

Appendices

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- Appendix 2 Director-General's Requirements for Environmental Assessment

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Appendix 1

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1

Major Projects Application for Project Approval

Application No: 07_0123

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Major Project application



NSW GOVERNMENT
Department of Planning

Date received: 12/9/07

Project Application No. 07-0123

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

All applications must be lodged with the Director-General, 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		ABN
<u>SOUTH COAST CONCRETE CRUSHING AND RECYCLING PTY LTD</u>		<u>76095243584</u>
<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	<input type="checkbox"/> Mrs
<input type="checkbox"/> Dr	<input type="checkbox"/> Other	
First name	Family name	
<u>JOHN</u>	<u>GREEN</u>	
Position		
<u>MINE MANAGER</u>		
STREET ADDRESS		
Unit/street no.	Street name	
Suburb or town	State	Postcode
POSTAL ADDRESS (or mark 'as above')		
<u>PO BOX 192</u>		
Suburb or town	State	Postcode
<u>OAKFLATS</u>	<u>NSW</u>	<u>2529</u>
Daytime telephone	Fax	Mobile
<u>02-44 217766</u>	<u>02-44 217988</u>	<u>0418276376</u>
Email		

3. Identify the land you propose to develop

STREET ADDRESS (where relevant)

Unit/street no. Street or property name

Suburb, town or locality Postcode

Local government area(s) State electorate(s)

REAL PROPERTY DESCRIPTION

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.

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).

\$ 2.8M

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)

Operational jobs (full-time equivalent)

10

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 1981
- 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

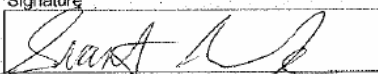
Extractive
 Industry
 - Mines

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
 Lot 464 DP 1058778

Land

Signature


Signature

Name
 Grant Merrick, All Program Manager

Name

Date
 5 September 2007

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. 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	<input type="text" value="JH"/>	In what capacity are you signing if you are not the proponent?	<input type="text"/>
Name	<input type="text" value="JOHN CRAN"/>	Name, if you are not the proponent	<input type="text"/>
Date	<input type="text" value="10/9/07"/>		



The Mine Manager
South Coast Concrete Crushing and Recycling
P O Box 192
Oak Flats NSW 2529

Contact: Helen Wheeler
Phone: (02) 4428 9133
Fax: (02) 4421 2172
email: Helen.wheeler@lands.nsw.gov.au

Attention: John Green

Our Ref: Trim 07/3416
Your Ref:

5 September 2007

Dear John

Re: Notification of Major Project Application – Lot 464 DP 1058778.

The Preliminary Environmental Assessment has been reviewed by this office and the Department has no objection to lodgement with the Department of Planning in accordance with the provisions of the Environment Planning and Assessment Act.

The Department has also forwarded its Key Issue requirements to the Department of Planning for use in the relevant Minister's requirements for the full Environmental Assessment report.

Please note that land previously referred to as Vacant Crown land has now been reserved across NSW; the relevant reference to lot 464 DP 1058778 is Part Parish Reserve 755952.

Yours sincerely

A handwritten signature in black ink, appearing to read "Helen Wheeler".

Helen Wheeler
Senior Environmental Officer
NSW Dept of Lands

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Appendix 2

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Director-General's Requirements for Environmental Assessment and Coverage of Requirements

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NSW GOVERNMENT
Department of Planning

Contact: Michael Young
Phone: 02 9228 6437
Fax: 02 9228 6466
Email: michael.young@planning.nsw.gov.au

Our ref: S07/00306

Mr John Green
Mine Manager
South Coast Concrete Crushing and Recycling Pty Ltd
PO Box 192
OAK FLATS NSW 2529

Dear Mr Green

**Director-General's Requirements
Nowra Brickworks Quarry Project
Project Application No: 07_0123**

The Department has received your project application for the Nowra Brickworks Quarry Project at South Nowra in the Shoalhaven local government area.

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

Please note that under section 75F(3) of the *Environmental Planning and Assessment Act 1979*, 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 and Water Resources in Canberra ((02) 6274 1111 or <http://www.environment.gov.au>) to determine if your proposal will require an approval under the EPBC Act. The Commonwealth Government has accredited the NSW environmental assessment process for assessing any impacts on matters of National Environmental Significance. As a result, 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 2 weeks before you propose to submit your Environmental Assessment of the project to determine:

- the fees applicable (see Division 1A, Part 15 of the *Environmental Planning & Assessment Regulation 2000*);
- whether the proposal requires an approval under the EPBC Act;
- the consultation and public exhibition arrangements that will apply; and
- the number of copies (hard-copy or CD-ROM) of the Environmental Assessment for exhibition purposes.

