



Numurkah Flood Mitigation Update

April 2023

Overview - Agenda



- Welcome, acknowledgement of Country, introductions
 - (Moirá Shire, Designer/Modeller, Committee)
- 2pm – 3pm - Presentation
 - Project Background – (Refresher)
 - Project Update St 1
 - Next Steps St 1 & St 2
 - Questions
- 3pm – 5pm
 - Individual discussions/clarifications

Background



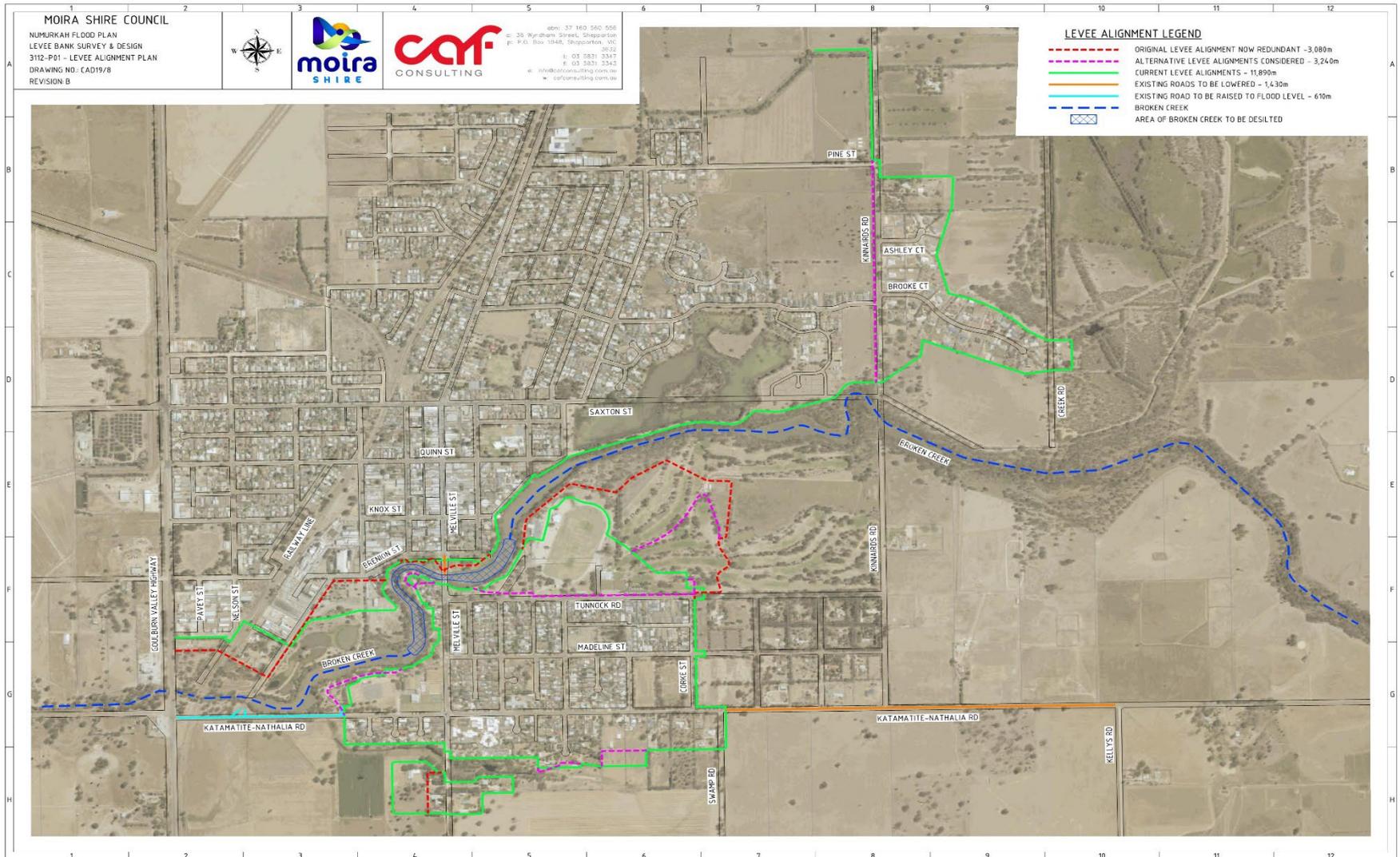
- 2012 event
 - 200 – 300mm Feb/March
- Numurkah Floodplain Man't Study & Report – Nov 2017
 - Advisory Committee & Community Consultation
 - Extensive catchment analysis & hydraulic modelling
 - Good calibration – 1993 & 2012 events
 - 2012 event very similar to the modelled 1% design event
 - Up to 15 mitigation options modelled
 - Final report included 3 Options – Packages A,B & C
 - Mitigation package A – Recommended
 - Community consultation early 2018
 - Council Adopted report in 23 May 2018
 - Noted Mitigation Option A as preferred
 - Established Implementation Advisory Committee.

