

## **5.2 Mechanisms to implement management actions**

Table 16 shows the potential mechanisms available to implement the identified management options including an assessment of the current or past use of these mechanisms and the potential future use. It shows that there are many options and mechanisms that have the potential for implementation but have not been tried in the past. The lack of prior or current implementation of some of these options is likely to be due to a number of factors such as cost, risk, lack of available knowledge, lack of appropriate expertise or conflicts with other natural resource management programs. These barriers to adoption are explored further in this section.

Some of the mechanisms listed in Table 16 are not appropriate for all options. The available mechanisms were assessed for their suitability for encouraging implementation of each management option and those that were unlikely to be effective were not selected. In addition, government funded on-ground works were not deemed to be appropriate for those management options that were likely to predominantly have a private benefit.

■ Table 16: Salinity management options versus implementation mechanisms

		MECHANISMS					
		Extension and Education	Landuse planning (eg Whole Farm Planning)	Market Based Incentives (MBIs) – incl Govt contracting landowners	Govt funded on-ground works (not including MBIs)	Research and Investigation	Policy/Regulation
<b>OPTIONS</b>	<b>Recharge control – Irrigation management</b>						
	Conversion from flood to spray irrigation	●	●			●	○
	More efficient flood irrigation	●	●	○		●	○
	Efficient irrigation development on 'Greenfield sites'	●	●	○		●	○
	<b>Recharge control – Agronomic options</b>						
	Perennial pasture establishment and management	○	●	○		●	
	Alternative irrigated crops	○	○	○		○	
	Tree planting on recharge areas - commercial forestry	○	○	○		○	
	Tree planting on recharge areas - farm forestry	○	○	○		○	
	Tree planting - recharge control only + firewood	○	○	○		○	
	Tree planting - break of slope interception	○	○	○			○
	Maintaining and managing existing native vegetation	○	●	●	●		●
	Alley farming (alternating rows of trees and crops/pastures)	○	○	○		○	
	<b>Engineering options - sub-surface drainage</b>						
	Public Groundwater Pumps				●	●	
	Private Groundwater Pumps in high water table areas	●	●	●		●	○
	Free flowing bores discharging to rivers/drains				●	●	
	Tile and mole drains				●	●	
	<b>Engineering options - surface drainage</b>						
	Improved surface drainage	○	●		●	●	
	Improved Environmental flows				○	●	▲
	Structures to prevent lake inflow to rivers and/or wetlands				○	●	
	Sea Walls				●		
	Structures to prevent ocean water entering Lake Wellington				○	▲	
	<b>Living with salt</b>						
	Salt tolerant crops and pastures	○	○	○		●	
	Aquaculture	○	○		○	○	
	Salt harvesting		○		○	○	
	Government buy-back of saline land for rehabilitation			○	○	○	○
	Evaporation basins				○	○	
	<b>Leaching fractions</b>						
	Ensuring appropriate irrigation leaching fractions are achieved	●	○			○	