

Director-General's Requirements

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

Application	08_0189
Project	<p>Northern Beaches Storage Project. In particular, the project involves the construction and operation of a 30-35ML storage tunnel from Chard Road, Brookvale, connecting to the Northside Storage Tunnel at Fairlight. The project includes:</p> <ul style="list-style-type: none"> ▪ a 3.5m diameter tunnel running 3.6 kilometres between Brookvale and Fairlight; ▪ a 400mm diameter pipeline running 800 metres between Jacka Park, Freshwater and the main tunnel; and ▪ potential modifications to the existing ventilation facilities associated with the Northside Storage Tunnel at Lane Cove West, Scotts Creek, Quakers Hat Bay and the North Head Sewage Treatment Plant.
Site	The pipeline route traverses various properties between Brookvale, Freshwater and Fairlight in the Warringah and Manly local government areas. The existing ventilation shafts for the Northside Storage Tunnel are located in the Willoughby, Mosman and Hunters Hill local government areas.
Proponent	Sydney Water Corporation
Date of Issue	22 October 2008
Date of Expiration	22 October 2010
General Requirements	<p>The Environmental Assessment (EA) should be prepared to a high technical and scientific standard and include:</p> <ul style="list-style-type: none"> ▪ an executive summary; ▪ a detailed description of the project including, construction methods, location and alignment of project components, operation details, including pumping technology and water quality standards to be applied, interfaces with watercourses, energy requirements and any staging; ▪ an assessment of the environmental impacts of the project, with particular focus on the key assessment requirements specified below; ▪ justification for undertaking the project with consideration of the benefits and impacts of the proposal; ▪ a draft Statement of Commitments detailing measures for environmental mitigation, management and monitoring of the project; and ▪ certification by the author of the Environmental Assessment that the information contained in the Assessment is neither false nor misleading.
Key Assessment Requirements	<ul style="list-style-type: none"> ▪ Strategic and Project Justification – the Environmental Assessment must clearly outline the strategic context of the project, having regard to existing and future development of the catchment area, regional water and sewage supply and demand, and the effect on downstream tunnels and treatment facilities. The Environmental Assessment must describe the need for and objectives of the project; alternatives considered (including an assessment of the environmental costs and benefits of the project relative to alternatives) and provide justification for the preferred project taking into consideration the objects of the <i>Environmental Planning and Assessment Act 1979</i>. ▪ Noise and Vibration – the Environmental Assessment must include an assessment of noise and vibration impacts during construction and operation and in a cumulative context with existing development. The assessment must take into account the following guidelines, as relevant: <i>Industrial Noise Policy</i> (EPA, 2000), <i>Assessing Vibration: A Technical Guideline</i> (DECC, 2006) and draft <i>New South Wales Construction Noise Guideline</i> (DECC, 2008). ▪ Water Quality and Hydrology – the Environmental Assessment must include an assessment of water quality impacts arising from the construction and operation of the project. With respect to construction, risks associated with temporary closure of the Northside Storage Tunnel, laying pipelines (including erosion and sedimentation controls), and management of any discharges from the project to

	<p>prevent impacts to nearby watercourses must be addressed. With respect to operation, details of the water quality parameters for the storage tunnel must be provided.</p> <ul style="list-style-type: none"> ▪ Soils and Groundwater – the Environmental Assessment must include estimates of likely spoil generation, including identification of known or potential contamination issues, acid sulphate soils, and options for spoil management, reuse and/ or disposal. The Environmental Assessment must also include consideration of the impact of tunnelling and other underground work on soils, groundwater and subsurface flows. ▪ Air Quality – the Environmental Assessment must include an assessment of the air quality impacts associated with the project prepared in accordance with the <i>Approved Methods for the Modelling and Assessment of Air Pollutants in NSW</i> (DEC, 2005), <i>Assessment and Management of Odour from Stationary Sources in NSW</i> (DEC, 2001) and <i>Technical Notes: Draft Policy: Assessment and Management of Odour from Stationary Sources in NSW</i> (DEC, 2001). This assessment must include all ventilation facilities and consider any potential impacts on nearby sensitive receptors. ▪ Flora and Fauna - the Environmental Assessment must include a flora and fauna impact assessment taking into consideration impacts on any threatened species, populations, ecological communities and/or critical habitat and any relevant recovery plan in accordance with the DECC's <i>Guidelines for Threatened Species Assessment</i> (2005). ▪ Indigenous and Non-indigenous Cultural Heritage Impacts – the Environmental Assessment must include an assessment of indigenous and non-indigenous cultural heritage values that may be impacted by the project. The assessment must address the information and consultation requirements of the draft <i>Guidelines for Aboriginal Cultural Heritage Assessment and Community Consultation</i> (DEC, 2005). ▪ Traffic and Transport – the Environmental Assessment must include an assessment of impacts to the local and regional road network and intersections during construction, including direct impacts from traffic rerouting and any access restrictions to property, as well as details on the nature/ mode of traffic generated from the project, transport routes and traffic volumes. ▪ General Environmental Risk Analysis – notwithstanding the above key assessment requirements, the Environmental Assessment shall include an environmental risk analysis to identify potential environmental impacts associated with the project (construction and operation), proposed mitigation measures and potentially significant residual environmental impacts after the application of proposed mitigation measures. Where additional key environmental impacts are identified through this environmental risk analysis, an appropriately detailed impact assessment of this additional key environmental impact must be included in the Environmental Assessment.
<p>Consultation Requirements</p>	<p>You should undertake an appropriate and justified level of consultation with relevant parties during the preparation of the Environmental Assessment, including:</p> <ul style="list-style-type: none"> ▪ NSW Department of Environment and Climate Change; ▪ NSW Health; ▪ NSW Department of Water and Energy; ▪ NSW Roads and Traffic Authority; ▪ Warringah Council; ▪ Manly Council; ▪ Mosman Council; ▪ Willoughby Council ▪ Hunters Hill Council; and ▪ the local community, including affected landowners. <p>The Environmental Assessment must describe the consultation process, document all community consultation undertaken to date and identify the issues raised (including where these have been addressed in the Environmental Assessment).</p>