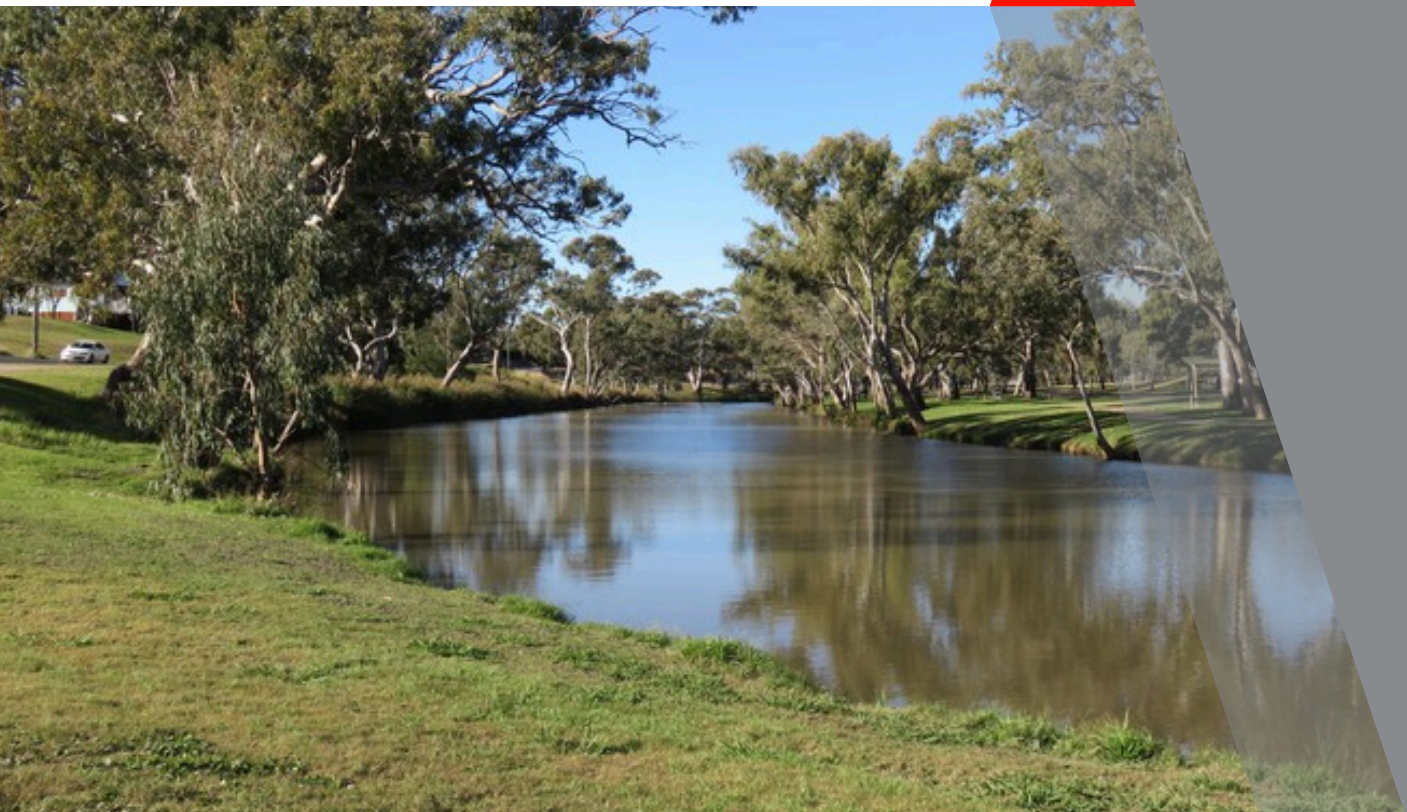


CASE STUDY

FEDERATION PARK STORMWATER UPGRADE

WARWICK, QLD

HUMEGARD® PROTECTS THE
CONDAMINE RIVER



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Improving Water Quality Along the Condamine River

Project Background

Federation Park in Warwick sits along the Condamine River, a key tributary to the Murray-Darling Basin. The park is a popular community area and an important environmental zone upstream of the town centre. However, it previously served as the discharge point for around 60% of stormwater and surface runoff from the Warwick CBD, entering the river without any treatment.

Key Challenge

The Southern Downs Regional Council sought to improve stormwater quality at the park by retrofitting stormwater quality improvement devices (SQIDs) into the existing drainage network. The design needed to minimise additional headloss to prevent flooding in the CBD, while ensuring the system could capture pollutants during regular flows and retain them during peak flow events.

Manufacture and Installation

Humes supplied and installed two HumeGard® and Gross Pollutant Traps (GPTs), positioned back-to-back within two parallel 1,200 mm reinforced concrete pipes. One pipeline was offset to enable connection to the twin GPT system. Each unit incorporated an offline pollutant storage chamber and a floating boom to ensure effective retention during high-flow events.

The system was designed to operate under low headloss conditions ($K = 0.2$), maintaining optimal performance during storm events while protecting CBD drainage capacity.

Innovation and Outcome

The HumeGard® GPTs now treat 60% of stormwater from the Warwick CBD, achieving 99% capture efficiency for gross pollutants and sediments greater than $150 \mu\text{m}$ up to the treatable flow rate. The system reduces gross pollutant and sediment loading by approximately 85% annually, improving local water quality and public amenity for the Warwick community.

This project demonstrates how Humes' engineered stormwater solutions deliver long-term environmental and community benefits through robust design, efficiency and proven performance.

PROJECT INFORMATION



PROJECT

Federation Park,
Warwick QLD



CLIENT

Southern Downs Regional
Council



PRODUCT SUPPLIED

2x HumeGard® Gross
Pollutant Traps (GPTs)

