed by the quarry, or as otherwise directed by the Director-General.</li> </ul> <p><i>Notes: • If the rehabilitation is completed to the satisfaction of the Director-General, the Director-General will release the bond. • If the rehabilitation is not completed to the satisfaction of the Director-General, the Director-General will call in all or part of the bond, and arrange for the satisfactory completion of the relevant works.</i></p>		The mix of future production of rock and sand from the Ardmore Park Quarry will affect the disturbed areas of the Ardmore Park development. Multiquip advised that the rehabilitation and offset bond will be lodged when the extent of disturbed areas is finalised.	<b>Administrative Non-compliance</b>
	<b>ABORIGINAL HERITAGE</b>			
<b>24</b>	<p>The Proponent shall prepare and implement an Aboriginal Heritage Management Plan for the project to the satisfaction of the Director-General. This plan must:</p> <p>(a) be prepared in consultation with the OEH, and be submitted to the Director-General for approval prior to carrying out any development on site; and</p> <p>(b) include a:</p> <ul style="list-style-type: none"> <li>• description of the subsurface test pit investigations that would be implemented in the extraction area to determine if archaeological material is present and the significance of any such material;</li> <li>• description of the measures that would be implemented if any new Aboriginal objects or relics are discovered during the project; and</li> <li>• protocol for the ongoing consultation and involvement of the Aboriginal communities in the conservation and management of Aboriginal cultural heritage on the site.</li> </ul>	<ul style="list-style-type: none"> <li>• Aboriginal Heritage Management Plan 625/13, Sep 2010</li> <li>• Summary of Consultation with Government Agencies, R W Corkery &amp; Co.</li> <li>• Letter from DP&amp;I re Approval of Aboriginal Heritage Management Plan, 22 Jul 2011</li> </ul>	<p>The Aboriginal Heritage Management Plan was prepared by Kayandel Archaeological Services for the Ardmore Park Quarry to satisfy Project Approval 07_0155 Schedule 3 condition 24:</p> <p>(a) The Aboriginal Heritage Management Plan was submitted to the Director-General on 10 September 2010 for approval prior to carrying out any development on site and conditionally approved on 22 July 2011. Consultation with DECCW occurred on 17 September 2010 and Aboriginal stakeholders with undertaken in accordance with the DECCW Interim Community Consultation Requirements for Applicants (2004); and</p> <p>(b) include:</p> <ul style="list-style-type: none"> <li>• section 4.5 provides a description of the subsurface test pit investigations to be implemented in the extraction area to determine if archaeological material is present and the significance of any such material;</li> </ul>	<b>Compliant</b>

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			<ul style="list-style-type: none"> <li>• section 4.7 provides a description of the measures to be implemented if any new Aboriginal objects or relics are discovered during the project; and</li> <li>• section 4.2 provides a protocol for the ongoing consultation and involvement of the Aboriginal communities in the conservation and management of Aboriginal cultural heritage on the site.</li> </ul>	
	<b>TRAFFIC AND TRANSPORT</b>			
	<b>Transport Route Upgrades</b>			
<b>25</b>	<p>Subject to condition 25A, the Proponent shall:</p> <p>(a) restrict all product transport from the site until it has completed the Stage 1 road upgrade works, to the satisfaction of Council;</p> <p>(b) restrict product transport to a maximum of 20 truck movements (in + out) per day Monday to Friday, and 12 truck movements per day on Saturdays, until it has completed the Stage 2 road upgrade works, to the satisfaction of Council;</p> <p>(c) restrict product transport to a maximum of 56 truck movements (in + out) per day Monday to Friday, and 30 truck movements per day on Saturdays, until it has completed the Stage 3 road upgrade works, to the satisfaction of Council;</p> <p>(d) restrict truck movements associated with the project to a maximum of 88 truck movements (in + out) per day Monday to Friday, and 42 truck movements per day on Saturdays, upon completion of the Stage 3 road upgrade works.</p> <p><i>Notes: • The road upgrade stages are defined in Schedule 1 of this approval. • The restrictions on product transport in this condition do not apply to any product transport to and from the road upgrade sites.</i></p>		<p>Stage 1 is being undertaken in conjunction with site establishment activities on the Ardmore Park Quarry Project Site and includes construction of the Ardmore Park Quarry Project Site entrance, Bungonia By-pass and other primary transport route intersections and road widening.</p> <p>A limited number of trucks have been used to transfer overburden and crushed basalt products required for the construction of the roads, creek crossing and intersections.</p> <p>a) No transport of any quarry products for sale has occurred during Stage 1.</p> <p>(b) Stage 2 road upgrade works had not commenced at the date of this audit (October 2015);</p> <p>(c) Stage 3 road upgrade works had not commenced at the date of this audit;</p> <p>(d) completion of the Stage 3 road upgrade works had not occurred at the date of this audit.</p>	<b>Compliant</b>
				<b>Not triggered</b>
<b>25A</b>	<p>The Proponent shall, in relation to the principal local haulage route:</p> <p>(a) restrict all product transport from the site until it has completed the quarry access intersection upgrade works;</p> <p>(b) restrict product transport to 20,000 tonnes per annum, to be transported at a maximum rate of five laden trucks per day and to be delivered to customers located only within 100km of the site;</p> <p>(c) adhere to limits on weight-restricted bridges and roads at all times;</p>		<p>(a) Upgrade work had not been completed on the quarry access intersection the time of this audit. Intersection upgrade works are planned for end of 2015.</p> <p>(b) Delivery of product to local customers did not exceed 20,000 tonnes per annum between November 2013 and October 2015.</p> <p>(c) to (f) Noted</p>	<b>Not triggered</b>

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	(d) avoid use of the western section of Lumley Road, west of Windellama Road during and after periods of heavy rain; (e) ensure no truck movements occur by Windellama Public School between the hours of 8:00 am to 9:30 am and 2:30 pm to 4:00 pm and also ensure that trucks adhere to a speed limit of 40 km/h in the vicinity of the school during school hours; and (f) consult and enter into arrangements with drivers of local school buses along the route to minimise heavy vehicles on the road during school bus pick up and drop off times.			
26	The Proponent shall: (a) upgrade the acceleration lane for northbound traffic on the Hume Highway at its junction with Jerrara Road, to the satisfaction of the RMS, prior to undertaking any product transport from the site; or (b) restrict any product transport from the site until a suitable grade separated interchange is operational at the junction of the Hume Highway and Jerrara Road, unless otherwise agreed by the RMS. <i>Note: The restrictions on product transport in this condition do not apply to any product transport to and from the road upgrade works required by this approval.</i>		(a) The upgrade of the acceleration lane for northbound traffic on the Hume Highway at its junction with Jerrara Road has been completed. (b) No product transport from the site had occurred at the date of this audit. The grade separated interchange at the junction of the Hume Highway and Jerrara Road is operational.	<b>Compliant COMPLETE</b>
	<b>Traffic Management Plan</b>			
27	The Proponent shall prepare and implement a Traffic Management Plan for the project to the satisfaction of the Director-General. This plan must: (a) be prepared in consultation with Council and the RMS by suitably qualified independent expert/s whose appointment/s have been approved by the Director-General, and be submitted to the Director-General for approval prior to carrying out any development on site;	<ul style="list-style-type: none"> <li>• Traffic Management Plan 625/10, Sep 2010</li> <li>• Summary of Consultation with Government Agencies, R W Corkery &amp; Co.</li> <li>• Letter from DP&amp;I re Amendments /Inclusions to Traffic Management Plan, 22 Jul 2011</li> <li>• Letter to DP&amp;I re Traffic Management Plan, 23 Aug 2011</li> </ul>	The Traffic Management Plan was prepared for the Ardmore Park Quarry by Christopher Hallam & Associates in September 2010: (a) The Traffic Management Plan was prepared in consultation with Goulburn-Mulwaree Council and the RMS on 20 August 2010 by Christopher Hallam of Christopher Hallam & Associates (approved by the	<b>Compliant</b>

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		<ul style="list-style-type: none"> <li>Letter from DP&amp;I re Amendments /Inclusions to Traffic Management Plan, 22 Jul 2011</li> <li>Letter to DP&amp;I re Traffic Management Plan, 23 Aug 2011</li> <li>Traffic Management Plan 625/10, Aug 2011</li> </ul>	Director-General). The Traffic Management Plan was submitted to the Director-General for approval prior to carrying out any development on site. Comments were received from DP&I on 22 July 2011. Multiquip responded on 23 August 2011. Consultation in relation to finalising the Traffic Management Plan will occur as part of the discussion on the final stages of the road widening program.	<b>Administrative Non-compliance</b>
	(b) provide for Road Safety Audits prior to the commencement of each stage of road upgrade works in accordance with RTA's Accident Reduction Guide Part 2 Road Safety Audits (August 2005); (c) include a program for an action plan and outline the measures to be implemented to address any issues identified by the Road Safety Audit; (d) include traffic control plans to describe proposed traffic control measures during construction activities on public roads; (e) include a protocol for the management of quarry vehicles on the bypass road, including the prevention of trucks from queuing on Mountain Ash Road to enter the bypass road; (f) identify arrangements with school bus drivers including any restrictions on activities during school bus pick up/drop off times and provision of any other measures (e.g. bus bays); and (g) include a driver's Code of Conduct.  <i>Note: The Department accepts that the initial Traffic Management Plan would only include the findings of the first Road Safety Audit. Subsequent revisions of the Traffic Management Plan may be submitted on completion of subsequent Road Safety Audits.</i>	<ul style="list-style-type: none"> <li>Traffic Management Plan, 23 Aug 2011</li> </ul>	(b) section 2.2 describes Road Safety Audits prior to the commencement of each stage of road upgrade works in accordance with RTA's Accident Reduction Guide Part 2 Road Safety Audits (August 2005); (c) section 2.3 provides a program for an action plan and outline the measures to be implemented to address any issues identified by the Road Safety Audit; (d) sections 3.4 and 4.4 include traffic control plans to describe proposed traffic control measures during construction activities on public roads; (e) include a protocol for the management of quarry vehicles on the bypass road, including the prevention of trucks from queuing on Mountain Ash Road to enter the bypass road; (f) section 5.4 describes arrangements with school bus drivers including any restrictions on activities during school bus pick up/drop off times and provision of any other measures (e.g. bus bays); and (g) Annexure D provides a Driver's Code of Conduct.	<b>Compliant</b>
	<b>Road Haulage</b>			
<b>28</b>	The Proponent shall ensure that: (a) all loaded vehicles entering or leaving the site are covered; and	<ul style="list-style-type: none"> <li>Traffic Management Plan 625/10, Sep 2010</li> <li>Drivers Code of Conduct, Sep 2010</li> </ul>	a) the Drivers Code of Conduct and Traffic Management Plan address covering of loads for all vehicles entering or leaving	<b>Non-compliance (Low Risk)</b>

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	(b) all loaded vehicles leaving the site are cleaned of materials that may fall on the road, before they leave the site.		<p>the site when transport of product commences; and</p> <p>(b) vehicle washing facilities are to be installed prior to commencement of transport of quarry product from the site for local deliveries.</p> <p>The Ardmore Park Quarry service area is being constructed, including a wheel washing facility for vehicles leaving the site. While the Quarry service area is under development, a road sweeper is maintained on the premises and used to ensure that road near the Ardmore Park entrance is regularly kept free from material that may have fallen from truck wheels.</p>	
<b>29</b>	No project-related heavy vehicles shall use King Street to get to or from the site, except in an emergency to avoid the loss of lives, property and/or to prevent environmental harm.		<p>No project-related heavy vehicles are to use King Street to get to or from the site, in accordance with the Transport Management Plan and Traffic Control Plans prepared for each road section.</p> <p>Heavy vehicles have used King Street for local delivery of product.</p>	<b>Non-compliance (Low Risk)</b>
	<b>Haulage Records</b>			
<b>30</b>	The Proponent shall record and maintain a log of the extraction quantities and traffic movement in and out of the site, available for inspection at the request of the Director-General or Council.		<p>The majority of the transport of product from the Ardmore Park Quarry has been for the construction of the Bungonia Bypass. The extraction quantities and traffic movement logs are recorded manually, with an automated system to be installed when the weighbridge is constructed, to record time and date of entry/exit, vehicle identification and load weight and load type.</p> <p>A traffic movement log has been created from information held by Multiquip for the period ended 31 December 2015.</p> <p>Extracted material has been determined from scales on the loaders used to fill trucks and material taken off-site for the use on road works or local sales.</p> <p>A log of all heavy vehicle and trucks in and out of the quarry site has been maintained on-site since 1 January 2016.</p>	<b>Compliant Ongoing</b>



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	<b>VISUAL</b>			
	<b>Visual Amenity</b>			
<b>31</b>	The Proponent shall minimise the visual impacts of the project to the satisfaction of the Director-General.		The visual impacts of the Ardmore Park Quarry are currently minimal, with development of the extraction areas and infrastructure located and screened by the earth bund being constructed to reduce visual impact of the operations.	<b>Compliant Ongoing</b>
	<b>Visual Impact Mitigation</b>			
<b>32</b>	<p>Within 6 months of this approval, the Proponent shall prepare a report that:</p> <p>(a) identifies the privately-owned residences that are likely to experience significant visual impacts during the construction and operation of the project; and</p> <p>(b) describes (in general terms) the additional mitigation measures that could be implemented to reduce the visibility of the quarry from these residences, to the satisfaction of the Director-General.</p>	<ul style="list-style-type: none"> <li>• Environmental Management Strategy, section 5.9, Aug 2011</li> <li>• Visual Impact Mitigation Report, RW Corkery &amp; Co Pty Limited, 2011</li> <li>• Landscape Management Plan, Sep 2010</li> </ul>	<p>(a) privately-owned residences likely to experience visual impacts during the construction and operation of the project were identified and reported in the Visual Impact Mitigation Report, prepared by RW Corkery &amp; Co Pty Limited in 2011; and</p> <p>(b) mitigation measures to be implemented to reduce the visibility of the quarry from the identified residences will include landscaping of the site, to minimise visual impacts will include building and planting visual/noise bunds to the west of the processing infrastructure of the quarry. These bunds will be sown with a sterile cover crop (e.g. Japanese millet or oats) to stabilize the soil and reduce visual impact of the bunds.</p>	<b>Compliant Ongoing</b>
<b>33</b>	Within 3 months of the Director-General approving this report, the Proponent shall advise all owners of privately-owned residences identified in the report that they are entitled to additional mitigation measures to reduce the visibility of the quarry from their properties.		All owners of privately-owned residences with views of the proposed quarry area were approached personally by Multiquip representatives and advised that they are entitled to additional mitigation measures to reduce the visibility of the quarry from their properties, if requested to the Company in writing.	<b>Compliant Ongoing</b>
<b>34</b>	<p>Upon receiving a written request from an owner of a residence identified in this report, the Proponent shall implement additional visual impact mitigation measures (such as landscaping treatments or vegetation screens) in consultation with the landowner, and to the satisfaction of the Director-General. These mitigation measures must be reasonable and feasible.</p> <p>If within 3 months of receiving this request from the owner, the Proponent and the owner cannot agree on the measures to be</p>		No written request from any owners of residences had been received by Multiquip at the date of this audit.	<b>Not triggered</b>