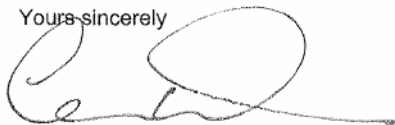
Department of Planning, 23-33 Bridge Street (GPO Box 39), Sydney, NSW 2001
Website www.planning.nsw.gov.au

As you may know, the Department will review the Environmental Assessment in consultation with the relevant authorities to determine if it adequately addresses the Director-General's requirements. If the Director-General considers the Environmental Assessment to be inadequate, you will be required to revise it prior to public exhibition.

The Director-General's requirements will be placed on the Department's website along with other relevant information which becomes available during the assessment of the project. As a result, the Department would appreciate it if all documents that are subsequently submitted to the Department are in a suitable format for the web, and if you would arrange for an electronic version of the Environmental Assessment for the project to be hosted on a suitable website with a link to the Department's website.

If you have any enquiries about these requirements, please contact Michael Young of the Department's Mining and Extractive Industries team, on (02) 9228 6437.

Yours sincerely



20.9.07

Chris Wilson
Executive Director
Major Project Assessments

As delegate of the Director-General

Director-General's Requirements

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

Application Number	07_0123
Project	The continuation and expansion of extractive operations at the Nowra Brickworks Quarry, which includes: <ul style="list-style-type: none"> • continued operation of the quarry and its expansion to the south; • extracting up to 350,000 tonnes of shale material a year; • transporting up to 500,000 tonnes of product a year from the site by road; • importing construction waste and quarry products for recycling; • importing up to 200,000 tonnes of virgin excavated natural material (VENM) for reprocessing and rehabilitation; and • progressively rehabilitating the site.
Site	Lot 464 DP 1058778, Princes Highway, South Nowra
Proponent	South Coast Concrete Crushing and Recycling Pty Ltd
Date of Issue	20 September 2007
Date of Expiration	20 September 2009
General Requirements	The Environmental Assessment must include: <ul style="list-style-type: none"> • an executive summary; • a detailed description of all components of the project including the: <ul style="list-style-type: none"> - quantity and quality of the extractive resource, the likely use of the resource, and whether or not a Mining Lease is still required given that the Proponent holds a Mining Lease for the extraction of brick clay/shale; - need for the project; - alternatives considered; and - various components and stages of the project; • consideration of any relevant statutory provisions, including the objects of the <i>Environmental Planning and Assessment Act 1979</i>; • an overview of all the environmental impacts of the project, identifying the key issues for further assessment, and taking into consideration the issues raised during consultation; • a detailed assessment of the key issues specified below and any other significant issues identified in the general overview of environmental impacts of the project (see above), which includes: <ul style="list-style-type: none"> - a description of the existing environment; - an assessment of the potential impacts of the project (in particular, the proposed South Coast Correctional Centre), including any cumulative impacts; - a description of the measures that would be implemented to avoid, minimise, mitigate, offset, manage and/or monitor the impacts of the project; • a draft Statement of Commitments, outlining environmental management, mitigation and monitoring measures; • a conclusion justifying the project, taking into consideration the environmental impacts of the project, the suitability of the site, and the benefits of the project; and • a signed statement from the author of the Environmental Assessment certifying that the information contained in the report is neither false nor misleading.
Key Issues	<ul style="list-style-type: none"> • Strategic – assess the potential impacts of the project on any strategic land use planning initiative that the Council may have for the Nowra-Bomaderry area; • Noise – including construction and operational noise and off-site road noise impacts;

	<ul style="list-style-type: none"> • Blasting and Vibration; • Air Quality; • Surface and Ground Water - including details of surface and ground water impacts and a site water balance; details of the proposed water management system including any creek diversions and sediment/water supply dams and water transfers to adjoining land; and a contingency strategy setting out the measures that would be implemented to minimise impacts on the supply of water (quality and quantity) to the environment and surrounding landowners; • Traffic and Transport – details of traffic volumes generated by the project and an assessment of the likely impacts of this traffic on the capacity and safety of the surrounding road network, taking into account the proposed upgrade of the Princes Highway and the construction of the Warra Warra Road roundabout; • Flora and Fauna – including impacts on threatened species, populations or endangered ecological communities or their habitats; and details of vegetation offsets to ensure that there is no net loss to the flora and fauna values of the area; • Visual; • Heritage – including Aboriginal and non-Aboriginal heritage; and • Rehabilitation and Final Land Form - including a justification for the proposed final land form and use in relation to any strategic land use objectives for the area; a detailed description of how the site would be progressively rehabilitated and integrated into the surrounding landscape; the measures that would be put in place to ensure sufficient financial resources are available to implement the proposed rehabilitation measures, and the ongoing management of the site following the cessation of extraction activities.
<p>References</p>	<p>The Environmental Assessment must take into account relevant State Government technical and policy guidelines. While not exhaustive, guidelines which may be relevant to the project are included in the attached list.</p>
<p>Consultation</p>	<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 should consult with:</p> <ul style="list-style-type: none"> • Department of Commerce; • Department of Environment and Climate Change; • Department of Lands; • Department of Primary Industries; • Department of Water and Energy; • Roads and Traffic Authority; and • Shoalhaven City Council. <p>The consultation process and the issues raised must be described in the Environmental Assessment.</p>
<p>Deemed refusal period</p>	<p>60 days</p>

