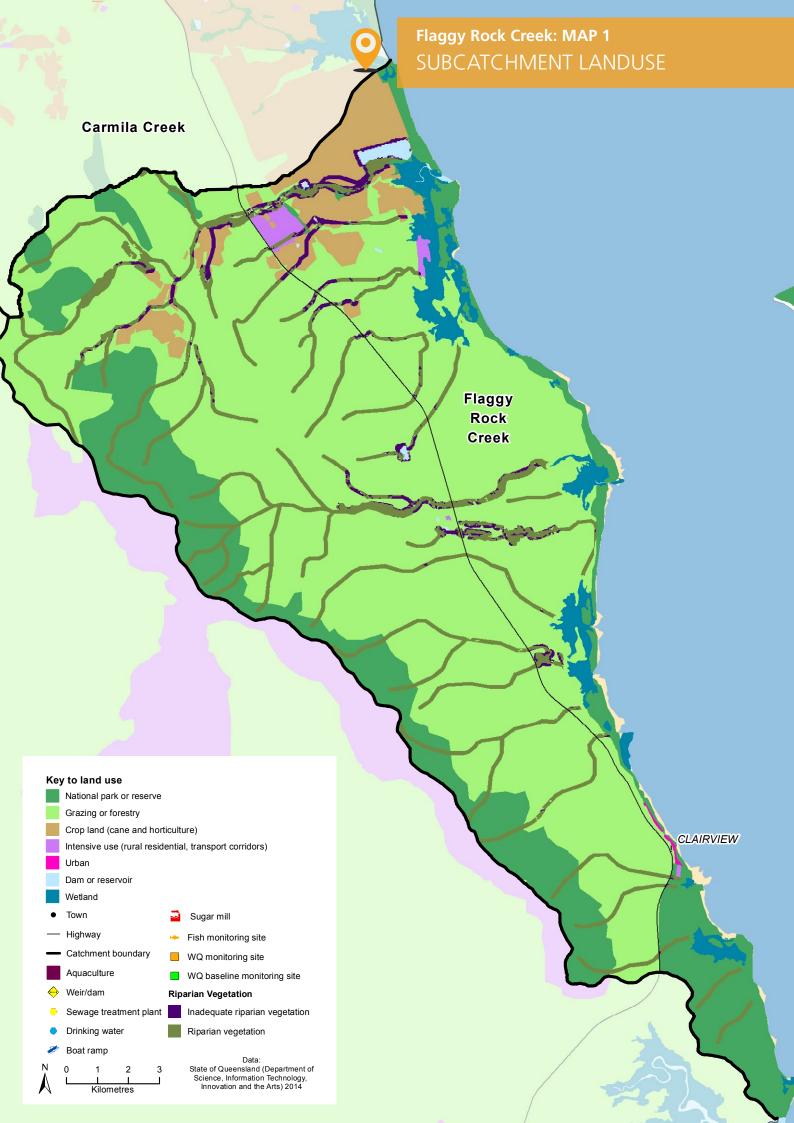


WATER QUALITY IMPROVEMENT PLAN 2014 - 2021

33 Flaggy Rock Creek



CATCHMENT MANAGEMENT AREA REPORT

33 Flaggy Rock Creek

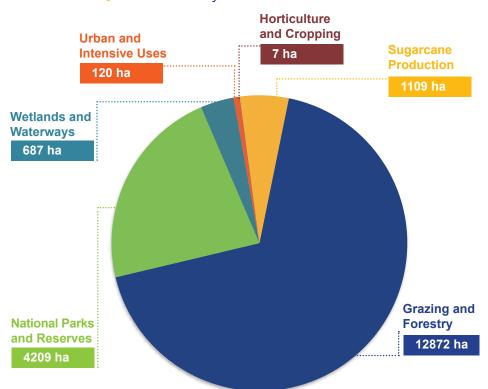






The Flaggy Rock Creek freshwater ecosystem received an overall score of Moderate.

[Total Area by Landuse



The Flaggy Rock Creek catchment area drains the coastal lowlands just south of the settlement of Carmila. The Flaggy Rock Creek estuary creates important local wetlands that are part of West Hill National Park. The National Park comprises 20% of the catchment area. The catchment area extends down the coast for approximately 50km. Seventy percent of the catchment is under grazing production, much of which extends to the coast. Cane production accounts for 5% of the catchment area.

