



Appendix F - Port Infrastructure Matrix

PORT	Throughput		Depth		Key Infrastructure Projects	
	Current	Projected	Current	Proposed	Rail	Road
VICTORIA						
Melbourne	1.7 million TEUs; Motor vehicles: 298,000 (2005); Other cargo: 8.5 million tonnes	2025: 4.5 million TEUs; Motor vehicles: 534,000; Other: 14.1 million tonnes.	11.12 metres (Appleton Dock)	14 metres	Connection to Webb Dock	Westgate Bridge Dock Link Road
Portland	4 million tonnes	Additional 4 million tonnes by 2008	Channel: 13.5 metres; Berth 1: 12.5 metres	No dredging planned at present.	Standard Gauge connection to East Victoria. Standard gauge link to Mt Gambier	Wellington Road Overpass to separate port and residential traffic. Road upgrades to allow safe usage of B-doubles.
Geelong	9.39 million tonnes (2007-08)	9.64 million tonnes (2008-09)	11.6 metres	Not planned	Dual Gauge Connection	Grade Separation - road to Geelong By-pass
NSW						
Port Botany	26.7 million tonnes 1.445 million TEUs	Additional 1.6 million TEUs	Channel: 15 metres; Brotherson Dock; 15 metres	16 metres at new terminal.	Construction of Southern Sydney Freight Line; rail duplication Cooks river to Botany rail yard; improved rail connections to Port Botany and terminals; duplication Botany freight line; tracks to 3rd container terminal.	Grade separated junction at meeting of Foreshore, Penrhyn and Botany roads; M4 east and M4 tunnel to Botany; Widening of M5 east.
Port Kembla	26 million tonnes	Additional 250,000 cars annually, 50,000 TEUs and 125,000 tonnes general cargo.	12.2 - 15 metres		Completion of Maldon-Dombarton Freight Line.	Easing/removal of road delivery curfew
Newcastle	85.573 million tonnes (93.8% coal)	129 million tonnes (95.3% coal) by 2017-18.	15.2 metres	16 -17 metres		

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QUEENSLAND						
Brisbane	26.74 million tonnes; 766,300 Teus; 173,022 Motor vehicles.	2009-10 31.81 million tonnes; 1.05 million TEUs; 232,505 motor vehicles.	14 metres	Not planned	Separation of freight trains from the passenger network in port approaches; Improve freight access from the west and south-east.	The last 6 km of the road leading to the port.
Gladstone	75 million tonnes	Current expansion plans will take capacity to 104 million tonnes in 2012 and over 150 million by	17 metres; 18.2 metres on high tides.	New by-pass channels and passing lanes; dredging for new	Diversion of some road traffic onto the north coast rail line to ease congestion.	Extension of Kirkwood Road; Completion of the Port Access Road.
Mackay	2.35 million tonnes	4 million tonnes by 2012; If coal shipments begin - an additional 4-10	8.3 - 8.5 metres	Long term: 9.5 -10 metres.	If coal shipments eventuate: rail access to reduce pressure on Hay Point.	Completion of Port Access Corridor
Cairns	1.16 million tonnes (2003-04)	Minimal growth expected.	8.3 metres	Not planned.		
Townsville	9.93 million tonnes	32 million tonnes in 2030 if Bauxite processing proceeds. Otherwise 27 million in 2030.	11.7 metres	Possible channel deepening now being examined.	The need for better rail connections is now being examined.	Port Access Gateway Project
Bundaberg	414,609 tonnes	Depends on the sugar crop - expected to decline in the short term.	9.5 metres	Not planned.	Improved rail link	Road upgrades.
Hay Point	85.5 million tonnes (2006-07)	130 million tonnes by end 2008. 140 million tonnes by 2010.	Channel: 14.7 metres plus 6.5 metre tide. At berth: 19 metres plus tide.	Channel: 15 metres plus 6.5 metre tide.	Greater capacity in rail access.	
Abbot Point	13 million tonnes	21 million tonnes in 2009-10	17.3 metres plus 3 metre tide	Not planned	Rail link to Goonyella	

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WESTERN AUSTRALIA						
Fremantle	25.5 million tonnes	33 million tonnes by 2011-12	Inner Harbour: 13 metres Outer Harbour: 14 metres.	To allow draughts of 13.5 to 14 metres - in two stages to 2009-10. Long-term 16 metres in Outer	Development of intermodal terminal at Kewdale. Clearing obstacles to double stacking of containers on port approaches.	Development of intermodal terminal at Kewdale. Arrangements to better utilise truck movements and minimise movements of empty trucks and containers.
Esperance	7.2 million tonnes	11.2 million tonnes (2010)	19.5 metres	Not planned	Grade separation of road and rail. Rail connection to Shark Lake Industrial Park. Duplication of line from rail siding to port.	Re-alignment of road near port entrance.
Albany	2.97 million tonnes	5 million tonnes (2014); 7 million tonnes more if magnetite project proceeds.	12.2 metres	Discussing plans to dredge to 17 metres for iron ore shipments in Cape-size vessels.	Grade separated rail connection to port. Additional rail loop in the port.	Albany Ring Road.
Geraldton	5.5 million tonnes	17.5 million tonnes (by late 2007)	12.8 metres	New port to be built to take Cape-size vessels	Rail connections to the new port as construction proceeds.	Stage 2 of the Southern Transport Corridor.
Bunbury	12 million tonnes	25 million tonnes in 5-10 years.	12.2 metres	15 metres	Coal siding to separate coal and woodchips when coal exports begin.	Construction of Outer Ring Road and linking it to the Port Access Road.
Dampier	110 million tonnes (81.6% iron ore)	151 million tonnes in 2008-09	14 metres	Planning is to take a second berth down to 14 metres.		
Port Hedland	110 million tonnes (95.6% iron ore)	303 million tonnes in 2011-12.	14.6 metres plus tides of up to 7 metres.	Not planned		

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SOUTH AUSTRALIA						
Adelaide	12.74 million tonnes (2006)	20 - 25 million tonnes in 5 years.	Recently deepened to 14.2 metres	Not planned		
Port Pirie	670,406 tonnes (2006)	Additional 2-4 million tonnes from 2009.	7 - 8 metres			
Port Lincoln	1.96 million tonnes (2006)	Additional 2-4 million tonnes from 2009.	14.7 metres			
TASMANIA						
Bell Bay	5 million tonnes	Not available.	11.5 metres	Not planned	Second rail connection to port area.	Upgrade council road for second port access
Devonport	4 million tonnes	Not available.	10.5 metres	Not planned	Rail access bridge across the river.	
Burnie	3 million tonnes	Not available.	11.5 metres	Not planned	Better rail connection to port.	
Hobart	2.5 million tonnes	Not available.	13 metres	Not planned		
NORTHERN TERRITORY						
Darwin	1.7 million tonnes (2004)	10 million tonnes by 2010.	13 & 14 metres, plus an 8 metre tidal range	Not planned		Grade separation on port access road. Direct road access from Business Park. More efficient weighbridge access & truck parking at port entrance.

