

Marion Creek 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	
			D	C	B	C	B	A	C	B	A					
Cane & Horticulture	Soil		D	C	B	C	B	A	C	B	A	H	102	<i>New management practice</i>		
	Nutrient		D	C	B	C	B	A	D	C	B	M	62	<i>adoption targets and</i>		
	Pesticide		D	C	B	C	B	A	C	B		H	94	<i>implementation costs will be determined in consultation with</i>		
Grazing	Soil		D	C	B	C	B	A	D	C	B	L	7	<i>the community and stakeholders</i>		
Existing Urban Management	Nutrient		NOT APPLICABLE												<i>during the Water Quality Improvement Plan update process</i>	
New Urban Development	Soil		NOT APPLICABLE												<i>continuing throughout 2014</i>	

■ Dated practice ■ Common practice ■ Best practice ■ Cutting-edge practice

EVENT WATER QUALITY
LOAD REDUCTION 2007 - 2013

Key Pollutant	Event Freshwater Quality Values					Draft Cane & Horticulture Priority			Draft Grazing Priority				Cost \$ '000s
	Objective 2050	Condition 2007	Target 2014	Achieved 2014	Draft Target 2021	Soil	Nutrient	Pesticide	Soil	Riparian	Nutrient	Pesticide	
Dissolved Inorganic Nitrogen µg/L	300	485	364	410	364								80
Filterable Reactive Phosphorus µg/L	30	47	35	40	35								
Particulate Nitrogen µg/L	340	516	324	501	?								979
Particulate Phosphorus µg/L	70	238	149	231	?								
Total Suspended Sediment mg/L	CC	122	CC	118	CC								
Ametryn µg/L	CC	<LOD	CC	CC	CC								
Atrazine µg/L	0.18	0.24	0.18	0.19	0.18								6
Diuron µg/L	0.56	0.79	0.56	0.61	0.56								
Hexazinone µg/L	0.21	0.28	0.21	0.22	0.21								
Tebuthiuron µg/L	CC	<LOD	CC	CC	CC								#

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)					System repair actions	Draft Priority	Cost \$ '000s
	Objective 2050	Condition 2007	Target 2014	Achieved 2014	Draft Target 2021			
	A	B	A	B	A	Develop and implement management strategies to improve flow		Costs to implement system repair actions for ecosystem health improvements will be determined after management practice adoption targets have been set.
	A	C	B	B	A	Remove of barriers to migration		
	A	C	B	C	B	Restoration and stabilisation of priority reaches		
	A	C	B	C	B	Active management and protection of riparian zones. Grazing management on riparian land and adjacent to wetlands		
	A	B	A	B	A	Develop and implement management strategies to improve estuary condition		
	A	B	A	B	A	Develop and implement management strategies to improve condition of mangroves and saltmarsh		