Management practices that reduce particulate phosphorus and particulate nitrogen in grazing management practices will be priority.

System repair actions that contribute to instream habitat improvement and the removal of barriers to fish migration will continue to be a priority. Future management efforts should also focus on protecting and improving the coastal wetland extent and condition to support regeneration of inshore seagrass beds.

Total hectares Flaggy Rock Creek

18904 ha

Ecosystem HEALTH]

Subcatchment Freshwater Ecosystem Health Indicator Score: Current Condition 2014 and Target 2021



.... Table 1: OVERVIEW

This index presents the indicators chosen to assess the condition of freshwater ecosystem health. The index uses a combination of monitored data and expert opinion to provide a score for the current condition of fish community health, event water quality, ambient water quality, flow, riparian vegetation, and barriers to migration for each of the region's 33 catchment management areas. The table also presents the target for each indicator to be reached by 2021.

Table 2 Event Freshwater Quality: Current Condition, Targets and Objectives

Key Pollutant	Current Condition	Target 2021	Objective 2050	Action	Pollutant Source							
FLAGGY ROCK CREEK SUBCATCHMENT												
Dissolved Inorganic Nitrogen µg/L	300	282	282	HIGH	CIU							
Particulate Nitrogen μg/L	701	659	340	MEDIUM	CIUG							
Filterable Reactive Phosphorus µg/L	30	28	28	HIGH	CIU							
Particulate Phosphorus µg/L	368	253	70	V HIGH	CIUG							
Total Suspended Sediment mg/L	268	186	186	V HIGH	CIUG							
Ametryn μg/L	<lod< td=""><td><lod< td=""><td><lod< td=""><td>LOW</td><td>CIU</td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>LOW</td><td>CIU</td></lod<></td></lod<>	<lod< td=""><td>LOW</td><td>CIU</td></lod<>	LOW	CIU							
Atrazine µg/L	0.03	0.03	0.03	MEDIUM	CIU							
Diuron μg/L	0.13	0.12	0.12	MEDIUM	CIU							
Hexazinone µg/L	0.02	0.02	0.02	MEDIUM	CIU							
Tebuthiuron μg/L	0.05	0.04	0.02	HIGH	G							

C Cane IU Intensive Uses G Grazing

· Table 2: OVERVIEW

This table presents the current condition (2014) event freshwater quality values for nutrients, sediment, and herbicides. It also presents water quality targets for 2021 and 2050 water quality objectives that have been calculated based on an achievable level of adoption of improved management practices and the level of effort that will be required ("Action"). For each of the pollutants listed, the table also identifies the main pollutant source.

Table 3 Action Targets: Ecosystem Health Management

L = Low, M = Moderate, H = High



Table 3: OVERVIEW

This table presents the onground management actions determined to be required to improve ecosystem health, including the removal of barriers to fish migration, establishment of riparian vegetation, bank stabilisation, and in-stream habitat works. The table displays the current condition for each component, as well as the planned activities to be completed by 2021, the level of effort required and associated costs.

Table 4: OVERVIEW -----

The table below displays the current level of management practices for Sugarcane/Horticulture, Grazing, and Urban within D, C, B and A Management Framework classifications at 2014. The table also presents the level of voluntary adoption of management practices required to meet 2021 objectives and their associated costs.

Table 4 Agriculture ABCD Adoption Targets

Land Use		2014 Adoption %				2021 Adoption %			Total Cost			
		D	С	В	Α	D	С	В	Α	\$ '000s		
FLAGGY ROCK CREEK SUBCATCHMENT												
Cane & Horticulture	Soil	18%	24%	39%	20%	10%	15%	50%	25%	45		
	Nutrient	13%	29%	54%	5%	5%	15%	75%	5%	84		
	Herbicide	20%	33%	43%	5%	15%	20%	60%	5%	10		
Grazing	Soil	25%	11%	58%	6%	15%	5%	75%	5%	532		
D Dated practice C Common practice B Best practice								A Cutting	g-edge practice			