

Director-General's Requirements

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

Application Number	MP 10_0014 and CP 10_0033
Project	The Badgerys Creek Quarry Project, which includes: • continuing quarry and brickmaking operations for a further 20 years; • increasing the rate of extraction from 200,000 to 420,000 tonnes per year; • producing up to 252,000 tonnes of bricks per year; and • rehabilitating the site.
Location	Martin Road, Badgery's Creek
Proponent	Boral Bricks Pty Ltd
Date of Issue	4 March 2010
General Requirements	The Environmental Assessment of the project must include: • an executive summary; • a detailed description of: - existing and approved development on site, including a copy of all statutory approvals that apply to this development; and - the existing environmental management and monitoring regime; • a detailed description of the project, including: - the need for the project; - alternatives considered; - the development to be carried out both on site , including plans of all the proposed building and extractive works, and off-site, particularly with respect to road works; - detailed plans of the proposed rehabilitation of the site, and how the rehabilitation of the site would be integrated with the development of the proposed industrial area around the site; and - likely staging of the project. • a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment; • a detailed assessment of the key issues specified below, and any other significant issues identified in the risk assessment (see above), which includes: - a description of the existing environment, using sufficient baseline data; - an assessment of the potential impacts of all stages of the project, including any cumulative impacts, taking into consideration any relevant policies, guidelines, plans and statutory provisions (see below) - a description of the measures that would be implemented to avoid, minimise, mitigate and (if necessary) offset the potential impacts of the project, including detailed contingency plans for managing any significant risks to the environment; • a statement of commitments, outlining all the proposed environmental management and monitoring measures; • 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 & Assessment Act 1979</i>; and • a signed statement from the author of the Environmental Assessment, certifying that the information contained within the document is neither false nor misleading.
Key Issues	• Strategic Planning – Justify the ongoing operations of the brickworks on site, which are currently prohibited in the land use zone; • Noise – including construction noise, operational noise and off-site road noise impacts; • Transport – including: - accurate predictions of the project's road traffic and a detailed assessment of the potential impacts of project related traffic on the safety and efficiency of road networks; and

	- a detailed description of the measures that would be implemented to upgrade and/or maintain these networks over the life of the project; • Air Quality; • Greenhouse Gas – including: - a quantitative assessment of the potential scope 1, 2 and 3 greenhouse gas emissions of the project, and qualitative assessment of the potential impacts of these emissions on the environment; and - a detailed description of the measures that would be implemented on site to minimise the greenhouse gas emissions of the project; • Soil & Water – including: - a site water balance; - a detailed description of the proposed water management system; - a detailed assessment (including modelling) of the potential surface and groundwater impacts of the project, paying particular attention to the potential impacts on Badgerys Creek and its riparian zone; and - an assessment of potential flood impacts; • Visual – including a detailed description of the measures that would be implemented to minimise the visual impact of the project; • Biodiversity – including: - accurate predictions of any vegetation clearing on site; - a detailed assessment of the potential impacts of the project on terrestrial and aquatic threatened species, populations, ecological communities, habitats or on any groundwater dependent ecosystems; and - a detailed description of the measures to maintain or improve the biodiversity values within the project area in the medium to long term; • Heritage – including Aboriginal and non-Aboriginal heritage; • Waste; • Quarry Closure and Rehabilitation – including: - a detailed description of the proposed measures that would be undertaken during quarry closure; - a detailed rehabilitation strategy, including justification for the proposed final land form and taking into consideration the objectives of any relevant strategic land use plans or policies, including but not limited to the <i>State Environmental Planning Policy (Sydney Region Growth Centres) 2006</i>; and - the measures that would be undertaken to ensure sufficient financial resources are available to implement the proposed rehabilitation strategy; and • Social & Economic – including an assessment of the socio-economic impacts of the project, and the demand on local infrastructure and services.
References	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.
Consultation	During the preparation of the Environmental Assessment, you should consult with the relevant local, State or Commonwealth Government authorities, service providers, community groups or affected landowners. In particular you must consult with the: • Department of Environment, Climate Change and Water; • Department of Industry and Investment; • Roads and Traffic Authority; and • Liverpool City Council. The consultation process, and the issues raised during this process, must be described in the Environmental Assessment.
Deemed refusal period	60 days

Policies, Guidelines & Plans

Aspect	Policy /Methodology
Risk	
	AS/NZS 4360:2004 Risk Management (Standards Australia)
	HB 203: 203:2006 Environmental Risk Management – Principles & Process (Standards Australia)
	Risk Management Handbook for the Mining Industry (DPI)
	Risk Management Policy Framework for Dam Safety (Dam Safety Committee)
Noise	
	NSW Industrial Noise Policy (DECC)
	Environmental Criteria for Road Traffic Noise (NSW EPA)
	Draft NSW Construction Noise Guideline (DECC)
Transport	
	Guide to Traffic Generating Development (RTA)
	Road Design Guide (RTA)
Air Quality	
	Protection of the Environment Operations (Clean Air) Regulation 2002
	Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC)
	Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (DEC)
Greenhouse Gas	
	National Greenhouse Accounts (NGA) Factors (AGO)
	Guidelines for Energy Savings Action Plans (DEUS)
Soil and Water	
	National Water Quality Management Strategy: Australian Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems – Effluent Management (ARMCANZ/ANZECC)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems – Use of Reclaimed Water (ARMCANZ/ANZECC)
	Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC)
	State Water Management Outcomes Plan
<i>Surface Water</i>	NSW Government Water Quality and River Flow Environmental Objectives (DECC)
	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC)
	Managing Urban Stormwater: Soils & Construction (Landcom)
	Managing Urban Stormwater Volume 2E: Mines and Quarries (DECC)
	Managing Urban Stormwater: Treatment Techniques (DECC)
	Managing Urban Stormwater: Source Control (DECC)
	Floodplain Management Manual (DNR)
	Floodplain Risk Management Guideline (DECC)
	A Rehabilitation Manual for Australian Streams (LWRRDC and CRCCH)
<i>Groundwater</i>	National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)
	NSW State Groundwater Policy Framework Document (DLWC)
	NSW State Groundwater Quality Protection Policy (DLWC)

	NSW State Groundwater Quantity Management Policy (DLWC) Draft Draft Guidelines for the Assessment & Management of Groundwater Contamination (DECC)
Biodiversity	
	Draft Guidelines for Threatened Species Assessment under Part 3A of the <i>Environmental Planning and Assessment Act 1979</i> (DEC)
	NSW Groundwater Dependent Ecosystem Policy (DLWC)
	Policy & Guidelines - Aquatic Habitat Management and Fish Conservation (NSW Fisheries)
	Policy & Guidelines - Fish Friendly Waterway Crossings (NSW Fisheries)
	State Environmental Planning Policy No. 44 – Koala Habitat Protection
Heritage	
<i>Aboriginal</i>	Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC)
<i>Non- Aboriginal</i>	NSW Heritage Manual (NSW Heritage Office & DUAP) The Burra Charter (The Australia ICOMOS charter for places of cultural significance)
Waste	
	Waste Classification Guidelines (DECC)
Rehabilitation	
	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)
	Strategic Framework for Mine Closure (ANZMEC/MCA)
Social & Economic	
	Draft Economic Evaluation in Environmental Impact Assessment (DOP)
	Techniques for Effective Social Impact Assessment: A Practical Guide (Office of Social Policy, NSW Government Social Policy Directorate)