

# Appendices

(No. of pages including blank pages = 34)

- |            |   |
|------------|---|
| Appendix 1 | Major Project Application   |
| Appendix 2 | Coverage of Director-General's Requirements and Requirements of Other Government Agencies |
| Appendix 3 | November 2009 Newsletter and Feedback Form  |



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# Appendix 1

## Major Project Application

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## Major project application



NSW GOVERNMENT  
Department of Planning

Date duly made: \_\_\_\_/\_\_\_\_/\_\_\_\_

Project application no. \_\_\_\_\_

### 1. Before you lodge

This form is required to apply for the approval of the Minister to carry out a project to which Part 3A of the *Environmental Planning and Assessment Act 1979* (the Act) applies.

Before lodging this application, it is recommended that you first consult with the Department of Planning (the Department) concerning your project.

A Planning Focus Meeting may need to be held for this project involving the Department, relevant agencies, council or other groups identified by the Department. If a Planning Focus Meeting is held, the Department will issue the Director-General's requirements for the Environmental Assessment following the meeting.

#### Disclosure statement

Persons lodging applications are required to declare reportable political donations (including donations of or more than \$1,000) made in the previous two years.

For more details, including a disclosure form, go to [www.planning.nsw.gov.au/donations](http://www.planning.nsw.gov.au/donations)

#### Lodgement

All applications must be lodged with the Director-General of the Department of Planning, by courier or mail. An electronic copy should also be emailed to the assessment contact officer assigned to the project.

NSW Department of Planning  
Ground floor, 23-33 Bridge Street, Sydney NSW 2000  
GPO Box 39 Sydney NSW 2001  
DX 10181 Sydney Stock Exchange  
Phone 1300 305 695

### 2. Details of the proponent

Company/organisation/agency

The Austral Brick Company

ABN

52 000 005 550

☒ Mr ☐ Ms ☐ Mrs ☐ Dr ☐ Other

First name

Christopher

Family name

Bryant

Position

Property Project Manager

#### STREET ADDRESS

Unit/street no.

738 - 780

Street name

Wallgrove Road

Suburb or town

Horsley Park

State

NSW

Postcode

2164

POSTAL ADDRESS (or mark 'as above')

P.O. Box 6550

Suburb or town

Wetherill Park

State

NSW

Postcode

1851

Daytime telephone

02 9830 7879

Fax

02 9821 2383

Mobile

0410 422 306

Email

chris.bryant@australbricks.com.au



### 3. Identify the land you propose to develop

STREET ADDRESS (where relevant)

Unit/street no.

1

Street or property name

Berrima Road

Suburb, town or locality

New Berrima

Postcode

2577

Local government area(s)

Wingecarribee

State electorate(s)

Goulburn

REAL PROPERTY DESCRIPTION

1/414246

Note: The real property description is found on a map of the land or on the title documents for the land. If you are unsure of the real property description, you should contact the Department of Lands.

Please ensure that you place a slash (/) to distinguish between the lot, section, DP and strata numbers. If the project applies to more than one piece of land, please use a comma to distinguish between each real property description.

OR detailed description of land attached ☐

MAP: A map of the site and locality should also be submitted with this application.

### 4. Major project description and other requirements

Provide a brief title for your project.

New Berrima Clay/Shale Quarry

#### PROJECT APPROVAL

If you are applying for approval of a project, include in the project title, all significant components for which approval is being sought. If the application relates to part only of a project, the project title should reflect this.

Is the application for approval of a project?

☒ Yes ☐ No

Is the application related to part only of a project?

☐ Yes ☒ No

#### CONCEPT PLAN APPROVAL

If you are applying for approval of a concept plan, include in the project title, all components for which approval 'in concept' is being sought. If the application also relates to approval of a project, a description of this should also be included in the project title.

Is the application for approval of a Concept Plan?

☒ Yes ☐ No

Is a project application being made concurrently for all or part of the project?

☒ Yes ☐ No

**You are also required to provide a Project Description and address any matters required by the Director-General in accordance with section 75E or section 75M of the Act. Failure to do so may lead to your application being rejected.**

Is a Project Description attached?

☒ Yes ☐ No

Does the Project Description include any additional matters required by the Director-General under section 75E or section 75M of the Act?

☒ Yes ☐ No

Note: An electronic copy of the project description is also required as all applications must be provided on the Department's website. You should contact the Department on the correct electronic format.



#### ESTIMATED CAPITAL INVESTMENT VALUE

Please indicate the estimated capital investment value (CIV) of the project. The CIV includes all costs necessary to establish and operate the project, including the design and construction of buildings, structures, associated infrastructure and fixed or mobile plant and equipment (but excluding GST and land costs).

\$200,000.00

#### EQUIVALENT FULL-TIME JOBS

Please indicate the number of jobs created by the project. This should be expressed as a proportion of full time jobs over a full year:

Construction jobs (full-time equivalent)

3

Operational jobs (full-time equivalent)

2

### 5. Approvals from State agencies

Does the project require any of the following: (tick all that are appropriate)

- ☐ an aquaculture permit under section 144 of the *Fisheries Management Act 1994*
- ☒ an approval under section 15 of the *Mine Subsidence Compensation Act 1961*
- ☒ a mining lease under the *Mining Act 1992*
- ☐ a production lease under the *Petroleum (Onshore) Act 1991*
- ☒ an environment protection licence under Chapter 3 of the *Protection of the Environment Operations Act 1997* (for any of the purposes referred to in section 43 of that Act)
- ☒ a consent under section 138 of the *Roads Act 1993*
- ☐ a licence under the *Pipelines Act 1967*

### 6. Landowner's consent or notification

As the owner(s) of the above property, I/we consent to this application being made on our behalf by the proponent:

Land

1/414246

Land

Signature

*Chris Bryant*

Signature

Name

Chris Bryant

Name

Date

17/11/08

Date

Note: Under clause 8F of the *Environmental Planning and Assessment Regulation 2000* (the Regulation), certain applications for approval under Part 3A of the Act do not require the consent of the landowner, however, the proponent is required to give notice of the application:

- in the case of linear infrastructure projects, by notice in a newspaper circulating in the locality prior to the commencement of the public consultation period;
- in the case of mining or petroleum production projects, by notice in a newspaper circulating in the locality within 14 days of this application being made;
- in the case of critical infrastructure projects, to the owner of the land within 14 days of this application being made, and;
- in other cases, to the owner of the land at any time before the application is made.



**7. Political donation disclosure statement**

Persons lodging applications are required to declare reportable political donations (including donations of or more than \$1,000) made in the previous two years. Disclosure statements are to be submitted with your application or request.

Have you attached a disclosure statement to this application?

☒ Yes

☐ No

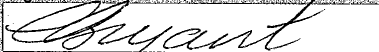
Note: For more details about political donation disclosure requirements, including a disclosure form, go to [www.planning.nsw.gov.au/donations](http://www.planning.nsw.gov.au/donations).

**8. Proponent's signature**

As the proponent(s) of the project and in signing below, I/we hereby:

- provide a description of the project and address all matters required by the Director-General pursuant to section 75E and/or section 75M of the Act, and
- apply, subject to satisfying clause 8D of the Environmental Planning and Assessment Regulation, for the Director-General's environmental assessment requirements pursuant to Part 3A of the Act, and
- declare that all information contained within this application is accurate at the time of signing.