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	implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution. <i>Note: The additional visual impact mitigation measures must be aimed at reducing the visibility of the quarry from significantly affected residences and do not necessarily require measures to reduce visibility of the quarry from other locations on the affected properties. The additional visual impact mitigation measures do not necessarily have to include measures on the affected property itself (i.e. the additional measures may consist of measures outside the affected property boundary that provide an effective reduction in visual impacts).</i>				
	<b>Lighting Emissions</b>				
35	The Proponent shall: (a) take all practicable measures to mitigate off-site lighting impacts from the project; and (b) ensure that all external lighting associated with the project complies with Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting, to the satisfaction of the Director-General.	<ul style="list-style-type: none"> <li>AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting</li> </ul>	Practicable measures to mitigate off-site lighting impacts from the project would be implemented if external lighting is used. As the site only operates during daylight hours no external lighting has been used.	<b>Compliant Ongoing</b>	
	<b>Advertising</b>				
36	The Proponent shall not erect or display any advertising structure(s) or signs on the site without the written approval of the Director-General. <i>Note: This does not include traffic management and safety or environmental signs.</i>		Only signage is the Multiquip Quarry name and contact numbers	No advertising structure(s) or signs have been erected at the Ardmore Park Quarry site.	<b>Compliant Ongoing</b>
	<b>WASTE MANAGEMENT</b>				
	<b>Waste Minimisation</b>				
37	The Proponent shall: (a) only import VENM to the site; and (b) minimise the amount of waste generated by the project to the satisfaction of the Director-General.				
	<b>EMERGENCY AND HAZARDS MANAGEMENT</b>				
	<b>Dangerous Goods</b>				

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38	The Proponent shall ensure that the storage, handling, and transport of dangerous goods are conducted in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code.	<ul style="list-style-type: none"> <li>AS 1940-2004 The storage and handling of flammable and combustible liquids</li> <li>AS1596-1989 LPG Gas – Storage and Handling</li> <li>Australian Dangerous Goods Code</li> </ul>	<p>The storage, handling, and transport of dangerous goods at the Ardmore Park Quarry occurs in accordance with the relevant Australian Standards, (particularly AS1940 and AS1596, and the Australian Dangerous Goods Code).</p> <p>Currently no fuel storage occur on site. Fuelling of equipment occurs by tanker as required. A fuel storage facility compliant with AS1940 is planned to be installed at the Ardmore Park Quarry site in 2016.</p>	<b>Compliant Ongoing</b>
	<b>Safety</b>			
39	The Proponent shall secure the project to ensure public safety to the satisfaction of the Director-General.		The Ardmore Park Quarry is fully fenced and has adequate signage at the entry gate for the information of the public.	<b>Compliant Ongoing</b>
	<b>Bushfire Management</b>			
40	The Proponent shall: (a) ensure that the project 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 on site.		Multiquip maintain a water cart on site that would be available for firefighting if required and would assist the local RFS.	<b>Compliant Ongoing</b>
	<b>PRODUCTION DATA</b>			
41	The Proponent shall: (a) provide annual production data to the DRE using the standard form for that purpose; and (b) include a copy of this data in the AEMR.	<ul style="list-style-type: none"> <li>Annual Environmental Management Report, section3.3</li> </ul>	<p>(a) Annual production data reporting to the DRE for the Ardmore Park Quarry had not occurred to the date of this audit (October 2015). Production data has been completed on the DRE standard form for 2015 and records are being kept for submission to DRE</p> <p>(b) Extraction between November 2013 and August 2015 was reported in the AEMR.</p>	<b>Administrative Non-Compliance</b>
	<b>SCHEDULE 4 ADDITIONAL PROCEDURES</b>			
	<b>NOTIFICATION OF LANDOWNERS</b>			
1	If the results of monitoring required in Schedule 3 identify that impacts generated by the project are greater than the relevant impact assessment criteria, then the Proponent shall notify the Director-General and the affected landowners and/or existing or future tenants (including tenants of quarry owned properties) accordingly, and provide quarterly monitoring results to each of			<b>Not triggered</b>

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	these parties until the results show that the project is complying with the relevant criteria.			
	<b>INDEPENDENT REVIEW</b>			
2	<p>If a landowner of privately-owned land considers that the quarrying operations are exceeding the impact assessment criteria in Schedule 3, then he/she may ask the Director-General in writing for an independent review of the relevant impacts of the project on his/her land.</p> <p>If the Director-General is satisfied that an independent review is warranted, the Proponent shall within 3 months of the Director-General advising that an independent review is warranted: (a) consult with the landowner to determine his/her concerns; (b) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to conduct monitoring on the land, to determine whether the project is complying with the relevant criteria in Schedule 3, and identify the source(s) and scale of any impact on the land, and the project's contribution to this impact; and (c) give the Director-General and landowner a copy of the independent review</p>			<b>Not triggered</b>
3	<p>If the independent review determines that the quarrying operations are complying with the relevant criteria in Schedule 3, then the Proponent may discontinue the independent review with the approval of the Director-General.</p>			<b>Not triggered</b>
4	<p>If the independent review determines that the quarrying operations are not complying with the relevant criteria in Schedule 3, and that the quarry is primarily responsible for this non-compliance, then the Proponent shall: (a) implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the project complies with the relevant criteria; and (b) conduct further monitoring to determine whether these measures ensure compliance; or (c) secure a written agreement with the landowner to allow exceedances of the relevant criteria in schedule 3, to the satisfaction of the Director-General.</p> <p>If the additional monitoring referred to above subsequently determines that the quarrying operations are complying with the relevant criteria in Schedule 3, then the Proponent may discontinue the independent review with the approval of the Director-General.</p> <p>If the Proponent is unable to finalise an agreement with the landowner, then the Proponent or landowner may refer the matter to the Director-General for resolution.</p>			<b>Not triggered</b>

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	If the matter cannot be resolved within 21 days, the Director-General shall refer the matter to an Independent Dispute Resolution Process (see Appendix 5).			
5	If the landowner disputes the results of the independent review, either the Proponent or the landowner may refer the matter to the Director-General for resolution. If the matter cannot be resolved within 21 days, the Director-General shall refer the matter to an Independent Dispute Resolution Process (see Appendix 5).			<b>Not triggered</b>
	<b>SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, MONITORING, REPORTING &amp; AUDITING</b>			
	<b>ENVIRONMENTAL MANAGEMENT STRATEGY</b>			
1	The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Director-General. This strategy shall be submitted to the Director-General prior to carrying out any development on site, and must; (a) provide the strategic context for environmental management of the project; (b) identify the statutory requirements that apply to the project; (c) describe in general how the environmental performance of the project would be monitored and managed; (d) describe the procedures that would be implemented to: • keep the local community and relevant agencies informed about the construction, operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the life of the project; • respond to any non-compliance; • manage cumulative impacts; and • respond to environmental incidents and emergencies; and (e) describe the role, responsibility, authority, and accountability of the key personnel involved in the environmental management of the project.	<ul style="list-style-type: none"> <li>• Environmental Management Strategy 625/07, Aug 2011</li> <li>• Letter from DP&amp;I re Comments for Amendment/Inclusions to Environmental Management Strategy, 22 Jul 2010</li> </ul>	An Environmental Management Strategy for the Ardmore Park Quarry was prepared by R W Corkery & Co Pty Limited, to satisfy Project Approval; 07_0155 Schedule 5 condition 1 was submitted to the Director-General prior to carrying out any development on site. DP&I provided comments for inclusions to the document on 22 July 2010 to update Figure 2 to reflect MOD 1 and measures for cumulative impacts: a) section 1.1 provides the objectives and strategic context for environmental management of the project; (b) section 3 identifies statutory requirements that apply to the project; (c) section 5 describes environmental performance monitoring and management; (d) describe the procedures that would be implemented to: • keep the local community and relevant agencies informed about the construction, operation and environmental performance of the project (section 6.1); • receive, handle, respond to, and record complaints (section 6.2); • resolve any disputes that may arise during the life of the project (section 6.3); • respond to any non-compliance (section 7);	<b>Compliant</b>

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			<ul style="list-style-type: none"> <li>manage cumulative impacts (section 5.11);</li> <li>respond to environmental incidents and emergencies (section 8); and</li> </ul> (e) section 4 describes the role, responsibility, authority, and accountability of the key personnel involved in the environmental management of the project.	
	<b>ENVIRONMENTAL MONITORING PROGRAM</b>			
2	The Proponent shall prepare an Environmental Monitoring Program for the project to the satisfaction of the Director-General. This program must be submitted to the Director-General prior to carrying out any development on site, and consolidate the various monitoring requirements in Schedule 3 of this approval into a single document.	<ul style="list-style-type: none"> <li>Environmental Monitoring Program, Sep 2010</li> <li>Letter from DP&amp;I re Approval of Environmental Monitoring Program, 22 Jul 2010</li> </ul>	An Environmental Monitoring Program consolidating the various monitoring requirements in Schedule 3 of this approval was prepared and submitted to the DP&E and approved on 22 July 2011.	<b>Compliant</b>
	<b>REPORTING</b>			
	<b>Incident Reporting</b>			
3	Within 24 hours of detecting an exceedance of the limits/performance criteria in this approval or the occurrence of an incident that causes (or may cause) harm to the environment, the Proponent shall notify the Department and other relevant agencies of the exceedance/incident.		<p>An incident resulting in release of turbid water to Bungonia Creek following heavy rainfall event was reported to the EPA. The DP&amp;E was not notified.</p> <p>Incident reporting forms are being developed by Multiquip to improve response time and reporting of any incidents.</p>	<b>Administrative Non-compliance</b>
4	Within 6 days of notifying the Department and other relevant agencies of an exceedance/incident, the Proponent shall provide the Department and these agencies with a written report that: <ol style="list-style-type: none"> <li>describes the date, time, and nature of the exceedance/incident;</li> <li>identifies the cause (or likely cause) of the exceedance/incident;</li> <li>describes what action has been taken to date; and</li> <li>describes the proposed measures to address the exceedance/incident.</li> </ol>		<p>An Incident Report on the loss of turbid water to Bungonia Creek in February 2014 was not submitted to DP&amp;E.</p> <p>Notification occurred to EPA and SCA, who conducted a site inspection.</p> <p>Multiquip engaged Strategic Environmental and Engineering Consultants (SEEC) to provide recommendations for upgraded erosion and sediment control to address the cause of the incident.</p> <p>No other notifiable incidents occurred to the date of this audit.</p>	<b>Administrative Non-Compliance</b>
	<b>Annual Reporting</b>			

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5	<p>Within 12 months of the commencement of construction activities, and annually thereafter, the Proponent shall submit an AEMR to the Director-General and relevant agencies. This report must:</p> <p>(a) identify the standards and performance measures that apply to the project;</p> <p>(b) describe the works carried out in the last 12 months, and the works that will be carried out in the next 12 months;</p> <p>(c) include a summary of the complaints received during the past year, and compare this to the complaints received in previous years;</p> <p>(d) include a summary of the monitoring results for the project during the past year;</p> <p>(e) include an analysis of these monitoring results against the relevant: • impact assessment criteria/limits; • monitoring results from previous years; and • predictions in the EA;</p> <p>(f) identify any trends in the monitoring results over the life of the project;</p> <p>(g) identify any non-compliance during the previous year; and</p> <p>(h) describe what actions were, or are being, taken to ensure compliance.</p>	<ul style="list-style-type: none"> <li>• Annual Environmental Management Report, Aug 2015</li> </ul>	<p>The first AEMR was not prepared within 12 months of the commencement of construction activities. The first AEMR was prepared “for the initial 19 month period of operations under MP 07 0155, commencing in November 2013 through to 21 August 2015. This reflects the relatively minor nature of activities undertaken”</p> <p>(a) section 1.5 identifies the standards and performance measures that apply to the project;</p> <p>(b) section 3 describes the works carried out during the period of the AEMR and the works that will be carried out in the next 12 months (section 3.3);</p> <p>(c) section 4.1 provides a summary of complaints received during the AEMR period;</p> <p>(d) section 5 includes a summary of the monitoring results for the project during the AEMR period;</p> <p>(e) section 5 includes an analysis of monitoring results against the relevant impact assessment criteria/limits and predictions in the EA;</p> <p>(f) trends in the monitoring results over the life of the project will be addressed when the quarry commences production;</p> <p>(g) section 2.2 discusses compliance review; and</p> <p>(h) section 2.2 discusses compliance categories.</p>	<p><b>Administrative Non-Compliance</b></p>
	<b>Revision of Strategies, Plans and Programs</b>			
5A	<p style="color: red;">Within 3 months of:</p> <p style="color: red;">(a) the submission of an incident report under condition 4 above;</p> <p style="color: red;">(b) the submission of an AEMR under condition 5 above;</p> <p style="color: red;">(c) the submission of an audit report under condition 7 below; or</p> <p style="color: red;">(d) any modification to this approval</p> <p style="color: red;">the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Director-General.</p>		<p>Review, and if necessary revision of strategies, plans, and programs required under this Project Approval will occur within 3 months of submission of any of the documents identified in this condition.</p> <p>Multiquip has the strategies, plans and programs reviewed and a log developed to document the reviews conducted.</p> <p>As part of the revision of the Erosion and Sediment Control Plan following the</p>	<p><b>Compliant Ongoing</b></p>

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	<i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i>		incident in February 2015, site monitoring and incident reporting forms are being developed and integrated with weather monitoring data to improve response time and reporting time of any incidents.	
	<b>Management Plan Requirements</b>			
5B	<p>The Applicant shall ensure that the Management Plans required under this consent are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>(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;</p> <p>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>(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;</p> <p>(f) a program to investigate and implement ways to improve the environmental performance of the development over time;</p> <p>(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</p> <p>(h) a protocol for periodic review of the plan.</p> <p><i>Note: The Director-General may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i></p>		<p>The management plans prepared to satisfy the conditions of this Project Approval have generally addressed the relevant sections of this condition.</p> <p>Any review and/or revision of the management plans should include consideration of the requirements of this condition.</p>	<b>Compliant Ongoing</b>
	<b>INDEPENDENT ENVIRONMENTAL AUDIT</b>			
6	<p>Within 2 years of the date of the commencement of quarrying operations, and every 3 years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:</p>	<ul style="list-style-type: none"> <li>Letter from DP&amp;E re Independent Environmental Auditor Approval, 17 Sep 2015</li> </ul>	<p>This Independent Environmental Audit was commissioned by Multiquip within 3 years of commencement of the quarry development. The Independent Environmental Audit was:</p>	<b>Compliant</b>

