

**PARKES SHIRE COUNCIL**

**COOKAMIDGERA  
FLOOD STUDY**

**OCTOBER 2024**

**VOLUME 2 – FIGURES**

**DRAFT REPORT FOR PUBLIC EXHIBITION**

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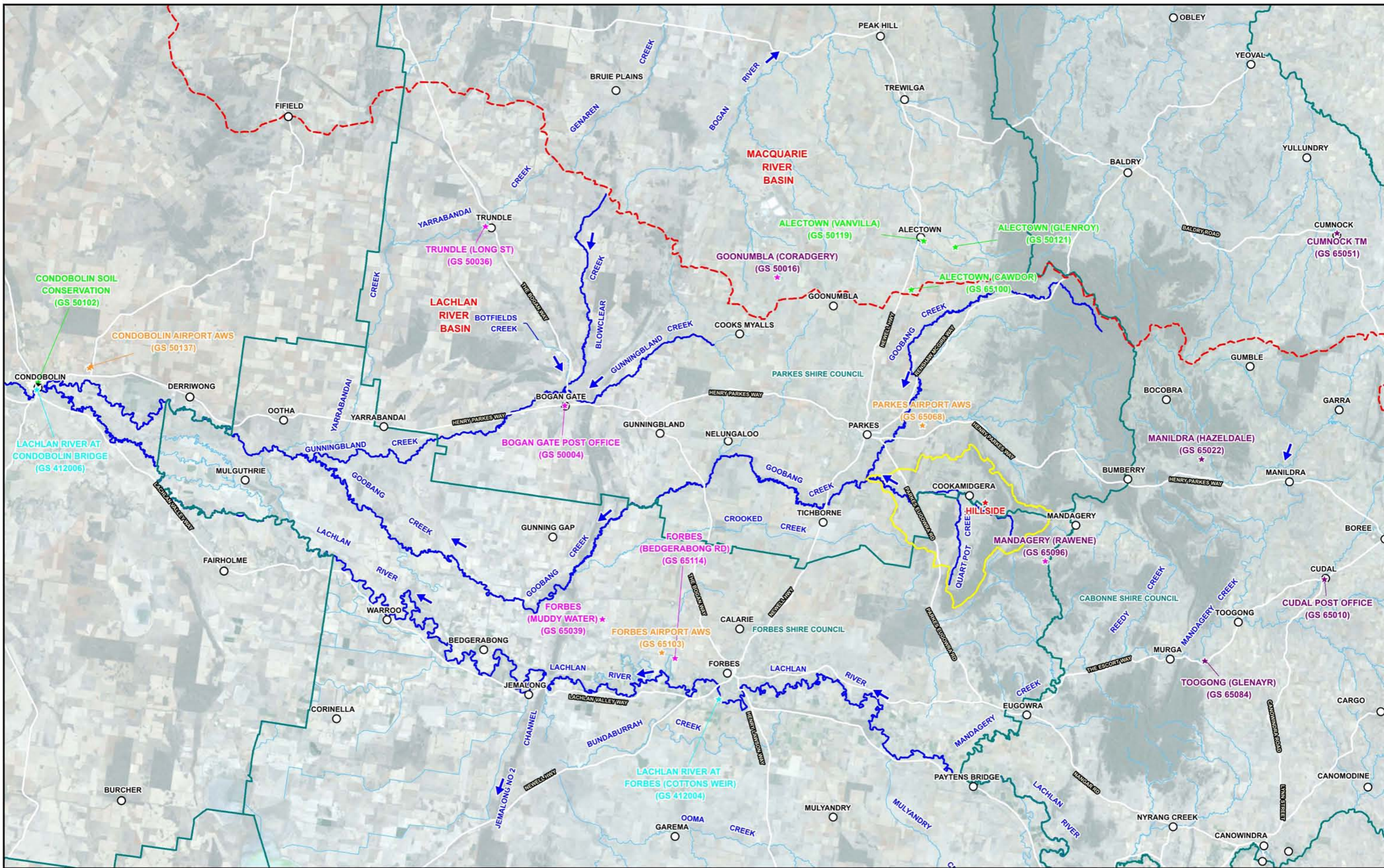
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**COOKAMIDGERA FLOOD STUDY**

**LEGEND**

- ★ BoM All Weather Station (AWS)
- ★ BoM Daily Rain Gauge
- ★ BoM Pluviographic Rain Gauge
- ★ WaterNSW Pluviographic Rain Gauge
- ★ Privately Owned Rain Gauge
- Study Catchment
- LGA Boundary
- River Basin Catchment Boundary
- BoM Flood Warning Network (FWN)

Scale: 1:400,000

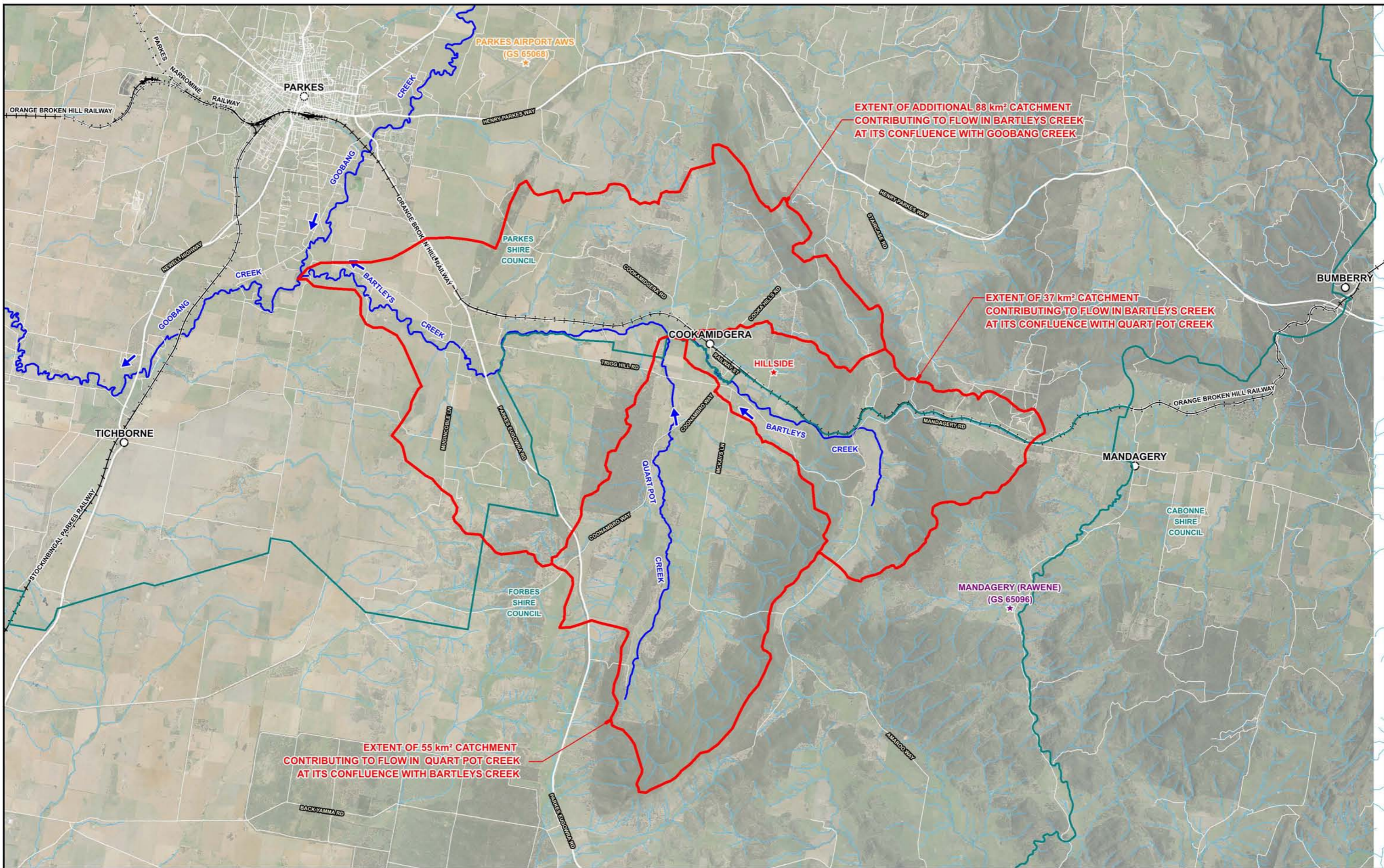
0 4 8 12 km

**Figure 1.1**

**LOCATION PLAN**

**Lyall & Associates**

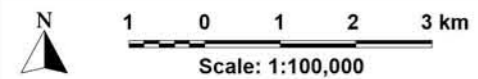




EXTENT OF ADDITIONAL 88 km<sup>2</sup> CATCHMENT CONTRIBUTING TO FLOW IN BARTLEYS CREEK AT ITS CONFLUENCE WITH GOOBANG CREEK

EXTENT OF 37 km<sup>2</sup> CATCHMENT CONTRIBUTING TO FLOW IN BARTLEYS CREEK AT ITS CONFLUENCE WITH QUART POT CREEK

EXTENT OF 55 km<sup>2</sup> CATCHMENT CONTRIBUTING TO FLOW IN QUART POT CREEK AT ITS CONFLUENCE WITH BARTLEYS CREEK



LEGEND

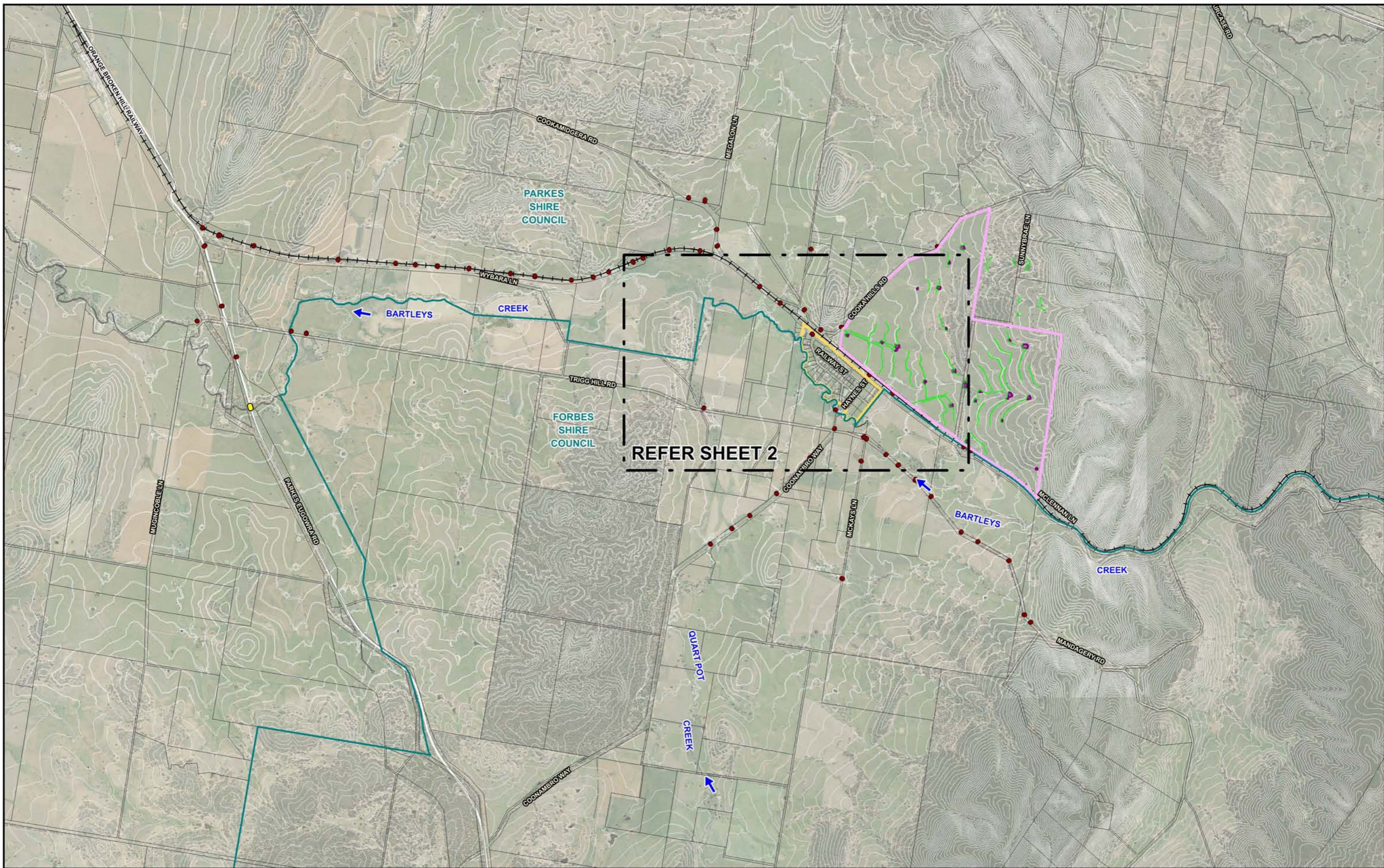
- ★ BoM All Weather Station (AWS)
- ★ BoM Flood Warning Network (FWN)
- ★ Privately Owned Rain Gauge
- LGA Boundary
- Catchment Boundary