Signature



Name

Chris Bryant

Date

17/11/08

In what capacity are you signing if you are not the proponent

Name, if you are not the proponent





# Appendix 2

## Coverage of Director-General's Requirements and Requirements of Other Government Agencies

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NSW GOVERNMENT  
**Department of Planning**

**Major Project Assessment  
Industry & Mining**  
Phone: (02) 9228 6298  
Fax: (02) 9228 6466  
Email: [kane.winwood@planning.nsw.gov.au](mailto:kane.winwood@planning.nsw.gov.au)  
23-33 Bridge Street  
GPO Box 39  
SYDNEY NSW 2001

Our ref: S08/01473

Mr Adam Davies  
Property Development Manager  
Austral Bricks Pty Ltd  
PO Box 6550  
WETHERILL PARK NSW 1851

Dear Mr Davies

**New Berrima Clay Shale Project  
Director-General's Requirements**

The Department has received your application for the New Berrima Clay Shale Project.

I have attached a copy of the Director-General's requirements for the project. These requirements have been prepared in consultation with relevant agencies, and are based on the information that you have provided to date. I have also attached a copy of the agencies' comments for your information.

Please note that the Director-General may alter these requirements at any time.

If your proposal is likely to have a significant impact on matters of National Environmental Significance, it will require an approval under the Commonwealth *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act). This approval is in addition to any approvals required under NSW legislation. It is your responsibility to contact the Department of the Environment, Water, Heritage and the Arts in Canberra (6274 1111 or <http://www.environment.gov.au>) to determine if the project will require an approval under the EPBC Act. The Commonwealth Government has accredited the NSW environmental assessment process, so if it is determined that an approval is required under the EPBC Act, please contact the Department immediately as supplementary Director-General's requirements may need to be issued.

I would appreciate it if you would contact the Department at least two weeks before you propose to submit your Environmental Assessment of the project. This will allow the Department to determine the:

- applicable fee (see Division 1A, Part 15 of the *Environmental Planning & Assessment Regulation 2000*); and
- number of copies (hard-copy or CD-ROM) of the Environmental Assessment required for exhibition purposes.

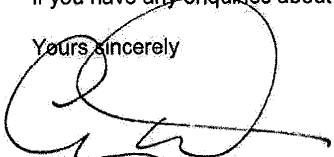
Once it receives the Environmental Assessment, the Department will review it in consultation with the relevant agencies to determine if it adequately addresses the Director-General's requirements, and may require you to revise it prior to public exhibition.



The Department is required to make all the relevant information associated with the project publicly available on its website. Consequently, I would appreciate it if you would ensure that all the documents you subsequently submit to the Department are in a suitable format for the web, and arrange for an electronic version of the Environmental Assessment to be hosted on a suitable website during the exhibition period.

If you have any enquiries about these requirements, please contact Kane Winwood.

Yours sincerely



26.11.02

Chris Wilson  
**Executive Director**  
**Major Project Assessment**  
As delegate of the Director-General



## Director-General's Requirements

### Section 75F of the *Environmental Planning and Assessment Act 1979*

|                             |   |
|-----------------------------|---|
| <b>Application Number</b>   | MP 08_0212  |
| <b>Project</b>              | The New Berrima Clay Shale Quarry Project, which includes: <ul style="list-style-type: none"> <li>• developing a clay and shale quarry and constructing associated site infrastructure;</li> <li>• transporting up to 120 000 tonnes of extractive material per year by road to Bowral for processing; and</li> <li>• progressively rehabilitating the site.</li> </ul>   |
| <b>Site</b>                 | Lot 1 DP 414246, Berrima Road, New Berrima.   |
| <b>Proponent</b>            | Austral Bricks Pty Ltd.   |
| <b>Date of Issue</b>        | 10 October 2008   |
| <b>General Requirements</b> | <p>The Environmental Assessment of the project must include:</p> <ul style="list-style-type: none"> <li>• an executive summary;</li> <li>• a detailed description of the project, including the: <ul style="list-style-type: none"> <li>- need for the project;</li> <li>- alternatives considered,</li> <li>- likely staging of the project; and</li> <li>- plans of any proposed building works;</li> </ul> </li> <li>• a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment;</li> <li>• a detailed assessment of the key issues specified below, and any other significant issues identified in the risk assessment (see above), which includes: <ul style="list-style-type: none"> <li>- a description of the existing environment, using sufficient baseline data;</li> <li>- an assessment of the potential impacts of all stages of the project, including any cumulative impacts, taking into consideration any relevant guidelines, policies, plans and statutory provisions (see below);</li> <li>- a description of the measures that would be implemented to avoid, minimise, mitigate, rehabilitate/remediate, monitor and/or offset the potential impacts of the project, including detailed contingency plans for managing any potentially significant risks to the environment;</li> </ul> </li> <li>• a statement of commitments, outlining all the proposed environmental management and monitoring measures;</li> <li>• a conclusion justifying the project on economic, social and environmental grounds, taking into consideration whether the project is consistent with the objects of the <i>Environmental Planning &amp; Assessment Act 1979</i>;</li> <li>• a signed statement from the author of the Environmental Assessment, certifying that the information contained within the document is neither false nor misleading.</li> </ul> |
| <b>Key Issues</b>           | <ul style="list-style-type: none"> <li>• <b>Strategic</b> – assess the project against the strategic land use planning objectives for the area; including those contained in the draft <i>Wingecarribee Local Environmental Plan 2007</i> and the <i>Drinking Water Catchments Regional Environmental Plan No. 1</i>.</li> <li>• <b>Transport</b> – including <ul style="list-style-type: none"> <li>- a detailed assessment of the potential impacts of the project on the safety and performance of the surrounding road network and entire transport route;</li> <li>- a detailed description of any proposed road or intersection upgrades;</li> </ul> </li> <li>• <b>Visual</b> – concentrating on minimising the visibility of the site from the surrounding area, particularly from likely affected residences;</li> <li>• <b>Noise</b> – a detailed assessment of the noise impacts associated with construction, quarry operation, and road traffic noise taking the entire proposed transport route into account;</li> </ul>  |



|                              |  |
|------------------------------|--|
|                              | <ul style="list-style-type: none"> <li>• <b>Soil &amp; Water</b> – including a detailed description of the water management system for the site including water quality management, storm water management, erosion and sediment control and monitoring programs;</li> <li>• <b>Air Quality</b>;</li> <li>• <b>Biodiversity</b> – including a detailed assessment of the potential impacts of the project on any terrestrial and aquatic threatened species, populations, ecological communities or their habitats and regional wildlife habitat corridors;</li> <li>• <b>Heritage</b> – both Aboriginal and non-Aboriginal;</li> <li>• <b>Waste</b> – including a detailed description of the measures that would be implemented to minimise, reuse, recycle and dispose of any waste produced on site; and</li> <li>• <b>Rehabilitation</b> – including a detailed description of the rehabilitation strategy for the site, taking into consideration any relevant strategic land use planning or resource management plans or policies</li> </ul> |
| <b>References</b>            | The environmental assessment of the key issues listed above must take into account relevant guidelines, policies, and plans. While not exhaustive, the following attachment contains a list of some of the guidelines, policies, and plans that may be relevant to the environmental assessment of this project.   |
| <b>Consultation</b>          | <p>During the preparation of the Environmental Assessment, you should consult with the relevant local, State or Commonwealth Government authorities, service providers, community groups and affected landowners.</p> <p>In particular you must consult with:</p> <ul style="list-style-type: none"> <li>• Department of Environment and Climate Change;</li> <li>• Department of Primary Industries;</li> <li>• Department of Water and Energy;</li> <li>• Department of Lands;</li> <li>• Sydney Catchment Authority;</li> <li>• Roads and Traffic Authority; and</li> <li>• Wingecarribee Shire Council.</li> </ul> <p>The consultation process and the issues raised must be described in the Environmental Assessment.</p>  |
| <b>Deemed Refusal Period</b> | 60 days  |



