Appendix B Green Port Guidelines Checklist

Sydney Ports Corporation

Checklist

The completed Checklist is to accompany all applications for new developments/activities submitted to Sydney Ports, or when requested by Sydney Ports.

The Checklist has the following features:

– The Headings (shaded in blue), Item numbers and Purpose/Criteria descriptions directly correspond to those in the Green Port Guidelines. This allows easy reference between this Checklist and the Guidelines.

– Applicants are to state whether each item has been addressed, not addressed or whether it is not applicable to the specific development. The Stages of Development indicators in the Green Port Guidelines may assist in this assessment.

– Applicants are then to explain how each item has been addressed, why it hasn't been addressed or why it is not applicable. Applicants are directed to the Suggested Measures provided in the Green Port Guidelines for guidance on how to address each item although alternative and innovative measures that may be more specific or relevant to the individual facility or operation are also encouraged.

– Supporting documentation (such as a Waste Management Plan, Environmental Management Plan or Design Specifications) may be referenced or attached to the Checklist.

– The Checklist can be filled out either electronically or by hand and sent back to Sydney Ports for review.

Applicant details

Name	Neil Trillo	**Company**	Vopak		
Address	Friendship Rd				
City/Town	Port Botany	**State**	NSW	**Postcode**	
Telephone		**Mobile**		**Email**	Neil.trillo@vopak.com.au

Project details

Location of proposed development
Fishburn Road, Port Botany adjacent to Vopak Terminals Australia Site B and Elgas Pty Ltd.
Description of proposed development
The second Bulk Liquids Berth (BLB2) at Port Botany is proposed to cater for the future growth of imported and exported chemical, petroleum and gas products. The BLB2 would comprise the construction of a steel piled pier berth, installation of associated infrastructure (such as marine loading arms), additional pipelines and unloading/loading and maintenance activities associated with operation of BLB2.
The details on this form are the provisions and intentions for maximising the environmental sustainability of this development.

Name			
Signature		**Date**	

	Item No	Purpose/criteria	Has this been addressed? (Yes, No, N/A)	How has it been addressed? Or, why has it not been addressed?	Provide details of supporting documentation/ reference material
Materials selection	R1	Reduce the quantity of new materials being used by reusing materials or by utilising recycled materials.	Yes	Materials would be reused where possible during construction and operation of BLB2.	
	R2	Encourage environmentally friendly production of materials.	N/A	Only certain materials can be used for construction of BLB2	
	R3	Specify materials that have minimal embodied energy and environmental impact.	N/A	Only certain materials can be used for construction of BLB2.	
	R4	Consider the end of life of materials and the whole building, design for deconstruction.	N/A	BLB2 not expected to be deconstructed in near future and only certain materials can be used for construction of BLB2.	

	Item No	Purpose/criteria	Has this been addressed? (Yes, No, N/A)	How has it been addressed? Or, why has it not been addressed?	Provide details of supporting documentation/ reference material
Waste management	W1	Minimise the generation of wastes.	Yes	CEMP would be prepared which would focus on minimising volumes of waste generated through works.	
	W2	Facilitate recycling to reduce the amount of waste going to landfill.	Yes	Wherever possible, recyclable waste would be segregated and sent to appropriate facilities for recycling.	
	W3	Ensure the safe storage and handling of hazardous wastes.	Yes	Ensure correct handling and storage of hazardous wastes and disposal by licensed contractor to approved facility. All waste including hazardous waste would be managed, classified and disposed of in accordance with EPA *Environmental Guideline: Assessment, Classification and Management of Liquid and Non-Liquid Waste (1995)*.	

	Item No	Purpose/criteria	Has this been addressed? (Yes, No, N/A)	How has it been addressed? Or, why has it not been addressed?	Provide details of supporting documentation/ reference material
Water consumption	H1	Reduce consumption of potable water internally.	N/A	Water consumption during construction/operation of BLB2 would be minimal.	
	H2	Manage and monitor water usage and any leaks.	Yes	Pipelines installed above-ground to easily detect leaks visually. Regular inspections and maintenance of pipelines.	
	H3	Reduce the quantity of potable water used for landscape irrigation.	N/A	No natural vegetation on proposed site, therefore no landscape irrigation required.	
	H4	Treat water on-site and reuse the treated water to reduce demand on the local potable water supply and the demand on the local infrastructure.	N/A	Water use for BLB2 is minimal. BLB2 would be unlikely to increase demand on local potable water supply.	

	Item No	Purpose/criteria	Has this been addressed? (Yes, No, N/A)	How has it been addressed? Or, why has it not been addressed?	Provide details of supporting documentation/ reference material
Energy use	E1	Reduce energy consumption and hence greenhouse gas emissions.	N/A	BLB2 energy consumption would be minimal.	
	E2	Manage the use of energy to minimise consumption.	N/A	BLB2 energy consumption would be minimal.	
	E3	Source energy from renewable sources.	N/A	Renewable energy can not be generated on-site and energy consumption would be minimal.	
	E4	Source energy from alternate energy sources and use less greenhouse intensive fuels (in particular limit diesel use).	No	Alternate energy sources unavailable at BLB2 site and energy consumption would be minimal at BLB2.	

