

Gillinbin 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 | D | C | B | D | C | B | | | | |
| Cane & Horticulture | Soil | | D | C | B | C | B | A | D | C | B | A | H | 125 | <i>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</i> |
| | Nutrient | | D | C | B | C | B | A | D | C | B | A | H | 77 | |
| | Pesticide | | D | C | B | C | B | A | C | B | A | M | 72 | | |
| Grazing | Soil | | D | C | B | C | B | A | D | C | B | A | L | 0 | |
| Existing Urban Management | Nutrient | | NOT APPLICABLE | | | | | | | | | | | | |
| New Urban Development | Soil | | NOT APPLICABLE | | | | | | | | | | | | |

■ 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 | CC | 48 | 42 | 32 | 42 | | | | | | | | 20 |
| Filterable Reactive Phosphorus µg/L | CC | 3 | CC | CC | CC | | | | | | | | |
| Particulate Nitrogen µg/L | CC | 152 | 152 | 152 | 152 | | | | | | | | 324 |
| Particulate Phosphorus µg/L | CC | 37 | CC | 37 | CC | | | | | | | | |
| Total Suspended Sediment mg/L | CC | 66 | CC | 66 | CC | | | | | | | | |
| Ametryn µg/L | CC | <LOD | CC | CC | CC | | | | | | | | 12 |
| Atrazine µg/L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | | | | | | | | |
| Diuron µg/L | 0.05 | 0.07 | 0.05 | 0.06 | 0.05 | | | | | | | | |
| Hexazinone µg/L | CC | <LOD | CC | CC | CC | | | | | | | | |
| 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 | A | A | A | A | Maintain current flow regimes | | 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 | B | A | B | A | Removal of barriers to migration | | |
| Instream Habitat | A | B | A | B | A | Restoration and stabilisation of priority reaches | | |
| Riparian Vegetation | A | A | A | A | A | Active management and protection of riparian zones. Grazing management on riparian land and adjacent to wetlands | | |
| Estuary Modification | A | B | A | B | A | Maintain protection and management strategies to conserve estuary condition | | |
| Mangroves & Saltmarsh | A | B | A | B | A | Maintain protection and management strategies to conserve mangroves and saltmarsh | | |