

Director-General's Requirements

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

Application Number	09_0155
Project	The Tomingley Gold Project, which includes: • constructing, operating and rehabilitating an open cut gold mine and associated infrastructure; • extracting and processing up to 1 million tonnes of gold ore per year for up to 9 years; and • transporting the processed ore from the site via road.
Location	Approximately 53 kilometres southwest of Dubbo
Proponent	Alkane Resources Limited
Date of Issue	9 September 2009
General Requirements	The Environmental Assessment must include • an executive summary; • a detailed description of the project including: - the need for the project; - a detailed resource and land use assessment; - alternatives considered, including a detailed justification for the proposed mine plan; - likely staging of the project; and - plans of any proposed building works; • 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 and its values, 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 guidelines, policies, plans and statutory provisions (see below); - a description of the measures that would be implemented to avoid, minimise and, if necessary, offset the potential impacts of the project, and ensure that the project is in the public interest and meets the net benefit test - detailed contingency plans for managing any potentially significant risks to the environment; • a statement of commitments; • 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>, including the principles of ecological sustainable development; 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	• Noise and Blasting – including construction, operational and road traffic noise; • Soil and Water – including: - a detailed site water balance; - a detailed groundwater model; - potential water quality impacts on the environment and other land users, including a geochemical assessment of the potential leachate impacts; and

	- a description of final void water management; • Hazards – including a detailed description of the measures and safeguards that would be implemented to minimise the risks associated with transporting, handling and using cyanide. • Biodiversity – including: - accurate estimates of any vegetation disturbance associated with the project - impacts on threatened species, populations or ecological communities; critical habitats; and native vegetation generally; - a detailed description of the measures that would be implemented to maintain or improve the biodiversity values region in the medium to long term; • Visual – including landform and lighting impacts; • Heritage – both Aboriginal and non-Aboriginal; • Air Quality; • Traffic – including a detailed description of the measures that would be implemented during construction and operation to minimise impacts on the Newell Highway and Tomingley West Road; • Waste – including: - accurate estimates of the quantity and nature of the potential waste streams of the project; - a detailed description of the measures that would be implemented to minimise, reuse, recycle and dispose of any waste produced on site, including tailings and waste rock; • Energy – calculate the scope 1, 2 and 3 emissions of the mining operations and describe what measures would be implemented to ensure these operations are energy efficient; • Rehabilitation– including a detailed strategy that describes: - how the site would be progressively rehabilitated and integrated into the landscape; and - what measures would be put in place for the long term protection and management of the site following cessation of mining, taking into consideration any relevant strategic land use planning or resource management plans or policies; and • Socio-economic.
References	The environmental assessment of the project must take into account relevant State Government guidelines, policies and plans. While not exhaustive, the following attachment contains a list of some guidelines, policies and plans that may be relevant to the environmental assessment of this project on the existing and proposed development in the vicinity of the site.
Consultation	During the preparation of the Environmental Assessment, you should undertake an appropriate level of consultation with the relevant local, State or Commonwealth government authorities, service providers, community groups or affected landowners. In particular you must consult with the: • Commonwealth Department of Environment, Water, Heritage and the Arts; • Department of Environment, Climate Change and Water; • Department of Industry and Investment; • Department of Transport and Infrastructure; • NSW Heritage Office; • Department of Services, Technology & Administration; and • Parkes and Narromine Shire Councils. Both the consultation process, and the issues raised during this consultation process, must be described in the environmental assessment.
Deemed Refusal Period	90 days

Policies, Guidelines & Plans

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 & Blasting	
	NSW Industrial Noise Policy (DECC)
	Environmental Criteria for Road Traffic Noise (NSW EPA) May 1999
	Environmental Noise Management Manual (RTA) Dec 2001
	Interim Construction Noise Guideline (DECC)
	Technical Basis for Guidelines to Minimise Annoyance due to Blasting Overpressure and Ground Vibration (ANZECC) Sep 1990
	Assessing Vibration: a technical guideline (DEC) Feb 2006
Soil and Water	
Soil	Rural Land Capability Mapping (DLWC)
	Agricultural Land Classification (DPI)
	Draft Guidelines for the Assessment & Management of Groundwater Contamination (DECC)
Surface Water	National Water Quality Management Strategy: Water quality management - an outline of the policies (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Policies and principles - a reference document (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Implementation guidelines (ANZECC/ARMCANZ)
	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)
	Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC)
	State Water Management Outcomes Plan
	NSW Government Water Quality and River Flow Environmental Objectives (DECC)
	Managing Urban Stormwater: Soils & Construction (Landcom)
	Managing Urban Stormwater: Treatment Techniques (DECC)
Groundwater	Managing Urban Stormwater: Source Control (DECC)
	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
Hazards	
	State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
	Applying SEPP 33 – Hazardous and Offensive Development Application Guidelines (DUAP)
	Multi-Level Risk Assessment
	Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis

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)
Heritage	
<i>Aboriginal</i>	Ask First; A Guide to Respecting Indigenous Heritage Places and Values (AHC) 2002
	Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC)
<i>Non- Aboriginal</i>	The Australia ICOMOS Burra Charter for Places of Cultural Significance 1999
	The Australian Natural Heritage Charter (For the Conservation of Places of Natural Heritage Significance) 2 nd ed. 2002
	Statements of Heritage Impact (NSW Heritage Office)
	NSW Heritage Manual: Assessing Heritage Significance (NSW Heritage Office) 2001
	NSW Heritage Manual: Conservation Management Documents 1996
	NSW Heritage Manual: Heritage Terms and Abbreviations 1996
	Historical Archaeology Code of Practice (NSW Heritage Council DoP) 2006
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)
Traffic & Transport	
	Guide to Traffic Generating Development (RTA)
	Road Design Guide (RTA)
Waste	
	NSW Waste Avoidance and Resource Recovery Strategy 2007 (DECC)
	NSW Waste Avoidance and Resource Recovery Strategy Performance Report 2006 (DECC)
	Waste Classification Guidelines: Part 1 Classification of Waste (DECC) 2008
Greenhouse Gas	
	AGO Factors and Methods Workbook (AGO)
	Guidelines for Energy Savings Action Plans (DEUS, 2005)
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)