COOKAMIDGERA FLOOD STUDY

Figure 2.1

CATCHMENT PLAN





N

400 0 400 800 1200 m

Scale: 1:40,000

**LEGEND**

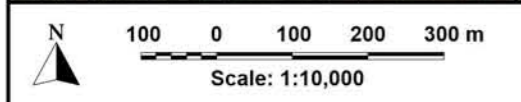
<span style="color: teal;">—</span> LGA Boundary	<span style="border: 1px solid pink; display: inline-block; width: 15px; height: 10px;"></span> Extent of The Cookamidgera Project
<span style="border: 1px solid yellow; display: inline-block; width: 15px; height: 10px;"></span> Bridge	<span style="border: 1px solid purple; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> Cookamidgera Project Dam
<span style="border: 1px solid yellow; display: inline-block; width: 15px; height: 10px;"></span> Village Centre	<span style="border-bottom: 1px solid green; display: inline-block; width: 20px;"></span> Cookamidgera Project Earth Bund/Embankment
<span style="color: red;">●</span> Modelled Stormwater Drainage System	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Natural Surface Elevation Contour (5m Interval)

**COOKAMIDGERA FLOOD STUDY**

Figure 2.2  
(Sheet 1 of 2)

**EXISTING STORMWATER DRAINAGE SYSTEM AT COOKAMIDGERA**





**Lyall & Associates**

**LEGEND**

- LGA Boundary
- Village Centre
- Modelled Stormwater Drainage System
- Natural Surface Elevation Contour (2m Interval)
- Extent of The Cookamidgera Project
- Cookamidgera Project Dam
- Cookamidgera Project Earth Bund/Embankment

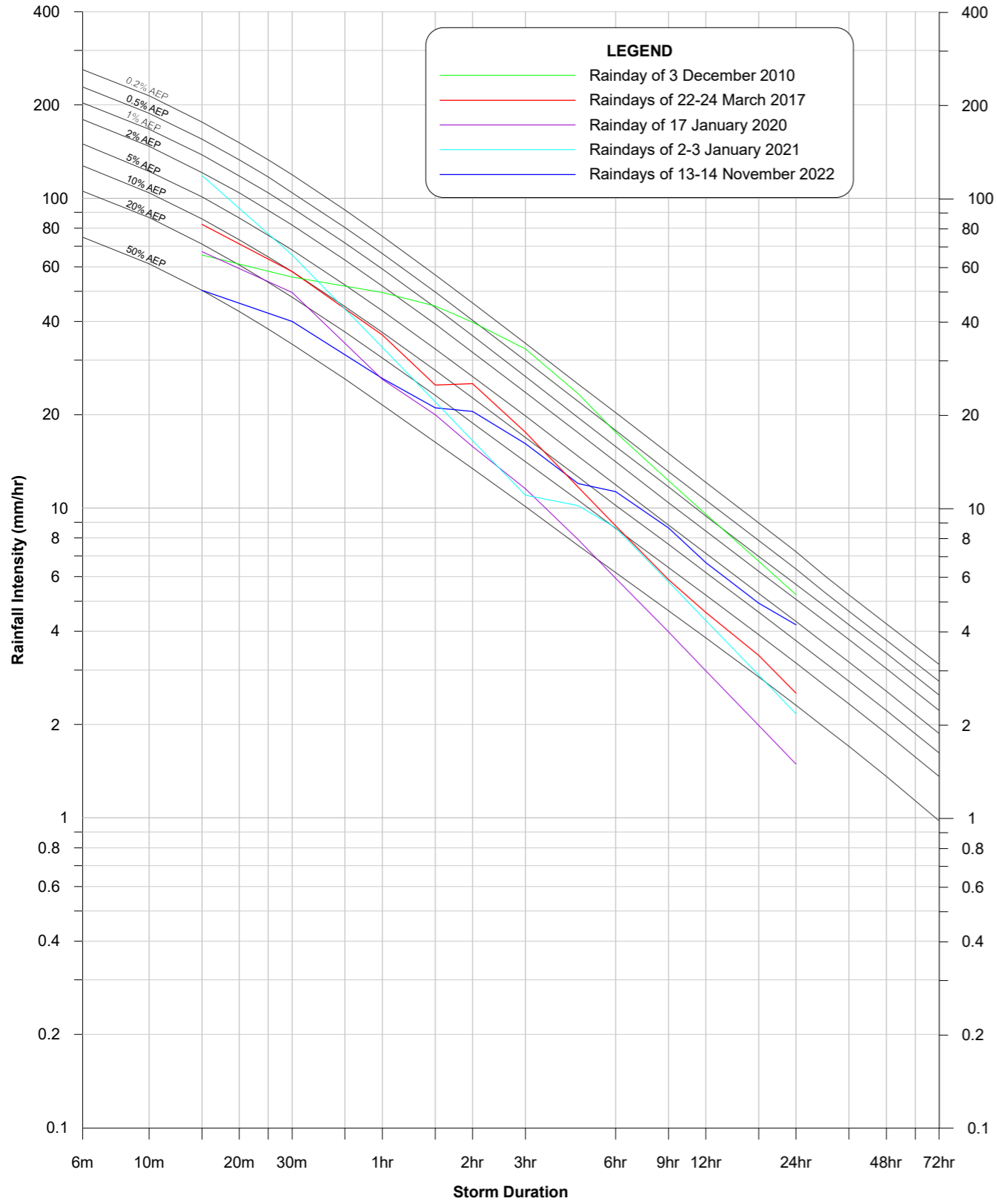
**COOKAMIDGERA FLOOD STUDY**

Figure 2.2  
(Sheet 2 of 2)

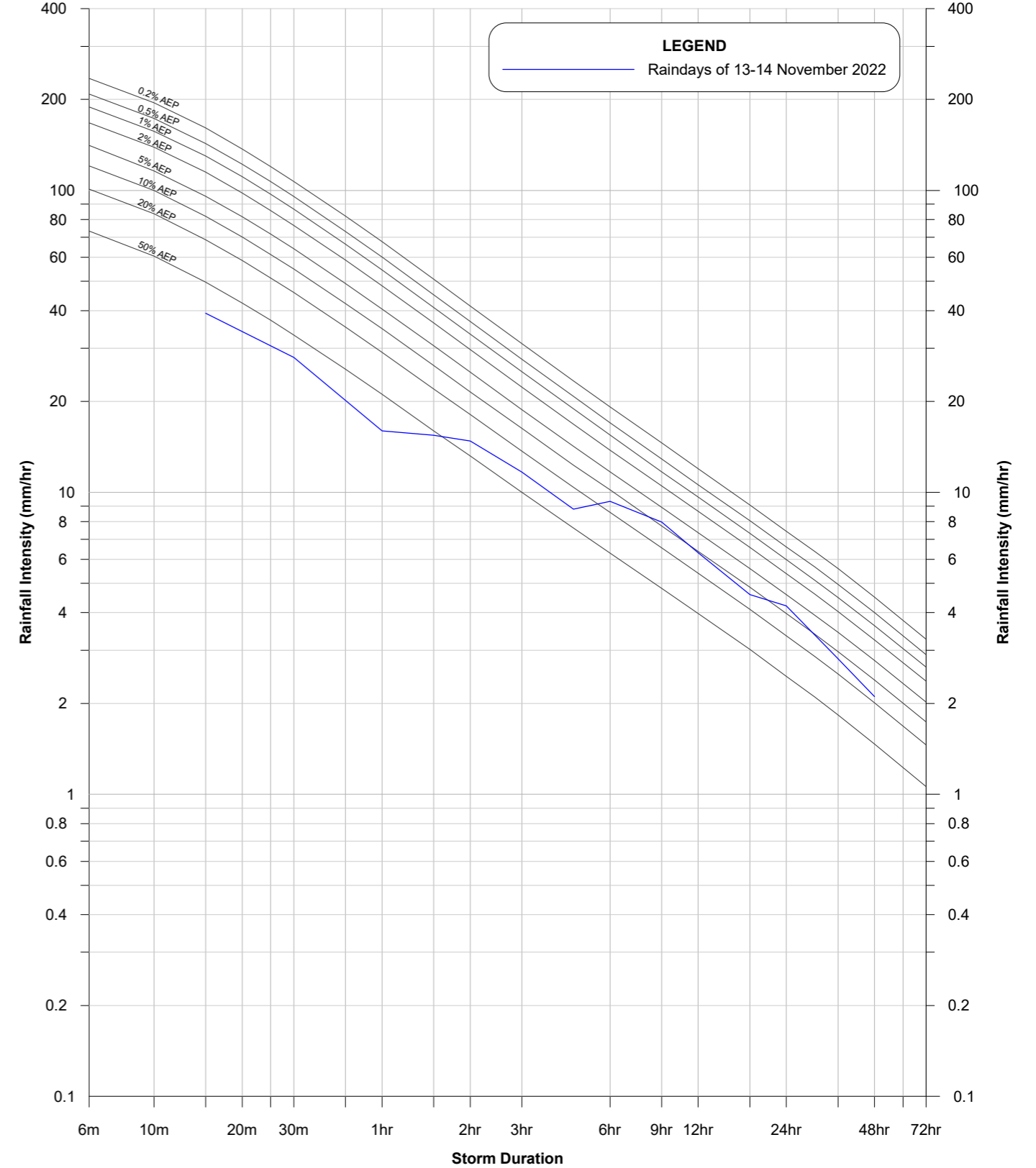
EXISTING STORMWATER DRAINAGE SYSTEM AT COOKAMIDGERA



