

# Director-General's Requirements

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

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| <b>Application Number</b>   | MP 10_0074  |
| <b>Project</b>              | <p>Karangi Quarry Project, which includes:</p> <ul style="list-style-type: none"> <li>• extracting and processing up to 800,000 tonnes of hard rock material over a 2 year period;</li> <li>• constructing and using material processing and stockpiling facilities;</li> <li>• constructing an access road to the quarry;</li> <li>• transporting extracted material off-site; and</li> <li>• rehabilitating the site.</li> </ul>  |
| <b>Location</b>             | Karangi, approximately 17 kilometres west of Coffs Harbour.   |
| <b>Proponent</b>            | Leighton Fulton Hogan Joint Venture.  |
| <b>Date of Issue</b>        | 29 June 2010.   |
| <b>General Requirements</b> | <p>The Environmental Assessment of the project must include:</p> <ul style="list-style-type: none"> <li>• an executive summary;</li> <li>• a detailed description of the project, including the: <ul style="list-style-type: none"> <li>– need for the project;</li> <li>– alternatives considered;</li> <li>– likely components and staging of the project; and</li> <li>– plans of any proposed building works;</li> </ul> </li> <li>• a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment;</li> <li>• a detailed assessment of the key issues specified below, and any other significant issues identified in the risk assessment (see above), which includes: <ul style="list-style-type: none"> <li>– a description of the existing environment, using sufficient baseline data;</li> <li>– an assessment of the potential impacts of the project, including any cumulative impacts, taking into consideration any relevant guidelines, policies, plans and statutory provisions (see below); and</li> <li>– a description of the measures that would be implemented to avoid, minimise, mitigate and/or offset the potential impacts of the project, including detailed contingency plans for managing any significant risks to the environment;</li> </ul> </li> <li>• a statement of commitments, outlining all the proposed environmental management and monitoring measures;</li> <li>• 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 &amp; Assessment Act 1979</i>; and</li> <li>• a signed statement from the author of the Environmental Assessment, certifying that the information contained within the document is neither false nor misleading.</li> </ul> |
| <b>Key Issues</b>           | <ul style="list-style-type: none"> <li>• <b>Traffic &amp; Transport</b> – including: <ul style="list-style-type: none"> <li>– accurate predictions of the project's road traffic (including maximum movements per day) and a detailed assessment of the potential impacts of project-related traffic on the safety and efficiency of road networks, including impacts on school bus routes; and</li> <li>– a detailed description of the measures that would be implemented to upgrade and/or maintain these networks over the life of the project.</li> </ul> </li> <li>• <b>Noise and Vibration</b> – including construction noise, operational noise and off-site road noise impacts.</li> <li>• <b>Blasting</b> – including an assessment of potential blasting impacts on Karangi Dam and its associated water supply infrastructure.</li> <li>• <b>Soil &amp; Water</b> – including:</li> </ul>   |