## Policies, Guidelines & Plans

| Aspect                 | Policy /Methodology   |
|------------------------|---|
| <b>Risk</b>            | AS/NZS 4360:2004 Risk Management (Standards Australia)<br>HB 203: 203:2006 Environmental Risk Management – Principles & Process (Standards Australia)   |
| <b>Strategic Plans</b> | Draft Sydney-Canberra Corridor Regional Strategy (DOP)  |
| <b>Transport</b>       | Guide to Traffic Generating Development (RTA)<br>Road Design Guide (RTA)  |
| <b>Noise</b>           | NSW Industrial Noise Policy (DECC)<br>Environmental Criteria for Road Traffic Noise (NSW EPA)<br>Environmental Noise Control Manual (DECC)<br>Assessing Vibration: A Technical Guideline (DECC)   |
| <b>Soil and Water</b>  |   |
| <b>Soil</b>            | Rural Land Capability Mapping (DLWC)<br>Agricultural Land Classification (DPI)<br>State Environmental Planning Policy No. 55 – Remediation of Land<br>Managing Land Contamination – Planning Guidelines SEPP 55 – Remediation of Land (DOP)   |
| <b>Surface Water</b>   | National Water Quality Management Strategy: Australian Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ)<br>National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ)<br>Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC)<br>State Water Management Outcomes Plan<br>NSW Government Water Quality and River Flow Environmental Objectives (DECC)<br>Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC)<br>Drinking Water Catchments Regional Environmental Plan No. 1<br>Managing Urban Stormwater: Soils & Construction (Landcom)<br>Managing Urban Stormwater: Treatment Techniques (DECC)<br>Managing Urban Stormwater: Source Control (DECC)<br>Floodplain Management Manual (DNR)<br>Floodplain Risk Management Guideline (DECC)<br>A Rehabilitation Manual for Australian Streams (LWRRDC and CRCCH)<br>Technical Guidelines: Bunding & Spill Management (DECC) |
| <b>Groundwater</b>     | National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)<br>NSW State Groundwater Policy Framework Document (DLWC)<br>NSW State Groundwater Quality Protection Policy (DLWC)<br>NSW State Groundwater Quantity Management Policy (DLWC) Draft   |
| <b>Air Quality</b>     | Protection of the Environment Operations (Clean Air) Regulation 2002<br>Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC)<br>Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (DEC)   |



| Biodiversity    |  |
|-----------------|--|
|                 | Draft Guidelines for Threatened Species Assessment under Part 3A of the Environmental Planning and Assessment Act 1979 (DEC)       |
|                 | NSW Groundwater Dependent Ecosystem Policy (DLWC)  |
|                 | State Environmental Planning Policy No. 44 – Koala Habitat Protection  |
| Heritage        |  |
| Aboriginal      | Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC)                               |
|                 | NSW Heritage Manual (NSW Heritage Office & DUAP)   |
| Non- Aboriginal | The Burra Charter (The Australia ICOMOS charter for places of cultural significance)   |
| Waste           |  |
|                 | Waste Classification Guidelines (DECC)   |
| Rehabilitation  |  |
|                 | Strategic Framework for Mine Closure (ANZMEC & Minerals Council of Australia)  |
|                 | Mine Rehabilitation – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth of Australia)         |
|                 | Mine Closure and Completion – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth of Australia) |





**Table A2-1**  
**Director-General's Requirements from Relevant *Environmental Assessment* Sections**  
**(Department of Planning – 21 November 2008)**

Page 1 of 2

| Paraphrased Requirement   | Relevant EA Section  |
|---|--|
| <b>GENERAL</b>  |  |
| The <i>Environmental Assessment</i> of the Project must include:  |  |
| <ul style="list-style-type: none"> <li>an executive summary;</li> <li>a detailed description of all components of the project including the: <ul style="list-style-type: none"> <li>need for the project;</li> <li>alternatives considered;</li> <li>likely staging of the project; and</li> <li>plans of any proposed building works;</li> </ul> </li> <li>a risk assessment of the potential environment impacts of the project, identifying the key issues for further assessment;</li> <li>a detailed assessment of the key issues specified below and any other significant issues identified in the risk assessment (see above), which includes: <ul style="list-style-type: none"> <li>a description of the existing environment, using sufficient baseline data;</li> <li>an assessment of the potential impacts of all stages of the project, including any cumulative impacts, taking into consideration any relevant guidelines, policies, plans and statutory provisions (see below);</li> <li>a description of the measures that would be implemented to avoid, minimise, mitigate, rehabilitate/remediate, monitor and/or offset the potential impacts of the project, including detailed contingency plans for managing any potentially significant risks to the environment;</li> </ul> </li> <li>a statement of commitments, outlining all the proposed environmental management and monitoring measures;</li> <li>a conclusion justifying the project on economic, social and environmental grounds, taking into consideration whether the project is consistent with the objects of the <i>Environmental Planning and Assessment Act 1979</i>; and</li> <li>a signed statement from the author of the Environmental Assessment certifying that the information contained within the document is neither false nor misleading.</li> </ul> | <p>ES</p> <p>7.4</p> <p>7.3</p> <p>2.1 – 2.11</p> <p>Not Applicable</p> <p>3.5, 3.6</p> <p>4.5</p> <p>5</p> <p>5</p> <p>6</p> <p>7.4</p> <p>Page iii</p> |
| <b>STRATEGIC</b>  |  |
| Assess the project against the strategic land use planning objectives for the area, including those contained in the draft <i>Wingecarribee Local Environmental Plan 2007</i> and the <i>Drinking Water Catchments Regional Environmental Plan No. 1</i> .  | 3.3  |
| <b>TRANSPORT</b>  |  |
| A detailed assessment of the potential impacts of the project on the safety and performance of the surrounding road network and entire transport route.   | 5.1, Part 1, SCSC  |
| A detailed description of any proposed road or intersection upgrades.   | 5.1, Part 1 SCSC   |
| <b>VISUAL</b>   |  |
| Concentrating on minimising the visibility of the site from the surrounding area, particularly from likely affected residences.   | 5.6  |
| <b>NOISE</b>  |  |
| A detailed assessment of the noise impacts associated with construction, quarry operation, and road traffic noise taking the entire proposed transport route into account.  | 5.3, Part 3 SCSC   |
| <b>SOIL AND WATER</b>   |  |
| A detailed description of the water management system for the site including water quality management, storm water management, erosion and sediment control and monitoring programs.  | 5.2, Part 2 SCSC   |



**Table A2-1 (Cont'd)**  
**Director-General's Requirements from Relevant *Environmental Assessment* Sections**  
**(Department of Planning – 21 November 2008)**

Page 2 of 2

| Paraphrased Requirement  | Relevant EA Section                |
|--|------------------------------------|
| <b>BIODIVERSITY</b>  |                                    |
| Include a detailed assessment of the potential impacts of the project on any terrestrial and aquatic threatened species, populations, ecological communities or their habitats and regional wildlife habitat corridors.  | 5.4, 5.5.<br>Parts 4 and 5<br>SCSC |
| <b>HERITAGE</b>  |                                    |
| Both Aboriginal and non-Aboriginal.  | 5.10, Part 8 SCSC                  |
| <b>WASTE</b>   |                                    |
| Include a detailed description of the measures that would be implemented to minimise, reuse, recycle and dispose of any waste produced on site.  | 2.8                                |
| <b>REHABILITATION</b>  |                                    |
| Include a detailed description of the rehabilitation strategy for the site, taking into consideration any relevant strategic land use planning or resource management plans or policies.   | 2.11                               |
| <b>REFERENCES</b>  |                                    |
| The environmental assessment of the key issues listed above must take into account relevant guidelines, policies and plans. While not exhaustive, the following attachment contains a list of some of the guidelines, policies and plans that may be relevant to the environmental assessment of this project.   | 3.3                                |
| <b>CONSULTATION</b>  |                                    |
| <p>During the preparation of the <i>Environmental Assessment</i>, you should consult with the relevant local, State or Commonwealth Government authorities, service providers, community groups and affected landowners.</p> <p>In particular you should consult with:</p> <ul style="list-style-type: none"> <li>• Department of Environment and Climate Change;</li> <li>• Department of Primary Industries;</li> <li>• Department of Water and Energy;</li> <li>• Department of Lands;</li> <li>• Sydney Catchment Authority</li> <li>• Roads and Traffic Authority; and</li> <li>• Wingecarribee Shire Council.</li> </ul> <p>The consultation process and the issues raised must be described in the <i>Environmental Assessment</i>.</p> | 3.2.2                              |