Table A2-1
Director-General's Requirements from Relevant *Environmental Assessment* Sections
(Department of Planning – 20 September 2007)

Page 1 of 2

Paraphrased Requirement	Relevant EA Section
GENERAL	
The <i>Environmental Assessment</i> must include:	
<ul style="list-style-type: none"> • an executive summary; • a detailed description of all components of the project including the: <ul style="list-style-type: none"> - quantity and quality of the extractive resource, the likely use of the resource, and whether or not a Mining Lease is still required given that the Proponent holds a Mining Lease for the extraction of brick clay / shale; - need for the project; - alternatives considered; and - various components and stages of the project; • consideration of any relevant statutory provisions, including the objects of the <i>Environmental Planning and Assessment Act 1979</i>; • an overview of all the environmental impacts of the project, identifying the key issues for further assessment, and taking into consideration the issues raised during consultation; • a detailed assessment of the key issues specified below and any other significant issues identified in the general overview of environmental impacts of the project (see above), which includes: <ul style="list-style-type: none"> - a description of the existing environment; - an assessment of the potential impacts of the project (in particular, the proposed South Coast Correctional Centre), including any cumulative impacts; - a description of the measures that would be implemented to avoid, minimise, mitigate, offset, manage, and/or monitor the impacts of the project; • a draft Statement of Commitments, outlining environmental management, mitigation and monitoring measures; • a conclusion justifying the project, taking into consideration the environmental impacts of the project, the suitability of the site, and the benefits of the project; and • a signed statement from the author of the Environmental Assessment certifying that the information contained in the report is neither false nor misleading. 	<p align="center">Executive Summary</p> <p align="center">2.2.2</p> <p align="center">6</p> <p align="center">6.2</p> <p align="center">2.3 to 2.13</p> <p align="center">3.3.2</p> <p align="center">3</p> <p align="center">4.2</p> <p align="center">4.7</p> <p align="center">5</p> <p align="center">5</p> <p align="center">6</p> <p align="center">Covering Page</p>
STRATEGIC	
Assess the potential impacts of the project on any strategic land use planning initiative that the Council may have for the Nowra-Bomaderry area.	3.3.3 and 6.1.6
NOISE	
Determine construction and operational noise and off-site road noise impacts.	4.6.6 & 4.6.7
BLASTING AND VIBRATION	
Assess blasting and vibration impacts.	4.7.6
AIR QUALITY	
Assess air quality impacts.	4.5.6
SURFACE WATER AND GROUNDWATER	
Include details of surface and groundwater impacts and a site water balance.	4.2.5
Include details of the proposed water management system including any creek diversions and sediment / water supply dams and water transfers to adjoining land.	4.2.4

Table A2-1 (Cont'd)
Director-General's Requirements from Relevant *Environmental Assessment* Sections
(Department of Planning – 20 September 2007)

Page 2 of 2

Paraphrased Requirement	Relevant EA Section
SURFACE WATER AND GROUNDWATER (CONT'D)	
Include a contingency strategy setting out the measures that would be implemented to minimise impacts on the supply of water (quality and quantity) to the environment and surrounding landowners.	4.2.4
TRAFFIC AND TRANSPORT	
Include details of traffic volumes generated by the project and an assessment of the likely impacts of this traffic on the capacity and safety of the surrounding road network, taking into account the proposed upgrade of the Princes Highway and the construction of the Warra Warra roundabout.	4.3
FLORA AND FAUNA	
Determine impacts on threatened species, populations or endangered ecological communities or their habitats.	4.3.8
Include details of vegetation offsets to ensure that there is no net loss to the flora and fauna values of the area.	2.15.9
VISUAL	
Determine visual impacts.	4.10
HERITAGE	
Determine Aboriginal and non-Aboriginal heritage impacts.	4.8 and 4.12
REHABILITATION AND FINAL LAND FORM	
Include a justification for the proposed final land form and use in relation to any strategic land use objectives for the area.	2.15.3, 2.15.4 and 6.2.5
Include a detailed description of how the site would be progressively rehabilitated and integrated into the surrounding landscape.	2.15.5
Determine the measures that would be put in place to ensure sufficient financial resources are available to implement the proposed rehabilitation measures, and the ongoing management of the site following the cessation of extraction activities.	2.15.5
CONSULTATION	
<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"> • Department of Commerce; • Department of Environment and Climate Change; • Department of Lands; • Department of Primary Industries; • Department of Water and Energy; • Roads and Traffic Authority; and • Shoalhaven City Council. <p>The consultation process and the issues raised must be described in the <i>Environmental Assessment</i>.</p>	3.2