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	<p>(a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;</p> <p>(b) include consultation with the relevant agencies;</p> <p>(c) assess the environmental performance of the project, and its effects on the surrounding environment;</p> <p>(d) assess whether the project is complying with the relevant standards, performance measures and statutory requirements; and</p> <p>(e) review the adequacy of any strategy/plan/program required under this approval, and, if necessary, recommend measures or actions to improve the environmental performance of the project, and/or any strategy/plan/program required under this approval.</p> <p>Note: The person(s) conducting the audit should have expertise in the fields of traffic management, hydrogeology and quarry rehabilitation</p>		<p>(a) conducted Trevor Brown of Trevor Brown &amp; Associates endorsed by the DP&amp;E on 17 September 2015;</p> <p>(b) included consultation with the DP&amp;E, EPA/OEH, Goulburn Mulwaree Council;</p> <p>(c) assessed environmental performance and effects of the quarry development on the surrounding environment;</p> <p>(d) assessed compliance with the relevant standards, performance measures and statutory requirements (i.e. Project Approval, Environment Protection Licence and Water Management Act);</p> <p>(e) reviewed the adequacy of the EMS, management plans and monitoring program required under this approval, and, if necessary, recommends measures to improve the environmental performance of the project.</p>	
7	<p>Within 6 weeks of completion of each Independent Environmental Audit, the Proponent shall submit a copy of the audit report to the Director-General, with a response to any of the recommendations in the audit report</p>			<b>Noted</b>
8	<p>Within 3 months of submitting a copy of the audit report to the Director-General, the Proponent shall review and if necessary revise the sum of the Rehabilitation Bond (see Schedule 3), to consider:</p> <ul style="list-style-type: none"> <li>• the effects of inflation; • any changes to the total area of disturbance; and</li> <li>• the performance of the revegetation against the completion criteria of the Rehabilitation Management Plan, to the satisfaction of the Director-General.</li> </ul>			<b>Noted</b>
	<b>COMMUNITY CONSULTATIVE COMMITTEE</b>			
9	<p>The Proponent shall establish and operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Director-General, in general accordance with the Department's Guideline for Establishing and Operating Community Consultative Committees for Mining Projects. The CCC must be established within 3 months of the date of this approval, unless otherwise agreed by the Director-General.</p>	<ul style="list-style-type: none"> <li>• CCC Meeting Minutes: <ul style="list-style-type: none"> <li>• 8 September 2010</li> <li>• 1 December 2010</li> <li>• 4 May 2011</li> <li>• 12 October 2011</li> <li>• 2 May 2012</li> <li>• 5 December 2012</li> <li>• 20 May 2013</li> </ul> </li> </ul>	<p>A Community Consultative Committee (CCC) was established to provide a forum for the local community to be made aware of and raise potential issues with Quarry operations. The CCC has met at least each six months and is composed of the following representatives. Don Elder (Chairman). Multiquip Representatives: Jason Mikosic,</p>	<b>Compliant Ongoing</b>



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	Notes: • The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval. • In accordance with the Guideline, the Committee should comprise an independent chair and appropriate representation from the Proponent, Council, adjoining landholders, residents of Bungonia village and resident/s along the haulage route.	<ul style="list-style-type: none"> <li>• 11 Nov 2013</li> <li>• 12 May 10 Nov 2014</li> <li>• 11 May 2015</li> </ul>	<p>Rick Mandelson, Steve Mikosic Goulburn Mulwaree Council - Louise Wakefield Committee Members - Mick Ireland, Phillip Broadhead, Joanne Macey</p> <p>The first CCC Meeting was held on the 8 September 2010 and following CCC Meetings were held six monthly.</p>	
	<b>ACCESS TO INFORMATION</b>			
10	<p>Within 1 month of the approval of any plan/strategy/program required under this approval (or any subsequent revision of these plans/strategies/programs), or the completion of the audits or AEMR required under this approval, the Proponent shall:</p> <p>(a) provide a copy of the relevant document/s to the relevant agencies and to members of the general public upon request; and (b) ensure that a copy of the relevant document/s is made publicly available on its website and at the Proponent's office.</p>	<a href="http://www.multiquip.com.au">http://www.multiquip.com.au</a>	<p>A copy of Ardmore Park Quarry documents is publicly available on the Multiquip website and at the Multiquip Office. Documents on the website at the date of the audit include:</p> <ul style="list-style-type: none"> <li>• Project Approval 07_0155</li> <li>• Environment Protection Licence 13213</li> <li>• Environmental Management Strategy</li> <li>• Environmental Monitoring Program</li> <li>• Noise Management Plan</li> <li>• Landscape Management Plan</li> <li>• Transport Management Plan</li> <li>• Water Management Plan</li> <li>• Community Consultation Committee Meeting Minutes</li> <li>• Pollution Incident Response Procedures</li> </ul>	<b>Compliant Ongoing</b>
11	<p>During the project, the Proponent shall:</p> <p>(a) make a summary of monitoring results required under this approval publicly available on its website and at the site office; and (b) update these results on a regular basis (at least every 3 months).</p>		<p>Multiquip Quarries should ensure that the monitoring summaries are available on its website and are regularly updated. Monitoring data produced between November 2013 and October 2015 had not been uploaded to the website at the date of this audit (October 2015).</p>	<b>Administrative Non-Compliance</b>
	<b>Adaptive Management</b>			
12	<p>The Applicant shall 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&amp;A Act or EP&amp;A Regulation. Where any exceedance of these criteria and/or performance measures has occurred, the Applicant shall, at the earliest opportunity:</p>			<b>Noted</b>

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	<p>(a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur;</p> <p>(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</p> <p>(c) implement remediation measures as directed by the Director-General; to the satisfaction of the Director-General.</p>			

## Attachment B Statements of Commitment

SoC	Statement of Commitment	Timing	Comments	Compliance
<b>1</b>	<b>Area of Activities</b>			
	All approved activities are undertaken in the area(s) nominated on the approved plans and figures (unless moved slightly to avoid individual trees).		<b><u>Refer to Project Approval Schedule 3 condition 1</u></b>	
<b>1.1</b>	Survey and mark the boundaries of the areas of disturbance on the ground.	Prior to any vegetation clearing	Survey Plan of the Ardmore Park Quarry areas was prepared by Southern Cross Consulting Surveyors showing set-out mark placements for the Ardmore Park Quarry prior to commencement of extraction.	<b>Compliant</b>
<b>1.2</b>	Survey and peg the centre line of the Site Access Road.	Prior to construction of the Site Access Road.	The survey and centre line pegging of the Site Access Road occurred prior to construction of the road.	<b>Compliant</b>
<b>2</b>	<b>Operating Hours</b>			
	Management of construction and operational activities in accordance with the approved operating hours.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 4 and EPL condition L4.1</u></b>	
<b>2.1</b>	Undertake all activities within the hours of: 7.00am to 6.00pm / Monday to Friday and 7.00am to 1.00pm / Saturday.		Construction and operation activities are conducted in accordance with the approved operating hours.	<b>Compliant</b>
<b>3</b>	<b>Waste Management</b>			
	Minimisation of general waste creation and maximisation of recycling, wherever possible.		<b><u>Refer to Project Approval Schedule 3 condition 37</u></b>	
<b>3.1</b>	Place all paper and general wastes originating from the Administration and Quarry Services Area, together with routine maintenance consumables from the daily servicing of equipment in garbage bins located adjacent to the various buildings.	Ongoing	All paper and general wastes originating from the Administration and Quarry Services Area from the servicing of equipment is placed in bins located adjacent to the various buildings.	<b>Compliant Ongoing</b>
<b>3.2</b>	Collect general waste bins daily and place contents in large waste skip bins positioned adjacent to the heavy vehicle maintenance building to await removal by licensed contractor.	Daily	General waste is placed in waste skip bin for removal by licensed contractor as required.	<b>Compliant Ongoing</b>
<b>3.3</b>	Organise the regular collection of industrial wastes.	Monthly	Collection of industrial wastes is arranged with a licensed waste contractor as required.	<b>Compliant Ongoing</b>
<b>3.4</b>	Store waste oils and grease at the maintenance workshop for collection by a licensed waste recycling contractor	Monthly	Storage of waste oils and grease at the maintenance workshop occurs for collection by a licensed waste recycling contractor, as required.	<b>Compliant Ongoing</b>
<b>3.5</b>	Collect all parts and packaging and transfer to the maintenance workshop for disposal or recycling.	As required	Parts and packaging from the maintenance workshop for disposal or recycling	<b>Compliant Ongoing</b>

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3.6	Store potentially hydrocarbon-contaminated water in the oil/water separator for regular removal from site by a licensed contractor.	As required	Potentially hydrocarbon-contaminated water the maintenance workshop will be regularly removed from the site by a licensed contractor, as required	<b>Compliant Ongoing</b>
3.7	Install adequate toilet and ablution facilities within the Administration and Quarry Services Area for the site workforce and visitors.	During site establishment	Toilet and ablution facilities are available within the Administration Area for the site workforce and visitors.	<b>Compliant Ongoing</b>
3.8	Direct sewage to either the existing septic system of the "Ardmore Park" property or a bio-cycle (or equivalent system) within the Administration and Quarry Services Area with effluent irrigation to land.	Ongoing	Sewage is currently directed to the existing septic system of the "Ardmore Park" property within the Administration.	<b>Compliant Ongoing</b>
<b>4</b>	<b>Rehabilitation</b>		<b><u>Refer to Project Approval Schedule 3 condition 21</u></b>	
4.1	Adopt a progressive approach to rehabilitation to ensure that completed areas are quickly shaped and vegetated to provide a stable landform.	Ongoing during rehabilitation activities	<b><u>Refer to Project Approval Schedule 3 condition 21(d)</u></b> No rehabilitation had occurred between November 2013 and October 2015. The earth bund being constructed had grass cover established at the date of this audit (October 2015).	<b>Noted</b>
4.2	Stabilise earthworks, drainage lines and disturbed areas no longer required for quarry-related activities.	As areas become available	<b><u>Refer to Project Approval Schedule 3 condition 21(d)</u></b> No stabilising earthworks, drainage lines or disturbed areas had occurred between November 2013 and October 2015.	<b>Noted</b>
4.3	Blend the created landform with the surrounding land fabric.	As areas become available	<b><u>Refer to Project Approval Schedule 3 condition 21(d)</u></b>	<b>Noted</b>
4.4	Maintain a number of water storages to facilitate the subsequent use of the land for agricultural purposes.	Prior to quarry closure.		<b>Noted</b>
4.5	Replant native vegetation along reinstated drainage lines and lower lying areas of the Project Site totalling approximately 14.7ha.	Ongoing during rehabilitation activities		<b>Noted</b>
4.6	Utilise native tree, shrub and grass species that would promote the re-establishment of the endangered ecological community White Box Yellow Box Blakely's Red Gum Woodland, and link existing areas of native vegetation to the southeast and northwest of the Project Site.	Ongoing during rehabilitation activities.		<b>Noted</b>
4.7	Retain cleared trees and branches for use in stabilising slopes identified for rehabilitation with native woodland communities.	Ongoing during rehabilitation activities.		<b>Noted</b>
4.8	Report each year's rehabilitation within an Annual Environmental Management Report (AEMR).	Annually	Rehabilitation addressed in AEMR section 3.3.4 August 2015.	<b>Compliant Ongoing</b>
4.9	Undertake a targeted weed spraying programs, to eliminate or control noxious weeds currently occurring on the Project Site.	Annually	<b><u>Refer to Project Approval Schedule 3 condition 21(d)</u></b>	
<b>5</b>	<b>Groundwater</b>			

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	Prevention of groundwater contamination.			
5.1	Securely store all hydrocarbon products within designated and bunded areas	Ongoing	All hydrocarbon products are stored within designated areas within the maintenance workshop in the Quarry Services Area.	<b>Compliant Ongoing</b>
5.2	Refuel all of the project fleet within designated areas of the Project Site.	Ongoing	Refuelling of all project fleet utilised on the quarry site only occurs within designated areas of the Site.	<b>Compliant Ongoing</b>
5.3	Undertake all maintenance activities within designated areas of the Project Site facilities area, i.e. maintenance workshop.	Ongoing	All maintenance activities are undertaken in the maintenance workshop in the Quarry Services Area.	<b>Compliant Ongoing</b>
5.4	Direct all water from wash-down areas and workshops to oil/water separators and containment systems.	Ongoing	Waste water from wash-down areas and workshop will occur to oil/water separators and containment systems.	<b>Noted</b>
5.5	Ensure all storage tanks are either self-bunded tanks or bunded with an impermeable surface and a capacity to contain a minimum 110% of the largest storage tank capacity.	Ongoing	Fuel storage tanks will be installed in accordance with AS1940 on a designated area adjacent to the quarry crushing and screening pads (planned for 2016).	<b>Noted</b>
5.6	Collect samples of groundwater in all monitoring wells on a 12-month basis and submit to a NATA registered laboratory for the testing of pH, Electrical conductivity (EC), Total Dissolved Solids (TDS) and the determination of major anions, major cations, iron and hydrocarbons.	Annually	<b><u>Refer to Project Approval Schedule 3 condition 17</u></b> Groundwater Monitoring Program addresses monitoring of groundwater piezometers. The Environmental Monitoring Program (September 2010) identifies annual / quarterly / monthly and continuous monitoring regimes.	<b>Compliant Ongoing</b>
5.7	Measure water levels on a monthly basis up to and throughout the extraction phase from Bores BHAP1, BHAP5, BHAP7 and BHAP10.	Monthly	Groundwater levels are measured continuously in BHAP1 and BHAP7, and monthly in BHAP5 and BHAP10.	<b>Compliant Ongoing</b>
5.8	Replace the bores that are destroyed during the staged extraction process with strategically positioned and suitably installed new monitoring wells where appropriate.	As required	Groundwater bores destroyed or damaged have been identified and replacement piezometers installed by Larry Cook and Associates.	<b>Noted</b>
5.9	(In the event that monitoring indicates a decreasing SWL trend attributable to the proposed extraction of groundwater), reduce pumping rates, initially through reducing water provided for ongoing stock watering and if required through a reduced processing rate at the sand washing plant.	In the event that monitoring indicates a decreasing SWL trend attributable to the proposed extraction of groundwater.		<b>Noted</b>
	<b>Prevention of any reduction in the availability of groundwater flows to local springs.</b>			
5.10	Assess the flow rate and water quality of groundwater from the "Inverary Park" and Southern Spring against low flow records.	6 monthly	Monitoring of flow rate and water quality is conducted by Larry Cook and Associates in accordance with the Environmental Monitoring Program.	<b>Compliant Ongoing</b>
5.11	Establish photo points at representative spring ("Inverary Park", southern and western springs) and other locations to assess any changes in flow regimes and vegetation over time.	Prior to commencement of extraction	Larry Cook and Associates assess flow regimes and vegetation over time at "Inverary Park", southern and western springs locations.	<b>Compliant Ongoing</b>

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SoC	Statement of Commitment	Timing	Comments	Compliance
5.12	(In the event of a deterioration of flow rates and/or water availability to below historic low flows) undertake one of the following options: (i) supply groundwater to the affected water user from Multiquip's proposed production bore (BHAP6) to the measured and documented loss and with a water quality commensurate or better; or (ii) provide monetary compensation to the affected water user; or (iii) install a replacement bore to provide the measured and documented loss of groundwater with a quality commensurate or better.	In the event of a deterioration of flow rates and/or water availability to below historic low flows		<b>Noted</b>
	<b>Preparation of a contingency plan in the event that the availability or quality of groundwater is reduced for local groundwater users.</b>			
5.13	Undertake remedial action if the available drawdown attributable to the mine for the existing groundwater users is reduced by over 15%. The remedial actions that may be appropriate include the deepening of bores or replacement of bores to accommodate deeper, high lift pumps.	As required		<b>Noted</b>
5.14	Commission review of all monitoring results on an annual basis by a consulting hydrogeologist or other environmental professional and report in each AEMR.	Annually	Monitoring results are reviewed on an annual basis by Larry Cook and Associates and reported in the AEMR.	<b>Compliant Ongoing</b>
6	<b>Surface Water</b>			
	<b>Diversion of clean water flows away from areas of project related disturbance.</b>			
6.1	Construct diversion banks upstream of the extraction area and other related disturbance to the design specifications of Landcom (2004).	Prior to disturbance in relevant catchment of the Project Site.		<b>Noted</b>
6.2	Construct clean water storage dam (Dam 8) at the discharge points of the main diversion structures.	Prior to disturbance in relevant catchment of the Project Site.		<b>Noted</b>
6.3	Inspect the diversion banks and storage dams on a monthly basis, or following rainfall of >25mm/24 hours, and undertake maintenance work as necessary.	Monthly or following rainfall of >25mm/24hour	Diversion banks and storage dams are inspected regularly, or following rainfall of >25mm/24 hours, and maintenance work conducted as necessary	<b>Compliant Ongoing</b>
	<b>Capture of dirty water flows from areas of project related disturbance.</b>		<b><u>Refer to Project Approval Schedule 3 condition 15</u></b>	
6.4	Construct catch banks downstream of disturbed ground to the design specifications of Landcom (2004).	Prior to disturbance in relevant catchment of the Project Site.		<b>Noted</b>
6.5	Inspect the catch banks on a monthly basis, or following rainfall of >25mm/24 hours, and undertake maintenance work as necessary.	Monthly or following rainfall of >25mm/24hour	Diversion banks and storage dams are inspected regularly, or following rainfall of >25mm/24 hours, and maintenance work conducted as necessary.	<b>Compliant Ongoing</b>