**PARKES AIRPORT AWS  
(GS 65068)**



**MANDAGERY (RAWENE)  
(GS 65096)**



**COOKAMIDGERA FLOOD STUDY**

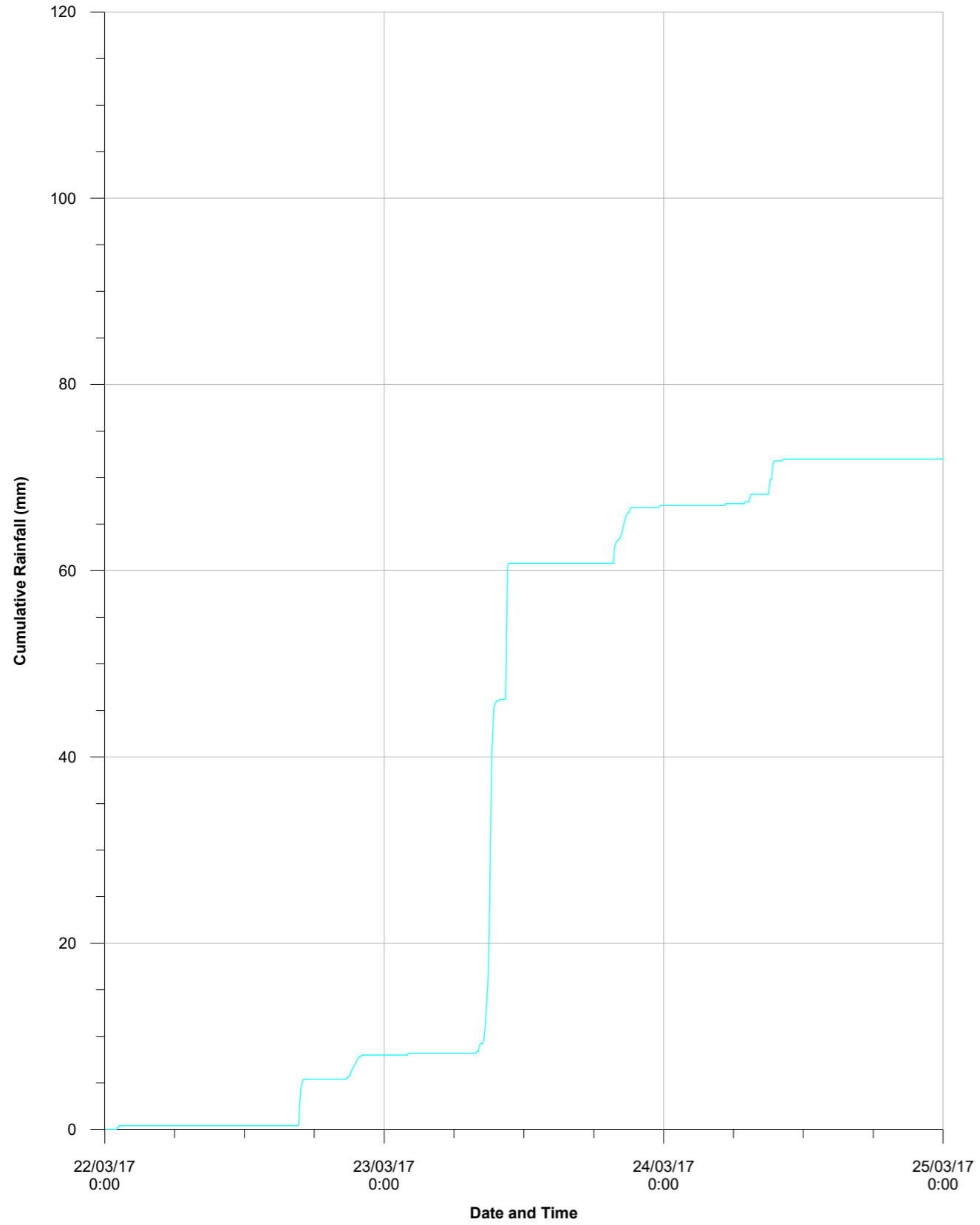
Figure 2.3

INTENSITY-FREQUENCY-DURATION CURVES  
AND HISTORIC RAINFALL

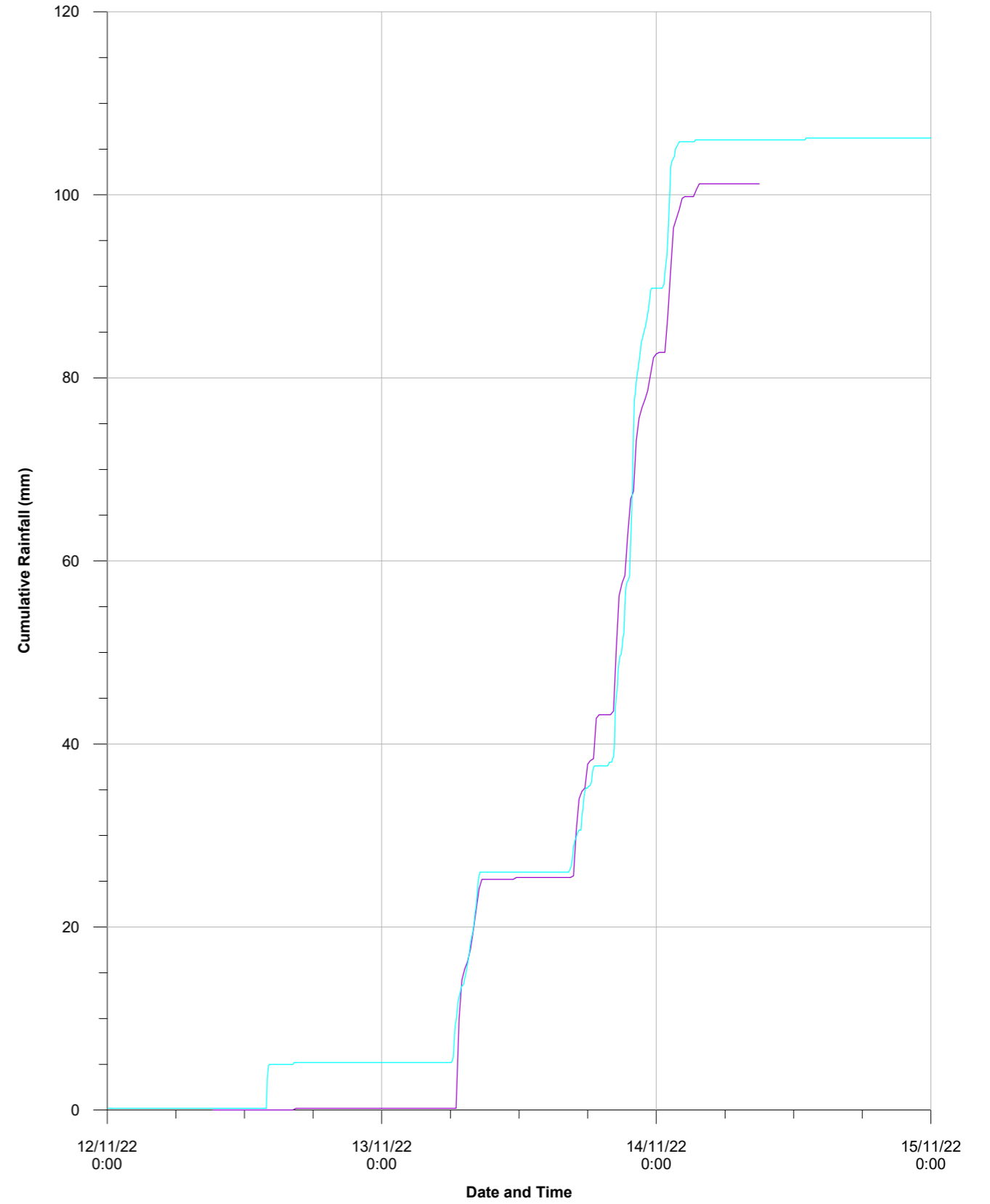




MARCH 2017 STORM EVENT



NOVEMBER 2022 STORM EVENT



LEGEND

- Parkes Airport AWS (GS 65068)
- Mandagery (Rawene) (GS 65096)

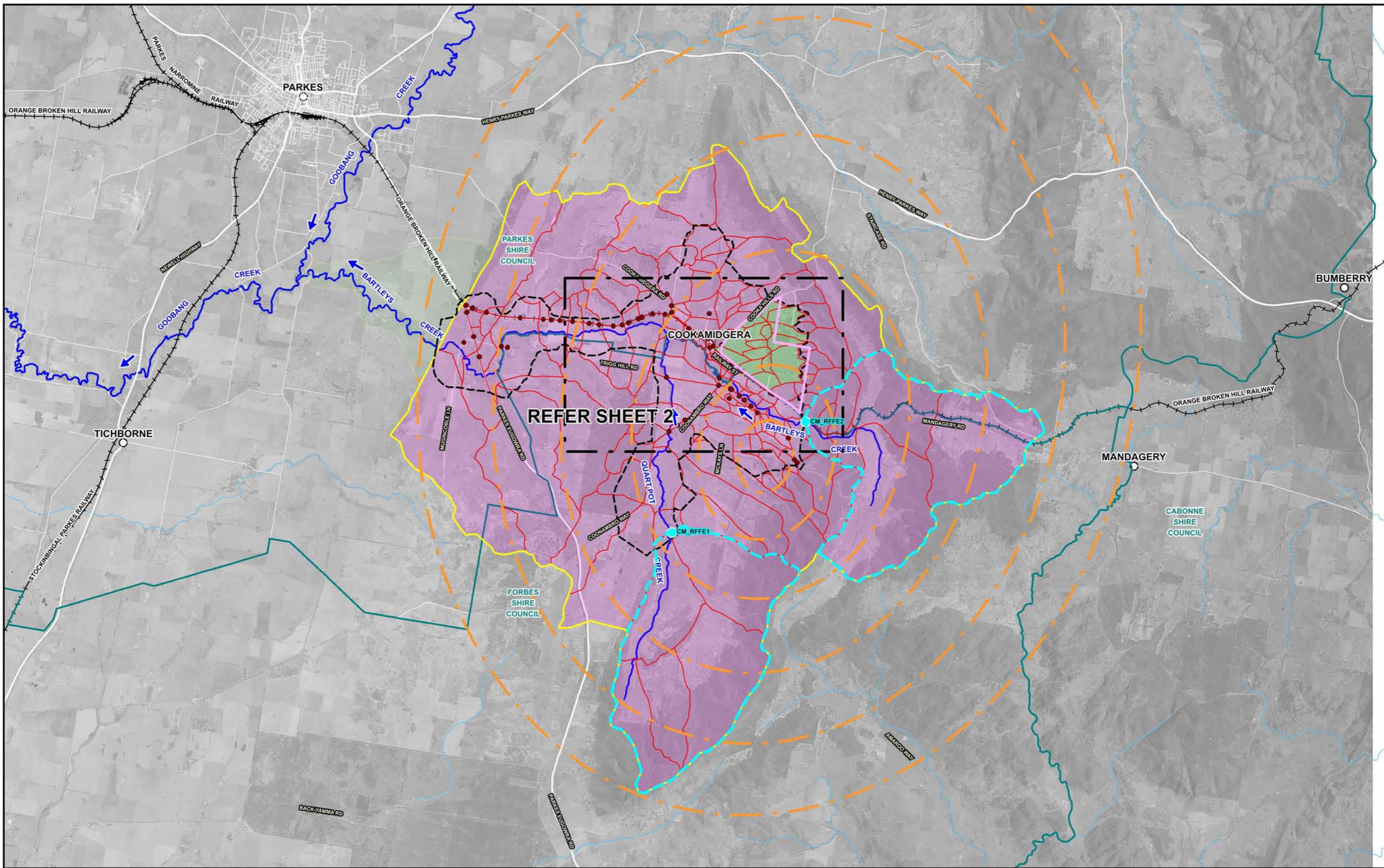
COOKAMIDGERA FLOOD STUDY

Figure 2.4

CUMULATIVE RAINFALL  
HISTORIC STORM EVENTS







N

Scale: 1:100,000

**LEGEND**

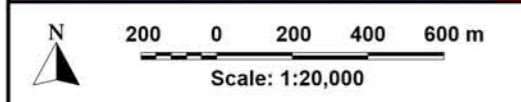
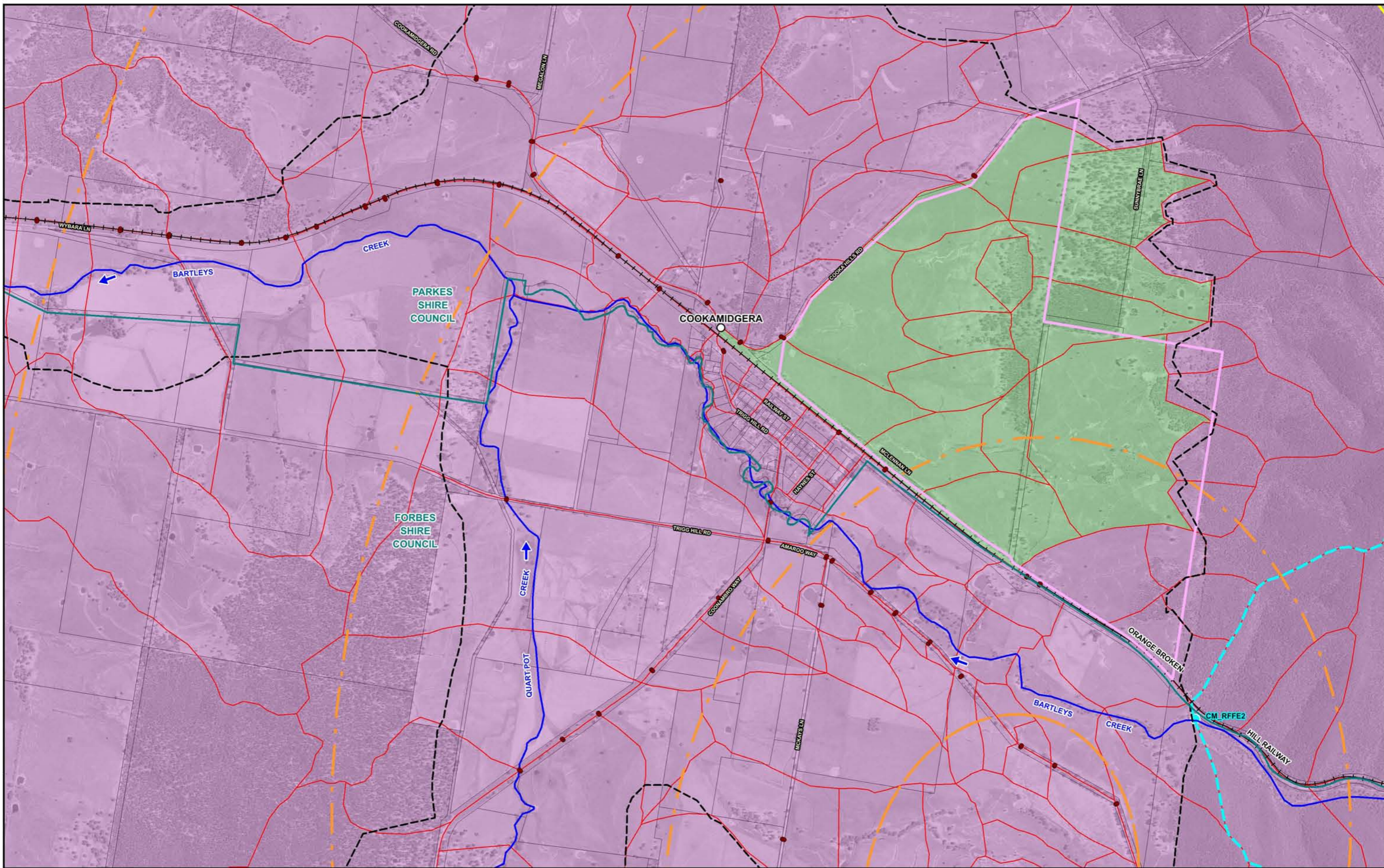
- LGA Boundary
- Study Catchment
- RAFTS Modelled Sub-Catchment
- TUFLOW Modelled Sub-Catchment
- - - PMP Ellipses
- Modelled Stormwater Drainage System
- - - Two-Dimensional Model Boundary
- CM\_RFFE1 Peak Flow Comparison Catchment and Identifier
- Extent of The Cookamidgera Project