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

Page 1 of 10

Government Authority	Paraphrased Requirement	Relevant EA Section
GENERAL		
Department of Environment and Climate Change (7/9/07)	The DECC's key information requirements for the project are: <ul style="list-style-type: none"> the environmental impacts of the project; the impacts of the project on threatened species and their habitat; the impacts of the project on Aboriginal cultural heritage values; and the actions that will be taken to avoid or mitigate impacts or compensate to prevent unavoidable impacts identified above. 	4 4.3.8 4.8.6 4.3.7 and 4.8.5
	Provide details 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 zonings and potential sensitive receptors.	Sections 2 and 4.1
	Describe mitigation and management options. This should include an assessment of the effectiveness and reliability of the measures and any residual impacts after these measures are implemented.	Various Section 4
Department of Primary Industries (13/9/07)	Provide detailed information on the products and uses of the materials to be extracted from the quarry.	2.2.3
	Demonstrate that the size and quality of the resource have been adequately assessed and provide details of methods used to assess the resource.	2.2.2
	The <i>Environmental Assessment</i> should address the relevant issues outlined in the Mineral Resources Division's standard guidelines for the preparation of <i>Environmental Assessments</i> .	Various
	Provide possible downstream impacts on aquatic habitat. The <i>Environmental Assessment</i> should address other relevant issues outlined in the Fisheries Division's standard guidelines for <i>Environmental Assessment</i> preparation.	4.2.5
	The <i>Environmental Assessment</i> should address relevant issues in the Agriculture Division's general guidelines for quarry proposals.	Various
Shoalhaven City Council (7/9/07)	Provide a detailed assessment against the relevant statutory controls should be undertaken. The following as a minimum should be considered. <ul style="list-style-type: none"> State Environmental Planning Policy – Major Projects. State Environmental Planning Policy No. 11 – Traffic Generating Developments (ie. Schedule 1 development). State Environmental Planning Policy No. 33 – Hazardous and Offensive Development. State Environmental Planning Policy – Mining, Petroleum Production and Extractive Industries. Illawarra Regional Environmental Plan No. 1. Nowra Bomaderry Structure Plan. Shoalhaven Local Environmental Plan 1985 (as amended) – in particular Clauses 2, 9 (with specific reference to 1(b) and 1(f) zones), 23, 26 and 28. Development Control Plan No 18 (Carparking Code). Development Control Plan No. 78 (On Site Sewerage Management). Development Control Plan No. 93 (Controls for Waste Minimisation and Management). 	N/A

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

Page 2 of 10

Government Authority	Paraphrased Requirement	Relevant EA Section
GENERAL (CONT'D)		
Shoalhaven City Council (7/9/07)	Provide a description of the proposal is required that clearly identifies the works for which approval is sought including, but not limited to, the identification of: <ul style="list-style-type: none"> • maximum quantities of materials that will be extracted from the quarry annually; • maximum quantities of materials that will be brought into the quarry for blending with materials extracted from the site annually; • maximum quantities of VENM materials that will be brought into the site for rehabilitation purposes annually; and • details on the number and type of machinery to be used (ie. jaw crushers, cone crushers, screening plants etc) and other associated quarry infrastructure. 	2.1.3
	The applicant should provide details on works that are included under maintenance related activities including associated measures that will be implemented to minimise any environmental impacts and detail what additional staffing facilities will be supplied and / or constructed on site and how these will be serviced.	2.8
	The application should consider and be consistent with the Nowra Bomaderry Structure Plan. This proposed development should not jeopardise the viability of the proposed road network as per the Structure Plan.	3.3.3.2 and 6.2.6
	The applicant should detail if the development will: <ul style="list-style-type: none"> • in relation to water supply, require water supply; and • in relation to sewerage services, will the development require sewerage services. 	2.13.1
NOISE AND BLASTING		
Department of Environment and Climate Change (7/9/07)	The DECC notes the proposal is located on land adjoining the proposed South Coast Correctional facility. South Coast Concrete Crushing and Recycling (SCCCR) conduct regular blasting which may impact upon this proposal as it will be considered as the nearest sensitive receiver.	4.7.6
	The proposal must be designed, constructed, operated and maintained so that there are no adverse impacts from noise (including traffic noise).	4.6.7
Shoalhaven City Council (7/9/07)	A Noise Impact Assessment should be prepared by a suitably qualified practicing noise consultant. Sound levels should not exceed 5dB(A) above ambient background levels as measured from the property boundary of the nearest affected residence. Intrusive noise criteria to comply with DECC's Industrial Noise Policy. The assessment should detail measures to be put in place if it is determined that noise will be a problem.	4.6
	Vibration levels (especially during blasting operations) are to be addressed and monitoring carried out. Details of the monitoring proposed (including the location of monitoring stations) should be detailed including how blasting operations are undertaken and are in accordance with DECC requirements.	4.7.6