Mitigation Package A



- Northern Levee
- Southern Levee X 2
- In-stream creek works – channel enlargement - desilting
- Removal of soil mounds – Go-Cart track
- Raising/Lowering of Nathalia-Katamatite Rd
- Removal of Irrigation Delver
- Non-return valves on drainage inlets
- General
 - Levee = Approx. 10km long. (Northern = 4.5km)
 - Freeboard = 450mm earthen and 300mm masonry.
 - Cost Est \$16.9m

Background – Mitigation Package A.



Stage 1 implementation



- Project Update St 1
 - Implementation Advisory Committee
 - Significant input and support to project development
 - Implementation Strategy
 - Detailed Design Consultancy - CAF
 - Design & Hydraulic Modelling Water Technology
 - Investigation of development implications/opportunities
 - Key Issues – Continue to resolve
 - Alignment
 - land tenure
 - key points/interactions,
 - Approvals/Cost Est/Funding
 - Project timelines
 - Communication/Consultation

Staged Implementation



- Stage 1 – Current funding & project
 - Northern Levee GV Hwy – Kinnaird's Rd
- Stage 2 – Funding application for detailed design
 - Southern Ring Levee
 - Hospital levee
 - + ?? Works (additional modelling to determine scope required)
- Stage 3
 - Brooke & Ashley Crt Levee

