

# Williamina Court

## Stormwater Treatment Pond & Channel Naturalisation

NARANGBA

PROJECT OUTCOMES

Moreton Bay Regional Council has committed to reducing the amount of urban pollutants such as sediment and nutrients in stormwater entering the catchment of Burpengary Creek and eventually Moreton Bay.

### The Project Site

Williamina Court park currently has a significant overland flow path that drains a 58-hectare catchment.

It includes a concrete low flow channel and a small pond at the downstream extent adjacent to Oakey Flat Road. The existing pond is currently full of sediment and is prone to outbreaks of floating weeds. This site has been identified as having the potential to accommodate a stormwater quality improvement installation in pursuit of Council's environmental objectives.

### What is proposed?

Within the drainage line of Williamina Court park, Council proposes to replace the existing concrete drain with a naturalised waterway. The waterway will consist of a largely rocky and vegetated low flow channel surrounded by a broader vegetated floodplain. The pond will be modified to create a more self-sustaining system with improved vegetated edges. Plants within the pond will help to capture sediment and nutrients that are contained within stormwater.

The upstream sedimentation basins will capture much of the sediment contained within the stormwater, allowing for periodic clean-out.

### When is this happening?

The project is currently undergoing rigorous detailed design. Construction will commence mid-2022 during the dry season.

Improved water quality in Little Burpengary Creek

Pedestrian connectivity

Improved biodiversity

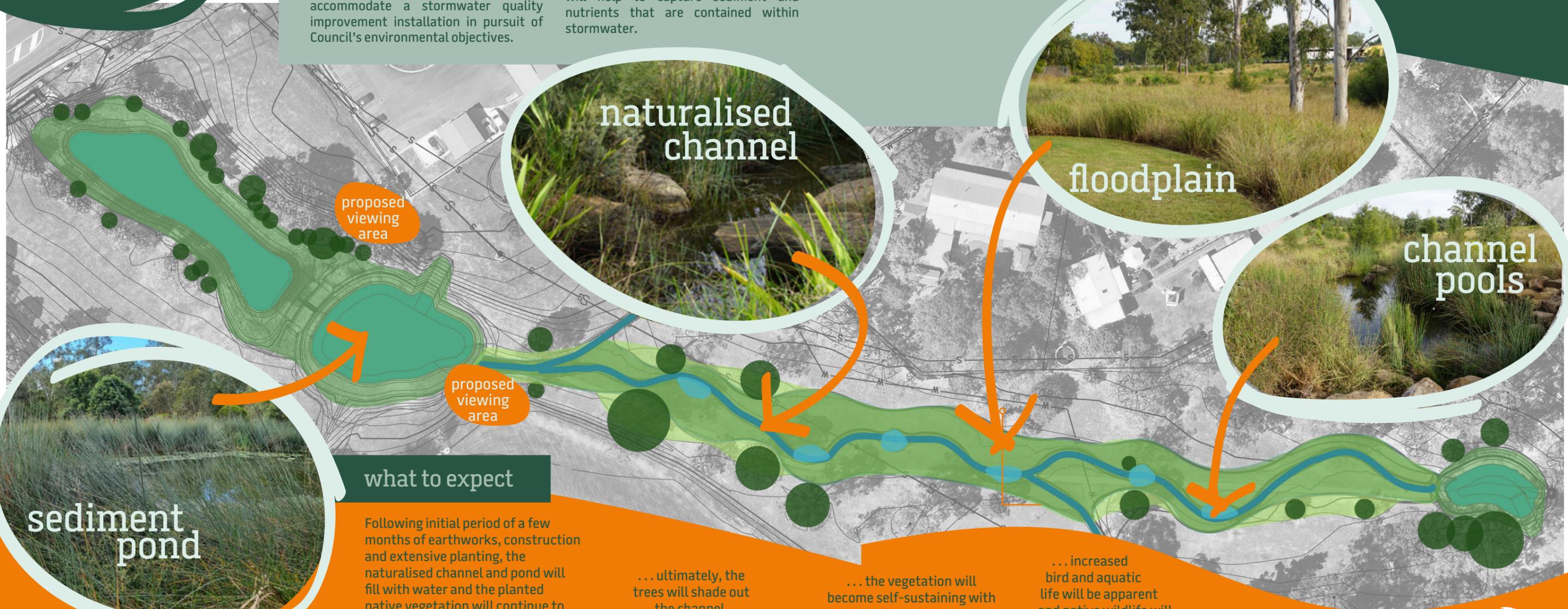
Low maintenance self-sustaining green infrastructure

Landscaped parkland with improved visual amenity

Material recycling

Microclimate

Nature play



### what to expect

Following initial period of a few months of earthworks, construction and extensive planting, the naturalised channel and pond will fill with water and the planted native vegetation will continue to establish and mature...

... ultimately, the trees will shade out the channel, preventing weeds from becoming dominant...

... the vegetation will become self-sustaining with periodic maintenance including weed and litter removal being the main intervention...

... increased bird and aquatic life will be apparent and native wildlife will migrate into the area.

sediment pond

naturalised channel

floodplain

channel pools

proposed viewing area

proposed viewing area