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

Page 3 of 10

Government Authority	Paraphrased Requirement	Relevant EA Section
ECOLOGY		
Department of Environment and Climate Change (7/9/07)	The proposal should be consistent with the principle pertaining to the potential biocertification of the Nowra / Bomaderry Structure Plan.	3.3.3.2
	Not all areas of the proposed site may be suitable for development and any development will need to avoid Endangered Ecological Communities and provide an appropriate buffer and asset protection zone.	4.3.3
	Threatened species that could potentially occur onsite and should be considered include: <ul style="list-style-type: none"> • Bush Stone-curlew; • Gang-gang Cockatoo; • Large forest owls; • Glossy Black cockatoo; • Yellow-bellied Glider • All Microchipterean bats; • Square Tailed Kite; • Grey headed Flying Fox; • Green and Golden Bell Frog; • <i>Cryptostylis hunteriana</i>; • Illawarra Greenhood; and • <i>Genoplesium baurei</i>. 	
	All survey work for these species should be undertaken at the appropriate time of year for each species to maximise the survey results.	
	All hollow bearing trees on site should be identified and marked on a map to be supplied within the <i>Environmental Assessment</i> . These hollow bearing trees should also be targeted for stag watches to indicate the presence or absence of hollow dependent fauna in particular micro bats, yellow bellied glider, squirrel gliders, Glossy black and Gang Gang cockatoos. All of these species will require an assessment of the use of the hollow bearing trees during the breeding period for each species.	4.3.4 and Figure 4.16
	The <i>Environmental Assessment</i> must describe what actions will be undertaken to avoid or mitigate impacts caused by the development on all threatened species described at the site.	4.3.7
Department of Lands (7/9/07)	The likely presence of threatened flora and fauna should be assessed for all threatened species, including the Bush Stone Curlew and Illawarra Greenhood Orchid.	4.3.3
	The survey should take account of the time of year when threatened species are likely to be present.	4.3.4
	Details of the methods used should be included in the <i>Environmental Assessment</i> .	4.3.4
	SEPP 44 – Koala Habitat should be addressed in the assessment.	4.3.8.5

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Requirements from Other Government Agencies from Relevant *Environmental Assessment* Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
ECOLOGY (CONT'D)		
Department of Water and Energy (6/9/07)	Existing vegetation within a width of 40m either side of Nowra Creek should be retained and protected as a <i>core riparian zone</i> (CRZ). The CRZ is to remain or become fully vegetated with local provenance native vegetation (including aquatic groundcovers, shrubs and other species) to a minimum width from the banks of the river.	2.4.2
	A <i>vegetated buffer</i> (VB) of 10m either side of the CRZ should be provided.	2.4.2
	The identified Riparian Corridor Objective Setting objectives be applied to this site and that the Brickworks Quarry Project be therefore developed in a manner which is consistent with maintaining / achieving these objectives.	4.3.7
	The EAR should outline an appropriate management regime for the riparian areas to ensure that the riparian lands continue to meet the recommended objectives. In this regard the preparation of a Vegetation Management Plan (VMP) for the Nowra Creek Riparian Corridor continued within the subject site would be appropriate.	4.3.7
Shoalhaven City Council (7/9/07)	A detailed flora and fauna survey(s) of the site should be prepared in accordance with "Threatened Biodiversity Survey and Assessment: Guidelines for Developments and Activities" Working Draft November 2004 by the NSW Department of Environment and Conservation, or any subsequent approved versions by the NSW Department of Environment and Climate Change (DECC).	4.3
	An ecological study of the receiving water is to be carried out in accordance with DECC requirements.	N/A
	It is noted that an Endangered Ecological Community (Swamp sclerophyll forest on coastal floodplains) is mapped as occurring on the site.	4.3.6
AIR QUALITY		
Department of Environment and Climate Change (7/9/07)	Details must be provided on proposed dust management strategies for all potential sources of dust.	4.5.3
	The <i>Environmental Assessment</i> must be conducted in accordance with the DECC publication " <i>Approved Methods for Modelling and Assessment of Pollutants in New South Wales</i> ".	4.5.5
	The <i>Environmental Assessment</i> must assess PM ₁₀ (24-hour and annual average), total suspended particulates and deposited dust impacts.	4.5.6
	The <i>Environmental Assessment</i> must include a cumulative assessment that examines the impacts of the proposal combined with all existing and approved dust generating activities.	4.5.6
Shoalhaven City Council (7/9/07)	An Air Quality Assessment Report prepared by a suitably qualified practicing air quality consultant should be undertaken. This report needs to address the public health implications. Details of air emissions, including dust, should be assessed as per Department of Environment and Conservation guidelines. The assessment should detail measures to be put in place if it is determined that the proposed development will have a negative impact upon air quality. If dust is found to be a potential issue, then a dust minimisation / management plan should be prepared.	4.5