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SoC	Statement of Commitment	Timing	Comments	Compliance
6.6	Construct sediment basins and clarification ponds as identified on Figure 5.15 (in the EA) and to the design specifications of Landcom (2004).	Ongoing	Sediment basins and clarification ponds will be constructed in accordance with the design specifications in the Blue Book (Landcom 2004)	Compliant Ongoing
6.7	Inspect the sediment basins on a monthly basis, or following rainfall of >25mm/24 hours, and clean out the sediment basins of consolidated sediment once capacity reduced by 20%.	Monthly or following rainfall of >25mm/24hour	Sediment basins will be inspected regularly, or following rainfall of >25mm/24 hours, and maintenance work conducted as necessary.	Compliant Ongoing
6.8	Review general performance of catchment and settlement structures and upgrade the existing structures or install additional structures to ensure all dirty water is captured and settled prior to discharge.	Ongoing		Noted
	<b>Discharged water quality to meet nominated criteria.</b>			
6.9	Construct catchment and settlement structures 'in-line' such that overflow from one structure is directed to another downstream.	During construction	Catchment and settlement structures are being constructed so overflow from one structure is directed to another downstream	Compliant Ongoing
6.10	Divert drainage in the final landform to Dams 7 and 8.	Prior to project completion		Noted
6.11	Ensure drainage paths between the catchment and settlement structures are well grassed.	Ongoing	The drainage paths between the catchment and settlement ponds have well established grass cover.	Compliant Ongoing
6.12	Ensure any water discharged meets the EPA Environment Protection Licence criteria, expected to be as follows. • TSS < 50mg/L. • pH: 5.5 to 8.5. • Oil & grease < 10mg/L. • Electrical conductivity < 350µS/cm.	Ongoing	Any water discharged meets the water quality criteria specified. (Note the EPL does not express water quality criteria for discharge).	Compliant Ongoing
	<b>Prevention of hydrocarbon contamination of water on the Project Site.</b>		<b><u>Refer to Project Approval Schedule 3 condition 38</u></b>	
6.13	Securely store all hydrocarbon products.	Ongoing		Noted
6.14	Refuel all but the less mobile mining equipment which would be refuelled within the open cut area, within designated areas.	Ongoing		Noted
6.15	Direct all water from wash-down areas and workshops to oil/water separators and containment systems.	Ongoing		Noted
6.16	Ensure all storage tanks are either self-bunded tanks or bunded with an impermeable surface and have a capacity to contain a minimum 110% of the largest storage tank capacity.	When imported to site or constructed	<b><u>Refer to Project Approval Schedule 3 condition 38</u></b> An upgraded fuel storage facility compliant with AS1940 is planned to be installed at the Ardmore Park Quarry site during 2016.	Noted
6.17	Implement a 3-phase remedial action plan in the event of a major hydrocarbon spill as follows. • Phase 1 – Initial Recovery: Recover as much as possible at the source by pumping free hydrocarbon from the surface and excavating hydrocarbon contaminated materials. • Phase 2 – Source Control: Begin hydraulic control of the source to prevent spreading of	As required	<b><u>Refer to EPL 13213 - Pollution Incident Response Management Plan</u></b> The Pollution Incident Response Management Plan (PIRMP) prepared under <i>Protection of the Environment Operations Act</i> section 153C would be implemented for any spill response and reporting.	Compliant

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	contamination. • Phase 3 – Recovery: If necessary, install boreholes to remove and treat contaminated groundwater.			
<b>7</b>	<b>Noise</b>		<b><u>Refer to Project Approval Schedule 3 condition 2</u></b>	
	<b>All activities are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.</b>			
<b>7.1</b>	Construct an acoustic bund wall to the west of the internal road network and around the sand processing area.	During construction period	<b><u>Refer to Project Approval Schedule 3 condition 5</u></b> The acoustic earth bund wall is being progressively constructed to the west of the sand processing area	
<b>7.2</b>	Locate the mobile crushing plant and hard rock processing plant within a cut section of the Project Site, approximately 8m below surface level (to the east).	During construction period	The mobile crushing plant and hard rock processing plant will be located within a cut section of the quarry to reduce noise dispersion.	<b>Noted</b>
<b>7.3</b>	Commence extraction from the southern sand resource area at the northern extremity of Stage 1 and move progressively southward toward Stage 2.	As part of extraction operations	No sand extraction had occurred between November 2013 and October 2014.	<b>Noted</b>
<b>7.4</b>	Enclose the hard rock processing plant using Panel-Tech Thermaspan Colorbond panels, leaving openings only for plant conveyors.	During construction period	The hard rock processing plant had not been installed at the date of this audit.	<b>Noted</b>
<b>7.5</b>	Adhere to the nominated hours of operation, i.e. no extraction, processing and associated activities would take place before 7:00am or after 6:00pm.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 4</u></b>	
<b>7.6</b>	Use equipment with lower sound power levels in preference to more noisy equipment	Ongoing		<b>Noted</b>
<b>7.7</b>	Instruct all truck drivers to avoid the use of engine brakes when approaching the Project Site entrance.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 27(g)</u></b> Transport Management Plan - Drivers Code of Conduct	<b>Noted</b>
<b>7.8</b>	Regularly service all equipment used on site to ensure the power sound levels remain at or below the levels specified in the noise assessment for the EA.	Ongoing		<b>Noted</b>
<b>7.9</b>	Grade the internal road network to limit body noise from empty trucks travelling on the Project Site.	Ongoing		<b>Noted</b>
<b>7.10</b>	Establish a noise monitoring program (NMP) to initially validate the predictions arising from the modelling and then record noise levels against the Project noise criteria. The NMP would include a noise monitoring protocol which would include the contingent measures to be followed should non-compliant noise levels be measured.	Within 6 months of approval	<b><u>Refer to Project Approval Schedule 3 condition 6</u></b> A Noise Monitoring Program was prepared to assess noise performance of the project and a noise monitoring protocol for evaluating compliance with the relevant noise limits.	<b>Compliant Ongoing</b>
<b>8</b>	<b>Air Quality</b>		<b><u>Refer to Project Approval Schedule 3 condition 7</u></b>	



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SoC	Statement of Commitment	Timing	Comments	Compliance
	<b>Site activities are undertaken without exceeding EPA air quality criteria or goals.</b>		<b><u>Refer to Project Approval Schedule 3 condition 7 Table 4, 5 and 6</u></b>	
8.1	Minimise clearing ahead of construction and operational activities	Ongoing		<b>Noted</b>
8.2	Undertake soil stripping at a time when there is sufficient soil moisture to prevent significant lift-off of dust.	Ongoing		<b>Noted</b>
8.3	Avoid stripping soil in periods of high wind.	Ongoing		<b>Noted</b>
8.4	Use water application to increase soil moisture should stripping occur during periods of high wind or low soil moisture.	Ongoing		<b>Noted</b>
8.5	Apply water to the hard rock processing plant feed hopper and crushers.	Ongoing	The hard rock processing plant had not been installed at the date of this audit.	<b>Noted</b>
8.6	Install bund walls and wind breaks as required.	Ongoing		
8.7	Locate the mobile crushing plant within the cut section of the hard rock processing area.	During construction and initial production phase	The mobile crushing plant is located within a cut section of the quarry. The hard rock processing plant had not been installed at the date of this audit.	<b>Compliant Ongoing</b>
8.8	Enclose the dust generating components of the hard rock processing plant with limited openings to allow entry and exit of conveyors and access by project personnel.	During construction	The hard rock processing plant had not been installed at the date of this audit.	<b>Noted</b>
8.9	Use a 10 000 litre water truck to regularly wet the active internal unsealed roads.	Ongoing	A water truck is available on site for dust suppression.	<b>Compliant Ongoing</b>
8.10	Seed topsoil stockpiles, acoustic bund walls and areas where landform preparation is complete to assist in stabilising the exposed surface.	Ongoing		<b>Noted</b>
8.11	Minimise the drop heights between front-end loader buckets and trucks carrying sand/basalt or overburden through operator training and education on the management of dust.	Ongoing		<b>Noted</b>
8.12	Cover all trucks carrying quarry products with approved covers and securely fix the tailgates to prevent windblown dust emission or spillages.	Ongoing	Transport Management Plan Annexure D – Drivers Code of Conduct includes covering of loads - <i>Ensure that all loads are correctly covered and sealed</i>	<b>Compliant Ongoing</b>
8.13	Undertake an air quality monitoring program to demonstrate compliance with the nominated goals. • Deposited dust at selected residences and strategic locations surrounding the Project Site. • Continuous wind speed and direction at the Project Site weather station.	Within 6 months of project approval	Dust deposition gauges have been installed in accordance with EPL condition P1.1 at 'Inverary Park', 'The Osiers', 'Lochmoor Lodge', and Residence at 5199 Oallen Ford Road.  A meteorological station has been installed on site to measure wind speed and direction.	<b>Compliant Ongoing</b>
9	<b>Flora and Fauna</b>			
	<b>Minimisation of long term impact on flora and fauna on and around the Project Site.</b>			

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9.1	Construct the Project Site infrastructure to avoid where possible, remnant stands of vegetation.	During construction		Noted
9.2	Minimise clearing and consistent with operational requirements.	During clearing		Noted
9.3	Undertake vegetation clearing on a campaign basis to provide for immediate extraction operations.	Ongoing		Noted
9.4	Clearly define all areas to be cleared.	Prior to clearing	<b><u>Refer to Project Approval Schedule 3 condition 7</u></b> Survey Plan for Ardmore Park Quarry 2013.	Compliant
9.5	Construct any additional internal roads required on the cleared lands well away from stands of native vegetation.	Ongoing		Noted
9.6	(Where practicable), directly transfer soil material and biomass stripped to completed sections of the final landform for spreading.	Ongoing		Noted
9.7	Carry out, where possible, tree removal, especially the mature trees in late spring and early autumn to avoid spring nesting birds and over-wintering bats.	Ongoing		Noted
9.8	Retain felled trees for use in rehabilitation of the final landform.	Ongoing		Noted
9.9	Ensure the quality of water discharged from the Project Site has a neutral or beneficial impact on the downstream catchment.	Ongoing	Any water discharged from the Ardmore Park Quarry site will have a TSS < 50mg/L; pH: 5.5 to 8.5, Oil & grease < 10mg/L, Electrical conductivity < 350µS/cm (refer to Statement of Commitment 6.12).	Compliant Ongoing
9.10	Control noxious weeds at all times.	Ongoing		Noted
9.11	Commence progressive rehabilitation of the open cut area, including establishment of Vegetation Offset Area as soon as possible.	During Year1 of the project		Noted
9.12	Undertake landscape plantings to screen the proposed quarry and associated facilities from view, stabilise the soils and drainage lines and provide habitat for fauna.	During first 3 years of the project		Noted
9.13	Maintain the existing fences around the remnant forest communities associated with the knolls on the "Ardmore Park" property.	Ongoing	Existing fences on the Ardmore Park property have been maintained and are inspected regularly.	Compliant Ongoing
10	<b>Aboriginal Heritage</b>			
	<b>Provide appropriate protection to identified Aboriginal artefacts.</b>			
10.1	Ensure the in-situ protection of the identified artefacts through workforce education.	Ongoing	Induction and personnel training are covered in the Aboriginal Heritage Management Plan section 4.6.	Compliant Ongoing
10.2	Apply for the relevant permit to undertake test pitting over the southern sand resource (in accordance with recommendations of AASC (2008).	Prior to the commencement of extraction	Test pitting over the southern sand resource is covered in the Aboriginal Heritage Management Plan section 4.5.	Noted

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SoC	Statement of Commitment	Timing	Comments	Compliance
	<b>Minimise potential to impact upon unidentified Aboriginal artefacts.</b>			
10.3	Invite Aboriginal monitors to site to review the results of test pitting activities.	Ongoing	Aboriginal consultation and representation at monitoring of the test pitting is covered in Aboriginal Heritage Management Plan section 4.2.	<b>Compliant Ongoing</b>
10.4	Cease work at any area if further Aboriginal objects are uncovered during the course of the Project, and contact the OEH (NPWS) for advice.	Ongoing		<b>Noted</b>
	<b>Employees who are sensitive and respectful of possible identified Aboriginal sites and artefacts</b>			
10.5	Conduct a Cultural Heritage Awareness Induction Course for staff, contractors and any heritage monitors working on the Project Site.	Ongoing	Site induction includes a Cultural Heritage Awareness for staff and contractors working on the Project Site	<b>Compliant Ongoing</b>
	<b>Notification of Aboriginal Sites under Part 6 s91 NPWS Act.</b>			
10.6	Supply formal site cards for all identified Aboriginal artefacts to the OEH Aboriginal Heritage Information Management System (AHIMS) Registrar.	Following identification of an Aboriginal artefact or site.	Aboriginal artefacts identified on the Ardmore Park Quarry site are recorded in the OEH Aboriginal Heritage Information Management System (AHIMS) Registrar.	<b>Compliant Ongoing</b>
11	<b>Non-Aboriginal Heritage</b>			
	<b>Provide appropriate protection to site of non-Aboriginal heritage significance.</b>			
11.1	Locate the Project Site entrance works <b>at least 5.5m from the Larbert Tree and protect the tree from accidental damage during road construction and operation of the quarry</b>	Ongoing	Site Entrance works to the Ardmore Park Quarry are designed to be in excess of 6m from the Larbert Tree to protect the tree from accidental damage during road construction and operation of the quarry.	<b>Compliant Ongoing</b>
11.2	Prepare a Cultural Heritage Management Plan (CHMP) for the project which would: <ul style="list-style-type: none"> <li>• be prepared in consultation with the NSW Heritage Office</li> <li>• include an inventory of all listed heritage items locally;</li> <li>• provide opportunity for further research as to any physical evidence of the Old Argyle Road;</li> <li>• include a protocol for surface disturbing activities in the vicinity of the recorded location of the Old Argyle Road; and</li> <li>• include a protocol to be followed in the event that archaeological material is exposed as a result of surface disturbing activities.</li> </ul>	Prior to commencement of the project	<b><u>Refer to Project Approval Schedule 3 condition 24</u></b> The Aboriginal Heritage Management Plan was prepared by Kayandel Archaeological Services for the Ardmore Park Quarry includes a description of the subsurface test pit investigations; a description of the measures to be implemented if any new Aboriginal objects or relics are discovered during the project; and a protocol for the ongoing consultation and involvement of the Aboriginal communities.	<b>Compliant Ongoing</b>
12	<b>Visibility</b>			
	<b>Reduce the impact of the project on the visual amenity of private and public vantage points.</b>		<b><u>Refer to Project Approval Schedule 3 conditions 31 to 34</u></b>	
12.1	Orient the various components of the Project Site in such a way that the existing topographical features would offer maximum screening of the Project Site.	Complete	A Visual Impact Mitigation Report was prepared by RW Corkery & Co Pty Limited, in 2011. Components of the quarry development are oriented where practicable so	<b>Compliant Ongoing</b>