**Table A2-2**  
**Requirements from Other Government Agencies from**  
**Relevant *Environmental Assessment* Sections**

Page 1 of 8

| Government Authority                                    | Paraphrased Requirement  | Relevant EA Section                             |
|---|--|---|
| <b>GENERAL</b>  |  |   |
| Department of Water and Energy (02/10/08)               | The EA is required to take into account the following NSW Government policies, as applicable: <ul style="list-style-type: none"> <li>• NSW Groundwater Policy Framework Document - General;</li> <li>• NSW Groundwater Quantity Management Policy;</li> <li>• NSW Groundwater Quality Protection Policy;</li> <li>• NSW Groundwater Dependant Ecosystem Policy;</li> <li>• NSW State Rivers and Estuaries Policy;</li> <li>• NSW Wetlands Management Policy</li> <li>• NSW Farm Dams Policy</li> </ul> | NA<br>NA<br>NA<br>NA<br>NA<br>NA<br>Part 2 SCSC |
| Department of Environment and Climate Change (03/10/08) | Details are required on the location of the proposed development including the affected environment to place the proposal in its local and regional environmental context including surrounding land uses, planning zones, potential sensitive receptors, surface and sub-surface areas/features of conservation significance and environmental sensitivity. These should include areas containing natural and cultural heritage values.   | 2,3   |
|   | Describe mitigation and management options that will be used to prevent, control, abate or mitigate identified environmental impacts associated with the project and to reduce risks to human health and prevent the degradation of the environment.   | 5   |
| <b>NOISE AND VIBRATION</b>                              |  |   |
| Department of Environment and Climate Change (03/10/08) | The development must be designed in accordance with the NSW Government's <i>Industrial Noise Policy</i> . The assessment should include but need not be limited to: the location of all sensitive receptors, and assessment of the background noise, proposed project specific noise limits, the potential impact of any transport noise, and the proposed hours of operation.   | 5.3, Part 3 SCSC                                |
|   | The EA must clearly outline the noise mitigation measures the Proponent intends to apply to the project to ensure that there are no adverse impacts from noise.  | 5.3.6   |
| <b>ECOLOGY</b>  |  |   |
| Department of Environment and Climate Change (03/10/08) | A field survey of the site should be conducted in accordance with the draft Threatened Biodiversity Survey and Assessment Guidelines. The report must include a map of the areas surveyed. Areas not included in the survey should be accompanied by reasons for their omission.   | 5.4, 5.5 Parts 4 and 5 SCSC                     |
|   | Likely impacts on threatened species and their habitat need to be assessed, evaluated and reported on.   | 5.4, 5.5 Parts 4 and 5 SCSC                     |
|   | Flora surveys should include, but not necessarily be limited to the following species:<br>Small flower Grevillea      Mittagong Geebung<br>Bynoe's Wattle                  Camden Woollybutt<br>Cambage Kunzea                Silky Pomaderris   | 5.4, Part 4 SCSC                                |
|   | Fauna surveys should include, but not necessarily be limited to the following species:<br>Koala                                  Giant Dragonfly<br>Blue-billed Duck                  Gang-gang Cockatoo<br>Freckled Duck  | 5.5 Part 5 SCSC                                 |
|   | The report must clearly map and quantify the area of foraging, roosting, feed and nesting trees proposed to be removed and/or modified.  | NA  |



**Table A2-2 (Cont'd)**  
**Requirements from Other Government Agencies from**  
**Relevant *Environmental Assessment* Sections**

Page 2 of 8

| Government Authority                                    | Paraphrased Requirement  | Relevant EA Section |
|---|--|---------------------|
| <b>ECOLOGY (Cont'd)</b>                                 |  |                     |
| Department of Environment and Climate Change (03/10/08) | A description of any remnant endangered ecological communities (EEC) on site should be provided including a description of their condition, disturbance history and recovery capacity. This report must clearly map and quantify the area of any EEC proposed to be removed and/or modified.   | 5.4, Part 4 SCSC    |
|   | There is potential for Southern Highlands Shale Woodland and the White Box Yellow Box Blakely's Red Gum Woodland listed EECs under the <i>Threatened Species Conservation Act 1995</i> (NSW) to occur within the vicinity of the development. Consideration should also be given to any EECs listed under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth).  | 5.4, Part 4 SCSC    |
|   | A description should also be included of any other ecological communities on site that will be impacted as a result of the proposal. This should include an assessment of the habitat value of the community for threatened species.   | 5.4, Part 4 SCSC    |
|   | A description should be provided of the actions that will be taken to avoid or mitigate impacts or compensate for unavoidable impacts of the project on threatened species and their habitat. The EA should also assess any impacts, including measures to avoid and mitigate impacts on any threatened species associated with the sitting and construction of any access roads and infrastructure provision. This should include an assessment of the effectiveness and reliability of the measures and any residual impacts after these measures are implemented. | 5.4.4, 5.54         |
|   | The EA needs to clearly state whether it meets each of the key thresholds set out in Step 5 of the draft <i>Guideline for Threatened Species Assessment</i> .  | Parts 4 and 5 SCSC  |
| <b>AIR QUALITY</b>                                      |  |                     |
| Department of Environment and Climate Change (03/10/08) | Ensure sensitive receptors are protected from any adverse impacts from dust and odour.   | 5.7, Part 6 SCSC    |
|   | The EA should address options to minimise fugitive dust emissions from stockpiles and areas of the quarry that have been disturbed and are likely to remain bare which may include progressive rehabilitation.   | 5.7.5               |
| <b>SURFACE WATER</b>                                    |  |                     |
| Department of Water and Energy (02/10/08)               | If a water supply is required, the source/availability of a sustainable water supply needs to be addressed in the EA.  | Part 2 SCSC         |
|   | The location and estimated capacity of every dam must be shown. Any capacity of the total of all dams on the property greater than the MHRDC may require a licence.  | Part 2 SCSC         |
|   | The EA should provide details on:  |                     |
|   | <ul style="list-style-type: none"> <li>any existing surface water and groundwater licences under the Water Act 1912 on the subject property;</li> </ul>  | 2.1.4               |
|   | <ul style="list-style-type: none"> <li>the purpose of the existing licences;</li> </ul>  | 2.1.4               |
|   | <ul style="list-style-type: none"> <li>the water supply source(s) for the proposal;</li> </ul>   | 5.2                 |
|   | <ul style="list-style-type: none"> <li>volumes of water to be used;</li> </ul>   | 5.2, Part 2 SCSC    |
|   | <ul style="list-style-type: none"> <li>The function and location of all existing and proposed storages/ponds on the site; and</li> </ul>   | 5.2, Part 2 SCSC    |
|   | <ul style="list-style-type: none"> <li>The design layout, pumping and storage capacities, all associated earthworks and infrastructure works must be clearly shown and explained.</li> </ul>   | 2.3                 |



**Table A2-2 (Cont'd)**  
**Requirements from Other Government Agencies from**  
**Relevant *Environmental Assessment* Sections**

