



Planning & Environment

Resource Assessments

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Mr Jim Lawler
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Dear Mr Lawler

State Significant Development - Modified Secretary's Requirements Coraki Quarry Project (SSD 7036)

The Department has modified the Secretary's requirements in response to your emails dated 2, 21, 24 and 27 July 2015. The only changes made to the requirements are in relation to the description and location of the project.

Please note that the Secretary may alter these requirements at any time.

If you have any enquiries about these requirements, please contact Swati Sharma at the details listed above.

Yours sincerely

Howard Reed
Director 30-7-15
Resource Assessments
as the Secretary's delegate

Secretary's Environmental Assessment Requirements

State Significant Development

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

Application Number	SSD 7036
Proposal	<p>The Coraki Quarry Project, which involves:</p> <ul style="list-style-type: none"> • establishing a new quarry to extract a maximum of 1 million tonnes/year of hard rock material over an operating life of approximately 7 years; • using a portion of the existing Petersons Quarry to establish and operate a processing plant for Coraki Quarry; • using the Petersons Quarry road access to access Coraki Quarry; • transporting material off-site by trucks, primarily to supply upgrade works on the Pacific Highway; and • rehabilitating the site.
Location	<p>Lot 401 DP 633427; Lot 402 DP 802985; Lot 403 DP 802985; Lot 408 DP 1166287; Lot A DP 397946; Lot A DP 389418; Lot 3 DP 701197; Lot 2 DP 954593; Lot 1 DP 954592; and Lot 1 DP 310757, Seelems Road, Coraki in the Richmond Valley local government area.</p>
Applicant	Quarry Solutions Pty Ltd
Date of Issue	22 May 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 need for the development; – the resource to be extracted, including the amount, type and composition, having regard to DRE's and EPA's requirements (see Attachment 2); – the site layout and extraction plan, including cross-sectional plans; – the production process and processing activities, including the in-flow and out-flow of materials and points of discharge to the environment; – surface infrastructure and facilities (including any infrastructure that would be required for the development, but the subject of a separate approvals process); – a waste (overburden, rejects, tailings, etc.) management strategy, having regard to EPA's requirements (see Attachment 2); – a water management strategy, having regard to EPA's and DPI's requirements (see Attachment 2); – a rehabilitation strategy to apply during, and after completion of, extraction operations, and proposed final use of site; and – the likely interactions between the development and any other existing, approved or proposed extractive industry development in the vicinity of the site (including the adjacent Petersons Quarry); • 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, using sufficient baseline data;

	<ul style="list-style-type: none"> – 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 residual risks; and – a description of the measures that would be implemented to monitor and report on the environmental performance of the development if it is approved; <ul style="list-style-type: none"> • 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"> • Land Resources – including a detailed assessment of: <ul style="list-style-type: none"> - potential impacts on soils and land capability (including potential erosion and land contamination); - potential impacts on landforms (topography), paying particular attention to the long term geotechnical stability of any new landforms (such as overburden dumps); - potential impacts on areas of regionally significant farmland and associated industries, having regard to the requirements of DPI (see Attachment 2); and - 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>. • Traffic & Transport – including: <ul style="list-style-type: none"> - accurate predictions of the road traffic generated by the construction and operation of the development, including cumulative traffic levels associated with the adjacent Petersons Quarry, and a description of the types of vehicles likely to be used for transportation of quarry products, the public roads in the Richmond Valley LGA likely to be so used and the times during which those roads would be so used; - a detailed assessment of potential traffic impacts on the capacity, condition, safety and efficiency of the local and State road network (as identified above), having regard to the requirements of the Richmond Valley Council and RMS (see Attachment 2); and - a detailed description of the measures or works (including concept plans)

that would be used and/or implemented to upgrade, maintain and improve the capacity, efficiency and safety of the road network used by the development.

