# Slacks Creek Restoration Project (SCRP) Planning Urban Restoration Projects to Deliver Ecological Assets for Communities

**Griffith University - Logan: Environmental Arboretum & Riparian Restoration** 



Flood event impacting Slacks Creek adjoining the Arboretum, March

### **Project Description**

• The Water and Carbon Group have designed, implemented and established the 9.5+ hectare arboretum on the Logan Campus which adjoins Slacks Creek. The Campus is used by 2,500 students and is home to a number of community events.

• The Water and Carbon Group developed the environmental arboretum concept and have worked with Logan City Council, Griffith University and other stakeholders to develop a draft masterplan. The masterplan vision is for the arboretum to become a recreational destination for the Logan region.

• The contemporary arboretum now includes numerous local vegetation communities from open forests to riparian rainforest with approximately 20,000 plants already implemented. The focus of the Arboretum was to create a regional and cultural collection of key tree species that have Indigenous and European significance. This living collection also includes rare and threatened species that now form a valuable conservation resource for the Logan region.

• The inception of this restoration project to become an Arboretum has now created a land-based asset with ecological, educational, amenity and passive recreational benefits.

#### **Project Summary**

Slacks Creek traverses through a highly modified landscape. The riparian restoration project was initiated to increase both terrestrial and hydrological connectivity in the creek corridor. The Slacks Creek Restoration Project (SCRP) was funded by the Australian Government and delivered by Logan City Council (LCC) through partnerships with The Water and Carbon Group (WCG), CSIRO and Griffith University. The project commenced in 2013 and concluded in June 2018. Several degraded sites identified for restoration were



Post-planting, November 2014



Arboretum establishment and access tracks, July



#### **Project Team**

Dan Cole - Water and Carbon Group Sam Colbran - Logan City Council Brendan Cranney - Water and Carbon Group Bruce Duguay - Water and Carbon Group Matt Fredriksen - Water and Carbon Group Anna Markula - Logan City Council

nominated to achieve additional outcomes such as providing assets for the broader community. The planning phase then became critical to the design of restoration projects to deliver these ecological and community assets. The two sub-projects presented are the Griffith University - Environmental Arboretum and the Shailer Pioneer Park Stormwater Wetland. Currently 61,000+ plants have been incorporated into the restoration sites with further plantings to be implemented through community participation.

The planning and successful delivery of these and delivering urban restoration projects that identify and integrate a diversity of values for the sub-projects have engaged the community and stakeholders, whom are now supporting the onbenefit of local communities. Planning, partnerships and stakeholder engagement have been going restoration of these key sites. In early 2018 the Slacks Creek Catchment Restoration Group, integral to the success of the project and to fostering connections within the diverse communia not-for-profit community environment group, was established to coordinate ongoing commuties of Logan City. nity participation and to maintain momentum for restoration beyond the project's primary funding. The successful and ongoing outcomes of SCRP highlight the importance of designing

**Griffith University: Progress and Planning Images** 





Arboretum entrance and establishment, July 2018

Informal Walking Tra

Australian Governmen S

Griffith

15.01.2018 1:1000 @A1 M

Arboretum concept plan developed with key stakeholders

**Rob McKenzie** - Water and Carbon Group Paul Patterson - Water and Carbon Group Jai Sigley - Water and Carbon Group **Greg Siepen** - Ecological Consultant

#### **Additional Information**



TLET SWALE ER CIVIL PLAN 14011-CIV-DRG-00



#### **Creating Community Value**

**Shailer Pioneer Park: Progress and Planning Images** 



Wetland planting, December 2014



Macrophyte establishment adjoining the boardwalk, March 2015



Landscape establishment, August 2017



Wetland design developed with key stakeholders

#### Enquiries

Project Ecologist - Dan Cole **Email:** d.cole@waterancarbon.com.au THE WATER AND CARBON GROUP LEVEL 4, 127 CREEK STREET BRISBANE CITY, 4000, QLD PH: 07 3211 9997

PEN WATER BODY





ustralian Government

## WATER&CARBON

**Shailer Pioneer Park:** Wetland & Riparian Restoration

Landscape and wetland establishment, February 2017

### **Project Description**

• Shailer Pioneer Park is the only urban park servicing the local area. The Water and Carbon Group planned the project to create a high value community asset that would improve water quality and biodiversity.

• The Water and Carbon Group designed and constructed a high-density treatment wetland system in 2014 and provided operational support to Logan City Council while undertaking maintenance activities on the site. Approximately 25,000 plants were integrated into the wetland system and adjoining riparian zone.

• The stormwater wetland and riparian restoration has improved the water quality entering Slacks Creek through treatment and reduction of pollutant loads. Local ecology has been enhanced by improving in-stream habitats and increasing riparian habitat. The project now provides a naturalised stormwater wetland which complements the existing recreation and amenity values of Shailer Pioneer Park.

• The project highlights the Water and Carbon Group's expertise and capability to design, build and maintain ecological infrastructure projects. In 2016 the Shailer Pioneer Park wetland project received a Highly Commended Award at the Premier's Sustainability Awards.