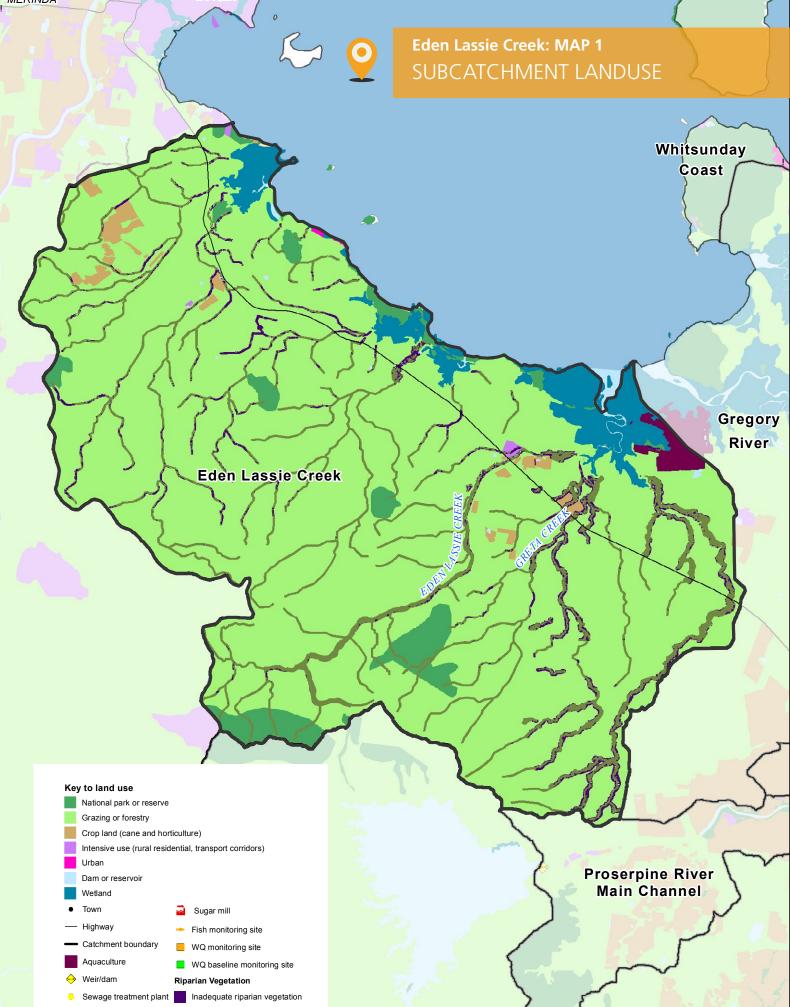


WATER QUALITY IMPROVEMENT PLAN 2014 - 2021

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CATCHMENT MANAGEMENT AREA REPORT

1 Eden Lassie Creek



Upper Proserpine River

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n

Drinking water

2

Kilometres

Boat ramp

Riparian vegetation

Data: 6 State of Queensland (Department of Science, Information Technology, Innovation and the Arts) 2014

Lethebrook

WATER QUALITY IMPROVEMENT PLAN 2014 - 2021

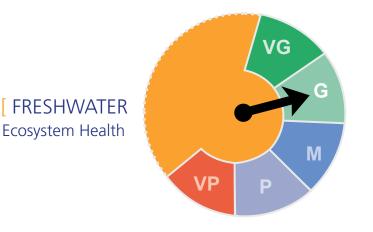
CATCHMENT MANAGEMENT AREA REPORT

1 Eden Lassie Creek



Eden Lassie Creek Ecosystem Health Rating

Very Good Good Moderate Poor Very Poor



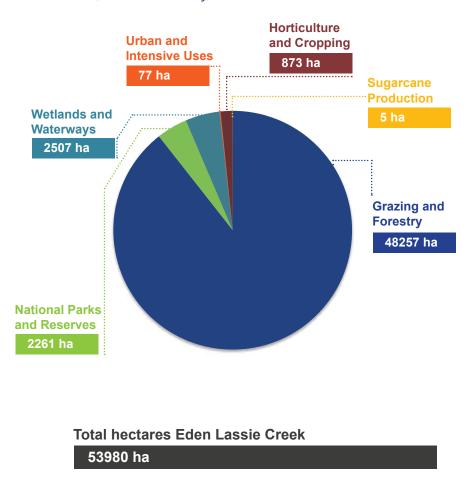
Eden Lassie Creek **freshwater ecosystem** received an overall score of **Good**.

The Eden Lassie Creek catchment is the northern most catchment management area of the Mackay Whitsunday region. The Eden Lassie catchment area drains into the Declared Fish Habitat and Dugong Protection Area of Edgecumbe Bay. The catchment is dominated by grazing with some horticulture production.

In 2007, the water quality and ecological health of Eden Lassie Creek catchment area was rated among the highest in the Mackay Whitsunday region, while the estuary condition was moderate.

Grazing management practices that reduce particulate phosphorus loads will continue to be the priority for ongoing improvement in event water quality in Eden Lassie Creek catchment area. Management practices that reduce other nutrients and residual herbicides are a moderate priority. System repair actions for instream habitat, riparian vegetation, barrier removal, mangroves and saltmarsh are the highest priority. A significant increase in investment towards active management and restoration of instream habitat and riparian vegetation is required to enable fish communities to gain maximum benefits from improved water quality.

[Total Area by Landuse



Ecosystem HEALTH]

Subcatchment Freshwater Ecosystem Health Indicator Score: Table 1 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
EDEN LASSIE CREEK SUB CATCHMENT					
Dissolved Inorganic Nitrogen µg/L	210	210	210	LOW	CIU
Particulate Nitrogen µg/L	318	264	264	V HIGH	CIUG
Filterable Reactive Phosphorus µg/L	31	31	30	LOW	CIU
Particulate Phosphorus µg/L	72	60	60	V HIGH	CIUG
Total Suspended Sediment mg/L	139	115	115	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	<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
Diuron µg/L	0.07	0.06	0.06	MEDIUM	CIU
Hexazinone 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
Tebuthiuron µg/L	<lod< td=""><td><lod< td=""><td><lod< td=""><td>LOW</td><td>G</td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>LOW</td><td>G</td></lod<></td></lod<>	<lod< td=""><td>LOW</td><td>G</td></lod<>	LOW	G
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Table 2: OVERVIEW

C Cane IU Intensive Uses G Grazing

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.

Action Targets: Ecosystem Health Management Table 3

L = Low, M = Moderate, H = High

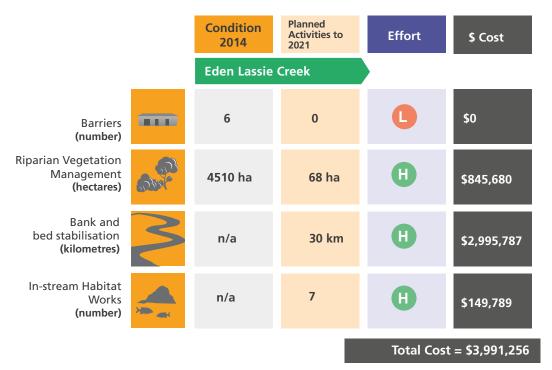


Table 3: OVERVIEW This table presents the onground management actions determined to be required to improve ecosystem health, including the removal of barriers to fish migration, establishment of riparian vegetation, bank stabilisation, and in-stream habitat works. The table displays the current condition for each component, as well as the planned activities to be completed by 2021, the level of effort required and associated costs.

Tables 4: OVERVIEW

The tables below display 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