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			existing topographical features offer maximum screening of the Ardmore Park Quarry site.	
12.2	Minimise the extent of land disturbance / clearing in advance of extraction.	Ongoing	Land disturbance and vegetation clearing only occurs as required for the advancement of the extraction area.	
12.3	Construct a 4m bund wall around the sand washing plant, along the internal product transport route and ultimately along the Project Site access road to the west of the "Ardmore Park" residence.	During construction activities	An acoustic bund to the west of the internal product haulage route / road network and around the sand processing area is being established.	<b>Compliant Ongoing</b>
12.4	Seed the bund wall with native grass, shrub and tree species to act as an additional visual screen.	Following construction	Revegetation of the bund wall is being progressively undertaken as the bund wall is established.	<b>Compliant Ongoing</b>
12.5	Plant out the elevated areas immediately west of the processing plants and internal road network as part of an ongoing commitment to re-establish areas of native vegetation (particularly those of the White Box Yellow Box Blakely's Red Gum Woodland community).	Ongoing	Revegetation of elevated areas immediately west of the processing plants and internal road network will occur when the components are constructed.	<b>Noted</b>
13	<b>Soils, Land Capability and Agricultural Suitability</b>			
	<b>Maintenance of soil value for rehabilitation and minimisation of soil loss through erosion.</b>			
13.1	Strip topsoil and subsoil to the depths nominated in the EA. Only those areas required for immediate construction or extraction activities would be stripped.	Ongoing	Topsoil will be stripped and stockpiled as windrows for reuse in rehabilitation. Any weathered material unsuitable would be removed and used in the construction of acoustic bund wall.	<b>Compliant Ongoing</b>
13.2	Provide mobile equipment operators with clear instructions to keep the topsoil and subsoil separate.	Ongoing		<b>Noted</b>
13.3	Transfer and respread directly stripped soil materials directly over areas to be rehabilitated following the first 18 to 24 months of mine operations.	Ongoing	Topsoil stripped is respread directly over areas to be rehabilitated.	<b>Compliant Ongoing</b>
13.4	Stockpile soil away from natural surface drainage lines.	Ongoing	Topsoil stockpiles are located away from natural surface drainage lines.	<b>Compliant Ongoing</b>
13.5	Seed any stockpile retained for in excess of three months with cereal and pasture species.	As required	Topsoil stockpiled for more than 3 months will be seeded with pasture species.	<b>Noted</b>
13.6	Cover long-term subsoil stockpiles with a cover of topsoil.	As required	Long-term subsoil stockpiles have a cover of topsoil applied.	<b>Noted</b>
13.7	Install erosion protection around soil stockpiles.	Ongoing	Erosion control is established around soil stockpiles in accordance with the Water Management Plan section 4.1.1.	<b>Noted</b>
13.8	Divert surface water flow away from soil stockpile areas.	Ongoing	"Clean" run-off water is diverted around exposed surfaces and stockpiles wherever possible.	<b>Noted</b>

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SoC	Statement of Commitment	Timing	Comments	Compliance
13.9	Monitor erosion from soil stockpiles or rehabilitated surfaces throughout the life of the Project with remedial works undertaken should erosion be observed.	Ongoing		<b>Noted</b>
<b>14</b>	<b>Bushfire Hazard</b>			
	<b>Minimise potential for initiation of fire through combustion of fuel.</b>			
14.1	Undertake refuelling within designated fuel bays or within cleared area of the Project Site.	Ongoing	Refuelling of all project fleet utilised on the quarry site occurs within designated areas of the site.	<b>Compliant Ongoing</b>
14.2	Turn vehicles off during refuelling.	Ongoing	Vehicles are turned off during refuelling.	<b>Noted</b>
14.3	Enforce no smoking policy in designated areas of the Project Site.	Ongoing		<b>Noted</b>
14.4	Maintain fire extinguishers within site vehicles.	Ongoing	A fire extinguisher and first aid kit is kept within site vehicles.	<b>Noted</b>
	<b>Manage potential and actual bushfire occurrences in accordance with local bushfire control plans.</b>			
14.5	Prepare a Bushfire Management Plan for the Project.	Within 6 months of the Project commencing. Ongoing.	The bushfire hazard assessment in the Landscape Management Plan determined that the bushfire hazard on the "Ardmore Park" property is low.	<b>Noted</b>
14.6	Regularly liaise with Goulburn Mulwaree Council personnel in relation to bushfire hazard.	Within 6 months of the Project commencing. Ongoing.		<b>Noted Ongoing</b>
<b>Table B</b>	<b>Statement of Commitments for Transport Operations and Management</b>			
<b>1</b>	<b>Area of Activities</b>			
	<b>All approved activities are undertaken in the area(s) nominated on the approved plans and figures (unless moved slightly to avoid individual trees).</b>			
1.1	Peg the centre line of the Bungonia By-pass section of the transport route, specifically where a meander is to be created to avoid any mature native trees.	Prior to construction of the transport route	The centre line of the Bungonia By-pass transport route was pegged to avoid any mature native trees.	<b>Compliant</b>
1.2	Survey and mark the boundaries of the areas of disturbance on the ground.	Prior to any vegetation clearing.	Survey Plan of the Ardmore Park Quarry areas was prepared by Southern Cross Consulting Surveyors showing set-out marks of the boundaries of the areas of disturbance on the ground.	<b>Compliant</b>
<b>2</b>	<b>Operating Hours</b>		<b><u>Refer to Project Approval Schedule 3 condition 4</u></b>	
	<b>Management of transport operations in accordance with the approved operating hours</b>			

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SoC	Statement of Commitment	Timing	Comments	Compliance
2.1	Undertake road upgrade and construction operations within the hours of: 7.00am to 6.00pm / Monday to Friday and 7.00am to 1.00pm / Saturday.	During Construction and upgrading works along the Transport Route.	Road upgrade and construction operations have been undertaken within the hours of: 7.00am to 6.00pm / Monday to Friday and 7.00am to 1.00pm / Saturday.	<b>Compliant Ongoing</b>
2.2	Ensure no truck exits the site before 7.00am Monday to Saturday or enters the site after 6.00pm Monday to Friday and 1.00pm Saturday.	Ongoing		<b>Noted</b>
3	<b>Waste Management</b>		<b><i>Refer to Project Approval Schedule 3 condition 37(b)</i></b>	
	<b>Minimisation of general waste creation and maximisation of recycling, wherever possible.</b>			
3.1	Collect all waste materials in temporary skip bin(s) at the construction / upgrade site and transfer to local landfill as required.	During Construction of the Transport Route.	Waste materials in temporary skip bin(s) at the construction / upgrade site and transfer to local landfill as required	<b>Compliant Ongoing</b>
	<b>Minimisation of the potential risk of environmental impact due to waste creation, storage and/or disposal.</b>			
3.2	Undertake all vehicle refuelling within a bunded area of the Project Site or protected area in the vicinity of the construction site.	During Construction of the Transport Route.	Refuelling of all vehicles utilised on the construction site occurs within designated areas of the site.	<b>Compliant Ongoing</b>
3.3	Install temporary toilet and ablution facilities away from natural drainage lines.	As required		<b>Noted</b>
4	<b>Rehabilitation</b>			
	<b>The creation of a stable landform, available for the proposed future use(s) of agriculture and/or nature conservation.</b>			
4.1	Stabilise earthworks, drainage lines and disturbed areas no longer required for project-related activities.	Ongoing		<b>Noted</b>
4.2	Maintain aquatic and terrestrial habitat corridors along Bungonia Creek.	During Construction of the Transport Route.	Bungonia Creek has not been disturbed during the construction of the Bungonia By-pass except for the bridge crossing. The aquatic and terrestrial habitat corridors have been maintained.	<b>Compliant</b>
4.3	Avoid unnecessary disturbance to vegetation along the alignment of the Bungonia By-pass through the Crown land.	During Construction of the Transport Route.	Minimal disturbance to vegetation along the alignment of the Bungonia By-pass through the Crown land occurred during the construction of the By-pass.	<b>Compliant</b>
5	<b>Transport Route Construction and Upgrading – see Figures A, B &amp; C below</b>			
	<b>Stage 1 Roadworks. The completion of the construction of the Bungonia Bypass and the completion of specified intersection upgrades (see Figure A below).</b>			

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SoC	Statement of Commitment	Timing	Comments	Compliance
5.1	Construct the Project Site entrance with Oallen Ford Road (see Detail A below).	Throughout Stage 1 Roadworks.	The Ardmore Park Quarry entrance from Oallen Ford Road had not been constructed at the date of this audit (October 2015).	<b>Noted</b>
5.2	Construct the Bungonia Bypass, including the crossing of Bungonia Creek (see Detail B below), as follows. • Two 2.5m lanes with 0.5m shoulder between Oallen Ford Road and the Crown land (see Detail E below). • Single lane bridge spanning Bungonia Creek as described in Section 3.2.4.5 and Figure 3.6 in the EA. • A single lane of 3.0m, with 0.5m shoulder on both sides, through the Crown land (see Detail F below). A pass-by bay would be included over already cleared land at both the Northern and Southern ends of this section of the by-pass.		Construction of the Bungonia Bypass, including the crossing of Bungonia Creek commenced in November 2013 with completion to within 50m of Mountain Ash Road completed by mid-2014. Construction included the clearing, placement of sub-base materials and sealing of a two-lane road. A bridge over Bungonia Creek was installed and erosion and sediment control features were constructed (and remain in place) in accordance with an Erosion and Sediment Control Plan prepared for the road construction project.	<b>Compliant Ongoing</b>
5.3	Construct the intersections of the Bungonia Bypass with Oallen Ford Road (see Detail C below) and Mountain Ash Road (see Detail D below).		The intersections of the Bungonia Bypass with Oallen Ford Road had not been constructed at the date of this audit (October 2015).	<b>Noted</b>
5.4	Upgrade the Mountain Ash Road – Jerrara Road intersection		Upgrade of the Mountain Ash Road – Jerrara Road intersection had not been constructed at the date of this audit (October 2015).	<b>Noted</b>
5.5	Upgrade Water Course Crossing I as part of the Mountain Ash Road – Jerrara Road intersection upgrade (see Detail D below).		Upgrade of the Water Course Crossing I as part of the Mountain Ash Road – Jerrara Road intersection upgrade had not occurred at the date of this audit (October 2015).	<b>Noted</b>
5.6	Widen the carriageway of Jerrara Road at Water Course Crossings E (5.94km from the Hume Highway to accommodate an 8m sealed pavement).		Widening of the carriageway of Jerrara Road at Water Course Crossings E (5.94km from the Hume Highway to accommodate an 8m sealed pavement) had not occurred at the date of this audit (October 2015).	<b>Noted</b>
5.7	Install “Give Way” signs on the southbound approach to Water Course Crossings: - B (3.16km from the Hume highway); - C (3.43km from the Hume Highway); - D (5.12km from the Hume Highway); and - G (9.72km from the Hume highway).		Installation of “Give Way” signs on the southbound approach to Water Course Crossings were being installed at the date of this audit (October 2015).	<b>Noted</b>
5.8	Install other road signage as required by Goulburn Mulwaree Council.			<b>Noted</b>
	<b>Stage 2 Roadworks. The completion of pavement widening and public road upgrades (see Figure B below).</b>			
5.9	The widening and minor realignment of the public roads of proposed transport route between the Project Site and the Hume Highway.	Throughout Stage 2 Roadworks.	<b>Stage 2 roadworks had not commenced at the date of this audit (October 2015).</b>	<b>Noted</b>
5.10	The upgrade of Water Course Crossings A, F and H.			<b>Noted</b>



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SoC	Statement of Commitment	Timing	Comments	Compliance
5.11	Rehabilitate those sections of pavement identified as having a pavement life of less than 10 years.			<b>Noted</b>
5.12	Complete centreline and edge marking over the entire length of the transport route			<b>Noted</b>
	<b>Stage 3 Road Works. Completion of remaining water course crossing upgrades (see Figure C below).</b>			
5.13	Upgrade Water Course Crossings: - B (3.16km from the Hume highway); - C (3.43km from the Hume Highway); - D (5.12km from the Hume Highway); and - G (9.72km from the Hume highway); to provide a sealed pavement crossing of 8.0m.	Throughout Stage 3 Roadworks.	<b>Stage 3 roadworks had not commenced at the date of this audit (October 2015).</b>	<b>Noted</b>
5.14	Remove "Give Way" signs from the southbound approach to these crossings once the Stage 3 roadworks are completed.			<b>Noted</b>
6	<b>Product Transportation</b>		<b><u>Refer to Project Approval Schedule 3 condition 25</u></b>	
	<b>Product transportation is undertaken in such a manner as to minimise impacts for motorists travelling on the local road network and surrounding landholders and/or residents.</b>			
6.1	Erect "Trucks Entering" signs on Oallen Ford Road on both the southbound and northbound approaches to the Project Site entrance and on Lumley Road 200m from the Project Site entrance.	Prior to the commencement of transport operations	The "Trucks Entering" signs on Oallen Ford Road on both the southbound and northbound approaches to the Project Site entrance had not been erected at the date of this audit (October 2015). The Project Site entrance road works had not been completed at the date of this audit (October 2015).	<b>Noted</b>
6.2	Establish a complaints register, advertised in the local telephone directory, to allow concerned residents to report any traffic related incidents, unsafe operation or general concern. Multiquip would thoroughly investigate all complaints.	Prior to the commencement of transport operations and ongoing.	Multiquip have established a complaints register for recording all community complaints received in relation to the quarry project. The complaints telephone number is shown on the Entrance Gate Multiquip sign.	<b>Compliant</b>
6.3	Restrict the number of truckloads exiting the Project Site to 10 per day until the Stage 2 road upgrade works are complete.	Following the completion of Stage 1 road works	Trucks transporting quarry product leaving the Ardmore Park Quarry site has been less than 10 per day between November 2013 and October 2015.	<b>Compliant</b>
6.4	Restrict the number of truckloads exiting the Project Site to 28 per day until the Stage 3 watercourse crossing upgrades are complete.	Following the completion of the Stage 2 roadworks (see Commitments 5.9 to 5.12).		<b>Noted</b>
6.5	Following the completion of the Stage 3 roadworks (see Commitments 5.13 and 5.14) restrict the number of truckloads exiting the Project Site to 44 per day.	Ongoing following the completion of Stage 3 roadworks.		<b>Noted</b>



