



Break in the natural stream bank levee caused by flooding caused by Ex-Tropical Cyclone Oswald

### Radel Property - Staatz Road, Monto Three Moon Creek

#### Background

The 2013 flooding caused by Ex-Tropical Cyclone Oswald damaged the natural levee bank on the Radel property. Left unattended the break in this natural levee would leave the adjoining agricultural land on the flood plain exposed to scouring in future flood events.

The project aimed to restore the natural levee to pre 2013 dimensions and was recommended in the Three Moon and Monal Creeks Floodplain Management Plan Action Program 5 – *Stability of creek banks and natural levees where by it states that “Breaches in the natural levees of the Three Moon and Monal Creeks be restored and permanent vegetation established”.*

#### The Project

Before being able to commence work on this project, a Riverine Protection Permit was required from the Department of Natural Resources and Mines. Once this approval was obtained, an earthmoving contractor was employed to undertake the rehabilitation works.

Suitable fill material (sandy silt to sandy clay) was sourced and placed in approximately 300mm layers and compacted thoroughly as the structure is restored. The final layer was topsoiled and seeded with grass and fertilised to promote revegetation.

The restored natural creek levee was designed to prevent stream water exiting the primary channel of Three Moon Creek during moderate flood events.



The repaired levee bank following earthworks and the addition of seeded topsoil

## Results

Significant flooding caused by Tropical Cyclone Marcia in February 2015 has proved the effectiveness of the project with the restored natural levee incurring no damage and the adjacent agricultural land remaining free of erosion and scouring.



The natural levee bank was not breached despite the significant flooding caused by Tropical Cyclone Marcia protecting the adjacent land from scouring and erosion



Australian Government



Queensland Government

This project is part of the On-farm Productivity and Riparian Recovery Program supporting primary producing areas severely impacted by flooding following Ex-Tropical Cyclone Oswald in 2013 and is funded by the Queensland and Commonwealth Governments through natural disaster relief and recovery arrangements

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