Sample Levee Profile Photos



Crib Wall Levee



Demountable Wall Levee,



Concrete Retaining Wall Levee



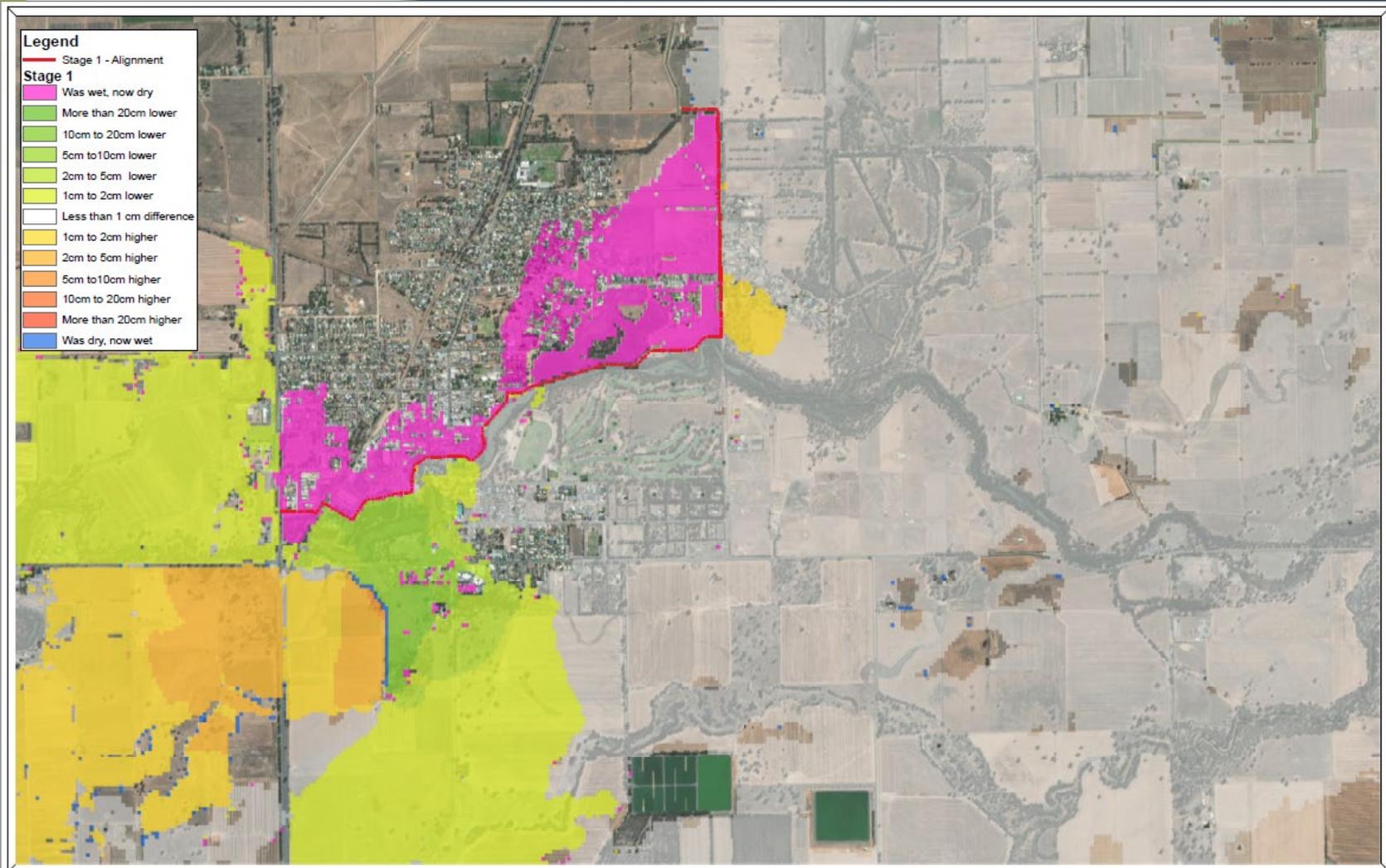
Earthen Embankment
Levee

Stage 1 – Northern Levee



- Northern Levee – 4.5km
- Funding – \$3.176m (\$2.382m grant + \$794k Moira)
- Agreed - Design parameters (Committee)
 - Alignment amendments
 - Needham St, Council depot, Saxon St/Lakeside & Brooke Crt
 - Hydraulic Modelling Completed – Assumptions
 - No creek works
 - No Road adjustments
 - Irrigation Delver removed
 - Tunnock St development