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SoC	Statement of Commitment	Timing	Comments	Compliance
6.6	Adhere to the nominated hours of operation, i.e. no vehicles would arrive at the Project Site before 7:00am or leave the Project Site after 6:00pm.	Ongoing	No vehicles arrive at the Project Site before 7:00am or leave the Site after 6:00pm.	Compliant Ongoing
6.7	Enforce driver adherence to all speed limits. • 80km/hr on public roads. • 60km/hr on the Bungonia Bypass.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 27</u></b> The Drivers Code of Conduct prepared as Annexure D of the Traffic Management Plan specifies the speed limits of 80 km/hr on Jerarra and Oallen Ford Roads, and a speed of 60 km/hr on the Bungonia Bypass road.	Compliant Ongoing
6.8	Ensure each exiting truck uses an on-site weighbridge to ensure all legal weight restrictions are adhered to.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 27</u></b> The Drivers Code of Conduct prepared as Annexure D of the Traffic Management Plan specifies drivers must “comply with all RTA regulations regarding speed, load weight limits and driving hours”.	Compliant Ongoing
6.9	Use only vehicles which employ the most up to-date noise / emission reducing technology.	Ongoing		Noted
6.10	Cover all loads to minimise dust and particulate matter and debris emissions	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 27</u></b> Traffic Management Plan section 5.2 requires drivers to “ensure that all loads are correctly covered and sealed”.	Compliant Ongoing
6.11	Instruct all truck drivers to avoid the use of engine brakes when approaching the Project Site entrance.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 27</u></b> The Drivers Code of Conduct prepared as Annexure D of the Traffic Management Plan specifies drivers must “Limit the use of the engine brake and other noisy driving practices in built up areas”.	Compliant Ongoing
6.12	Regularly service all trucks to ensure the power sound levels remain at or below the levels specified in the noise assessment for the EA.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 11 and EPL 13213 condition O2.1</u></b> All trucks are regularly serviced to ensure the power sound levels remain at or below the levels specified in the noise assessment for the EA.	Compliant Ongoing
6.13	Prepare and implement a transport Code of Conduct developed for the project. The Code of Conduct would require drivers to obey all traffic signs, speed zones and to operate in a safe and courteous manner at all times.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 27</u></b> A Drivers Code of Conduct has been prepared as Annexure D of the Traffic Management Plan prepared to satisfy Project Approval Schedule 3 condition 27.	Compliant
7	<b>Surface Water</b>			
	<b>Construction of appropriate roadside drainage.</b>			
7.1	Complete specific roadside drainage upgrades as identified in Table 6.9 (in the EA).	During Stages 2 and 3 roadworks.	Stages 2 and 3 road works had not commenced at the date of this audit (October 2015).	Noted
7.2	Complete standard drainage upgrades on all drainage line crossings including: • extension of the pipes, culverts or bridges to facilitate the wider road; • raising of the pipe headwalls to	During Stages 2 and 3 roadworks.		Noted

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SoC	Statement of Commitment	Timing	Comments	Compliance
	accommodate higher batters; and/or • steepening batter slopes between the road pavement and the pipe headwall.			
7.3	<p>Implement a standard suite of design measures on all piped and box culvert drainage line crossings, as follows. • All pipes and culverts would be provided with inlet protection (in accordance with Chapter 5.4.3 of Landcom (2004)) made from locally-sourced rock cobbles. • All pipes and culverts would be provided with outlet protection, i.e. energy dissipators (in accordance with Standard Drawing 5-8 of Landcom (2004)), made from locally-sourced rock cobbles.</p> <p>Excess accumulations of sediment or leaf litter would be removed from pipes and culverts as works progress. • Where table drains discharge into watercourses or drainage depressions, the outlet point will be provided with scour protection in the form of riprap (or equivalent). • Where drainage lines show evidence of gulying deeper than 1.0m within 20m of the road crossing, batters would be graded back to 6H:1V and stabilised using appropriate erosion control measures and native vegetation would be planted in and around energy dissipation structures.</p>	During Stages 2 and 3 roadworks.		Noted
7.3	(Where the general crossing design works would require the construction of, or remedial work to, fill batters), undertake the works as follows. • Prevent stormwater runoff from drain down the fill batters. Where unavoidable, direct the water as sheet flow over sections of the fill batter vegetated using a hydromulch or equivalent erosion control measures. • Direct any concentrated flows via flumes constructed from suitably robust material, including flow arresting measures, and discharging onto an energy dissipater. • Fill batters would not exceed 2H:1V gradients. • Stabilise fill batters by compaction and use a hydromulch (or equivalent) to aid the establishment of grasses. • Install sediment fencing 1m from the toe of any batters.	During Stages 2 and 3 roadworks.	Stages 2 and 3 road works had not commenced at the date of this audit (October 2015).	Noted
7.5	Install table drains to manage stormwater runoff from the road pavement as specified by SEEC Morse McVey (2008).	During Stages 2 and 3 roadworks.		Noted
	<b>Manage erosion and sediment control during the road upgrading and construction works.</b>			
7.6	Minimise clearing of groundcover in advance of upgrading / construction activities.	During Stages 1 and 2 roadworks.	Clearing of groundcover was minimised in advance of road upgrading / construction activities	Compliant
7.7	Install sediment fencing, in accordance with Standard Drawing SD 6-8 of Landcom (2004) down-slope of any construction area until works are complete.	During Stages 1 and 2 roadworks.	Sediment fencing was installed in accordance with Standard Drawing SD 6-8 of Landcom (2004) down-slope of the Stage 1 construction area until works are complete.	Compliant

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SoC	Statement of Commitment	Timing	Comments	Compliance
7.8	Strip and stockpile topsoil, in accordance with Standard Drawing SD 4-1 of Landcom (2004), for later re-use.	During Stages 1 and 2 roadworks.	Top soil stripping and stockpiling occurred during Stage 1 road works in accordance with Standard Drawing SD 4-1 of Landcom (2004), for later re-use.	Compliant
7.9	Maintain upslope catchment length of exposed soil areas below 80m. Any slope length exceeding 80m should have a diversion bank, constructed in accordance with Standard Drawing SD 5-5 of Landcom (2004), to direct overland flows onto well protected, vegetated lands.	During Stages 1 and 2 roadworks.	Upslope catchment length of exposed soil areas were kept less than 80m where practicable. Any slope length exceeding 80m had a diversion bank, constructed in accordance with Standard Drawing SD 5-5 of Landcom (2004), to direct overland flows onto well protected, vegetated lands.	Compliant
7.10	Restrict construction traffic access to the minimum required for efficient operation of activities.	During Stages 1 and 2 roadworks.		Noted
7.11	Construct diversion banks to divert “clean” runoff from upslope of any construction areas. Discharges would be onto a stabilised, well-vegetated area, preferably using a level spreader or sill.	During Stages 1 and 2 roadworks.	Diversion banks were constructed to divert “clean” runoff from upslope of any Stage 1 road construction areas.	Compliant
7.12	Protect areas of concentrated flow (e.g. drainage pathways, table drains etc), using appropriate erosion control measures such as a biodegradable Rolled Erosion Control Product (RECP) (e.g. coconut fibre matting or jute matting).	As part of road upgrading and construction		Noted
7.13	Stabilise batters following construction or reshaping with vegetation.	As part of road upgrading and construction		Noted
7.14	Progressively establish a Vegetation Offset Area (VOA) as part of Project Site rehabilitation activities. The VOA would: • cover an area of 14.7ha; • be established through a combination of hand seeding and tube stock planting; • focus plantings on the reinstated drainage lines and topographically lower areas of the Project Site; • involve a mix of native Acacia, Eucalyptus and Casuarina species, specifically targeting the re-establishment of the White Box Yellow Box Blakely's Red Gum woodland community in some areas; • be planted at a density of between 1 000 and 2 000 trees per hectare. • be protected from stock by fencing for at least two years; • be watered regularly to promote survival; and • have signage erected identifying the area as a vegetation offset planting area for the management of water quality within the Sydney Drinking Water Catchment.	Ongoing as part of rehabilitation activities		Noted
8	<b>Noise</b>		<b><u>Refer to Project Approval Schedule 3 condition 3</u></b>	
	<b>All transport operations are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.</b>			
8.1	Prevent product deliveries until construction of the Bungonia Bypass is complete.	During Stage 1 roadworks		Noted

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SoC	Statement of Commitment	Timing	Comments	Compliance
8.2	Restrict product delivery truck movements to 20 per day until the road upgrading works are completed.	Following completion of Stage 1 roadworks		Noted
8.3	Adhere to the nominated hours of operation, i.e. no vehicles would arrive at the Project Site before 7:00am or leave the Project Site after 6:00pm.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 4</u></b>	Compliant Ongoing
8.4	Enforce driver adherence to all speed limits.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 27</u></b> The Drivers Code of Conduct prepared as Annexure D of the Traffic Management Plan specifies the speed limits of 80 km/hr on Jerarra and Oallen Ford Roads, and a speed of 60 km/hr on the Bungonia Bypass road.	Compliant Ongoing
8.5	Use only vehicles which employ the most up to-date noise/emission reducing technology as part of transport fleet.	Ongoing		Noted
8.6	Instruct all truck drivers to avoid the use of engine brakes when approaching the Project Site entrance.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 27</u></b> The Drivers Code of Conduct prepared as Annexure D of the Traffic Management Plan specifies drivers must "Limit the use of the engine brake and other noisy driving practices in built up areas".	Compliant Ongoing
8.7	Regularly service all trucks to ensure the power sound levels remain at or below the levels specified in the noise assessment for the EA.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 11 and EPL 13213 condition O2.1</u></b> All trucks are regularly serviced to ensure the power sound levels remain at or below the levels specified in the noise assessment for the EA	Compliant Ongoing
8.8	Ensure noise levels attributable to the construction and operation of the transport route (i.e. product transportation), complies with the nominated noise criteria at residences fronting the transport route, within Bungonia village and within audible range of the Bungonia By-pass.	Ongoing	<b><u>Refer to Project Approval Schedule 3 condition 3</u></b> Traffic noise generated by the project (after commencement of quarrying operations) does not exceed the traffic noise impact assessment criteria of 55 LAeq (15 minute).	Compliant Ongoing
9	<b>Air Quality</b>		<b><u>Refer to Project Approval Schedule 3 condition 7</u></b>	
	<b>Transport Route construction and road upgrading activities are undertaken without exceeding EPA air quality criteria or goals.</b>		<b><u>Refer to Project Approval Schedule 3 condition 7 Table 4, 5 and 6</u></b>	
9.1	Minimise clearing ahead of construction.	During Stages 1 and 2 roadworks		Noted
9.2	Minimise the number of stockpiles and restrict access to a single working face.	During Stages 1 and 2 roadworks		Noted
9.3	Compact stockpiles as material is removed or added to stockpiles.	During Stages 1 and 2 roadworks		Noted
9.4	Restrict all vehicles to designated routes within the Bungonia By-pass construction area with a speed limit of 20km/h.	During Stage 1 transport operations		Noted

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SoC	Statement of Commitment	Timing	Comments	Compliance
9.5	Clean dirt tracked onto the public road network.	During Stages 1 roadworks		<b>Noted</b>
	<b>Site activities are undertaken without exceeding EPA air quality criteria or goals.</b>		<i><u>Refer to Project Approval Schedule 3 condition 7 Table 4, 5 and 6</u></i>	
9.6	Stand down vehicles with smoky exhausts (more than 10 seconds) for maintenance.	Ongoing		<b>Noted</b>
9.7	(During hot, dry and/or windy conditions) limit topsoil stripping activities to that required for the ensuing days construction.	During Stages 1 and 2 roadworks		<b>Noted</b>
9.8	Avoid stripping soil in periods of high wind.	Ongoing		<b>Noted</b>
9.9	Apply water using a water cart to exposed surfaces.	During Stages 1 and 2 roadworks		<b>Noted</b>
10	<b>Flora and Fauna</b>			
	<b>Minimisation of long term impact on flora and fauna on and around the Project Site.</b>			
10.1	Minimise clearing and consistent with operational requirements.	During clearing		<b>Noted</b>
10.2	Inspect trees to be cleared prior to clearing to ensure no native fauna is in residence at the time.	Prior to clearing		<b>Noted</b>
10.3	Undertake vegetation clearing on a campaign basis to provide for construction operations.	Ongoing		
10.4	Clearly define all areas to be cleared.	Prior to clearing	Areas to be cleared are defined with survey markers.	<b>Compliant Ongoing</b>
10.5	Retain felled trees for use in rehabilitation of the final landform.	Ongoing		<b>Noted</b>
10.6	Construct appropriate drainage and erosion and sediment control features and implement procedures to prevent water containing high sediment levels from discharging from the transport route.	During construction	An environmental incident occurred on 16 February 2014 a rainfall event resulted in the discharge of water from a sediment basin constructed on northern side of Bungonia Creek into the creek. SEEC was engaged to provide recommendations for upgraded erosion and sediment control. The Company now undertakes regular inspections of the sediment basins of the Bungonia Bypass, including immediately following rainfall, with accumulated water pumped to a water truck and discharged to pasture on the "Ardmore Park" property.	<b>Compliant Ongoing</b>
10.7	Control noxious weeds at all times.	Ongoing	Weed management and control is practised across the Ardmore Park property on a regular basis.	<b>Noted</b>
11	<b>Aboriginal Heritage</b>			
	<b>Provide appropriate protection to identified Aboriginal artefacts.</b>			
11.1	Ensure the in-situ protection of the identified artefacts through workforce education.	Complete		

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SoC	Statement of Commitment	Timing	Comments	Compliance
11.2	Align the Bungonia By-pass to avoid the identified sites containing Aboriginal artefacts.	Prior to commencement of construction activities.	Bungonia By-pass alignment did not disturb any Aboriginal artefacts.	<b>Compliant</b>
11.3	Apply for the relevant permit to undertake test pitting over BPAD1 (in accordance with the recommendations of AASC (2008)).	Prior to commencement of construction activities.		<b>Noted</b>
	<b>Minimise potential to impact upon unidentified Aboriginal artefacts.</b>			
11.4	Invite Aboriginal monitors to site to review results of test pitting activities	Ongoing	Aboriginal consultation and representation at monitoring of the test pitting is covered in Aboriginal Heritage Management Plan section 4.2.	<b>Compliant Ongoing</b>
11.5	Cease work at any area if further Aboriginal objects are uncovered during the course of the project, and contact the OEH (NPWS) for advice.	Ongoing	No further Aboriginal objects are uncovered during the course of the road construction works.	<b>Noted</b>
	<b>Employees who are sensitive and respectful of possible identified Aboriginal sites and artefacts</b>			
11.6	Conduct a Cultural Heritage Awareness Induction Course for staff, contractors and any heritage monitors working on the Project Site.	Ongoing	Site induction includes a Cultural Heritage Awareness for staff and contractors working on the Project Site	<b>Compliant Ongoing</b>
	<b>Notification of Aboriginal Sites under Part 6 s91 NPWS Act.</b>			
11.7	Supply formal site cards for all identified Aboriginal artefacts to the OEH Aboriginal Heritage Information Management System (AHIMS) Registrar.	Following identification of an Aboriginal artefact or site.	Notification of Aboriginal artefacts and sites have been lodged with the OEH Aboriginal Heritage Information Management System (AHIMS) Register for identified heritage items.	<b>Compliant</b>

## Attachment C

### Environment Protection Licence - 13213

EPL 13213	Condition	Verification	Comments	Compliance									
<b>1</b>	<b>Administrative Conditions</b>												
<b>A1</b>	<b>What the licence authorises and regulates</b>												
<b>A1.,1</b>	This licence authorises the carrying out of the scheduled development work listed below at the premises listed in A2: Construction and testing of infrastructure, plant and equipment for quarrying operations.			<b>Noted</b>									
<b>A1.2</b>	<p>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.</p> <p>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.</p> <table border="1"> <thead> <tr> <th>Schedules Activity</th> <th>Fee Based Activity</th> <th>Scale</th> </tr> </thead> <tbody> <tr> <td>Crushing, grinding or separating</td> <td>Crushing, Grinding or Separating</td> <td>&gt; 100000 - 500000 T processed</td> </tr> <tr> <td>Extractive Activities</td> <td>Land-based extractive activity</td> <td>&gt; 100000 - 500000 T extracted, processed or stored</td> </tr> </tbody> </table>	Schedules Activity	Fee Based Activity	Scale	Crushing, grinding or separating	Crushing, Grinding or Separating	> 100000 - 500000 T processed	Extractive Activities	Land-based extractive activity	> 100000 - 500000 T extracted, processed or stored		The 'Ardmore Park' Quarry Project had not exceeded the scale of the scheduled activities specified in this condition.	<b>Compliant Ongoing</b>
Schedules Activity	Fee Based Activity	Scale											
Crushing, grinding or separating	Crushing, Grinding or Separating	> 100000 - 500000 T processed											
Extractive Activities	Land-based extractive activity	> 100000 - 500000 T extracted, processed or stored											
<b>A2</b>	<b>Premises or plant to which this licence applies</b>												
<b>A2.1</b>	<p>The licence applies to the following premises:</p> <table border="1"> <thead> <tr> <th>Premise Details</th> </tr> </thead> <tbody> <tr> <td>Ardmore Park Quarry 5152 Oallen Ford Road, Bungonia NSW 2580 Lot 24 DP 1001312</td> </tr> </tbody> </table>	Premise Details	Ardmore Park Quarry 5152 Oallen Ford Road, Bungonia NSW 2580 Lot 24 DP 1001312		The 'Ardmore Park' Quarry Project is located on Lot 24 DP 1001312 at 5152 Oallen Ford Road, Bungonia NSW.	<b>Compliant</b>							
Premise Details													
Ardmore Park Quarry 5152 Oallen Ford Road, Bungonia NSW 2580 Lot 24 DP 1001312													
<b>A3</b>	<b>Information supplied to the EPA</b>												
<b>A3.1</b>	<p>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.</p> <p>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</p>			<b>Noted</b>									

