5.2.6 Lindsay, Mulcra and Wallpolla islands

Variation to the Seasonal Watering Plan 2018-19

This variation was made to the Lindsay, Mulcra and Wallpolla islands section of the *Seasonal Watering Plan 2018-19* at the VEWH Commission meeting on 19 September 2018.

Please note the amended text in red below.

Table 5.2.13 Potential environmental watering actions and objectives for the Lindsay,Mulcra and Wallpolla islands

Potential environmental watering	Environmental objectives					
Lindsay Island – Mullaroo Creek						
Year-round low flows (600–1000 ML/day)	• Maintain flowing water habitat for native fish species (such as Murray cod, silver perch and golden perch)					
Spring high flow (up to 1,200 ML/day for up to 3 months between September– November)	 Initiate fish movement and improve spawning and recruitment opportunities for native fish 					
Autumn high flow (up to 1,000 ML/day for 1 month between April–May)	Provide an early-season flow to stimulate return of large- bodied fish					
Lindsay Island – Lindsay River						
Year-round low flows (40 ML/day via the northern regulator)	 Maintain flowing water habitat for native fish species such as Murray cod, silver perch and golden perch 					
Spring high flow (up to 450 ML/day for up to 3 months between September– November via the northern regulator)	 Initiate fish migration and improve spawning and recruitment opportunities for native fish 					
Spring high flow (up to 200 ML/day for up to 3 months between September– November via the southern regulator)	• Extend flowing water habitat for native fish species, providing spawning and recruitment opportunities					
Autumn high flow (up to 200 ML/day for 1 month between April–May via the northern regulator)	 Provide an early-season flow to stimulate return of large- bodied fish 					
Lindsay Island wetlands						
Lake Wallawalla (partial fill in autumn)	 Stimulate an increase in available food sources and productivity levels for aquatic and wetland plant species Maintain habitat for waterbirds 					
Websters Lagoon (partial or complete fill at any time)	Maintain wetland habitat for fish and waterbirds					
Mulcra Island – Potterwalkagee Creek						
Year-round low flows in lower Potterwalkagee Creek (100–400 ML/day via the Stony Crossing regulator)	 Maintain flowing water habitat for native fish species (such as Murray cod, silver perch and golden perch) 					
Winter/spring/summer low flows in upper Potterwalkagee Creek (up to 100 ML/day between June–February via the upper Potterwalkagee Creek regulator)	 Maintain seasonal flowing water habitat for native fish species (such as Murray cod, silver perch and golden perch) 					
Spring/summer high flows in lower Potterwalkagee Creek (up to 400 ML/day						

for 3 months between September– January via the Stony Crossing regulator and upper Potterwalkagee Creek Regulator)	 Initiate fish movement and improve spawning and recruitment opportunities for native fish 	
Spring/summer high flows in upper Potterwalkagee Creek (up to 150 ML/day for 3 months between September– January via the upper Potterwalkagee Creek regulator)		
Mulcra Island wetlands		
Snake Lagoon (partial or complete fill in winter/spring)	 Improve wetland productivity and provide habitat for wetland birds and fish 	
Mulcra Horseshoe (partial or complete fill in winter/spring)		
Wallpolla Island		
Wallpolla Horseshoe (partial or complete fill any time)	 Maintain variable water levels in the littoral zone to improve wetland productivity 	
	 Control river red gum saplings 	
Wallpolla East (partial or complete fill in spring or autumn)	 Improve condition of the riverine grassy woodland and floodway pond herbland ecological vegetation classes Provide temporary habitat for aquatic species with productivity transferred to creek lines 	
Sandy Creek (partial or complete fill in spring or autumn)	 Improve the condition of the grassy riverine forest and floodway pond herbland ecological vegetation classes 	

Table 5.2.17 Potential environmental watering for Lindsay, Mulcra and Wallpollaislands under a range of planning scenarios

Planning scenario	Very dry	Dry	Average	Very wet	
Expected conditions	 Year-round low flows in the River Murray and no natural floodplain inundation; substantial wetland drying will occur 	 Rare high- flow events in the River Murray and no natural floodplain inundation; substantial wetland drying will occur 	 Short periods of high flows, most likely in late winter and spring, providing minor inundation of the floodplain 	 Long periods of high flows with major spills from storages resulting in widespread inundation of the floodplain and inundation of most wetlands 	
Lindsay Island					
Mullaroo Creek and Lindsay River	 Year-round low flow 1 spring high flow 	 Year-round low flow 1 spring high flow 	 Year-round low flow 1 spring high flow 	 Year-round low flow 1 spring high flow 1 autumn high flow 	
Wetlands			 Lake Wallawalla (partial fill) Websters Lagoon (partial to complete fill) 	 Lake Wallawalla (partial fill) Websters Lagoon (complete fill) 	
Water demand ¹	• <2,000 ML	• <2,000 ML	 < 2,000 to 10,000 ML 	• < 2,000 to 10,000 ML	
Mulcra Island					
Lower Potterwalkagee Creek via regulators	• Year-round low flow	• Year-round low flow	Year-round low flow1 spring high flow	Year-round low flow1 spring high flow	
Upper Potterwalkagee Creek via regulator	• Year-round low flow	• Year-round low flow	 Year-round low flow 1 spring high flow 	 Year-round low flow 1 spring high flow 	
Wetlands and floodplain				 Snake Lagoon (complete fill) Mulcra Horseshoe (complete fill) 	
Water demand ¹	• <2,000 ML	• <2,000 ML	• <2,000 ML	• <2,000 ML	
Wallpolla island					
Wetlands	• Wallpolla Horseshoe (partial fill)	• Wallpolla Horseshoe (partial fill)	 Wallpolla Horseshoe (complete fill) Sandy Creek (partial or complete fill) 	 Wallpolla Horseshoe (complete fill) Sandy Creek (partial or complete fill) Wallpolla East (partial or complete fill) 	

Water demand	• 1,000 ML	• 1,000 ML	• 1,600 ML	• 2,300 ML-2,600 ML
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¹ Volume includes the estimated volume of water for the environment required to underwrite the losses associated with the delivery of consumptive water en route (for flows in Mullaroo Creek, Lindsay River, Potterwalkagee Creek and Mulcra Island).