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Requirements from Other Government Agencies from Relevant *Environmental Assessment* Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
SURFACE WATER AND GROUNDWATER		
Department of Environment and Climate Change (7/9/07)	The environmental outcomes for the project in relation to water should be: <ul style="list-style-type: none"> there is no pollution of waters (including surface and groundwater) during construction or occupation of the site by the final users; there is no inconsistency with any relevant Statement of Joint Intent established by the Healthy Rivers Commission; and It is acceptable in terms of the achievement or protection of the River Flow Objectives and Water Quality Objectives. 	4.2
	The <i>Environmental Assessment</i> must: <ul style="list-style-type: none"> take into account and complement Shoalhaven City Council's Integrated Water Cycle Management Plan which is currently being developed; and demonstrate that there is sufficient capacity to treat and manage the sewage that is generated by this development. 	N/A
Department of Lands (7/9/07)	A detailed field assessment of groundwater flows needs to be conducted prior to excavation, including the quantity of groundwater expected to yield from the 10m to 13m aquifer with the piezometric surface of 0.038m/m.	4.2.5.5
	The impact and management of this water should be addressed for the period of operation of the quarry.	4.2
	The likely behaviour of the groundwater surface following rehabilitation should be addressed.	4.2.5.5
Department of Water and Energy (6/9/07)	The EA should clearly demonstrate that the proposed depths of quarry extraction will not impact upon and be able to maintain the integrity of Nowra Creek and adjoining riparian vegetation.	4.2.5
	The EA should identify all water sources, water usage and water management details of the proposal are required, including design, layout, pumping and storage capacities, volumes of water to be used, all associated earthworks and infrastructure works etc.	4.2.4
	The EA should demonstrate how the proposed water demand and usage will impact on the surrounding water users including the water-dependent environment most notably, Nowra Creek.	4.2.5
	The EA will need to demonstrate the proposal's sustainability and its environmental merit.	6.3 and 6.4
	The EA should consider the issues outlined in the Groundwater Assessment Guidelines – Major Projects: Developments Impacting on Groundwater.	4.2
	A license or licences under Part 5 of the <i>Water Act, 1912</i> is / are required for each piezometer(s).	2.1.4
	If the excavation is deepened to a level that intercepts the groundwater table, groundwater licensing action will be triggered.	2.1.4

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Requirements from Other Government Agencies from Relevant *Environmental Assessment* Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
SURFACE WATER AND GROUNDWATER (CONT'D)		
Department of Water and Energy (6/9/07)	Any activities proposing the transfer of surface or groundwater from the quarry to adjoining lands / landuses will likely require licensing action. This matter should be clarified in the EAR and specific details of any proposed off-site water use to be provided.	N/A
Department of Natural Resources	The locations and conditions of any bores within 1 kilometre of the proposed development and the current and potential uses and users of groundwater in that area.	4.2.3.1
	A baseline assessment of the local and regional groundwater systems based on a reasonable period of monitoring at appropriate locations including: <ul style="list-style-type: none"> • the depth to the water table, hydraulic gradient, flow directions and rates, location of any recharge areas and discharge sites; • the geological characteristics in the area in relation to the vulnerability of the groundwater to pollution; • the ambient quality of groundwater in the area; and • the presence of environmentally sensitive areas in the vicinity of the proposal site, determination of the occurrence of any threatened or endangered species, and identification of the likely interaction of these ecosystems or communities with groundwater. 	4.2.3
	The potential for acid-related issues due to the presence of acid sulphate soils, if present in the area, considering impacts from the alteration of groundwater levels together with mitigation measures (including minimisation of disturbance of the material or the water table and treatment of disturbed soils or acid water), and details of the proposed monitoring program and response strategies should deleterious effects be observed.	2.3.5.2
	The potential for contaminated soils to exist on the site, the potential direct or indirect effects on groundwater, the need for remediation (including the level of remediation, the proposed methods to be used and a monitoring program to assess the progress of the decontamination) and the results of any correspondence with the NSW Department of Environment and Climate Change.	2.3.5.2
	An assessment of the potential risk of contamination of groundwater by activities associated with the development, including: <ul style="list-style-type: none"> • effects on groundwater recharge areas or aquifer intake areas; • the potential source of pollution, the likely transference of any pollutants to groundwater and measures to avoid contamination during construction and operation; • proposals for remediation should contamination occur; • an assessment of the potential impacts on existing and future uses of groundwater in the area considering both successful and unsuccessful site management and contaminant containment; and • an assessment of the adequacy of proposed construction and operational measures to prevent contamination of groundwater. 	4.2.5