**COOKAMIDGERA FLOOD STUDY**

Figure 3.1  
(Sheet 1 of 2)

**COOKAMIDGERA DRAINS MODEL LAYOUT**





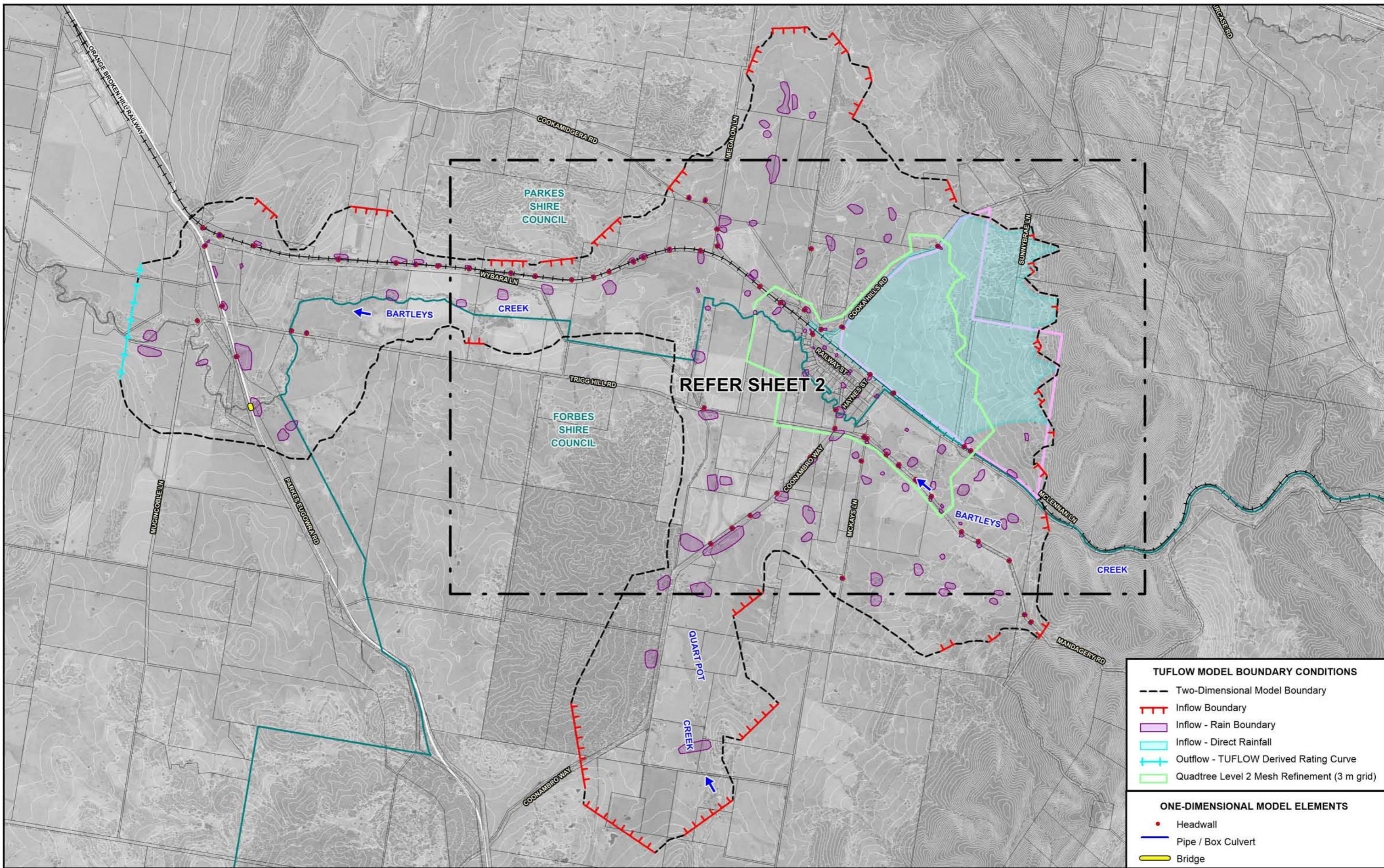
**LEGEND**

- LGA Boundary
- Study Catchment
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**COOKAMIDGERA FLOOD STUDY**

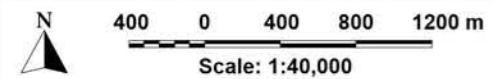
Figure 3.1  
(Sheet 2 of 2)





TUFLOW MODEL BOUNDARY CONDITIONS	
---	Two-Dimensional Model Boundary
▬▬▬	Inflow Boundary
■	Inflow - Rain Boundary
▬	Inflow - Direct Rainfall
▬+	Outflow - TUFLOW Derived Rating Curve
▬	Quadtree Level 2 Mesh Refinement (3 m grid)
ONE-DIMENSIONAL MODEL ELEMENTS	
●	Headwall
▬	Pipe / Box Culvert
▬	Bridge

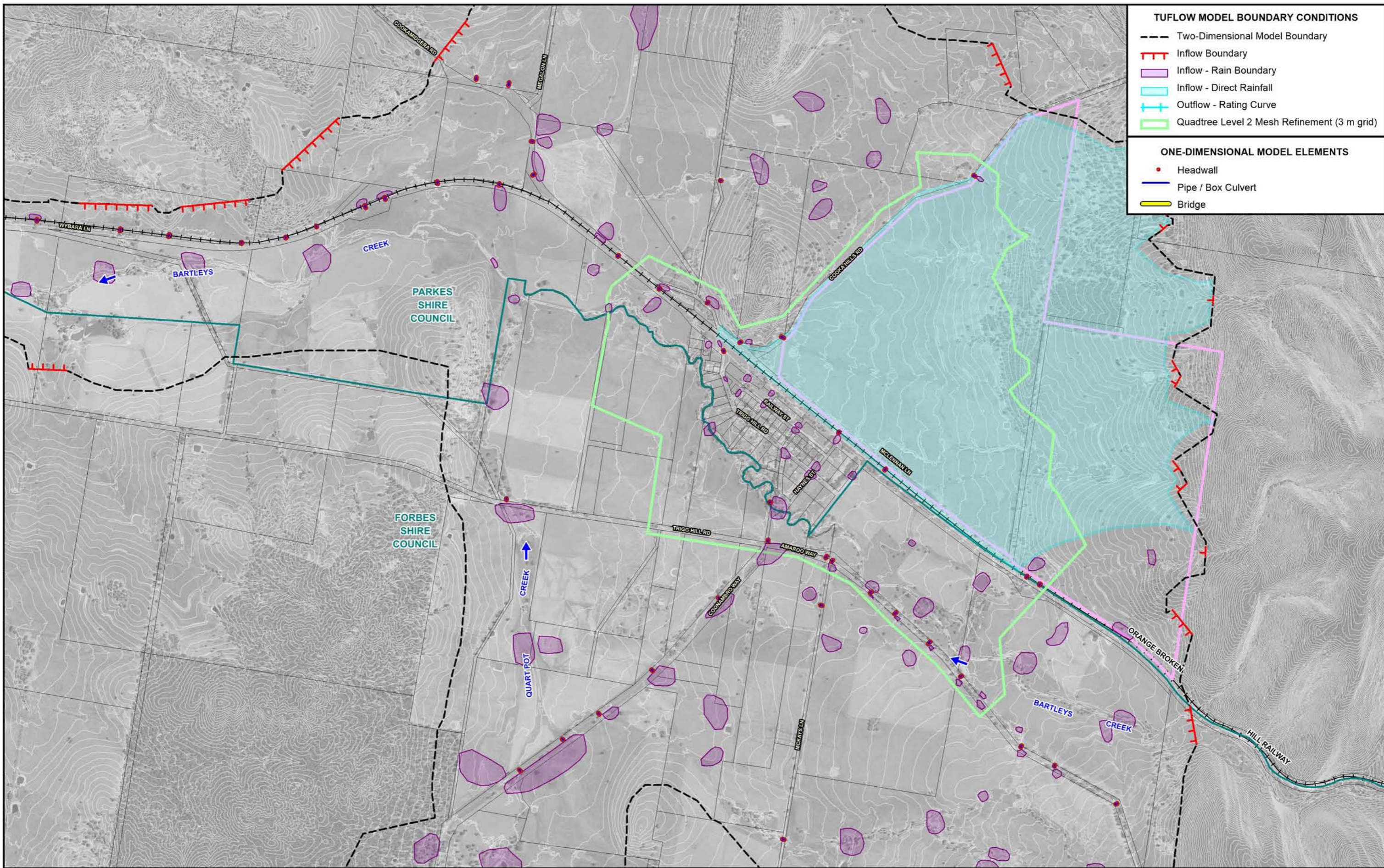
LEGEND	
▬	LGA Boundary
▬	Extent of The Cookamidgera Project



**COOKAMIDGERA FLOOD STUDY**

Figure 4.1  
(Sheet 1 of 2)





**TUFLOW MODEL BOUNDARY CONDITIONS**

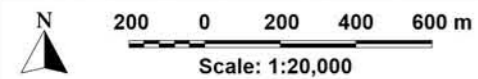
- Two-Dimensional Model Boundary
- ▬ Inflow Boundary
- ▭ Inflow - Rain Boundary
- ▭ Inflow - Direct Rainfall
- ▬ Outflow - Rating Curve
- ▭ Quadtree Level 2 Mesh Refinement (3 m grid)