	Item No	Purpose/criteria	Has this been addressed? (Yes, No, N/A)	How has it been addressed? Or, why has it not been addressed?	Provide details of supporting documentation/ reference material
Transportation	T1	Encourage the use of alternative modes of transport by employees, in order to reduce the amount of inefficient/individual car travel and therefore greenhouse gas emissions.	No	Limited public transport servicing Port Botany area. Car travel only reasonable method of transport to BLB2.	
	T2	Reduce greenhouse gas emissions from operational vehicles and equipment.	Yes	DECC approved vapour emission controls would be implemented.	

	Item No	Purpose/criteria	Has this been addressed? (Yes, No, N/A)	How has it been addressed? Or, why has it not been addressed?	Provide details of supporting documentation/ reference material
Indoor environment	IE1	Improve the quality of indoor air to protect the health of employees and enhance productivity.	N/A	BLB2 would be predominantly open-air.	
	IE2	Optimise daylighting and make best use of artificial lighting to assist eye health and productivity.	N/A	BLB2 would be predominantly open-air.	
	IE3	Provide optimum acoustical environment for productivity and to prevent ear damage.	N/A	Noise operation of BLB2 would be minimal and insignificant. Noise levels from road traffic and surrounding industrial sources have a greater contribution to the noise environment in Port Botany.	

	Item No	Purpose/criteria	Has this been addressed? (Yes, No, N/A)	How has it been addressed? Or, why has it not been addressed?	Provide details of supporting documentation/ reference material
Emissions	EM1	Protect the ozone layer and reduce the potential for global warming.	Yes	DECC approved vapour emission controls would be implemented.	
	EM2	Limit the generation of air pollutants and ensure that they are emitted away from sensitive receptors.	Yes	Dust minimisation methods included in CEMP. DECC approved vapour emission controls would be implemented.	
	EM3	Minimise odours.	N/A	No odours anticipated during construction or operation of BLB2. Nearest sensitive receiver located approximately 1.5km away.	
	EM4	Minimise noise nuisance.	No	Construction of BLB2 would be below background noise environment (road traffic and industrial noise) at all nearby residential locations. Operations of BLB2 would be below project specific noise levels. Noise levels would be minimal and insignificant.	
	EM5	Avoid light spill into night sky or neighbouring properties/areas.	Yes	Detailed designs would minimise light spillover. Light spillover to comply with Civil Aviation Safety Authority (CASA) requirements.	
	EM6	Avoid accidental contact with hazardous or	Yes	Hose connections would be pressure tested prior to each use.	

		poisonous goods.		Monitoring of all equipment during transfer of hazardous goods. Joints and connections continually monitored for leaks. New gaskets would be used for each transfer.	

	Item No	Purpose/criteria	Has this been addressed? (Yes, No, N/A)	How has it been addressed? Or, why has it not been addressed?	Provide details of supporting documentation/ reference material
Water quality	HQ1	Manage stormwater to reduce peak stormwater flows and protect water quality.	Yes	Stormwater would be pumped to wastewater storage tank for treatment and/or disposal to a DECC approved waste handling facility.	
	HQ2	Manage water quality to protect the harbour and other water bodies.	Yes	Storage of chemicals in appropriately bunded areas Procedures developed for handling/use of chemicals and fuels near or over water. Emergency oil spill response team located in Brotherson Dock.	
	HQ3	Prevent damage from potential flood events and water table changes.	N/A	Proposed development located on reclaimed land.	

	Item No	Purpose/criteria	Has this been addressed? (Yes, No, N/A)	How has it been addressed? Or, why has it not been addressed?	Provide details of supporting documentation/ reference material
Land use	L1	Encourage the redevelopment of sites that have previously been developed and remediate contaminated land.	Yes	Current lease on site involves contractual obligation to ensure any potential contamination is appropriately remediated. Appropriate control measures for acid sulphate soils would be implemented if acid sulphate soils are observed.	
	L2	Use landscaping to enhance biodiversity and conserve and create habitat for flora and fauna.	N/A	No vegetation on BLB2 site.	
	L3	Enhance visual amenity.	Yes	Proposed development compatible with existing features and context of surrounding industrial area. Some views would be screened by vegetation. Design of BLB2 would blend into surrounding background area.	
	L4	Avoid impact on identified heritage items.	N/A	No identified items of Aboriginal and non-Indigenous heritage within or in vicinity of proposed development.	

	Item No	Purpose/criteria	Has this been addressed? (Yes, No, N/A)	How has it been addressed? Or, why has it not been addressed?	Provide details of supporting documentation/ reference material
Environmental management	M1	Maintain good relationships with stakeholders and respond to any complaints.	Yes	Identify and consult with stakeholders about environmental issues.	
	M2	Provide a framework for identifying, managing and minimising environmental impacts, and maximising environmental benefits.	Yes	Development of Construction and Operational Environmental Management Plans. Comply with relevant planning and environmental legislation.	
	M3	Educate developers, tenants and employees about ESD and how to improve sustainability.	Yes	Would be included in Operations Manual. Operations Manual would be updated and appropriate ESD and sustainability training/workshop would be provided.	