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Requirements from Other Government Agencies from Relevant *Environmental Assessment*
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Government Authority	Paraphrased Requirement	Relevant EA Section
SURFACE WATER AND GROUNDWATER (CONT'D)		
Department of Natural Resources	Any constraints on the proposal due to soil characteristics, with regard to the potential for lateral or vertical movement of contaminants, considering the permeability of the subsoil structure or surface sealing characteristics, and an assessment of the likelihood of vertical or lateral seepage or flow to neighbouring properties, natural waterbodies or groundwater.	2.3.5.2
	Identification of the location and nature of any rising groundwater levels or salinisation problems, if present in the area, and an assessment of the potential for the proposal to contribute to the progression or expansion of these impacts.	N/A
	An assessment of the need to treat groundwater, stormwater, seepage water, tail water or process water prior to on-site use or discharge to meet beneficial use water quality objectives or other limits or guidelines, identification of the approvals required and details of the adequacy of protection provided by the proposal.	4.2.5.6
	Predictions of the effects of dewatering or depressurisation on the local and regional groundwater systems, identification of the approvals required and details of the adequacy of protection provided by the proposal.	4.2.5.5
	Definition of the potential impacts of any proposed water usage from a groundwater source (including on neighbouring users and environmental attributes), identification of the approvals required and details of the adequacy of protection provided by the proposal.	4.2.5.6
	Advice on the potential impacts on species, populations, or ecological communities or their habitats (including threatened or endangered species) either directly, or indirectly through changes to the groundwater regime (flow, pressure, level or quality), and details of the adequacy of protection provided by the proposal.	4.2.5.5
	Description of the proposed final use of the site and its compatibility with the surroundings, including: <ul style="list-style-type: none"> • the suitability of the site for the identified end use with regard to groundwater, permeability of soil and the type of material to be introduced to achieve any proposed final landform; • assessment of the potential groundwater impacts, long-term potential water quality problems and details of the proposed management if the final landform is proposed to include a recreation lake; • the general suitability of proposed soil material for rehabilitation purposes and the adequacy of measures to be adopted during the development of any final landform to prevent introduction of contaminated or unsuitable material; and • the adequacy of measures to ensure the groundwater will not become contaminated during and after the development of any final landform. 	2.15.4 and 4.2.5

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Requirements from Other Government Agencies from Relevant *Environmental Assessment* Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
SURFACE WATER AND GROUNDWATER (CONT'D)		
Department of Natural Resources	Details of a plan for the ongoing maintenance and monitoring of groundwater including: <ul style="list-style-type: none"> the key information to be monitored, impact assessment criteria and the reasons for monitoring; the monitoring locations, intervals and durations; procedures to be undertaken if the monitoring indicates a non-compliance or abnormality; internal reporting and links to management practices and action plans; reporting procedures to relevant authorities; the effectiveness of proposed management controls or mitigation measures; and the means for verification of predicted impacts of the proposal. 	4.2.6
	Outlines of strategies to feed information from the monitoring programs back into the management practices and action plans to improve the environmental performance and sustainability of all components of the proposal.	4.2.6
	Advice on the sustainability of the proposal described in terms of site-specific environmental performance requirements considering the vulnerability of the groundwater and the threats to other environmental factors.	4.2.5 and 6.4
	Assessments of the cumulative impacts of the proposal with regard to any other activities with similar impacts in the area interacting with the environment, and specifically groundwater.	N/A
Shoalhaven City Council (7/9/07)	A water balance model may be required and if so should be prepared by a suitable consultant and any impact on the nearest creek water quality assessed.	4.2.5.2
	An effluent disposal / wastewater report should be prepared, particularly addressing the needs of staff on site and ensuring compliance with Shoalhaven City Council Development Control Plan No. 78 – Effluent Disposal for Unsewered Areas.	N/A
	Measures for the control of stormwater should be outlined in a stormwater treatment plan which details the collection and mitigation of stormwater runoff and treatment of gross stormwater pollutants that will be generated during the operation of the proposed quarry.	4.2.4 and 4.2.5.2
CONTAMINATED LAND		
Department of Environment and Climate Change (7/9/07)	Document the assessment and management of any land contamination to ensure that the land is not allowed to be put to a use that is inappropriate because of the presence of contamination.	N/A
ABORIGINAL HERITAGE		
Department of Environment and Climate Change (7/9/07)	The <i>Environmental Assessment</i> should address and document the information requirements set out in the draft “Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation” involving surveys and consultation with the Aboriginal community.	4.8
	The <i>Environmental Assessment</i> must identify the nature and extent of impacts on Aboriginal cultural heritage values across the project area.	4.8.4