Page 3 of 8

| Government Authority                                    | Paraphrased Requirement   | Relevant EA Section  |
|---|---|--|
| <b>SURFACE WATER (Cont'd)</b>                           |   |  |
| Department of Water and Energy (02/10/08)               | <p>If the proposal includes water management structures/dams, the EA needs to provide details on the following:</p> <ul style="list-style-type: none"> <li>any existing structure(s) (date of construction, location, purpose, size and capacity, the legal status/approval for existing structure/s);</li> <li>any proposal to change the purpose of existing structure/s;</li> <li>if any remedial work is required to maintain the integrity of the existing structure/s;</li> <li>size and storage capacity of the structure/s;</li> <li>calculation of the Maximum Harvestable Right Dam Capacity (MHRDC);</li> <li>if the structure/s is affected by flood flows;</li> <li>any proposal for shared use, rights and entitlement of the structure/s; and</li> <li>if the proposed development has the potential to bisect the structure/s.</li> </ul> | <p>5.2, Part 2 SCSC</p> <p>Part 2 SCSC</p> <p>Part 2 SCSC</p> <p>5.2.2</p> <p>Part 2 SCSC</p> <p>Part 2 SCSC</p> <p>NA</p> <p>NA</p> |
| Department of Environment and Climate Change (03/10/08) | <p>The goal of the project should ensure:</p> <ul style="list-style-type: none"> <li>There is no pollution of waters (including surface and groundwater);</li> <li>Polluted water is captured on the site and directed to reticulated sewer where available or else collected, treated and beneficially reused, where this is safe and practicable to do so;</li> <li>There is consistency with any relevant Statement of Joint Intent established by the Healthy Rivers Commission; and</li> <li>It contributes to the protection or achievement over time of River Flow Objectives and Water Quality Objectives.</li> </ul>   | <p>5.2.5</p> <p>5.2.4</p> <p>NA</p> <p>5.2.5</p>   |
|   | An assessment needs to be provided in the EA demonstrating how the above objectives will be achieved. The proponent should confirm in the EA the catchment that the development occurs in to determine the requirements that should apply. The EA should clearly identify any sensitive areas nearby and provide details on any potential impact this proposal may have on these areas including any associated mitigation measures.  | Part 2 SCSC  |
| <b>GROUNDWATER</b>                                      |   |  |
| Department of Water and Energy (02/10/08)               | <p>The Environmental Assessment (EA) needs to provide details on:</p> <ul style="list-style-type: none"> <li>the source/availability of a sustainable water supply. The Environmental Assessment needs to address how a water supply will be sourced for the proposal due to the Hawkesbury-Nepean surface water licence embargo. Commercial groundwater extraction in the Parish of Bong Bong is also similarly embargoed;</li> <li>the protection of groundwater;</li> <li>the protection of watercourses and riparian corridors.</li> </ul>  | 5.11   |
|   | <p>The EA should identify groundwater issues and potential degradation to the groundwater source and provide the following details:</p> <ul style="list-style-type: none"> <li>the predicted highest groundwater table at the site;</li> <li>any works likely to intercept, connect with or infiltrate the groundwater sources;</li> <li>a description of the flow directions and rates and physical and chemical characteristics of the groundwater source;</li> </ul>   | 5.11   |



**Table A2-2 (Cont'd)**  
**Requirements from Other Government Agencies from**  
**Relevant *Environmental Assessment* Sections**

Page 4 of 8

| Government Authority                      | Paraphrased Requirement   | Relevant EA Section   |
|---|---|---|
| <b>GROUNDWATER (Cont'd)</b>               |   |   |
| Department of Water and Energy (02/10/08) | <ul style="list-style-type: none"> <li>the predicted impacts of any final landform on the groundwater regime;</li> <li>the existing groundwater users within the area (including the environment), any potential impacts on these users and safeguard measures to mitigate impacts;</li> <li>an assessment of the quality of the groundwater for the local groundwater catchment;</li> <li>how the proposed development will not potentially diminish the current quality of groundwater, both in the short and long term;</li> <li>measures for preventing groundwater pollution so that remediation is not required;</li> <li>protective measures for any groundwater dependent ecosystems (GDEs);</li> <li>proposed methods of the disposal of waste water and approval from the relevant authority; and</li> <li>the results of any models or predictive tools used.</li> </ul>   | <p>5.11</p> <p>5.11</p> <p>NA</p> <p>5.11</p> <p>5.11.4</p> <p>NA</p> <p>5.11</p> <p>NA</p> |
|   | <p>Where potential impact/s are identified the assessment will need to identify limits to the level of impact and contingency measures that would remediate, reduce or manage potential impacts to the existing groundwater resource and any dependent groundwater environment or water users, including information on:</p> <ul style="list-style-type: none"> <li>any proposed monitoring programs, including water levels and quality data;</li> <li>reporting procedures for any monitoring program including mechanism for transfer of information;</li> <li>an assessment of any groundwater source/aquifer that may be sterilised from future use as a water supply as a consequence of the proposal;</li> <li>identification of any nominal thresholds as to the level of impact beyond which remedial measures or contingency plans would be initiated (this may entail water level triggers or a beneficial use category);</li> </ul> | NA  |
| Department of Water and Energy (02/10/08) | <ul style="list-style-type: none"> <li>description of the remedial measures or contingency plans proposed; and</li> </ul>   | 5.11.4  |
|   | <ul style="list-style-type: none"> <li>any funding assurances covering the anticipated post development maintenance cost, for example on-going groundwater monitoring for the nominated period.</li> </ul>  | NA  |
| Sydney Catchment Authority (23/09/08)     | <p>The SCA considers water quality issues should be comprehensively considered in the assessment process and that this planning instrument establishes appropriate assessment criteria. The SCA considers that the environmental assessment of the quarry proposal and the proposed transport route must include an assessment of whether the proposal will have a <u>'neutral or beneficial effect on water quality'</u> as per the following:</p> <ul style="list-style-type: none"> <li>Consider the Drinking Water Catchments Regional Environmental Plan No. 1 and have regards to the water quality objectives detailed in the plan;</li> </ul>   | <p>5.2</p> <p>Section 6, Part 2, SCSC</p>   |



**Table A2-2 (Cont'd)**  
**Requirements from Other Government Agencies from**  
**Relevant *Environmental Assessment* Sections**