- **Blasting & Vibration** – including:
 - proposed hours, frequency, methods and impacts; and
 - an assessment of the likely blasting impacts of the development on people, buildings, animals, infrastructure and significant natural features having regard to the relevant ANZECC guidelines.
- **Air Quality** – including a quantitative assessment of potential:
 - construction and operational impacts, with a particular focus on dust emissions including PM_{2.5} and PM₁₀;
 - dust generation from blasting and processing, as well as diesel emissions and dust generated from the transportation of quarry products;
 - reasonable and feasible mitigation measures to minimise dust and diesel emissions; and
 - monitoring and management measures, in particular, real-time air quality monitoring.
- **Noise** – including a quantitative assessment of potential:
 - construction, operational and off-site transport noise impacts in accordance with the *Interim Construction Noise Guideline*, *NSW Industrial Noise Policy* and the *NSW Road Noise Policy* respectively;
 - reasonable and feasible mitigation measures to minimise noise emissions; and
 - monitoring and management measures, in particular real-time and attended noise monitoring.
- **Water** – including:
 - detailed assessment of potential impacts on the quality and quantity of existing surface and ground water resources, including impacts on the regional water supply, having regard to the requirements of DPI (see Attachment 2);
 - an assessment of Acid Sulfate Soils on the site and outline mitigation and management measures to limit potential impacts on surface water and ground water in the local and regional area;
 - a detailed site water balance and an assessment of any volumetric water licensing requirements, including a description of site water demands, water disposal methods (inclusive of volume and frequency of any water discharges), water supply infrastructure and water storage structures;
 - an assessment of proposed water discharge quantities and quality against receiving water quality and flow objectives;
 - an assessment of the likely flooding impacts of the development;
 - identification of any licensing requirements or other approvals under the *Water Act 1912* and/or *Water Management Act 2000*;
 - demonstration that water for the construction and operation of the development can be obtained from an appropriately authorised and reliable supply in accordance with the operating rules of the *Water Sharing Plan for the Richmond River Unregulated, Regulated and Alluvial Water Sources 2010* (or any other relevant Water Sharing Plan (WSP));
 - a description of the measures proposed to ensure the development can operate in accordance with the requirements of any relevant WSP or water source embargo, having regard to the requirements of DPI (see Attachment 2); and
 - a detailed description of the proposed water management system (including sewage), water monitoring program and other measures to mitigate surface and groundwater impacts.
- **Biodiversity** – including:
 - an assessment of the likely biodiversity impacts, having regard to OEH's and DPI's requirements (see Attachment 2); and
 - an offset strategy (depending on the outcomes of the assessment of biodiversity impacts) 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);

	<ul style="list-style-type: none"> • 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; • Social & Economic – including: <ul style="list-style-type: none"> - an assessment of potential impacts on local and regional communities including impacts on social amenity; - a detailed description of the measures that would be implemented to minimise the adverse social and economic impacts of the development, including any infrastructure improvements, or contributions and/or voluntary planning agreement or similar mechanism; and - a detailed assessment of the costs and benefits of the development as a whole, and whether it would result in a net benefit for the NSW community. • Rehabilitation – including the proposed rehabilitation strategy for the site having regard to the key principles in the <i>Strategic Framework for Mine Closure</i>, including: <ul style="list-style-type: none"> - rehabilitation objectives, methodology, monitoring programs, performance standards and proposed completion criteria; - nominated final land use, having regard to any relevant strategic land use planning or resource management plans or policies; and - the potential for integrating this strategy with any other rehabilitation and/or offset strategies in the region.
Consultation	<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>In particular, you must consult with the:</p> <ul style="list-style-type: none"> • Office of Environment and Heritage (including the Heritage Branch); • Environment Protection Authority; • Division of Resources and Energy within the Department of Trade and Investment, Regional Infrastructure and Services; • Department of Primary Industries (including the NSW Office of Water, NSW Forestry, Agriculture and Fisheries sections and Crown Lands division); • Roads and Maritime Services; • NSW Rural Fire Service; • North Coast Local Land Services; • Richmond Valley Council; and • community groups. <p>The EIS must:</p> <ul style="list-style-type: none"> • describe the consultation process used and demonstrate that effective consultation has occurred; • describe the issues raised by public authorities, service providers, community groups and landowners; • identify where the design of the development has been amended in response to issues raised; and • otherwise demonstrate that issues raised have been appropriately addressed in the assessment.

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)
	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	
	NSW Industrial Noise Policy and associated Application Notes (EPA)
	Interim Construction Noise Guideline (DECC 2009)
	NSW Road Noise Policy (EPA)
Water	
Water Sharing Plans	Water Sharing Plan for the Richmond River Unregulated, Regulated and Alluvial Water Sources 2010
	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	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)
	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
Surface Water	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	
	Framework for Biodiversity Assessment (OEH)
	NSW Biodiversity Offsets Policy for Major Projects (OEH)
	Guidelines for Threatened Species Assessment (DP&E)
	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)
	Richmond Valley Local Environmental Plan 2012 (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
	Richmond Valley Local Environmental Plan 2012

ATTACHMENT 2

Agency Correspondence