**ONE-DIMENSIONAL MODEL ELEMENTS**

- Headwall
- ▬ Pipe / Box Culvert
- ▬ Bridge

**LEGEND**

- ▬ LGA Boundary
- ▭ Extent of The Cookamidgera Project

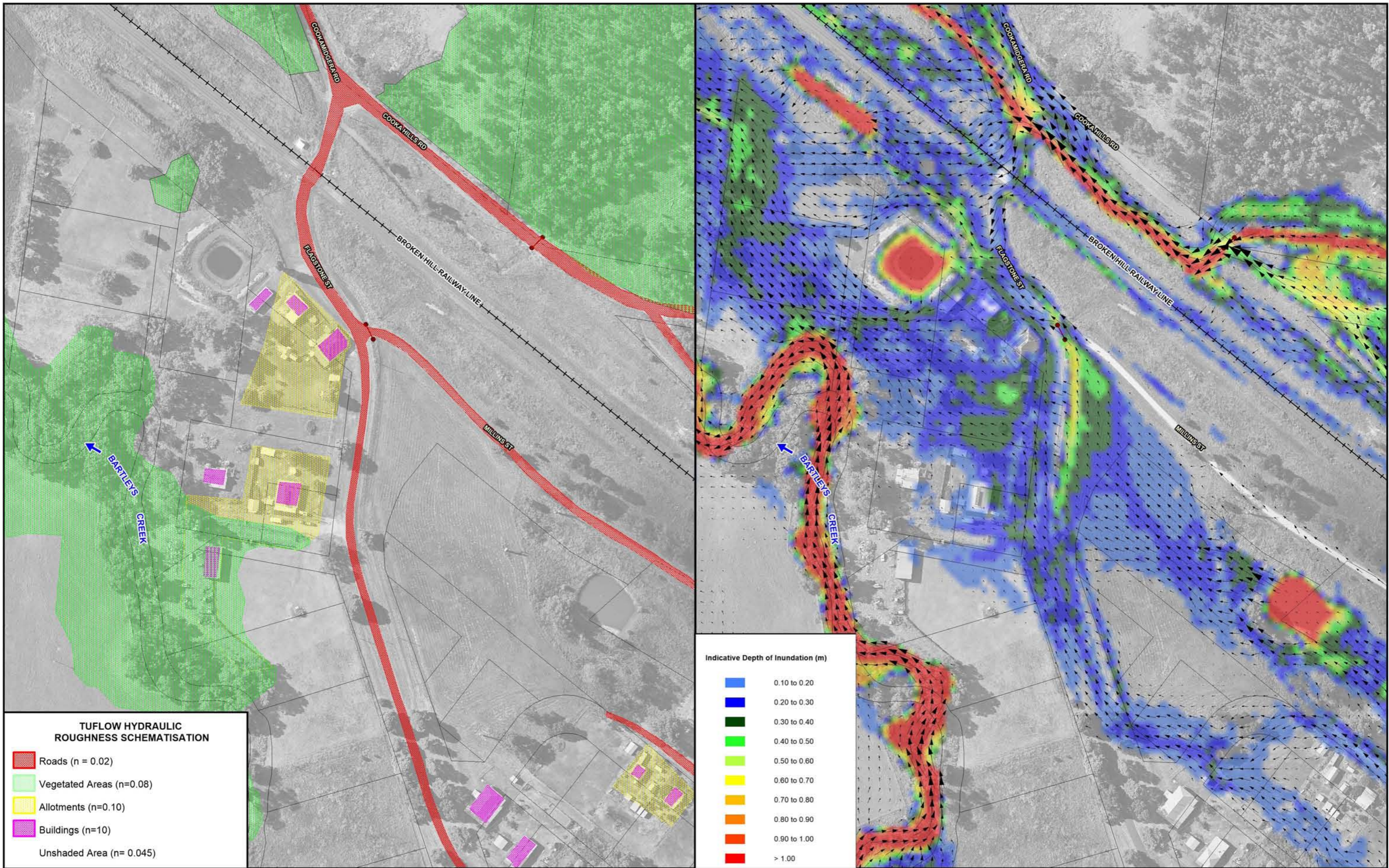


**COOKAMIDGERA FLOOD STUDY**



Figure 4.1  
(Sheet 2 of 2)





**TUFLOW HYDRAULIC ROUGHNESS SCHEMATISATION**

- Roads (n = 0.02)
- Vegetated Areas (n=0.08)
- Allotments (n=0.10)
- Buildings (n=10)
- Unshaded Area (n= 0.045)

**Indicative Depth of Inundation (m)**

- 0.10 to 0.20
- 0.20 to 0.30
- 0.30 to 0.40
- 0.40 to 0.50
- 0.50 to 0.60
- 0.60 to 0.70
- 0.70 to 0.80
- 0.80 to 0.90
- 0.90 to 1.00
- > 1.00

20 0 20 40 60 m  
 Scale: 1:2,000

**NOTE:**  
 The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area

**LEGEND**

- Modelled Stormwater Drainage System

**COOKAMIDGERA FLOOD STUDY**

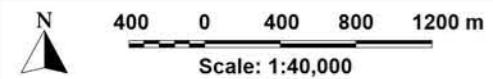




Indicative Depth of Inundation (m)

Blue	0.10 to 0.20
Dark Blue	0.20 to 0.30
Green	0.30 to 0.40
Light Green	0.40 to 0.50
Yellow	0.50 to 0.60
Orange	0.60 to 0.70
Red-Orange	0.70 to 0.80
Red	0.80 to 0.90
Dark Red	0.90 to 1.00
Red	> 1.00

REFER SHEET 2



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

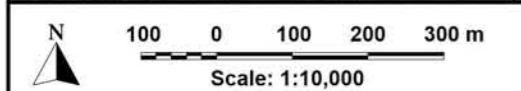
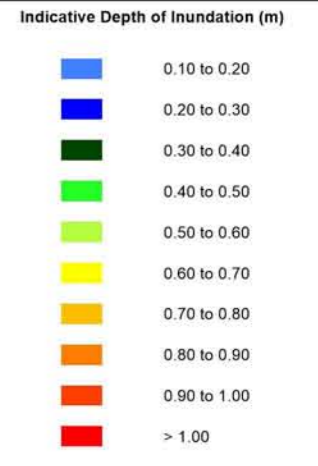
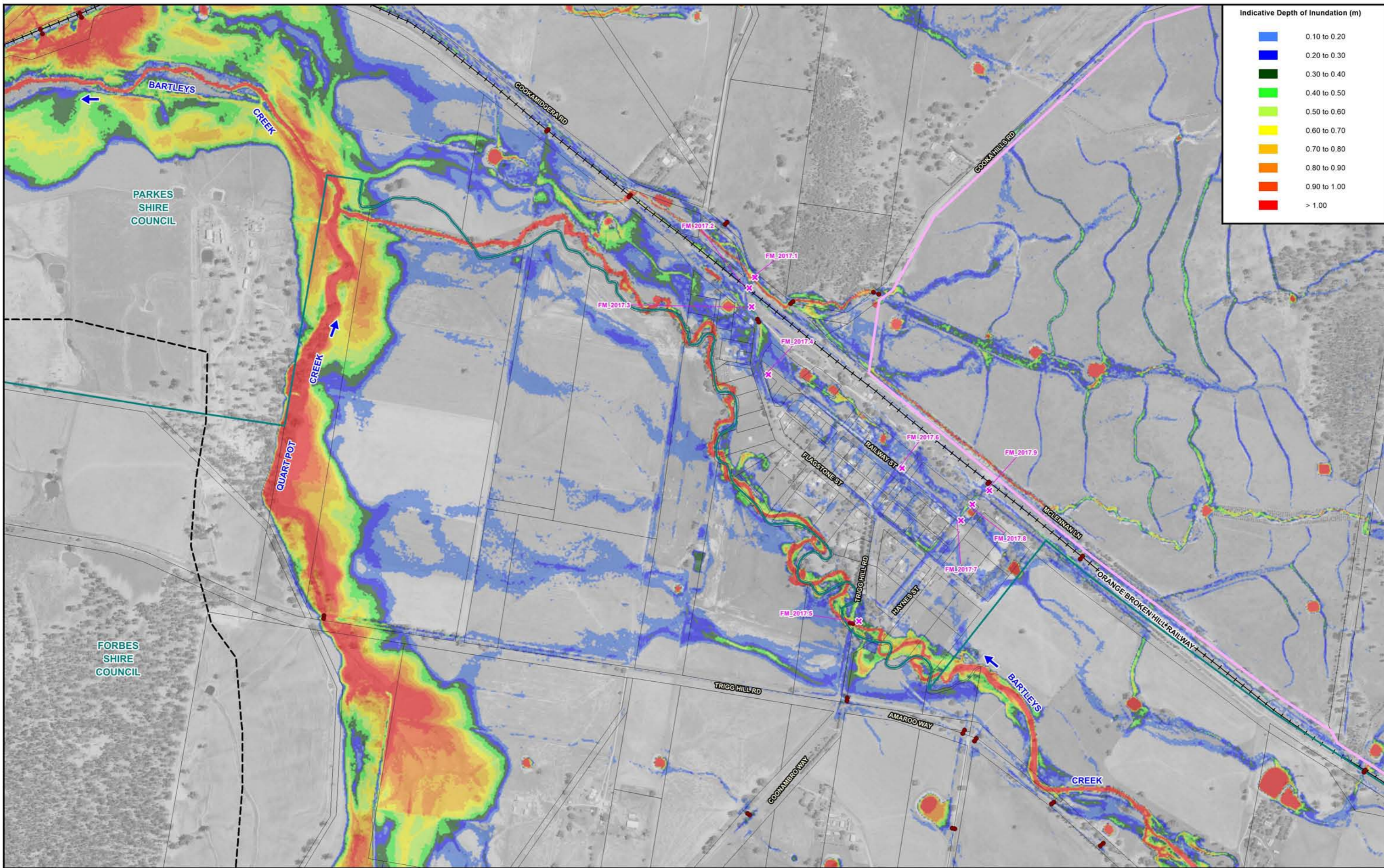
Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.

The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project

× Location of Observed Flood Behaviour and Identifier





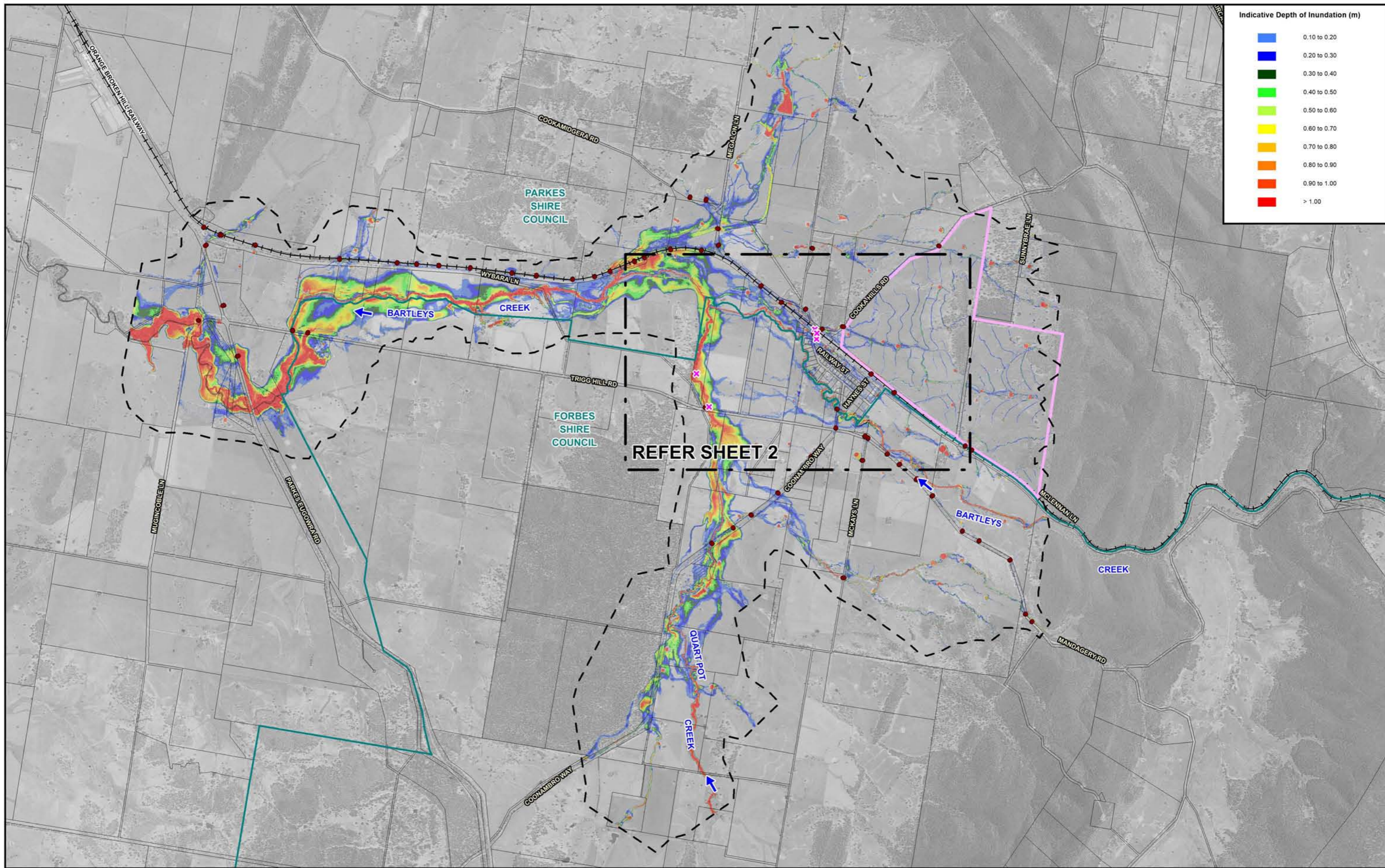
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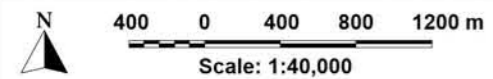
- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - x Location of Observed Flood Behaviour and Identifier