Page 5 of 8

| Government Authority                  | Paraphrased Requirement  | Relevant EA Section   |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
|---------------------------------------|--|---|-------|---------------------------------|----------|--------------|-----------|-----------------|----|--------------------------|------|-----------------------|-----|--|
| GROUNDWATER (Cont'd)                  |  |   |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
| Sydney Catchment Authority (23/09/08) | <ul style="list-style-type: none"><li>Contain relevant studies and plans (eg Water Cycle Management Study, Stormwater Management Plan, Erosion and Sediment Control Plan and/or Soil and Water Management Plan) that address the following:<ul style="list-style-type: none"><li>Identification of potential impacts on water quality and likely pollutants of concern (surface and groundwater) during construction, operation and decommissioning stages of the quarry;</li><li>Identification of potential impacts on the development of water supply dams, groundwater and the relocation of watercourses and drainage lines. If there is no impact on groundwater a justification as to how this conclusion has been reached needs to be provided.</li><li>Details of water quality protection measures during construction, operation and decommissioning stages of the quarry along with the performance criteria for each measure and an assessment of whether the water quality measures are sustainable for the periods for which they are expected to be in place.</li><li>With regards to soil and water management at the quarry site, critical structures such as Water Quality Control Ponds (WQCPs) and sedimentation basins should be designed, constructed and maintained to accommodate a 1 in 100 year ARI 24 hour event. Similarly other dams and water management structures should be designed, constructed and maintained to accommodate a 1 in 20 year ARI event. Justification for any deviation from this should be provided.</li><li>Determine and state whether a neutral or beneficial effect on water quality of receiving waters (surface and groundwater) will occur during construction, operation and decommissioning stages of the quarry.</li></ul></li></ul> | <p>The requested plans would be proposed as part of the Site Water Management Plan in the event the Project is approved.</p> <p>(See Section 6 of Part 2 of SCSC)</p> |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
|                                       | <ul style="list-style-type: none"><li>In the event that water will be discharged from the site the SCA recommends that the proponent be required to meet the water quality guidelines identified below for the operation and decommissioning stages of the project which have been derived from the SCA (2006) Water Quality Monitoring Report 2005-2006 and the Healthy Rivers Commission Guidelines (1998). Any monitoring program for surface and groundwater quality would need to include these parameters.</li></ul>   | 5.2, Part 2 SCSC  |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
|                                       | <table><tr><th>Parameter</th><th>Value</th></tr><tr><td>Dissolved Oxygen (% saturation)</td><td>90 - 110</td></tr><tr><td>pH (pH unit)</td><td>6.5 – 8.0</td></tr><tr><td>Turbidity (NTU)</td><td>25</td></tr><tr><td>Total phosphorous (mg/L)</td><td>0.05</td></tr><tr><td>Total nitrogen (mg/L)</td><td>0.5</td></tr></table>   | Parameter   | Value | Dissolved Oxygen (% saturation) | 90 - 110 | pH (pH unit) | 6.5 – 8.0 | Turbidity (NTU) | 25 | Total phosphorous (mg/L) | 0.05 | Total nitrogen (mg/L) | 0.5 |  |
|                                       | Parameter  | Value   |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
|                                       | Dissolved Oxygen (% saturation)  | 90 - 110  |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
|                                       | pH (pH unit)   | 6.5 – 8.0   |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
|                                       | Turbidity (NTU)  | 25  |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
| Total phosphorous (mg/L)              | 0.05   |   |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
| Total nitrogen (mg/L)                 | 0.5  |   |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
|                                       |  |   |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
|                                       |  |   |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
|                                       |  |   |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |
|                                       |  |   |       |                                 |          |              |           |                 |    |                          |      |                       |     |  |



**Table A2-2 (Cont'd)**  
**Requirements from Other Government Agencies from**  
**Relevant *Environmental Assessment* Sections**

Page 6 of 8

| Government Authority                                  | Paraphrased Requirement   | Relevant EA Section                       |
|---|---|---|
| <b>GROUNDWATER (Cont'd)</b>                           |   |   |
| Sydney Catchment Authority (23/09/08)                 | The Environmental Assessment needs to detail information regarding the following: <ul style="list-style-type: none"> <li>• Provide details of the practices proposed to ensure materials transported from site do not spill (as solid, liquid or dust);</li> <li>• Provide details of an incident management plan that would be followed in the event of an incident (eg truck accident releasing fuel etc);</li> <li>• Provide details of any proposed offsets like Riparian Improvement adjacent to Wingecarribee River.</li> </ul> | 5.2.4<br><br>Not Yet Applicable<br><br>NA |
| <b>ABORIGINAL HERITAGE</b>                            |   |   |
| Department of Environment & Climate Change (03/10/08) | The assessment needs to address the following: <ul style="list-style-type: none"> <li>• The EA should address and document the information requirements set out in the draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation involving a full heritage assessment and consultation with the Aboriginal community.</li> </ul>   | 5.10, Part 8 SCSC                         |
|   | <ul style="list-style-type: none"> <li>• The EA needs to clearly demonstrate that effective community consultation with Aboriginal communities has been undertaken in determining and assessing impacts, developing options and making final recommendations.</li> </ul>  | 5.10.2                                    |
|   | <ul style="list-style-type: none"> <li>• Identify the nature and extent of Aboriginal cultural heritage values across the site through comprehensive surveys.</li> </ul>  | 5.10.2                                    |
|   | <ul style="list-style-type: none"> <li>• Undertake an assessment of the Aboriginal sites identified within the project area. This must include consideration of both archaeological values and Aboriginal cultural heritage values and comply with the principles set out in the Burra Charter</li> </ul>   | 5.10                                      |
|   | <ul style="list-style-type: none"> <li>• Undertake archaeological excavations to verify the presence of Aboriginal sites in areas assessed as being of archaeological and/or cultural sensitivity.</li> </ul>   | NA  |
|   | <ul style="list-style-type: none"> <li>• Report all new sites to the DECC to comply with s91 of the NPW Act using the DECC site card, and 3 copies (2 hard copy and 1 disc) of the final assessment report.</li> </ul>  | NA  |
| Department of Environment & Climate Change (03/10/08) | Describe the measures that will be taken to avoid and/or mitigate impacts of the project on Aboriginal cultural heritage values.  | 5.10.5                                    |
| <b>CROWN LAND</b>                                     |   |   |
| Department of Lands (25/11/08)                        | The Department requests that all aspects of the development proposal be designed to have no impact towards the adjoining Crown reserve.   | 5   |
| <b>TRAFFIC</b>  |   |   |
| Wingecarribee Shire Council (26/09/05)                | The upgrade to the intersection of Taylor's Avenue and Berrima Road should be limited to median installation and reprioritising the intersection to favour the Berrima Rd – Taylor Avenue path. Widening should be limited to that required to ensure accommodation of swept path for B-doubles.  | NA, (5.1.5)                               |
|   | The environmental assessment consider the possibilities of land owners collaborating to combine access point.   | NA  |
|   | The environmental assessment to include a proper analysis of two key alternative scenarios, being transport of material by train to the existing brick yard and relocation of the brick works to the source of the material.  | 7.3                                       |





**Table A2-2 (Cont'd)**  
**Requirements from Other Government Agencies from**  
**Relevant *Environmental Assessment* Sections**

Page 7 of 8

| <b>Government Authority</b>                           | <b>Paraphrased Requirement</b>  | <b>Relevant EA Section</b> |
|---|---|----------------------------|
| <b>VISUAL</b>   |   |                            |
| Wingecarribee Shire Council (26/09/05)                | The environmental assessment must include a thorough visual assessment with mitigation measures considered. Buffer areas would need to be established, with plantings being in place and well established prior to any extraction commencing.   | 5.6                        |
| <b>WATERCOURSES AND RIPARIAN LANDS</b>                |   |                            |
| Department of Water and Energy (02/10/08)             | The EA should identify any watercourses at the site, or in the vicinity of the site and their associated riparian corridors which may potentially be impacted by the proposal and address how the watercourses and riparian corridors at the site will be protected and enhanced.   | 5.2                        |
|   | The riparian corridors should be protected and/or enhanced with native riparian vegetation.   | NA                         |
|   | The EA should provide on a scaled plan, details on the location of:   | 2.3                        |
|   | a. the watercourses at the site   | 2.3                        |
|   | b. top of bank  | NA                         |
|   | c. the riparian corridors, including the Core Riparian Zone (CRZ) and vegetated buffers   | NA                         |
|   | d. any Asset Protection Zones   | 2.3                        |
|   | e. the footprint of the proposed development and any other areas of disturbance   | NA                         |
|   | f. any proposed revegetation of the riparian corridors  | 2.3                        |
|   | g. land uses associated with the proposal which are proposed to be located adjacent to the riparian corridor (eg roads, basins and any other works adjacent to the riparian corridor)   | NA                         |
|   | The EA needs to provide details on any watercourses and riparian corridors that may be affected by the proposal and the rehabilitation of these watercourses to mimic natural systems and the rehabilitation of vegetated riparian corridors.   | NA                         |
| Department of Lands (25/11/08)                        | The proposed extraction should have no adverse affect on the bed or bank of the Wingecarribee River and or the associated riparian lands and water quality within, both upstream and downstream of the site.  | 5.2                        |
| <b>ZONING</b>   |   |                            |
| Wingecarribee Shire Council (26/09/05)                | Under the draft Wingecarribee Local Environmental Plan 2007, that has been placed on public exhibition, the subject land is proposed to be zoned E3 Environmental Management. In this zone extractive industries are not permissible. In this regard, the proposal is at odds with Council's stated strategic planning objectives for the area. | 3.3.3                      |
| <b>ENVIRONMENTAL OFFSETTING</b>                       |   |                            |
| Wingecarribee Shire Council (26/09/05)                | Department of Natural Resources Riparian Corridor Management Study would be a significant offsetting opportunity. Furthermore, the augmentation of a vegetated corridor from this riparian area to the Crown land to the west of the proposed site would further enhance an offsetting opportunity and provide further community benefit.       | NA                         |
| <b>PLANNING AND STATUTORY</b>                         |   |                            |
| Department of Environment & Climate Change (03/10/08) | Proposed development requires an Environment Protection Licence (EPL) under the Protection of the Environment Operations Act 1997 (POEO) if approval is granted.  | 2.1.4                      |