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Ardmore Park Quarry – Multiquip Quarries

EPL 13213	Condition	Verification	Comments	Compliance												
	b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence															
<b>2</b>	<b>Discharges to Air and Water and Applications to Land</b>															
<b>P1</b>	<b>Location of monitoring/discharge points and areas</b>															
<b>P1.1</b>	<p>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.</p> <p><i>Air</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">EPA ID No.</th> <th style="text-align: center;">Type of Monitoring Point</th> <th style="text-align: center;">Location Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">Dust Monitoring Point</td> <td>"Inverary Park" 550 Inverary Road, Bungonia, NSW 2580</td> </tr> <tr> <td style="text-align: center;">2</td> <td>"The Osiers" 5028 Oallen Ford Road, Bungonia, NSW 2580</td> </tr> <tr> <td style="text-align: center;">3</td> <td>"Lochmoor Lodge" 5046 Oallen Ford Road, Bungonia, NSW 2580</td> </tr> <tr> <td style="text-align: center;">4</td> <td>The primary private residence at 5199 Oallen Ford Road, Bungonia, NSW 2580</td> </tr> </tbody> </table> <p><i>Note: Monitoring points 1 to 4 are as detailed in the "Ardmore Park Air Quality Management Plan", prepared by R.W. Corkery &amp; Co. Pty Limited, July 2013.</i></p>	EPA ID No.	Type of Monitoring Point	Location Description	1	Dust Monitoring Point	"Inverary Park" 550 Inverary Road, Bungonia, NSW 2580	2	"The Osiers" 5028 Oallen Ford Road, Bungonia, NSW 2580	3	"Lochmoor Lodge" 5046 Oallen Ford Road, Bungonia, NSW 2580	4	The primary private residence at 5199 Oallen Ford Road, Bungonia, NSW 2580	<ul style="list-style-type: none"> <li>Environmental Monitoring Program, Sep 2010</li> <li>Air Quality Monitoring Program, Sep 2010</li> </ul>	Dust deposition gauges have been installed at the nominated EPA Identification sites and monitoring occurs in accordance with the 'Ardmore Park' Quarry Environmental Monitoring Program required under Project Approval 07_0155 Schedule 5 condition 2.	<b>Compliant</b>
EPA ID No.	Type of Monitoring Point	Location Description														
1	Dust Monitoring Point	"Inverary Park" 550 Inverary Road, Bungonia, NSW 2580														
2		"The Osiers" 5028 Oallen Ford Road, Bungonia, NSW 2580														
3		"Lochmoor Lodge" 5046 Oallen Ford Road, Bungonia, NSW 2580														
4		The primary private residence at 5199 Oallen Ford Road, Bungonia, NSW 2580														
<b>P1.2</b>	The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.			<b>Noted</b>												
<b>P1.3</b>	The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.			<b>Noted</b>												



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EPL 13213	Condition			Verification	Comments	Compliance																																				
	<p><i>Water and Land</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">EPA ID No.</th> <th style="text-align: center;">Type of Monitoring Point</th> <th style="text-align: center;">Location Description</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">5</td><td rowspan="20" style="text-align: center; vertical-align: middle;">Groundwater Monitoring Points</td><td style="text-align: center;">BHAP1</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">BHAP5</td></tr> <tr><td style="text-align: center;">7</td><td style="text-align: center;">BHAP6</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">BHAP7</td></tr> <tr><td style="text-align: center;">9</td><td style="text-align: center;">BHAP10</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">BH1</td></tr> <tr><td style="text-align: center;">11</td><td style="text-align: center;">BH2</td></tr> <tr><td style="text-align: center;">12</td><td style="text-align: center;">BH3</td></tr> <tr><td style="text-align: center;">13</td><td style="text-align: center;">BH4</td></tr> <tr><td style="text-align: center;">14</td><td style="text-align: center;">BH5</td></tr> <tr><td style="text-align: center;">15</td><td style="text-align: center;">BH6</td></tr> <tr><td style="text-align: center;">16</td><td style="text-align: center;">APS38</td></tr> <tr><td style="text-align: center;">17</td><td style="text-align: center;">APS39</td></tr> <tr><td style="text-align: center;">18</td><td style="text-align: center;">Phil's Spring</td></tr> <tr><td style="text-align: center;">19</td><td style="text-align: center;">Southern Spring</td></tr> <tr><td style="text-align: center;">20</td><td style="text-align: center;">Western Spring</td></tr> </tbody> </table> <p><i>Note: Monitoring points 5-20 are as detailed in the "Ardmore Park Water Management Plan", prepared by Strategic Environmental &amp; Engineering Consulting, and Larry Cook and Associates Pty Ltd, August 2010</i></p>			EPA ID No.	Type of Monitoring Point	Location Description	5	Groundwater Monitoring Points	BHAP1	6	BHAP5	7	BHAP6	8	BHAP7	9	BHAP10	10	BH1	11	BH2	12	BH3	13	BH4	14	BH5	15	BH6	16	APS38	17	APS39	18	Phil's Spring	19	Southern Spring	20	Western Spring	<ul style="list-style-type: none"> <li>Environmental Monitoring Program, Sep 2010</li> <li>Water Management Plan, Aug 2010</li> <li>Groundwater Monitoring Program, Feb 2010</li> </ul>	<p>The Environmental Monitoring Program includes monitoring in the nominated EPA Identification bores listed in the Water and Land table:</p> <p>Water Level Monitoring – Automatic Hard Rock Production Bore and Monitoring Bores BHAP 1, BHAP 6, BHAP 7</p> <p>Water Level Monitoring – Manual Hard Rock Production Bore and Monitoring Bores BHAP 5, BHAP 10</p> <p>Water Level Monitoring – Automatic Sand Monitoring Bores BH 1, BH 2, BH 5, BH 7</p> <p>Spring Flow Monitoring – "V" Notch level Phil's Spring</p> <p>Spring Flow Monitoring – "V" Notch level Southern Spring, Western Spring</p> <p>Water Quality Monitoring – Automatic Hard Rock Production Bore and Monitoring Bores – Field / Laboratory BHAP 1, BHAP 6, BHAP 7</p> <p>Water Quality Monitoring – Automatic Sand Monitoring Bores – Field / Laboratory BH 1, BH 2, BH 5, BH 7</p> <p>Several bores (BH1, BH2, BH5, BH7 and BHAP7) were not sampled in January and June 2015 due the piezometers being destroyed or requiring redevelopment due to disturbance of the areas during site establishment activities associated with the quarry.</p> <p>The Groundwater Monitoring, Sampling and Testing Report June 2015 recommended that sand monitoring bores BH1 and BH7 by reinstalled, BH2 and BH5 be redeveloped, and site investigation be continued for the location of BHAP7. The monitoring bores were re-instated by Larry Cook &amp; Associates.</p>	<p><b>Compliant Ongoing</b></p>
EPA ID No.	Type of Monitoring Point	Location Description																																								
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<b>3</b>		<b>Limit Conditions</b>																																								
<b>L1</b>		<b>Pollution of waters</b>																																								
<b>L1.1</b>		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.			<ul style="list-style-type: none"> <li>Protection of the Environment Operations Act 1997, section 120</li> </ul>		<b>Noted</b>																																			
<b>L2</b>		<b>Waste</b>																																								

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Ardmore Park Quarry – Multiquip Quarries

EPL 13213	Condition	Verification	Comments	Compliance																											
<b>L2.1</b>	<p>The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below. Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below. Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below. This condition does not limit any other conditions in this licence.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 10%;">Code</th> <th style="width: 15%;">Waste</th> <th style="width: 30%;">Description</th> <th style="width: 45%;">Activity</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">NA</td> <td>Virgin excavated natural material (VENM)</td> <td>As defined in Schedule 1 of the POEO Act, in force from time to time.</td> <td>Waste disposal (application to land) Waste storage</td> </tr> </tbody> </table>	Code	Waste	Description	Activity	NA	Virgin excavated natural material (VENM)	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land) Waste storage	<ul style="list-style-type: none"> <li>Waste Classification Guidelines, Nov 2014</li> <li><i>Protection of the Environment Operations Act 1997</i> Schedule 1</li> </ul>	<p>Only VENM as defined in Schedule 1 of the <i>Protection of the Environment Operations Act 1997</i> Schedule 1 would be received at the Ardmore Park Quarry site to create a final landform equivalent to that of the pre-project environment, after extraction of the quarry material.</p>	<b>Noted</b>																			
Code	Waste	Description	Activity																												
NA	Virgin excavated natural material (VENM)	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land) Waste storage																												
<b>L3</b>	<b>Noise Limits</b>																														
L3.1	<p>Noise generated at the premises must not exceed the noise limits presented in the table below:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;">Noise Assessment Location</th> <th style="width: 55%;">Address</th> <th style="width: 30%;">LAeq (15 minute)</th> </tr> </thead> <tbody> <tr> <td>Residence 1</td> <td>"Reevesdale" 346 Inverary Road, Bungonia, NSW 2580</td> <td style="text-align: center;">35</td> </tr> <tr> <td>Residence 2</td> <td>"Inverary" 590 Inverary Road, Bungonia, NSW 2580</td> <td style="text-align: center;">35</td> </tr> <tr> <td>Residence 3</td> <td>"Inverary Park" 550 Inverary Road, Bungonia, NSW 2580</td> <td style="text-align: center;">35</td> </tr> <tr> <td>Residence 4</td> <td>"Damar Lodge" 5025 Oallen Ford Road, Bungonia, NSW 2580</td> <td style="text-align: center;">35</td> </tr> <tr> <td>Residence 5</td> <td>"The Osiers" 5028 Oallen Ford Road, Bungonia, NSW 2580</td> <td style="text-align: center;">35</td> </tr> <tr> <td>Residence 6</td> <td>"Lochmoor Lodge" 5046 Oallen Ford Road, Bungonia, NSW 2580</td> <td style="text-align: center;">36</td> </tr> <tr> <td>Residence 8</td> <td>"Lumley Park" Bungonia, NSW 2580</td> <td style="text-align: center;">35</td> </tr> <tr> <td>Residence 9</td> <td>The primary private residence at 5199 Oallen Ford Road, Bungonia, NSW 2580</td> <td style="text-align: center;">35</td> </tr> </tbody> </table>	Noise Assessment Location	Address	LAeq (15 minute)	Residence 1	"Reevesdale" 346 Inverary Road, Bungonia, NSW 2580	35	Residence 2	"Inverary" 590 Inverary Road, Bungonia, NSW 2580	35	Residence 3	"Inverary Park" 550 Inverary Road, Bungonia, NSW 2580	35	Residence 4	"Damar Lodge" 5025 Oallen Ford Road, Bungonia, NSW 2580	35	Residence 5	"The Osiers" 5028 Oallen Ford Road, Bungonia, NSW 2580	35	Residence 6	"Lochmoor Lodge" 5046 Oallen Ford Road, Bungonia, NSW 2580	36	Residence 8	"Lumley Park" Bungonia, NSW 2580	35	Residence 9	The primary private residence at 5199 Oallen Ford Road, Bungonia, NSW 2580	35	<ul style="list-style-type: none"> <li>Noise Monitoring Program, May 2010</li> <li>Environmental Monitoring Program, Sep 2010</li> <li>Ardmore Park Quarry Noise Investigation, SLR, Mar 2016</li> </ul>	<p>The Environmental Monitoring Program identifies residences 6 ('Lochmoor Lodge') and 9 (The primary private residence at 5199 Oallen Ford Road, Bungonia) for noise measurements to be conducted annually after all components of the project are operating, in accordance with the Noise Monitoring Program section 3 and 4.</p> <p>Noise monitoring was conducted at Residence 6 on 25 September 2015 (attended monitoring) and the period of 23 October to 17 November 2015 (triggered events) following complaints from Residence 6. A review of the operator attended and resident triggered noise events found that the LAeq(15minute) noise emissions from the quarry ranged from less than 15 dBA, when the quarry was not discernible above the ambient noise environment, to 35 dBA, when the quarry was continually discernible. Accordingly, the noise emissions from the quarry comply with the 36 dBA LAeq(15minute) Project Approval Noise Limit at Residence 6.</p>	<b>Compliant</b>
Noise Assessment Location	Address	LAeq (15 minute)																													
Residence 1	"Reevesdale" 346 Inverary Road, Bungonia, NSW 2580	35																													
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EPL 13213	Condition	Verification	Comments	Compliance													
<b>L3.2</b>	Noise generated by the project is to be measured in accordance with the relevant requirements of the NSW Industrial Noise Policy.			<b>Noted</b>													
<b>L4</b>	<b>Hours of operation</b>																
<b>L4.1</b>	<p>The licensee must comply with the operating hours in the Table below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Activity</th> <th style="text-align: center;">Day</th> <th style="text-align: center;">Time</th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="vertical-align: top;">Construction Work</td> <td>Monday - Friday</td> <td>7.00am to 6.00pm</td> </tr> <tr> <td>Saturday Sunday and Public Holidays</td> <td>8.00am to 1.00pm None</td> </tr> <tr> <td rowspan="2" style="vertical-align: top;">Quarrying, processing (including overburden removal) and product transportation</td> <td>Monday - Friday</td> <td>7.00am to 6.00pm</td> </tr> <tr> <td>Saturday Sunday and Public Holidays</td> <td>8.00am to 1.00pm None</td> </tr> </tbody> </table>	Activity	Day	Time	Construction Work	Monday - Friday	7.00am to 6.00pm	Saturday Sunday and Public Holidays	8.00am to 1.00pm None	Quarrying, processing (including overburden removal) and product transportation	Monday - Friday	7.00am to 6.00pm	Saturday Sunday and Public Holidays	8.00am to 1.00pm None		Construction and quarry operations have been conducted in accordance with the hours of operation specified in EPL condition L4.1, Project Approval Schedule 3 condition 4 and Statement of Commitment 2 – Operating Hours.	<b>Compliant Ongoing</b>
Activity	Day	Time															
Construction Work	Monday - Friday	7.00am to 6.00pm															
	Saturday Sunday and Public Holidays	8.00am to 1.00pm None															
Quarrying, processing (including overburden removal) and product transportation	Monday - Friday	7.00am to 6.00pm															
	Saturday Sunday and Public Holidays	8.00am to 1.00pm None															
<b>4</b>	<b>Operating Conditions</b>																
<b>O1</b>	<b>Activities must be carried out in a competent manner</b>																
<b>O1.1</b>	<p>Licensed activities must be carried out in a competent manner. This includes:</p> <p>a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and</p> <p>b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity</p>		The current crushing, screening, handling, movement and storage of materials and substances associated with the activities conducted on the Ardmore Park Quarry site are carried out in a competent manner.	<b>Compliant Ongoing</b>													
<b>O2</b>	<b>Maintenance of plant and equipment</b>																
<b>O2.1</b>	<p>All plant and equipment installed at the premises or used in connection with the licensed activity:</p> <p>a) must be maintained in a proper and efficient condition;</p> <p>b) must be operated in a proper and efficient manner.</p>		Plant and equipment at the premises used in connection with the quarry activities is maintained in and operated in a proper and efficient manner.	<b>Compliant Ongoing</b>													
<b>O3</b>	<b>Dust</b>																
<b>O3.1</b>	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.		Quarry operations are managed to minimise dust generation from the activities. DP&E received a complaint in 2014 related to dust, but no further complaints have been received by Multiquip.	<b>Compliant Ongoing</b>													
<b>O4</b>	<b>Processes and management</b>																
<b>O4.1</b>	The activities carried out at the premises must be undertaken in accordance with the "Ardmore Park Quarry Water Management Plan", prepared by R.W. Corkery & Co. Pty Limited, Strategic Environmental and Engineering Consulting and Larry Cook & Associates Pty Ltd August, 2010.	<ul style="list-style-type: none"> <li>"Ardmore Park Quarry Water Management Plan, Aug 2010</li> </ul>	Activities carried out at the Ardmore Park Quarry are undertaken in accordance with the Water Management Plan.	<b>Compliant Ongoing</b>													

