WHERE IS THE WHAT & WHY

Linke’s Road Floodway Reconstruction
WHERE, WHAT & WHY

• The Project
• The Problems
• The Current Situation
• The Challenges
WHERE

- 6km from town
- 7km downstream from dam wall
- ‘Low’ volume road used as a ‘shortcut’ to Industrial Site
- Constructed to Seal in 1985?
- Originally rock causeway
- Concrete causeway
- Culverts
WHY

- Cyclone Activity
  - Larry 2006
  - Oswald 2013
  - Marcia 2015

- Causeway rebuilt using NDRRA funds
  - 2007
  - 2014
  - 2016/17
• Original
  • Concrete causeway 6 cell 2100x1200
  • Constructed 2014
  • Damaged in Cyclone Marcia

• Proposed
  • 10 Cell, 2100x1200, plus 180m of floodway
  • Estimated cost $1.4M
  • To be completed and fully reconciled by 30 June 2017
WHAT

• Council Engaged
  • Design Consultant - June 2016
  • Project Coordinator – October 2016
  • Culvert Supply organised
  • Contractor (Demolish and Install Only) – January 2017

• Proposed Construction completion end April 2017 (10 weeks)
• Construction commenced
  6th March 2017

• 14th March 2017 – issues identified
• What caused this?
• What Assessment was done?
• What was design based on?
• Will proposal work?
• Do we need to revisit the design?
• Do we need to have a new design?

• SO MANY QUESTIONS!!!!
• Contacted Designers to discuss the concerns.
• Undertake Geo Tech Investigations
• Discuss options with Management
• Met with QRA to discuss options.
• Discuss options with Management
  • Piered culvert
  • Bridge
  • Realigned Bridge
  • Culvert
  • Degraded Causeway
  • Close Road

• Met with QRA to discuss options.
WHAT

- At Grade Causeway
WHAT

• Current Situation
• Road Currently closed for 6 months
WHERE, WHAT & WHY

• The Challenges
  • Ensure that work is properly scoped
  • Ensure investigation work is adequate for the problem
  • Use ‘engaged’ contractors
  • Ask the 'dumb questions'
  • Does proposal fit in Asset strategy
  • Does Asset Strategy include sufficient Scenario analysis
  • Keep records of previous works/maintenance
QUESTIONS