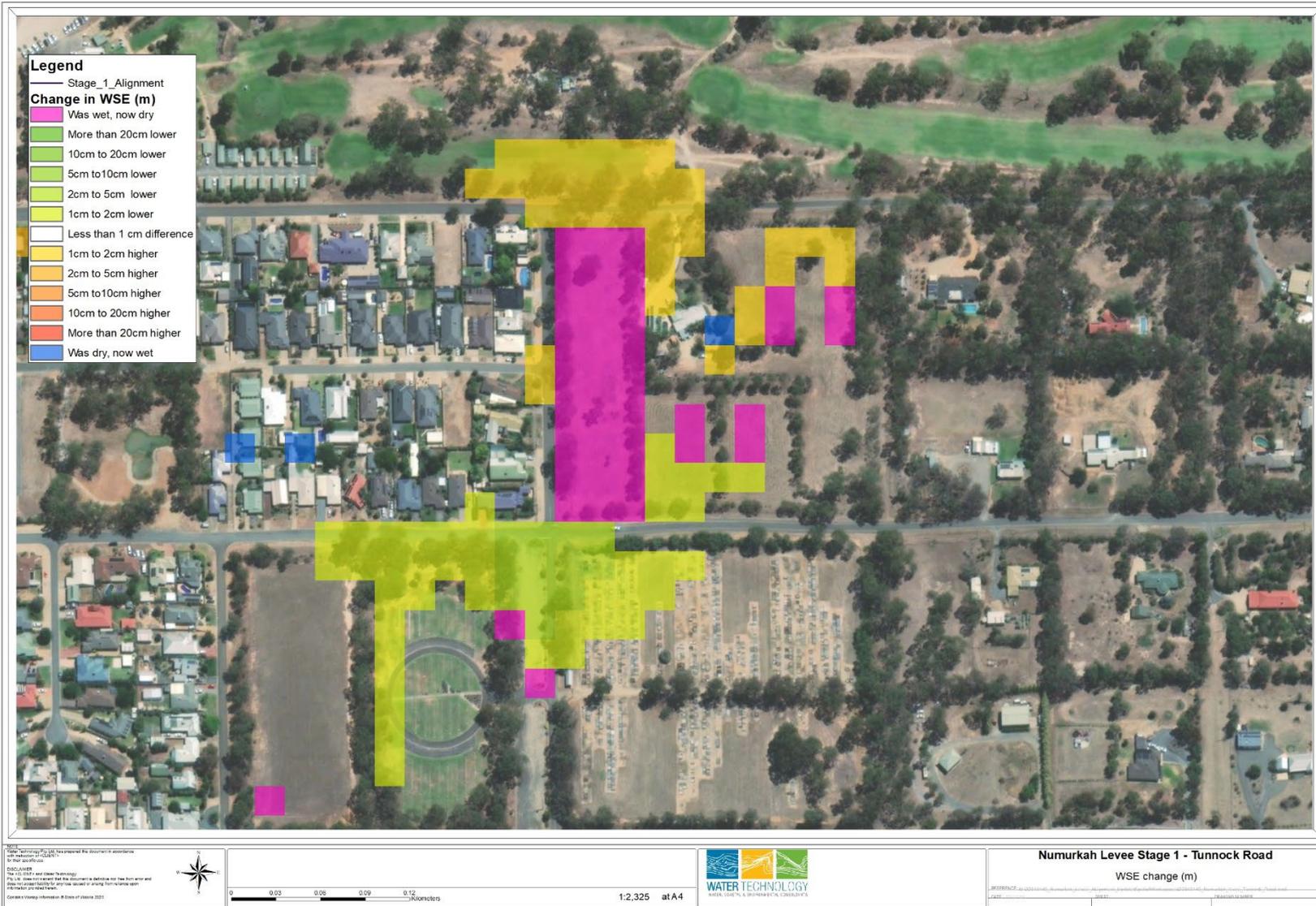
Stage 1 – Hydraulic Modelling



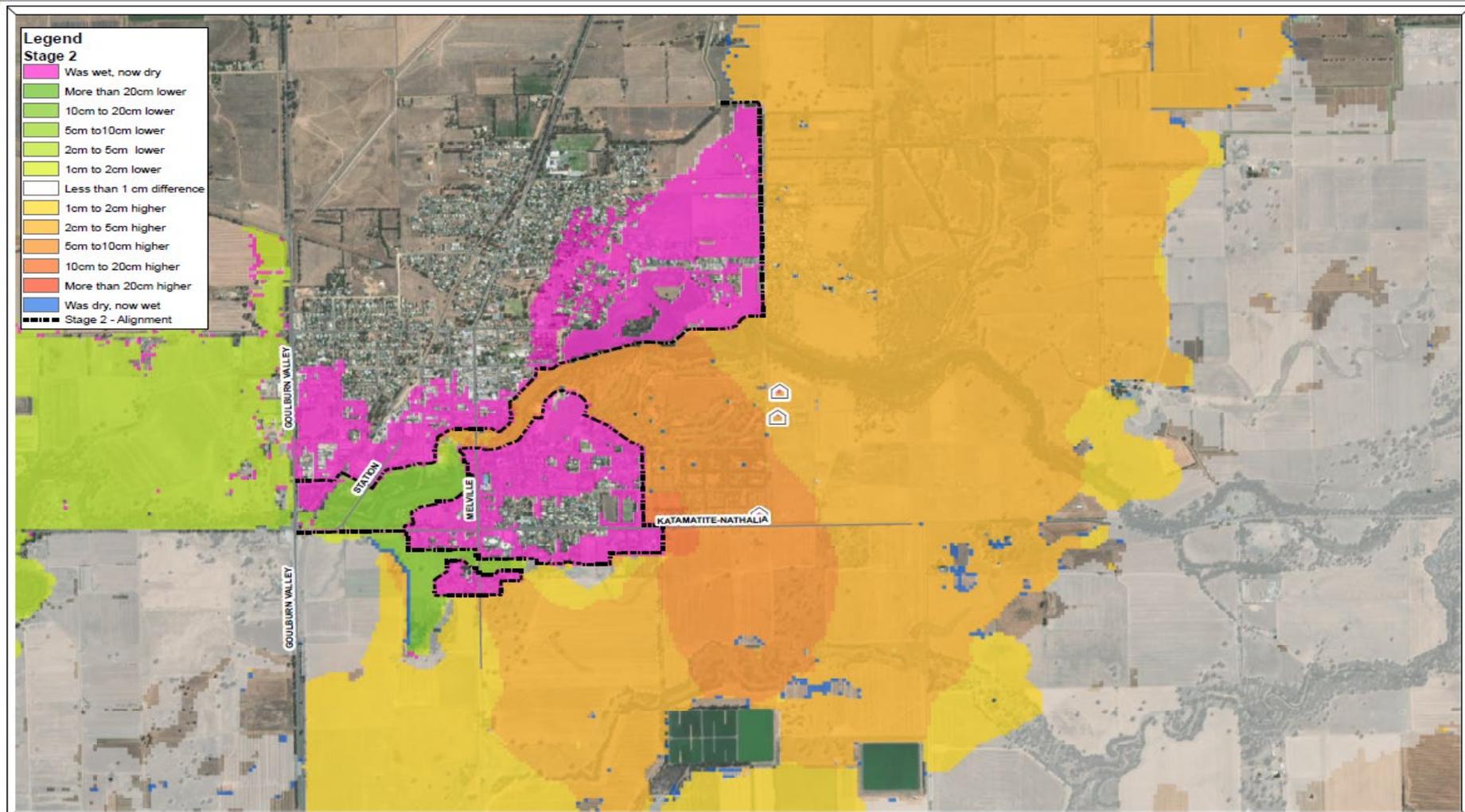
Stage 1 – Tunnock Rd Development



B



Stage 2 – Hydraulic Modelling – (Current Assumptions)



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1:20,000 at A4



Stage 1 – Current Activity - implementation



- Other Design/Approval works
 - Brennon St Pump station review & design - TBC
 - Cultural Heritage Assessment - Engaged
 - Flora and Fauna Study - Engaged
 - Planning Consultancy - TBC
- Detailed design
 - Land tenure v's alignment – avoiding acquisition & sensitive areas
 - Interaction at key points – GV Hwy, Rail Line, Pump station, Rose Garden, Band Hall & GVWater tower, Road Crossings.

Stage 1 – Northern Levee – Key Issue



Stage 1 – Northern Levee – Key Issue



Stage 1 – Northern Levee – Key Issue



Stage 1 – Northern Levee – Key Issue



Stage 1 – Northern Levee – Key Issue



Stage 1 – Northern Levee



- Timeframes
 - Detailed Design – July 2023
 - Approvals – September 2023
 - Civil Contract procurement – Sept/Oct 2023
 - Works commence – late 2023/early 2024
 - Works complete - 2024
- Considerations
 - Cultural Heritage outcomes.
 - Planning Objections.
 - Final Cost Estimates

Stage 1 – Consultation



- Advisory Committee
- Rose Gardens
 - Rose management (winter transplant?)
 - Levee alignment & form (Landscaping)
- Band Hall / GV Water Tower
 - Alignment & Form
 - Access
- Final Design – Pre Approval
- Implementation

Stage 2 – Next Steps



- STAGE 2
- Detailed design funding – Grant Application
- Southern Levee alignment
- Hydraulic Modelling - Optimised works
- Funding
 - Advocacy
 - Budget & Council plan

Thankyou !



- Lots of work done
- Lots to do!
- Ambitious targets to get constructing
- Going as hard as we can
- Reality is we still have some bridges to cross
- Want the best outcome for community
- Really appreciate cooperation of community
- Open and available for information
- Thankyou! (Looking forward to working together during construction)



Get in touch

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