Indicative Depth of Inundation (m)

0.10 to 0.20
0.20 to 0.30
0.30 to 0.40
0.40 to 0.50
0.50 to 0.60
0.60 to 0.70
0.70 to 0.80
0.80 to 0.90
0.90 to 1.00
> 1.00



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

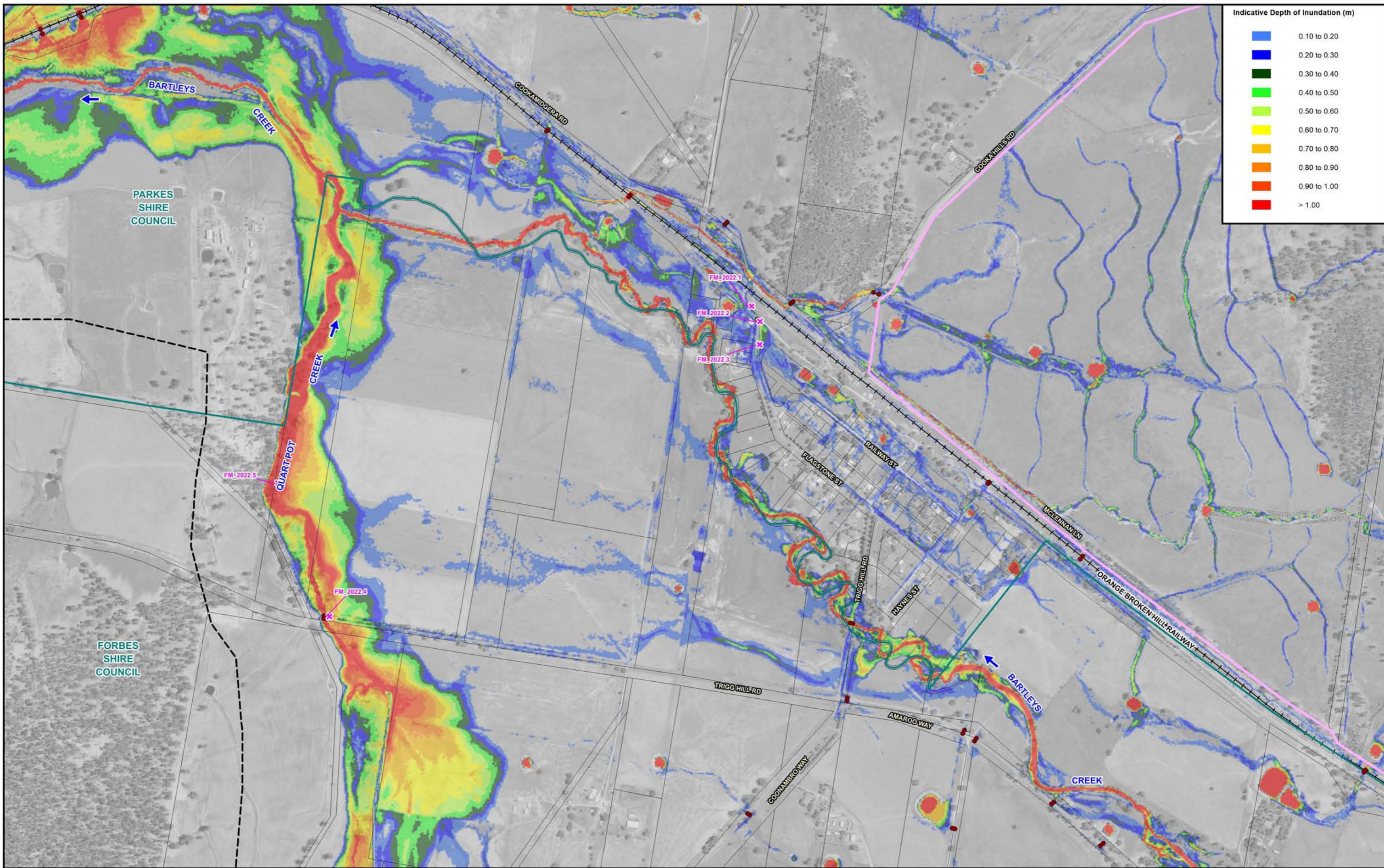
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project

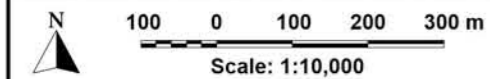
x Location of Observed Flood Behaviour and Identifier





Indicative Depth of Inundation (m)

0.10 to 0.20
0.20 to 0.30
0.30 to 0.40
0.40 to 0.50
0.50 to 0.60
0.60 to 0.70
0.70 to 0.80
0.80 to 0.90
0.90 to 1.00
> 1.00



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

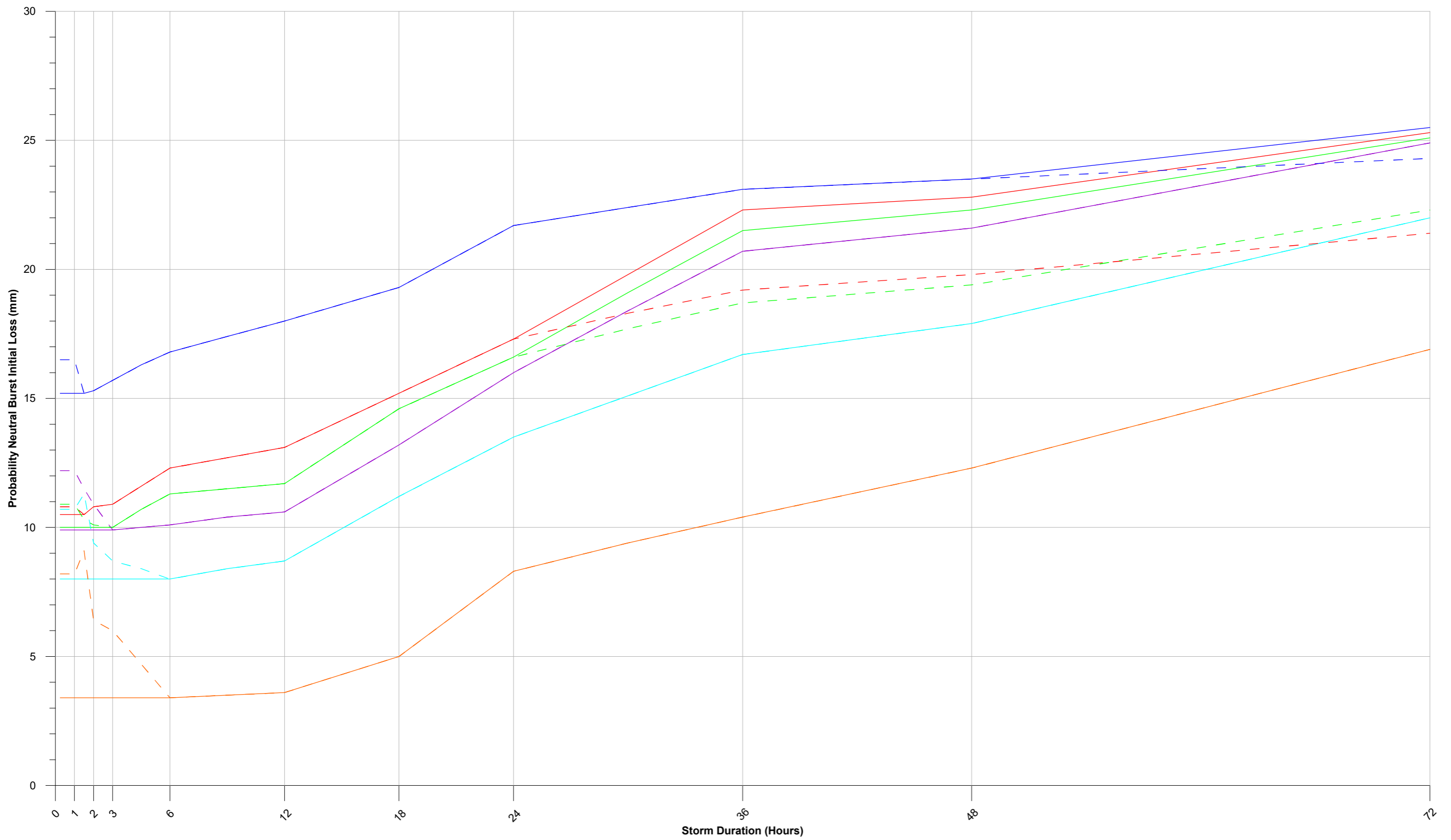
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - x Location of Observed Flood Behaviour and Identifier

**COOKAMIDGERA FLOOD STUDY**





**LEGEND**

	Raw (Unadjusted) ARR Data Hub Loss Values	Adjusted ARR Data Hub Loss Values
50% AEP		
20% AEP		
10% AEP		
5% AEP		
2% AEP		
1% AEP		

**COOKAMIDGERA FLOOD STUDY**

Figure 5.1

ADJUSTED PROBABILITY NEUTRAL BURST INITIAL LOSS VALUES

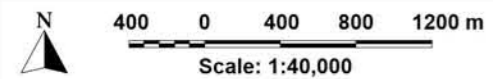






Indicative Depth of Inundation (m)

Blue	0.10 to 0.20
Dark Blue	0.20 to 0.30
Green	0.30 to 0.40
Light Green	0.40 to 0.50
Yellow	0.50 to 0.60
Orange	0.60 to 0.70
Red-Orange	0.70 to 0.80
Red	0.80 to 0.90
Dark Red	0.90 to 1.00
Red	> 1.00



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.

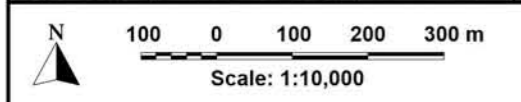
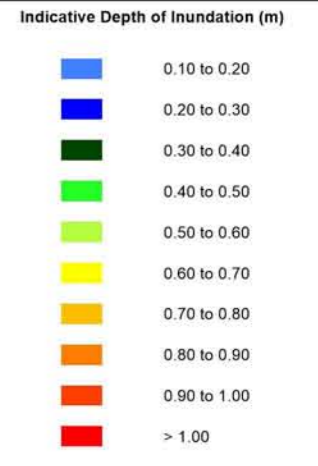
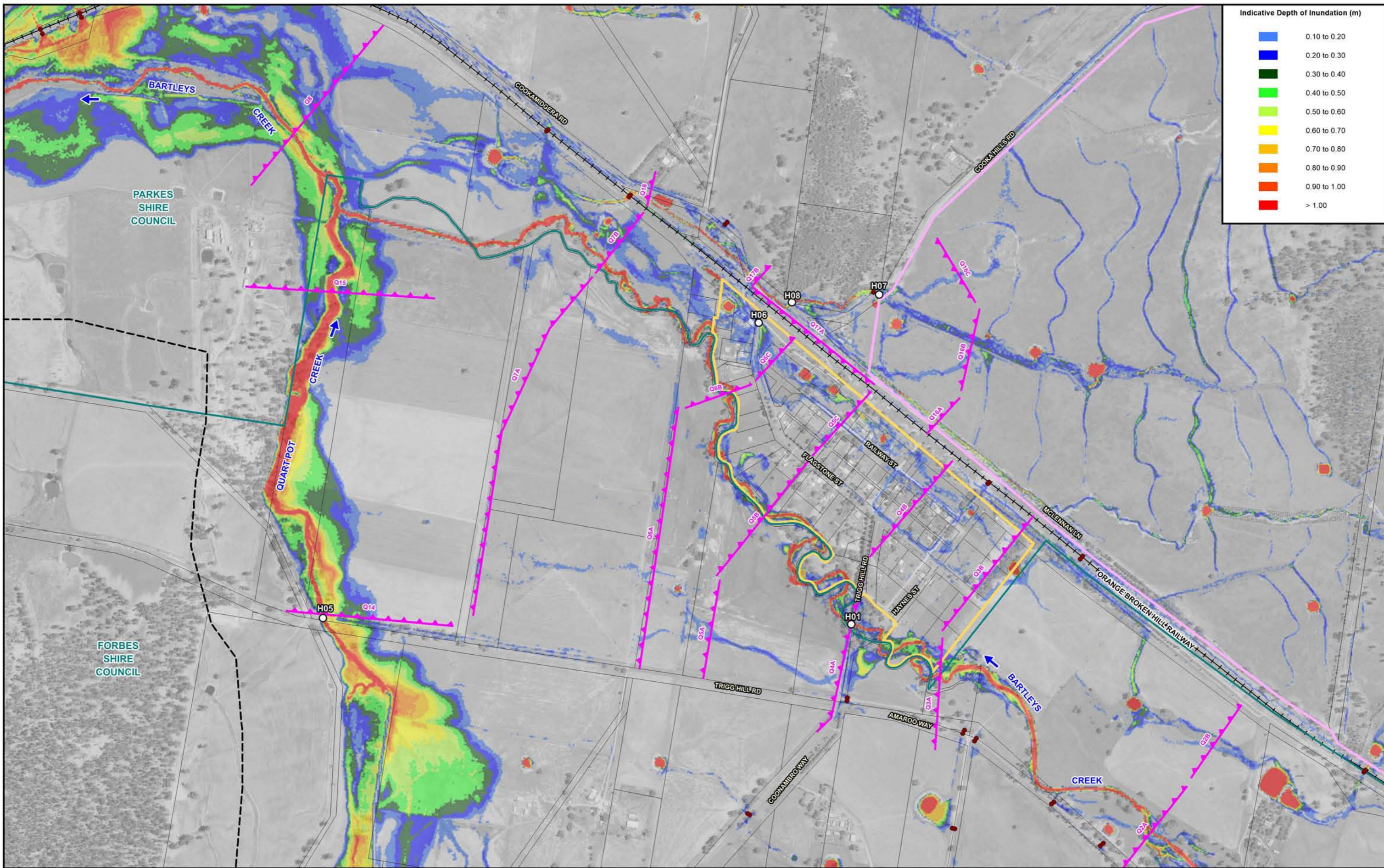
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- Q01  Peak Flow Location and Identifier
- H00 Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**