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Ardmore Park Quarry – Multiquip Quarries

EPL 13213	Condition	Verification	Comments	Compliance								
<b>5</b>	<b>Monitoring and Recording Conditions</b>											
<b>M1</b>	<b>Monitoring records</b>											
<b>M1.1</b>	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.			<b>Noted</b>								
<b>M1.2</b>	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.		All records of monitoring conducted for the Ardmore Park Quarry are in a legible form, and all results are retained by Multiquip Quarries.	<b>Compliant Ongoing</b>								
<b>M1.3</b>	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		Monitoring of dust, surface and groundwater is conducted by sub-consultants and the records and data collected is reported to Multiquip. The data files are retained by the Multiquip environmental management personnel.	<b>Compliant Ongoing</b>								
<b>M2</b>	<b>Requirement to monitor concentration of pollutants discharged</b>											
<b>M2.1</b>	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:			<b>Noted</b>								
<b>M2.2</b>	<p><i>Air Monitoring Requirements</i> <b>Points 1, 2, 3 and 4</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Pollutant</th> <th style="text-align: center;">Unit of Measure</th> <th style="text-align: center;">Frequency</th> <th style="text-align: center;">Sampling Method</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Particulates - Deposited Matter</td> <td style="text-align: center;">g/m<sup>2</sup>/mth</td> <td style="text-align: center;">Monthly</td> <td style="text-align: center;">AS 3580.10.1-2003</td> </tr> </tbody> </table>	Pollutant	Unit of Measure	Frequency	Sampling Method	Particulates - Deposited Matter	g/m <sup>2</sup> /mth	Monthly	AS 3580.10.1-2003	<ul style="list-style-type: none"> <li>AS3580.10.1-2003</li> <li><i>Approved Methods for the Sampling and Analysis of Air Pollutants in NSW</i> (DECC).</li> <li>Air Quality Monitoring Program, Sep 2010</li> </ul>	Dust deposition is monitored in accordance with AS3580.10.1-2003, <i>Approved Methods for the Sampling and Analysis of Air Pollutants in NSW</i> (DECC), and the Air Quality Monitoring Program. Dust deposition gauges have been installed at the nominated EPA Identification sites 1 to 4 and monitoring occurs in accordance with the Environmental Monitoring Program and the Air Quality Monitoring Program.	<b>Compliant Ongoing</b>
Pollutant	Unit of Measure	Frequency	Sampling Method									
Particulates - Deposited Matter	g/m <sup>2</sup> /mth	Monthly	AS 3580.10.1-2003									
<b>M2.3</b>	<i>Water and/ or Land Monitoring Requirements</i> <b>Points 5 to 20</b>	<ul style="list-style-type: none"> <li>Environmental Monitoring Program, Sep 2010</li> </ul>	Groundwater monitoring, sampling and analysis has been conducted by Larry Cook Consulting in January and July 2015. The monitoring was	<b>Non-Compliance (Low Risk)</b>								

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Ardmore Park Quarry – Multiquip Quarries

EPL 13213	Condition				Verification	Comments	Compliance
	<b>Pollutant</b>	<b>Unit of Measure</b>	<b>Frequency</b>	<b>Sampling Method</b>	<ul style="list-style-type: none"> <li>Water Management Plan, Aug 2010</li> <li>Groundwater Monitoring Program, Feb 2010</li> <li>Groundwater Monitoring, Sampling and Testing Reports, Larry Cook Consulting, January / July 2015</li> </ul>	conducted from the available piezometers nominated in EPL condition P1.3. The baseline groundwater data should be collected from all bores nominated in EPL condition P1.3 Several bores (BH1, BH2, BH5, BH7 and BHAP7) were not sampled due the piezometers being destroyed or requiring redevelopment due to disturbance of the areas during site establishment activities associated with the quarry. The Groundwater Monitoring, Sampling and Testing Report June 2015 recommended that sand monitoring bores BH1 and BH7 be reinstalled, BH2 and BH5 be redeveloped, and site investigation be continued for the location of BHAP7.	
	Alkalinity	mg/l	Yearly	Grab Sample			
	Benzene	mg/l	Yearly				
	Calcium	mg/l	Yearly				
	Chloride	mg/l	Yearly				
	EC	deciSiemens/m	Yearly				
	Ethyl benzene	mg/l	Yearly				
	Fluoride	mg/l	Yearly				
	Iron	mg/l	Yearly				
	Magnesium	mg/l	Yearly				
	Manganese	mg/l	Yearly				
	pH	pH Units	Yearly				
	Potassium	mg/l	Yearly				
	Sodium	mg/l	Yearly				
	Sulfate	mg/l	Yearly				
	Toluene	mg/l	Yearly				
	TDS	mg/l	Yearly				
	TPH	mg/l	Yearly				
	Xylene	mg/l	Yearly				
<b>M3</b>	<b>Testing methods - concentration limits</b>						
<b>M3.1</b>	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; 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. <i>Note: The Protection of the Environment Operations (Clean Air) Regulation 2010 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".</i>				<ul style="list-style-type: none"> <li><i>Approved Methods for the Sampling and Analysis of Air Pollutants in NSW, DECC</i></li> </ul>	Monitoring and analysis of samples collected as part of the 'Ardmore Park' Quarry environmental monitoring program occurs in accordance with the approved methods with analysis undertaken by NATA registered laboratories.	<b>Compliant Ongoing</b>

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EPL 13213	Condition	Verification	Comments	Compliance																			
<b>M3.2</b>	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.			<b>Noted</b>																			
<b>M4</b>	<b>Weather monitoring</b>																						
<b>M4.1</b>	<p>The licensee shall ensure that a meteorological station is in operation at the premises which is capable of continuously recording the meteorological parameters in the following table:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Measured Parameter</th> <th style="text-align: center;">Unit</th> <th style="text-align: center;">Sample Interval</th> </tr> </thead> <tbody> <tr> <td>Average Temperature</td> <td>Degrees</td> <td rowspan="8" style="text-align: center; vertical-align: middle;">10 minutes</td> </tr> <tr> <td>Average relative humidity</td> <td>Percent</td> </tr> <tr> <td>Rainfall (10minutes)</td> <td>mm</td> </tr> <tr> <td>Aggregate rainfall</td> <td>mm</td> </tr> <tr> <td>Average wind speed</td> <td>km/h</td> </tr> <tr> <td>Std wind speed</td> <td>km/h</td> </tr> <tr> <td>Average wind direction</td> <td>Degrees</td> </tr> <tr> <td>Sigma Theta</td> <td>Degrees</td> </tr> </tbody> </table>	Measured Parameter	Unit	Sample Interval	Average Temperature	Degrees	10 minutes	Average relative humidity	Percent	Rainfall (10minutes)	mm	Aggregate rainfall	mm	Average wind speed	km/h	Std wind speed	km/h	Average wind direction	Degrees	Sigma Theta	Degrees	A meteorological station operated at the Ardmore Park Quarry site, and continuously records the meteorological parameters required in condition M4.1	<b>Compliant Ongoing</b>
Measured Parameter	Unit	Sample Interval																					
Average Temperature	Degrees	10 minutes																					
Average relative humidity	Percent																						
Rainfall (10minutes)	mm																						
Aggregate rainfall	mm																						
Average wind speed	km/h																						
Std wind speed	km/h																						
Average wind direction	Degrees																						
Sigma Theta	Degrees																						
<b>M5</b>	<b>Recording of pollution complaints</b>																						
<b>M5.1</b>	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.			<b>Noted</b>																			
<b>M52.</b>	<p>The record must include details of the following:</p> <p>a) the date and time of the complaint;</p> <p>b) the method by which the complaint was made;</p> <p>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;</p> <p>d) the nature of the complaint;</p> <p>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.</p>	<ul style="list-style-type: none"> <li>• Environmental Management Strategy, section 6.2, Aug 2011</li> </ul>	<p>Complaint receipt and response procedure is outlined in the Environmental Management Strategy, section 6.2, to receive, record and respond to any complaints in a timely manner, Multiquip has established a 24hour telephone complaints line for the purpose of receiving complaints from any member of the public in relation to its activities. All complaints are to be registered in a database with the following information recorded:</p> <ul style="list-style-type: none"> <li>• date / time the complaint</li> <li>• complainant's name;</li> <li>• complainants telephone number;</li> <li>• nature of complaint and</li> <li>• action taken.</li> </ul>	<b>Compliant Ongoing</b>																			

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EPL 13213	Condition	Verification	Comments	Compliance
<b>M5.3</b>	The record of a complaint must be kept for at least 4 years after the complaint was made.			<b>Noted</b>
<b>M5.4</b>	The record must be produced to any authorised officer of the EPA who asks to see them			<b>Noted</b>
<b>M6</b>	<b>Telephone complaints line</b>			
<b>M6.1</b>	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.		Multiquip Quarries provide a telephone contact number on their website (02 9606 9011) and an email contact for online – <a href="mailto:info@multiquip.com.au">info@multiquip.com.au</a> .	<b>Compliant</b>
<b>M6.2</b>	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.		The telephone complaints line is shown on the sign board at the entrance to the Ardmore Park Quarry site, and on the Company website.	<b>Compliant</b>
<b>M6.3</b>	The preceding two conditions do not apply until 3 months after: a) the date of the issue of this licence or b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.			<b>Noted</b>
<b>6</b>	<b>Reporting Conditions</b>			
<b>R1</b>	<b>Annual return documents</b> <i>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.</i> <i>Note: An application to transfer a licence must be made in the approved form for this purpose.</i>			<b>Noted</b>
<b>R1.1</b>	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: a) a Statement of Compliance; and b) a Monitoring and Complaints Summary. At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA	<ul style="list-style-type: none"> <li>EPL 13213 Annual Return, 20 Oct 2014</li> <li>Draft EPL 13213 Annual Return, 8 Oct 2015</li> </ul>	EPL 13213 Annual Return for 21 August 2013 to 20 August 2014 included a Statement of Compliance and a Monitoring and Complaints Summary. The Annual Return was submitted to the EPA on 20 Oct 2014. (Note: The EPL 13213 Annual Return for 21 August 2014 to 20 August 2015 was being prepared at the date of this audit).	<b>Compliant Ongoing</b>
<b>R1.2</b>	An Annual Return must be prepared in respect of each reporting period, except as provided below.	<ul style="list-style-type: none"> <li>EPL 13213 Annual Return, 20 Oct 2014</li> </ul>	The EPL 13213 Annual Return is prepared for the period 21 August to 20 August.	<b>Noted</b>
<b>R1.3</b>	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			<b>Not applicable</b>

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	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.			
<b>R1.4</b>	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.			<b>Not applicable</b>
<b>R1.5</b>	The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	<ul style="list-style-type: none"> <li>EPL 13213 Annual Return, 20 Oct 2014</li> </ul>	The Annual Return has been provided to the EPA not later than 60 days after the end of the reporting period (i.e. by 20 October).	<b>Compliant Ongoing</b>
<b>R1.6</b>	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.	<ul style="list-style-type: none"> <li>EPL 13213 Annual Return, 20 Oct 2014</li> </ul>	Multiquip retain a copy of the Annual Return in the company files.	<b>Noted</b>
<b>R1.7</b>	Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	<ul style="list-style-type: none"> <li>EPL 13213 Annual Return, 20 Oct 2014</li> </ul>	The EPL Annual Return includes a Statement of Compliance and the Monitoring and Complaints Summary, signed by the licence holder.	<b>Compliant Ongoing</b>
<b>R1.8</b>	A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.			<b>Noted</b>
<b>R2</b>	<b>Notification of environmental harm</b> 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			
<b>R2.1</b>	Notifications must be made by telephoning the Environment Line service on 131 555.			<b>Noted</b>
<b>R2.2</b>	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.		Multiquip notified the EPA of an incident resulting from release of water to the Bungonia Creek during an intense rain event on 16 February 2014.	<b>Compliant</b>
<b>R3</b>	<b>Written report</b>			



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EPL 13213	Condition	Verification	Comments	Compliance
<b>R3.1</b>	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.		The EPA inspected the site of the discharge on the 17 February 2014 but was not able to confirm a pollution incident had occurred. The Sydney Catchment Authority (now Water NSW) also inspected the site on the 17 February 2014 and considered the discharge constituted a pollution incident under the <i>Protection of the Environment Operations Act 1997</i> section 120. In the opinion of the SCA, effective erosion and sediment controls were not installed to prevent sediment from entering Bungonia Creek.	<b>Compliant</b>
<b>R3.2</b>	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.			<b>Noted</b>
<b>R3.3</b>	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.		On 16 February 2014 a rainfall event resulted in the discharge of water from a sediment basin constructed on northern side of Bungonia Creek into the creek. The EPA and SCA were notified of the incident and conducted a site inspection. Multiquip prepared a report on the incident and commissioned SEEC to develop a management plan for the control or erosion and sediment loss from the road construction works. It was the conclusion of the Sydney Catchment Authority (SCA) (now Water NSW), following an inspection of the construction site on 17 February 2014, that this constituted a pollution incident. The Company was also advised in the opinion of the SCA, effective erosion and sediment controls were not installed to prevent sediment from entering Bungonia Creek. The SCA determined that the Company had breached Section 120 of the <i>Protection of the Environment Operations Act 1997</i> and issued a clean-up notice to the Company.	<b>Noted</b>
<b>R3.4</b>	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.			<b>Noted</b>
<b>7</b>	<b>General conditions</b>			

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EPL 13213	Condition	Verification	Comments	Compliance
<b>G1</b>	Copy of licence kept at the premises or plant			
<b>G1.1</b>	A copy of this licence must be kept at the premises to which the licence applies.	<ul style="list-style-type: none"><li>Environment Protection Licence No. 13213</li></ul>	A copy of the Environment Protection Licence 13213 is available at the Ardmore Park Quarry office.	<b>Compliant</b>
<b>G1.2</b>	The licence must be produced to any authorised officer of the EPA who asks to see it.			<b>Noted</b>
<b>G1.3</b>	The licence must be available for inspection by any employee or agent of the licensee working at the premises.			<b>Noted</b>