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|                              | <ul style="list-style-type: none"> <li>- a detailed site water balance, including a description of site water demands, water supply and disposal methods;</li> <li>- detailed modelling and assessment of potential impacts on: <ul style="list-style-type: none"> <li>▪ the quality and quantity of existing surface water and groundwater resources;</li> <li>▪ affected licensed water users and basic landholder rights; and</li> <li>▪ the riparian, ecological, geomorphological and hydrological values of watercourses;</li> </ul> </li> <li>- a detailed description of the proposed water management system (including all infrastructure and storages) and water monitoring program;</li> <li>- a detailed description of measures to minimise all water discharges, and</li> <li>- a detailed description of measures to mitigate surface water and groundwater impacts.</li> <li>• <b>Biodiversity</b> – including: <ul style="list-style-type: none"> <li>- accurate quantification of any vegetation clearing on site;</li> <li>- a detailed assessment of the potential impacts on any terrestrial and aquatic threatened species or populations or their habitats, endangered ecological communities and groundwater dependent ecosystems; and</li> <li>- a detailed description of the measures to maintain or improve the biodiversity values within the project area in the medium to long term.</li> </ul> </li> <li>• <b>Quarry Closure and Rehabilitation</b> – including: <ul style="list-style-type: none"> <li>- a detailed description of the proposed measures that would be undertaken during quarry closure;</li> <li>- a detailed rehabilitation strategy, including justification for the proposed final land form and consideration of the objectives of any relevant strategic land use plans or policies; and</li> <li>- the measures that would be undertaken to ensure sufficient financial resources are available to implement the proposed rehabilitation strategy.</li> </ul> </li> <li>• <b>Air Quality</b>, including direct and indirect greenhouse gas emissions.</li> <li>• <b>Heritage</b> – including Aboriginal and non-Aboriginal heritage.</li> <li>• <b>Visual</b> – including a detailed description of the measures that would be implemented to minimise the visual impact of the project.</li> <li>• <b>Social &amp; Economic</b> – including an assessment of the costs and benefits of the project as a whole, the demand on local infrastructure and services and whether it would result in a net benefit for the NSW community.</li> <li>• <b>Hazard &amp; Risk</b> – including bushfire.</li> <li>• <b>Waste</b>.</li> </ul> |
| <b>References</b>            | <p>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.</p>  |
| <b>Consultation</b>          | <p>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:</p> <ul style="list-style-type: none"> <li>• Department of Environment, Climate Change and Water, including the NSW Office of Water;</li> <li>• Department of Industry and Investment;</li> <li>• Department of Transport and Infrastructure (RTA);</li> <li>• Land and Property Management Authority;</li> <li>• Coffs Harbour City Council; and</li> <li>• Northern Rivers Catchment Management Authority.</li> </ul> <p>The consultation process, and the issues raised during this process, must be described in the Environmental Assessment.</p>   |
| <b>Deemed refusal period</b> | 60 days  |

# Policies, Guidelines & Plans

| Aspect                | Policy /Methodology  |
|-----------------------|--|
| <b>Transport</b>      |  |
|                       | Guide to Traffic Generating Development (RTA)  |
| <b>Noise</b>          |  |
|                       | NSW Industrial Noise Policy (DECC)   |
|                       | Environmental Criteria for Road Traffic Noise (NSW EPA)  |
|                       | Draft NSW Construction Noise Guideline (DECC)  |
| <b>Soil and Water</b> |  |
| <i>Soil</i>           | Rural Land Capability Mapping (DLWC)   |
|                       | 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)   |
| <i>Surface Water</i>  | State Water Management Outcomes Plan   |
|                       | NSW Government Water Quality and River Flow Environmental Objectives (DECC)  |
|                       | Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC)  |
|                       | The NSW State Rivers and Estuaries Policy (NSW Water Resources Council)  |
|                       | 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)   |
|                       | National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)                               |
| <i>Groundwater</i>    | NSW State Groundwater Policy Framework Document (DLWC)   |
|                       | NSW State Groundwater Quality Protection Policy (DLWC)   |
|                       | The NSW State Groundwater Dependent Ecosystem Policy (DLWC)  |
|                       | NSW State Groundwater Quantity Management Policy (DLWC) Draft  |
|                       | Draft Guidelines for the Assessment & Management of Groundwater Contamination (DECC)   |
| <b>Biodiversity</b>   |  |
|                       | 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)   |
|                       | State Environmental Planning Policy No. 44 – Koala Habitat Protection  |
| <b>Rehabilitation</b> |  |
|                       | 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) NSW (DEC) |
|                       | Strategic Framework for Mine Closure (ANZMEC/MCA)  |

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| <b>Air Quality</b>           |  |
|                              | Protection of the Environment Operations (Clean Air) Regulation 2002   |
|                              | Approved Methods for the Modelling and Assessment of Air Pollutants in   |
|                              | Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (DEC)  |
| <b>Heritage</b>              |  |
| <i>Aboriginal</i>            | Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC)                                     |
|                              | Aboriginal Cultural Heritage Consultation Requirements for Proponents (DECCW)  |
| <i>Non- Aboriginal</i>       | NSW Heritage Manual (NSW Heritage Office & DUAP)   |
|                              | The Burra Charter (The Australia ICOMOS charter for places of cultural significance)   |
| <b>Greenhouse Gas</b>        |  |
|                              | National Greenhouse Accounts (NGA) Factors (AGO)   |
|                              | Guidelines for Energy Savings Action Plans (DEUS)  |
| <b>Social &amp; Economic</b> |  |
|                              | 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) |
| <b>Risk</b>                  |  |
|                              | 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)   |
| <b>Waste</b>                 |  |
|                              | Waste Classification Guidelines (DECC)   |