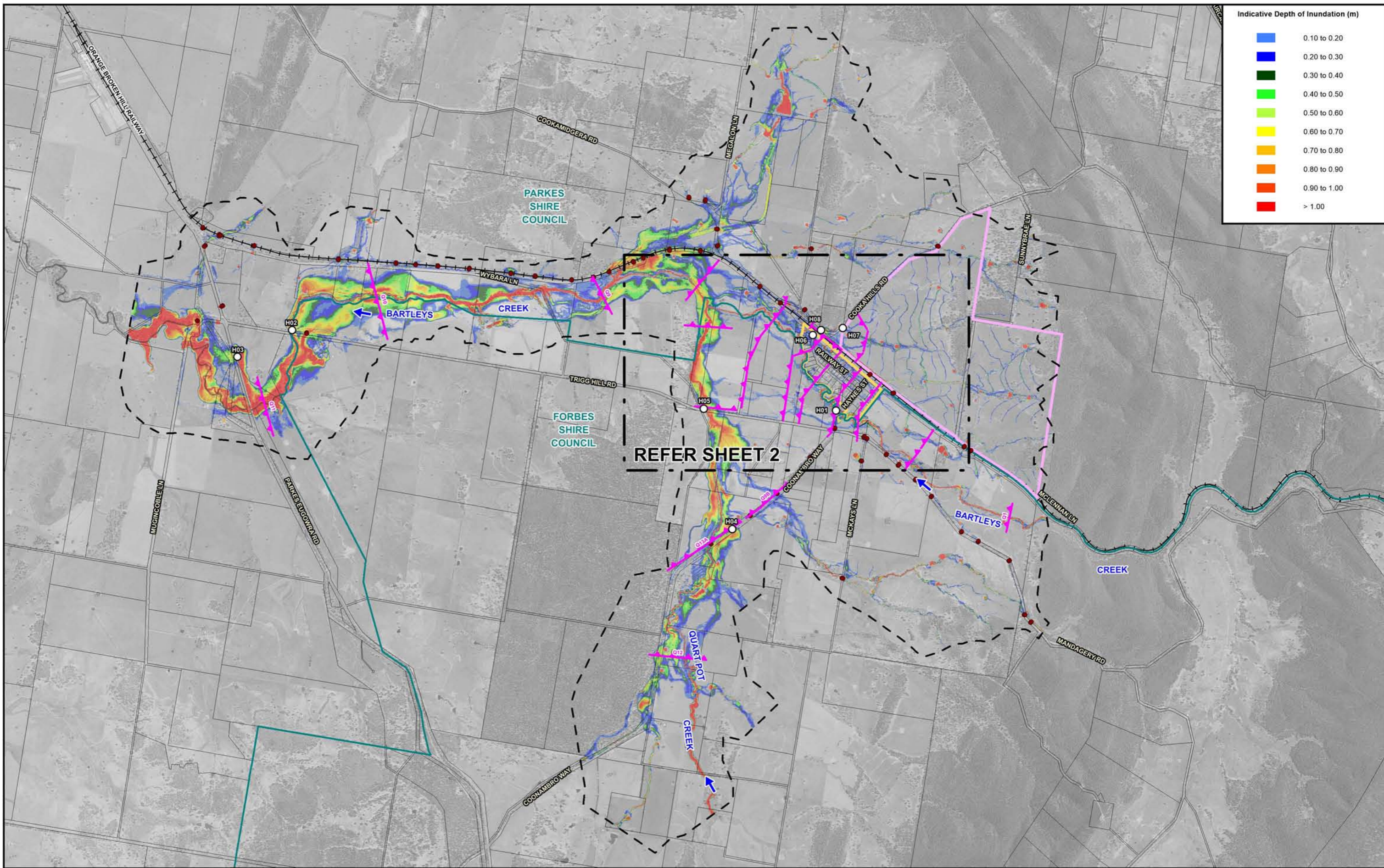


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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

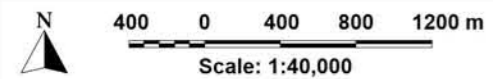
- ▲— Q01 Peak Flow Location and Identifier
- H01 ○ Peak Flood Level Location and Identifier





Indicative Depth of Inundation (m)

Blue	0.10 to 0.20
Dark Blue	0.20 to 0.30
Green	0.30 to 0.40
Light Green	0.40 to 0.50
Yellow	0.50 to 0.60
Orange	0.60 to 0.70
Red-Orange	0.70 to 0.80
Red	0.80 to 0.90
Dark Red	0.90 to 1.00
Red	> 1.00



**NOTE:**  
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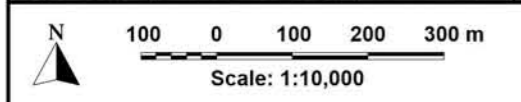
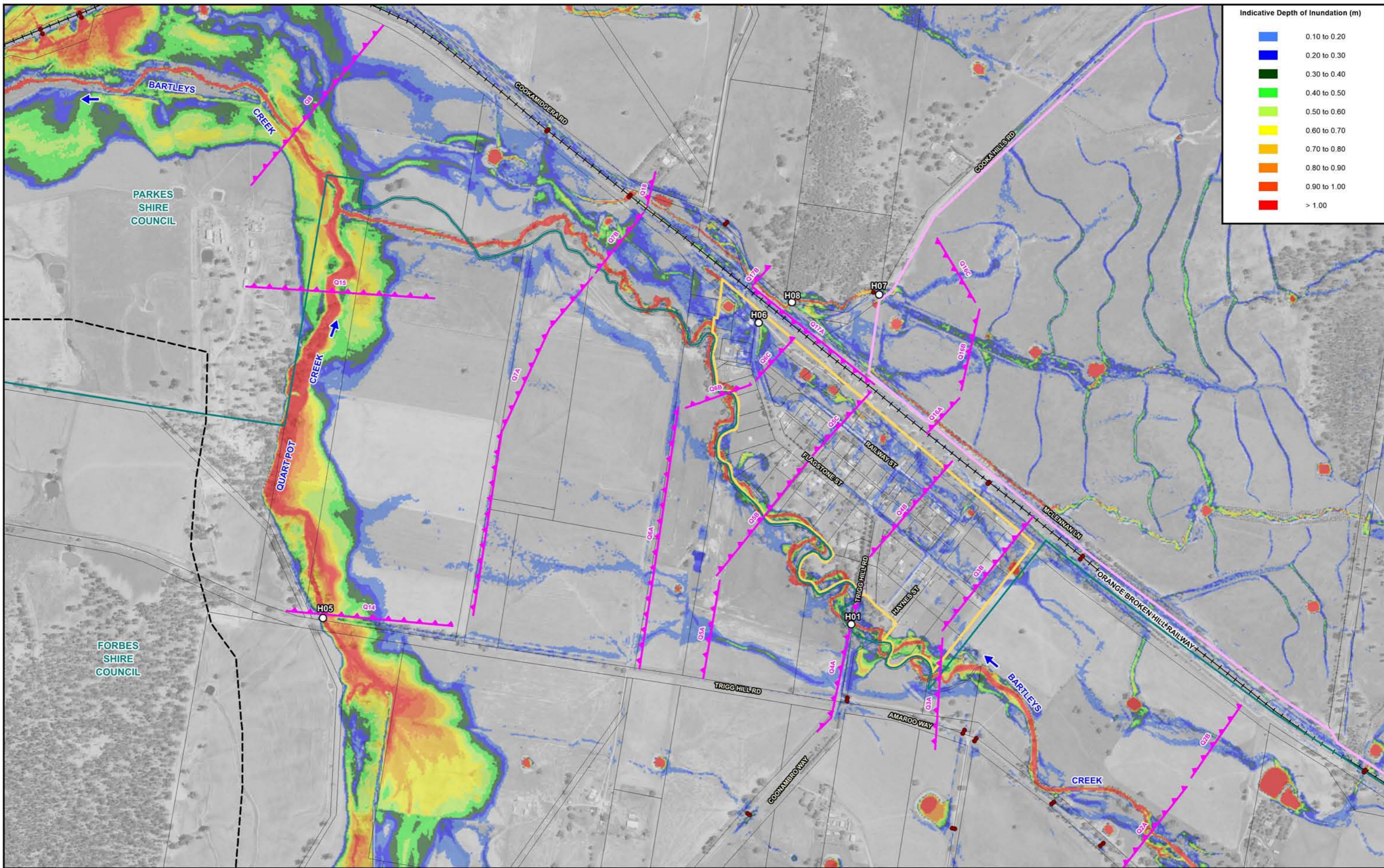
**LEGEND**

- LGA Boundary
- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System
- Extent of The Cookamidgera Project
- Village Centre

- Peak Flow Location and Identifier
- Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**



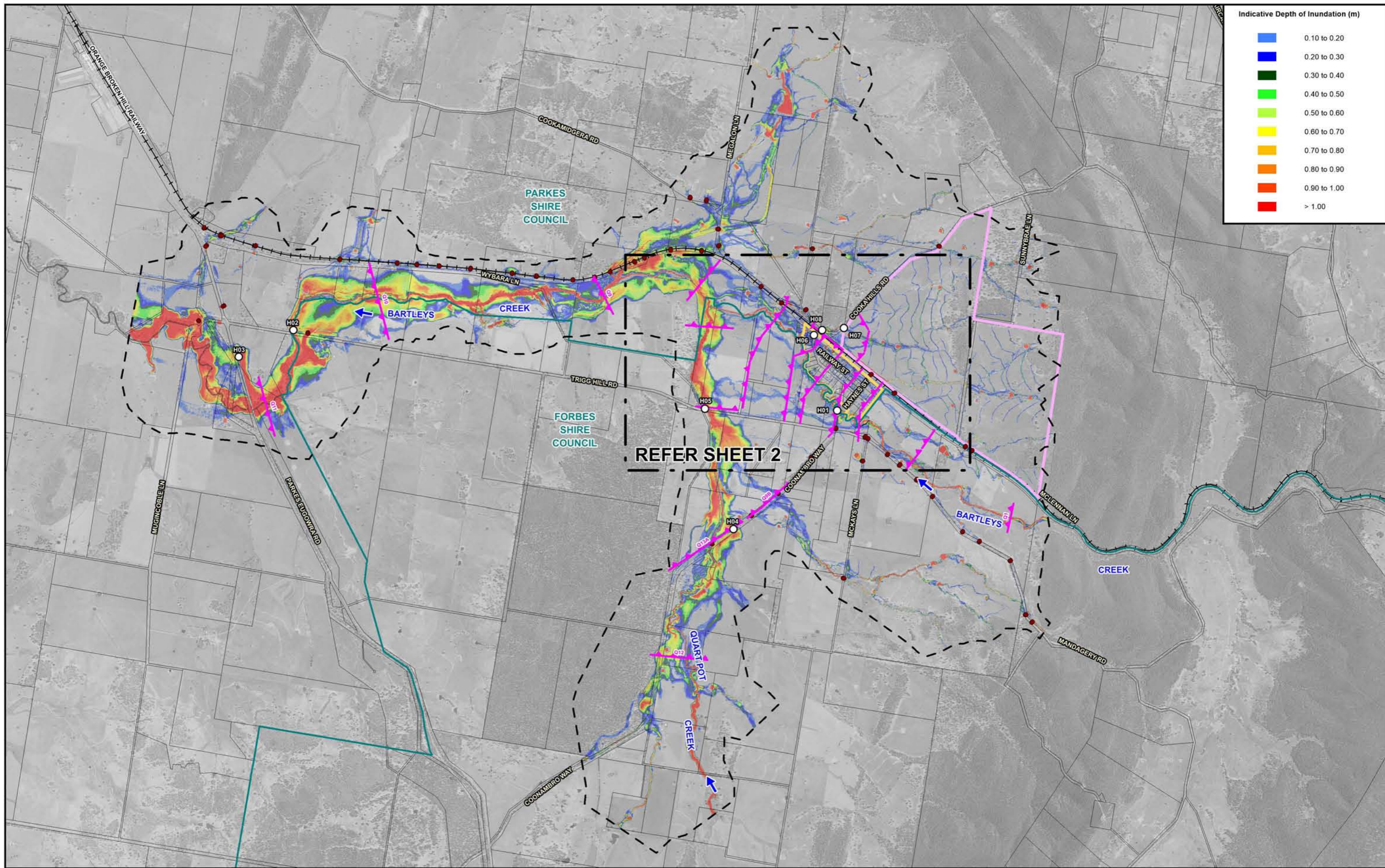


**NOTE:**  
 The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.  
 Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.  
 The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

