O'Connell River Management Area

MANAGEMENT PRACTICE CHANGE ADOPTION 2007 - 2013

Land Use	Management Practices	Key Pollutant	2007 % Adoption	2014 % Adoption Target	2014 % Adoption Achieved	Effort realised	% of target	Draft 2021 % Adoption Target	Cost $ '000s
Cane & Horticulture	Soil	PN PP	D C B	C B A	D C B A	H	125	*New management practice adoption targets and implementation costs will be determined in consultation with the community and stakeholders during the Water Quality Improvement Plan update process continuing throughout 2014*	
	Nutrient	DIN FRP	D C B	C B A	D C B A	M	68		
	Pesticide		D C B	C B A	B A	H	124		
Grazing	Soil	PN PP	D C B	C B A	D C B	L	10		
Existing Urban Management	Nutrient	DIN FRP	D C B	C B A		tbc	tbc		
New Urban Development	Soil	PN PP	D C B	C B A		tbc	tbc		

Dated practice | C Common practice | B Best practice | Cutting-edge practice

EVENT WATER QUALITY LOAD REDUCTION 2007 - 2013

Key Pollutant	Event Freshwater Quality Values: Objective 2050	Condition 2007	Target 2014	Achieved 2014	Draft Target 2021	Draft Cane&Horticulture Priority: Soil	Nutrient	Pesticide	Draft Grazing Priority: Soil	Riparian	Nutrient	Pesticide	Cost $ '000s
DIN Dissolved Inorganic Nitrogen µg/L	300	380	300	308	300	L H	L H				L H		330
FRP Filterable Reactive Phosphorus µg/L	30	46	37	38	30	L H	L H				L H		
PN Particulate Nitrogen µg/L	340	371	314	361	314	L H	L H		L H	L H	L H		2266
PP Particulate Phosphorus µg/L	70	127	108	124	70	L H	L H		L H	L H	L H		
Total Suspended Sediment mg/L	CC	158	CC	154	CC	L H			L H	L H			
Ametryn µg/L	CC	<LOD	CC	CC	CC	L H		L H					0
Atrazine µg/L	0.06	0.08	0.06	0.07	0.06	L H		L H					
Diuron µg/L	0.028	0.38	0.03	0.12	0.03	L H		L H					
Hexazinone µg/L	0.04	0.06	0.04	0.05	0.04	L H		L H					
Tebuthiuron µg/L	0.16	0.22	0.16	0.22	0.16							L H	#

CC = Current condition; LOD = Limit of Detection which is currently 0.01 µg/L for all herbicides

\# Tebuthiuron is not a priority due to consistently low levels of detection across the region

ECOSYSTEM HEALTH IMPROVEMENTS 2007 - 2013

Value rated	System rating (A=excellent, E=poor): Objective 2050	Condition 2007	Target 2014	Achieved 2014	Draft Target 2021	System repair actions	Draft Priority	Cost $ '000s
Flow	B	D	C	C	B	Implementation of voluntary irrigation restrictions to maintain waterhole during low flow	L H	Costs to implement system repair actions for ecosystem health improvements will be determined after management practice adoption targets have been set.
Barriers to Migration	A	C	B	B	A	Monitoring and maintenance fishways and incorporate fish passage into new barriers	L H	
Instream Habitat	A	C	B	C	B	Restoration and stabilisation of 10 priority reaches	L H	
Riparian Vegetation	B	D	C	C	B	Active restoration and connectivity of priority reaches. Grazing management on riparian land	L H	
Estuary Modification	A	B	A	B	A	Active restoration and management to encourage recovery, natural habitat and channel stabilisation	L H	
Mangroves & Saltmarsh	B	D	C	D	C	Management to encourage recovery	L H	