**Table A2-2 (Cont'd)**  
**Requirements from Other Government Agencies from**  
**Relevant *Environmental Assessment* Sections**

Page 8 of 8

| Government Authority                      | Paraphrased Requirement   | Relevant EA Section |
|---|---|---------------------|
| <b>WETLANDS</b>                           |   |                     |
| Department of Water and Energy (02/10/08) | The EA should provide on a scaled plan, details on the location of: <ul style="list-style-type: none"> <li>a. any wetlands on the subject property</li> <li>b. buffer setbacks around the wetlands</li> <li>c. any Asset Protection Zones</li> <li>d. the footprint of the proposed development and any other areas of disturbance</li> </ul> | NA                  |
| <b>WASTE AND CHEMICALS</b>                |   |                     |
| Department of Water and Energy (02/10/08) | The goal of the project should be to ensure waste is managed: <ul style="list-style-type: none"> <li>• In accordance with the principles of the waste hierarchy and cleaner production;</li> </ul>  | 2.8                 |
|   | <ul style="list-style-type: none"> <li>• The handling, processing and storage of all materials used at the premises does not have negative environmental or amenity impacts;</li> </ul>   | 2.4.3               |
|   | <ul style="list-style-type: none"> <li>• The beneficial reuse of all wastes generated at the premises are maximised where it is safe and practical to do so; and</li> </ul>   | 2.8                 |
|   | <ul style="list-style-type: none"> <li>• No waste disposal occurs on site except in accordance with an EPL.</li> </ul>  | 2.8                 |
|   | The proposed waste management of this material should be assessed against the Protection of the Environment (Waste) Regulation.   | 2.8                 |



# Appendix 3

## November 2009 Newsletter and Feedback Form

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Proudly  
Supports



4 November 2009

Dear Sir or Madam

The Austral Brick Co Pty Ltd is the owner and operator of the Bowral Brick Plant, the company's sole dry press brick manufacturing plant in NSW. The principal raw material used in the manufacture of the dry pressed bricks at the plant is Ashfield shale. For over 80 years, Ashfield shale has been extracted adjacent to the Bowral Brick Plant however the remaining resources are limited and likely to be exhausted within the next 5 - 8 years.

In light of the impending exhaustion of the Ashfield shale at the Bowral Brick Plant, we embarked on an exploration program throughout the Southern Highlands during 2005 to 2007 to identify a suitable replacement source of Ashfield shale. We recently acquired a 100ha property approximately 1.5km east of New Berrima that contains the necessary raw material. We are in the process of preparing an application to the NSW Department of Planning under Part 3A of the *Environmental Planning and Assessment Act 1979* to develop an extraction operation on the property.

Community consultation is essential to the assessment process and Austral Bricks informed neighbours of the proposal and invited comments last August. However the proposal has changed as a result of consultation with government agencies and once again we invite you to comment on the proposal as described in the accompanying newsletter. A feedback form and reply paid envelope are provided for your convenience.

If you require further information about the proposal please do not hesitate to contact myself on 02 9830 7879 or Lisa Aspinall of RW Corkery and Company on 02 9985 8511.

Yours faithfully

Chris Bryant





# New Berrima Clay/Shale Quarry

## Newsletter 1

November 2009

This newsletter is intended to provide an update for the neighbours of the proposed New Berrima Clay/Shale Quarry.

### Project Status

In July of 2008, after considerable investigation of prospective sites, Austral Brick Company Pty Ltd requested the NSW Department of Planning to consider the proposed New Berrima Clay/Shale Quarry at Lot 1, DP 414246 for assessment under Part 3A of the *Environmental Planning and Assessment Act 1979*. The proposal involved the extraction of approximately 120 000t per annum (tpa) of structural clay from a total resource of 8 million tonnes, from an extraction area of approximately 26.7ha for a period of 65 years. In August 2008 an information letter was sent to residents and landowners in the immediate vicinity of the proposed quarry, inviting their questions and comments. In September 2008 a Planning Focus Meeting was conducted at which various government agencies provided comments, recommendations and requirements. As a result of this consultation process, the proposal has been amended to involve the extraction of up to approximately 150 000tpa from an extraction area of approximately 8ha for a period of 30 years.

### Need for the Project

The Austral Brick Company Pty Ltd is the owner and operator of the Bowral Brick Plant, the Company's sole dry press brick manufacturing plant in NSW. The bricks produced at Bowral are in considerable demand and provide an important building material throughout NSW and beyond. The principal raw material used in the manufacture of the dry pressed bricks at the plant

is Ashfield Shale, the material underlying many Sydney suburbs and which was first used to manufacture the billions of bricks manufactured throughout Sydney until 2003 when the Eastwood Brick Plant closed down. This was the last of over 20 dry-pressed brick plants to close since the early 1980's. The Ashfield Shale has been extracted from adjacent to the Bowral Brick Plant for over 80 years, however, the remaining resources are limited and likely to be exhausted within about 5 years. The clay/shale resource at New Berrima would provide a high quality supply of structural clay close to the brickworks. Preliminary assessments suggest that extraction of the resource from this location would be able to be achieved with minimal impact on the environment and community.

### The Project

#### Extraction

The Project Site is located on the southern side of the Wingecarribee River with a narrow 0.9km long access to Berrima Road. Figure A shows the 8ha extraction area, within the 52ha project site, within the 100ha "Mandurama" property. Clay/shale extraction would be undertaken in either two or three campaigns each year with the topsoil stockpiled, the overburden/clay used to create amenity bunds, and the clay/shale ripped and pushed up into stockpiles. Clay/shale would be stockpiled within the footprint of the extraction





area for transportation to Bowral. Machinery in use would include a front end loader, a scraper, a bulldozer and a haul truck.



### Transportation

The clay/shale would be loaded into haul trucks and transported to the Bowral Brick Plant. The proposed transportation route is shown in Figure B. Up to approximately 2 500t of raw material would be transported each week. This would involve an average of 17 loads a day for 5 days a week. However Austral Bricks recognises that following periods of wet weather the transportation schedule may have to increase to up to seven days a week and/or up to 68 loads per day. This would allow the brick plant to quickly accumulate raw material which it had not been able to access during wet weather, thus enabling the brick plant to remain operational.

### Employment

Each extraction campaign would involve one machinery operator (full time) and a quarry manager (part time) for a period of 4 to 6 weeks, 2 to 3 times per year. Transportation will involve up

to four contracted truck drivers. Overall, the extraction and transportation of the product clay/shale will employ approximately 4 fulltime equivalent positions.

