

Secretary's Environmental Assessment Requirements

State Significant Development

Section 78A(8A) of the *Environmental Planning and Assessment Act 1979*

Application Number	SSD 6519
Proposal	<p>The Dolwende Quarry Project, which involves:</p> <ul style="list-style-type: none"> • establishing a new quarry to extract up to 6.5 million tonnes of gravel material over a period of 26 years, at a rate of up to 250,000 tonnes a year; • developing associated infrastructure to support the quarrying operations; • processing extracted material on site; • exporting product off-site by truck; and • rehabilitating the site.
Location	Merriwa Road, Hollydeen
Applicant	Hunter Holdings Pty Ltd
Date of Issue	22 April 2015
General Requirements	<p>The Environmental Impact Statement (EIS) for the development must comply with the requirements in Clauses 6 and 7 of Schedule 2 of the <i>Environmental Planning and Assessment Regulation 2000</i>.</p> <p>In particular, the EIS must include:</p> <ul style="list-style-type: none"> • a full description of the development, including: <ul style="list-style-type: none"> – the resource to be extracted, demonstrating efficient resource recovery within environmental constraints, and having regard to NSW Trade and Investment's requirements (see Attachment 2); – the site layout and extraction plan; – processing activities; – a waste (overburden, leachate, etc.) management strategy, dealing with the EPA's requirements (see Attachment 2); – a water management strategy, dealing with the EPA's and Department of Primary Industries' requirements (see Attachment 2); – a rehabilitation strategy, having regard to the key principles in the <i>Strategic Framework for Mine Closure</i>; and – the likely interactions between the development and any other existing, approved or proposed extractive industry development in the vicinity of the site (such as the Mangoola mine); • a list of any approvals that must be obtained before the development may commence; • an assessment of the likely impacts of the development on the environment, focussing on the specific issues identified below, including: <ul style="list-style-type: none"> – a description of the existing environment likely to be affected by the development, <u>using sufficient baseline data</u>; – an assessment of the likely impacts of all stages of the development, including any cumulative impacts, taking into consideration any relevant laws, environmental planning instruments, guidelines, policies, plans and industry codes of practice; – a description of the measures that would be implemented to mitigate and/or offset the likely impacts of the development, and an assessment of: <ul style="list-style-type: none"> ○ whether these measures are consistent with industry best practice, and represent the full range of reasonable and feasible mitigation measures that could be implemented; ○ the likely effectiveness of these measures; and ○ whether contingency plans would be necessary to manage any

	<p style="text-align: center;">residual risks; and</p> <ul style="list-style-type: none"> - a description of the measures that would be implemented to monitor and report on the environmental performance of the development if it is approved; • a consolidated summary of all the proposed environmental management and monitoring measures, identifying all the commitments in the EIS; • consideration of the development against all relevant environmental planning instruments (including Part 3 of the <i>State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007</i>); and • the reasons why the development should be approved having regard to biophysical, economic and social considerations, including the principles of ecologically sustainable development. <p>While not exhaustive, Attachment 1 contains a list of some of the environmental planning instruments, guidelines, policies, and plans that may be relevant to the environmental assessment of this development.</p> <p>In addition to the matters set out in Schedule 1 of the <i>Environmental Planning and Assessment Regulation 2000</i>, the development application must be accompanied by a signed report from a suitably qualified expert that includes an accurate estimate of the:</p> <ul style="list-style-type: none"> • capital investment value (as defined in Clause 3 of the <i>Environmental Planning and Assessment Regulation 2000</i>) of the development, including details of all the assumptions and components from which the capital investment value calculation is derived; and • jobs that would be created during each stage of the development.
<p>Key Issues</p>	<p>The EIS must address the following specific matters:</p> <ul style="list-style-type: none"> • Air – including: <ul style="list-style-type: none"> - an assessment of the likely air quality impacts of the development in accordance with the <i>Approved Methods for the Modelling and Assessment of Air Pollutants in NSW</i> and the EPA's additional requirements (see Attachment 2); - assessment of the likely greenhouse gas emissions of the development, dealing with the EPA's requirements (see Attachment 2); • Noise – including: <ul style="list-style-type: none"> - an assessment of the likely operational noise impacts of the development in accordance with the <i>NSW Industrial Noise Policy (INP)</i> particular attention to the obligations in Chapters 8 and 9 of the policy; - if a claim is made for specific construction noise criteria for certain activities, then this claim must be justified and accompanied by an assessment of the likely construction noise impacts of these activities under the <i>Interim Construction Noise Guideline</i>; and - an assessment of the likely road noise impacts of the development under the <i>NSW Road Noise Policy</i>; • Blasting – including: <ul style="list-style-type: none"> - proposed hours, frequency and methods; and - an assessment of the likely blasting impacts of the development on people, animals, buildings and infrastructure and significant natural features having regard to the relevant ANZECC guidelines; • Water – including: <ul style="list-style-type: none"> - an assessment of the likely impacts of the development on the quantity and quality of the region's surface and groundwater resources, having regard to the EPA's and Department of Primary Industries' requirements (see Attachment 2); and - an assessment of the likely impacts of the development on aquifers, watercourses, riparian land, water-related infrastructure, and other water users; • Land – including: <ul style="list-style-type: none"> - an assessment of the likely impacts of the development on the soils,