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Requirements from Other Government Agencies from Relevant *Environmental Assessment* Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
ABORIGINAL HERITAGE (CONT'D)		
Department of Environment and Climate Change (7/9/07)	The <i>Environmental Assessment</i> must describe the actions that will be taken to avoid or mitigate impacts or compensate to prevent unavoidable impacts of the project on Aboriginal cultural heritage values. This should include an assessment of the effectiveness and reliability of the measures and any residual impacts after these measures are implemented.	4.8.5
	The <i>Environmental Assessment</i> 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.	4.8.2.2
Department of Lands (7/9/07)	As the proposed use of the land involves excavation activities Native Titles may need to be addressed by the applicant.	N/A
Shoalhaven City Council (7/9/07)	An Indigenous and Non-Indigenous Cultural Heritage Assessment is to be prepared by a suitably qualified and practising consultant.	4.8 and 4.12
VENM IMPORTATION AND PLACEMENT		
Department of Lands (7/9/07)	The <i>Environmental Assessment</i> must address the type and quality of fill being brought onto the site for rehabilitation and the measures to assure no contaminants are imported into the site. The relevant guidelines, procedures and minimum requires for "certification, verification, placement and compaction" for this activity should be stated in the <i>Environmental Assessment</i> .	2.9
	The time between excavation and backfilling should be stated in the report.	2.4.5
Shoalhaven City Council (7/9/07)	Under no circumstances is any waste material to be introduced to the site for rehabilitation or any other purpose. All introduced fill is to be assessed prior to being brought onto the site in accordance with the DECC Guidelines for Assessing Solid Waste. Details of the process to be implemented to establish and document that all material being brought onto the site is "VENM" should be provided.	2.9
TRAFFIC		
Roads and Traffic Authority (6/9/07)	A traffic impact study (TIS) should be prepared in accordance with Table 2.1 of the <i>RTA Guide to Traffic Generating Developments</i> . This should include an assessment of peak hour traffic movements including staff movements and provide north / south trip distributions.	4.4
	The applicant should be aware that access to the Princes Highway is likely to be restricted to left in / left out in the future. The traffic assessment should consider the required access treatments for both scenarios (existing and future left in / left out).	4.4.5.4
	The applicant should confirm that blasting activities will not necessitate any closures of the Princes Highway.	2.4.4.2
Shoalhaven City Council (7/9/07)	Expanded access from the existing access driveway is not supported and Council's preference is for access to be at the proposed Warra Warra Road / Princes Highway roundabout. In addition, a Traffic Impact Study should be prepared in accordance with RTA guidelines.	2.11.3
VISUAL		
Shoalhaven City Council (7/9/07)	The visual impact of the proposed works needs to be clarified and assessed as part of the application and assessment process. The visual impact of the development needs to be quantified from relevant points (ie. adjoining lands, existing / proposed redevelopment areas, the Princes Highway etc).	4.10

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Requirements from Other Government Agencies from Relevant *Environmental Assessment* Sections

Government Authority	Paraphrased Requirement	Relevant EA Section
BUSHFIRE		
Shoalhaven City Council (7/9/07)	The subject site is identified on the Rural Fire Service 'bushfire prone lands map' as being bushfire affected. As such a bushfire assessment in accordance with the provisions of Planning for Bushfire Protection 2006 should be prepared. It is recommended that the bushfire assessment be prepared consistent with Clause 46 of the <i>Rural Fire Regulations 2002</i> .	4.11
SOCIO-ECONOMIC		
Shoalhaven City Council (7/9/07)	Details of economic implications during operation (jobs, expenditure locally etc.) needs to be assessed.	2.13.2, 2.13.3 and 4.13
SOILS		
Shoalhaven City Council (7/9/07)	An assessment of sediment and erosion control measures to be put in place (having regard where applicable for the requirements of the Landcom manual " <i>Soils and Construction, Managing Urban Stormwater, Vol 1 4th Edition, March 2004</i> " should be carried out. Issues such as, but not limited to, shake down areas and wheel wash for trucks are to be addressed to minimise soil movement off site.	2.3.5
	An assessment should be carried out by a suitable consultant to identify or discount the presence of acid sulphate soils on the site. If present on the site an Acid Sulfate Soil Management Plan will need to be prepared.	2.3.5 and 4.9
	Soil and topsoil handling and storage techniques used to minimise the storage time of individual stockpiles should also be stated.	4.3.5
REHABILITATION		
Shoalhaven City Council (7/9/07)	The site needs to be progressively rehabilitated as quarry activities progress towards the site's southern boundary. As such, a rehabilitation plan should be prepared by a suitably qualified consultant that provides details of the proposed final landform, a detailed description and timing of how / when the site will be progressively rehabilitated including planting / seeding densities and a maintenance regime etc.	2.15

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