### Working Hours

The proposed hours of operation are presented in Table 1.

Table 1: Proposed Hours of Operation

| Activity                    | Monday to Friday | Saturday   | Sunday   |
|-----------------------------|------------------|--|--|
| Extraction Operations       | 7:00am – 5:00pm  | 7:00am – 2:00pm  | nil  |
| Product Clay/Shale Despatch | 7:00am – 4:00pm  | 7:00am – 4:00pm if required due to special circumstances | 8:00am – 4:00pm if required due to special circumstances |
| Repairs & Maintenance       | 6:00am – 6:00pm  | 7:00am – 6:00pm  | 8:00am – 6:00pm  |

### Rehabilitation

The extraction area would be progressively rehabilitated. Quarry walls would be backfilled and revegetated as extraction benches are completed. The final landform would be an open basin sown with pasture for grazing. Quarry walls would be revegetated with native trees and shrubs.

### Environmental Assessment

The *Environmental Assessment* is being managed by Environmental Consultants, RW Corkery and Co., and has commenced with the investigations by Specialist Consultants in the areas of noise, traffic, air quality, flora, fauna, Aboriginal heritage, soils, and surface and groundwater. The assessment will also include potential impacts on visual amenity and socio-economic factors.

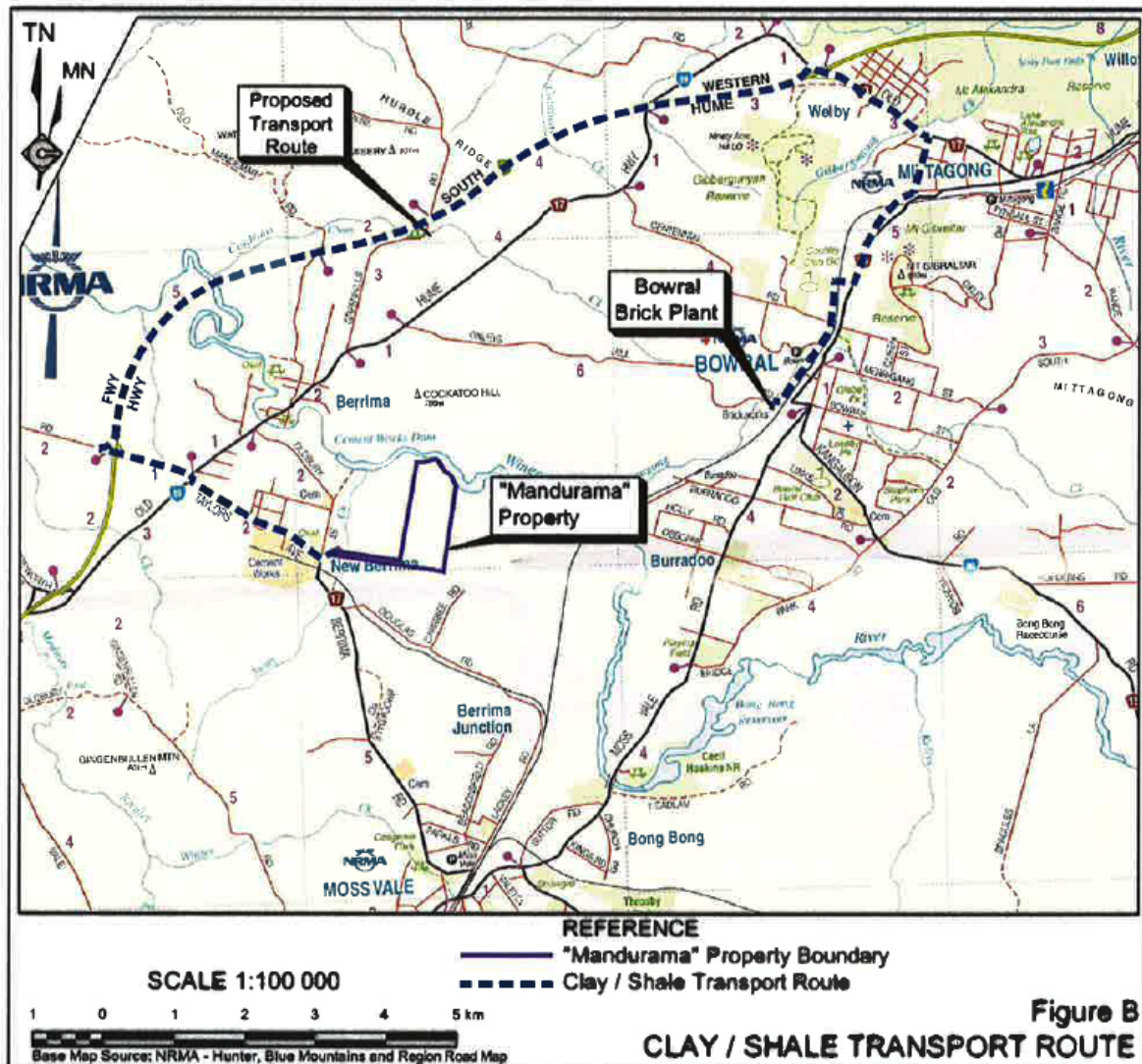
After assessment of adequacy by the Department of Planning, the *Environmental Assessment* will be on exhibition for comment. This is expected to occur early 2010.

### Mitigation Measures

An Environmental Management Plan would be developed to manage all environmental risks, including excessive noise, dust, spills, soil

erosion, water and land contamination, weeds and pests. Amenity bunds would be constructed on the northern, western and southern sides of the extraction area. These would serve to reduce visual amenity, noise and dust impacts on neighbours and the general community. Soil and

erosion control methods would be employed to guard against soil loss and sedimentation of creeks and waterways. A Truck Driver Protocol would be developed to manage the disturbance and safety issues associated with the transportation of the clay/shale to Bowral.



## Further Information

A community feedback form is available for interested community members to provide their comments regarding this proposal. For further information the following may be contacted:

Mr Chris Bryant, The Austral Brick Company Pty Ltd, 02 9830 7879.

Ms Lisa Aspinall, RW Corkery & Co Pty Ltd, 02 9985 8511.





**AUSTRAL BRICK CO PTY LTD**  
**NEW BERRIMA**  
**PROPOSED CLAY/SHALE QUARRY**

**COMMUNITY FEEDBACK FORM**

**Dear Landholder/Resident,**

It would be greatly appreciated if you could take a moment to review the attached information and provide any feedback or comments using the reply paid envelope provided. Alternatively, please contact Lisa Aspinall of RW Corkery & Co Pty Ltd on 02 9985 8511.

**Date:** \_\_\_\_\_

**1. Name:** \_\_\_\_\_

☐

**Owner**

☐

**Tenant**

**2. Property Address:** \_\_\_\_\_ **Tel:** \_\_\_\_\_

\_\_\_\_\_ **Email:** \_\_\_\_\_

**2. Mailing Address:** \_\_\_\_\_

**3. How long have you lived at this address?** \_\_\_\_\_

**4. Your Land Use(s) / Activity(ies) on your land?:** \_\_\_\_\_

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**5. Concerns/comments regarding proposed quarry operations:**

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**5. Comments regarding the proposed road transportation:**

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**7. Are you prepared to allow monitoring of noise, dust, surface water and/or groundwater on your property should it be recommended by independent experts:**

☐

Yes

☐

No

☐

More information required

**8. Are you interested in receiving:**

An electronic copy of the  
Environmental Assessment  
(CD)

☐

Yes

☐

No

Ongoing information about  
the Project

☐

Yes

☐

No

**9. Other comments / concerns:**

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PLEASE RETURN IN THE ATTACHED REPLY-PAID ENVELOPE

Page 2 of 2