	<p>land capability;</p> <ul style="list-style-type: none"> - and assessment of the likely impact of the development on landforms (topography), paying particular attention to the long term geotechnical stability of any new landforms (such as overburden dumps); and - an assessment of the compatibility of the development with other land uses in the vicinity of the development in accordance with the requirements in Clause 12 of <i>State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007</i>; <ul style="list-style-type: none"> • Biodiversity – including: <ul style="list-style-type: none"> - an assessment of the likely biodiversity impacts of the project, having regard to OEH’s and DPI’s requirements (see Attachment 2); - an offset strategy to ensure the development maintains and improves the biodiversity values of the region in the medium to long term; • Heritage – including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, having regard to OEH’s requirements (see Attachment 2); • Visual – including an assessment of the likely visual impacts of the development on private landowners in the vicinity of the development and key vantage points in the public domain, paying particular attention to the creation of any new landforms (noise bunds, etc.); • Hazards – including an assessment of the likely risks to public safety, paying particular attention to potential bushfire risks and the transport, handling and use of any dangerous goods; and • Social & Economic – including an assessment of the likely economic and social impacts of the development.
<p>Consultation</p>	<p>During the preparation of the EIS, you must consult with relevant local, State and Commonwealth Government authorities, service providers, Aboriginal Stakeholders, community groups and affected landowners.</p> <p>The EIS must describe the consultation that was carried out, identify the issues raised during this consultation, and explain how these issues have been addressed in the EIS.</p>

ATTACHMENT 1

Environmental Planning Instruments, Policies, Guidelines & Plans

Air	
	Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (EPA)
	Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (EPA)
	Coal Mine Particulate Matter Control Best Practice – Site Specific Determination Guideline (EPA)
	Generic Guidance and Optimum Model Settings for the CALPUFF Modelling System for Inclusion into the 'Approved Methods for the Modelling and Assessments of Air Pollutants in NSW, Australia'
	National Greenhouse Accounts Factors (Commonwealth)
Noise & Blasting	
	NSW Industrial Noise Policy and associated Application Notes (EPA)
	Interim Construction Noise Guideline (DECC 2009)
	NSW Road Noise Policy (EPA)
	Technical basis for guidelines to minimise annoyance due to blasting overpressure and ground vibration (ANZECC)
Water	
Water Sharing Plans	Water Sharing Plan for the Wybong Creek Water Source 2003
Groundwater	NSW State Groundwater Policy Framework Document (NOW)
	NSW State Groundwater Quality Protection Policy (NOW)
	NSW State Groundwater Quantity Management Policy (NOW)
	NSW Aquifer Interference Policy 2012 (NOW)
	Office of Water Guidelines for Controlled Activities (2012)
	Groundwater Monitoring and Modelling Plans – Information for prospective mining and petroleum exploration activities (NOW)
	Australian Groundwater Modelling Guidelines 2012 (Commonwealth)
	National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)
	Guidelines for the Assessment & Management of Groundwater Contamination (EPA)
Surface Water	NSW Government Water Quality and River Flow Objectives (EPA)
	Using the ANZECC Guideline and Water Quality Objectives in NSW (EPA)
	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)
	NSW Water Conservation Strategy (2000)
	State Water Management Outcomes Plan
	NSW State Rivers and Estuary Policy (1993)
	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (EPA)
	Managing Urban Stormwater: Soils & Construction (Landcom) and associated Volume 2E: Mines and Quarries (EPA)
	Managing Urban Stormwater: Treatment Techniques (EPA)
	Managing Urban Stormwater: Source Control (EPA)
	Technical Guidelines: Bunding & Spill Management (EPA)
	Environmental Guidelines: Use of Effluent by Irrigation (EPA)

	A Rehabilitation Manual for Australian Streams (LWRRDC and CRCCH) NSW Guidelines for Controlled Activities on Waterfront Land (NOW)
Land	Soil and Landscape Issues in Environmental Impact Assessment (NOW) Agfact AC25: Agricultural Land Classification (NSW Agriculture) Agricultural Issues for Extractive Industries (NSW Trade and Investment) State Environmental Planning Policy No. 55 – Remediation of Land Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (ANZECC)
Traffic	Guide to Traffic Generating Development (RMS) Road Design Guide (RMS) & relevant Austroads Standards
Biodiversity	Draft NSW Biodiversity Offset Policy Guidelines for Threatened Species Assessment (DP&E) BioBanking Assessment Methodology (OEH) NSW State Groundwater Dependent Ecosystem Policy (NOW) Risk Assessment Guidelines for Groundwater Dependent Ecosystems (NOW) State Environmental Planning Policy No. 44 – Koala Habitat Protection
Heritage	The Burra Charter (The Australia ICOMOS charter for places of cultural significance) Draft Guidelines for Aboriginal Cultural Heritage Assessment and Community Consultation (DP&E) Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH) NSW Heritage Manual (OEH) Statements of Heritage Impact (OEH) Hunter Regional Environmental Plan 1989 (Heritage)
Public Safety	State Environmental Planning Policy No. 33 – Hazardous and Offensive Development Hazardous and Offensive Development Application Guidelines – Applying SEPP 33 Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis
Waste	Waste Classification Guidelines (EPA)
Rehabilitation	Mine Rehabilitation – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth) Mine Closure and Completion – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth) Strategic Framework for Mine Closure (ANZMEC-MCA)
Environmental Planning Instruments - General	State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007 State Environmental Planning Policy (State and Regional Development) 2011 State Environmental Planning Policy (Infrastructure) 2007 Muswellbrook Local Environment Plan 2009

ATTACHMENT 2

Agency Correspondence