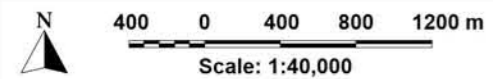
- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- ▲— Q01 Peak Flow Location and Identifier
- H01 ○ Peak Flood Level Location and Identifier





Indicative Depth of Inundation (m)	
Light Blue	0.10 to 0.20
Blue	0.20 to 0.30
Dark Blue	0.30 to 0.40
Green	0.40 to 0.50
Light Green	0.50 to 0.60
Yellow	0.60 to 0.70
Orange	0.70 to 0.80
Red-Orange	0.80 to 0.90
Red	0.90 to 1.00
Dark Red	> 1.00



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.

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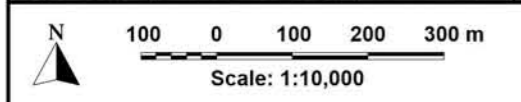
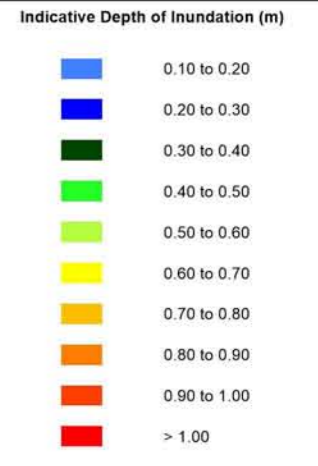
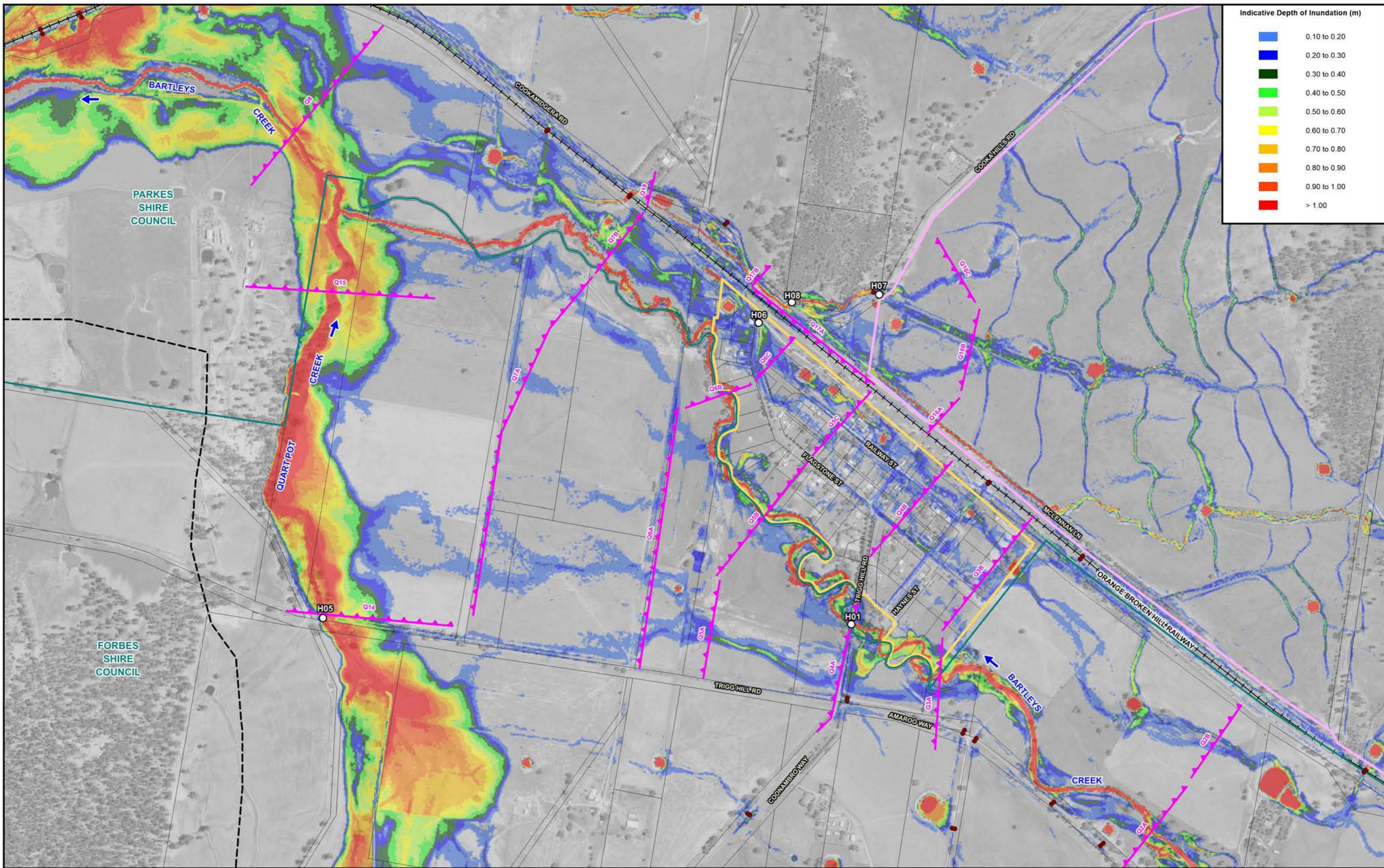
**LEGEND**

- LGA Boundary
- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System
- Extent of The Cookamidgera Project
- Village Centre

- Q01 Peak Flow Location and Identifier
- H01 ○ Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**





**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.

The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

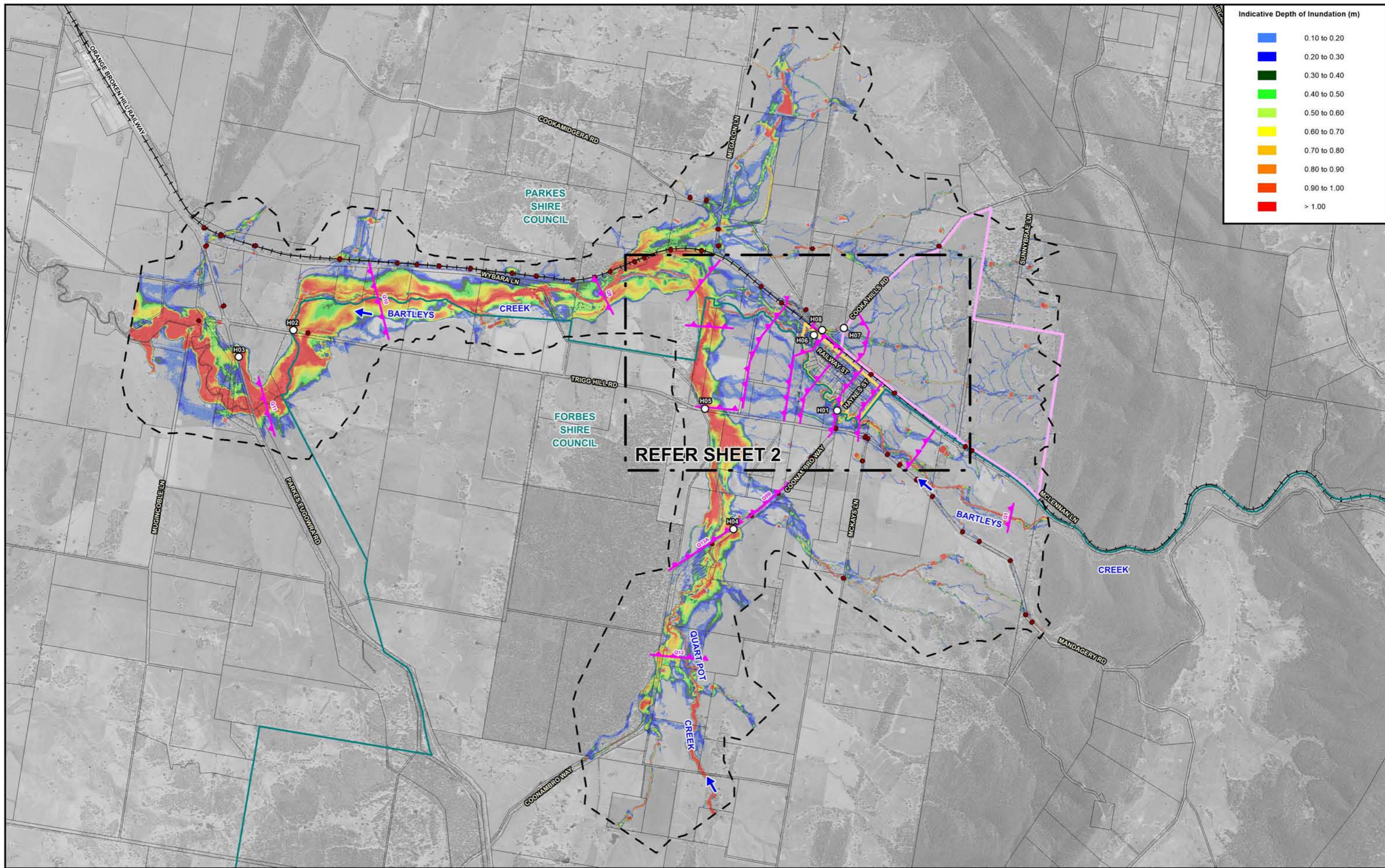
- ▲— Q01 Peak Flow Location and Identifier
- H01 ○ Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**

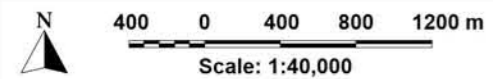


Figure 6.3  
(Sheet 2 of 2)  
TUFLOW MODEL RESULTS  
5% AEP





Indicative Depth of Inundation (m)	
Light Blue	0.10 to 0.20
Blue	0.20 to 0.30
Dark Blue	0.30 to 0.40
Green	0.40 to 0.50
Light Green	0.50 to 0.60
Yellow	0.60 to 0.70
Orange	0.70 to 0.80
Dark Orange	0.80 to 0.90
Red-Orange	0.90 to 1.00
Red	> 1.00



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.

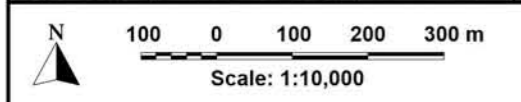
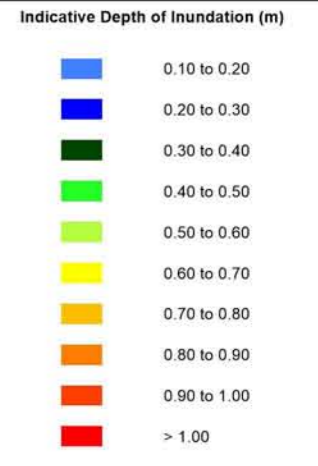
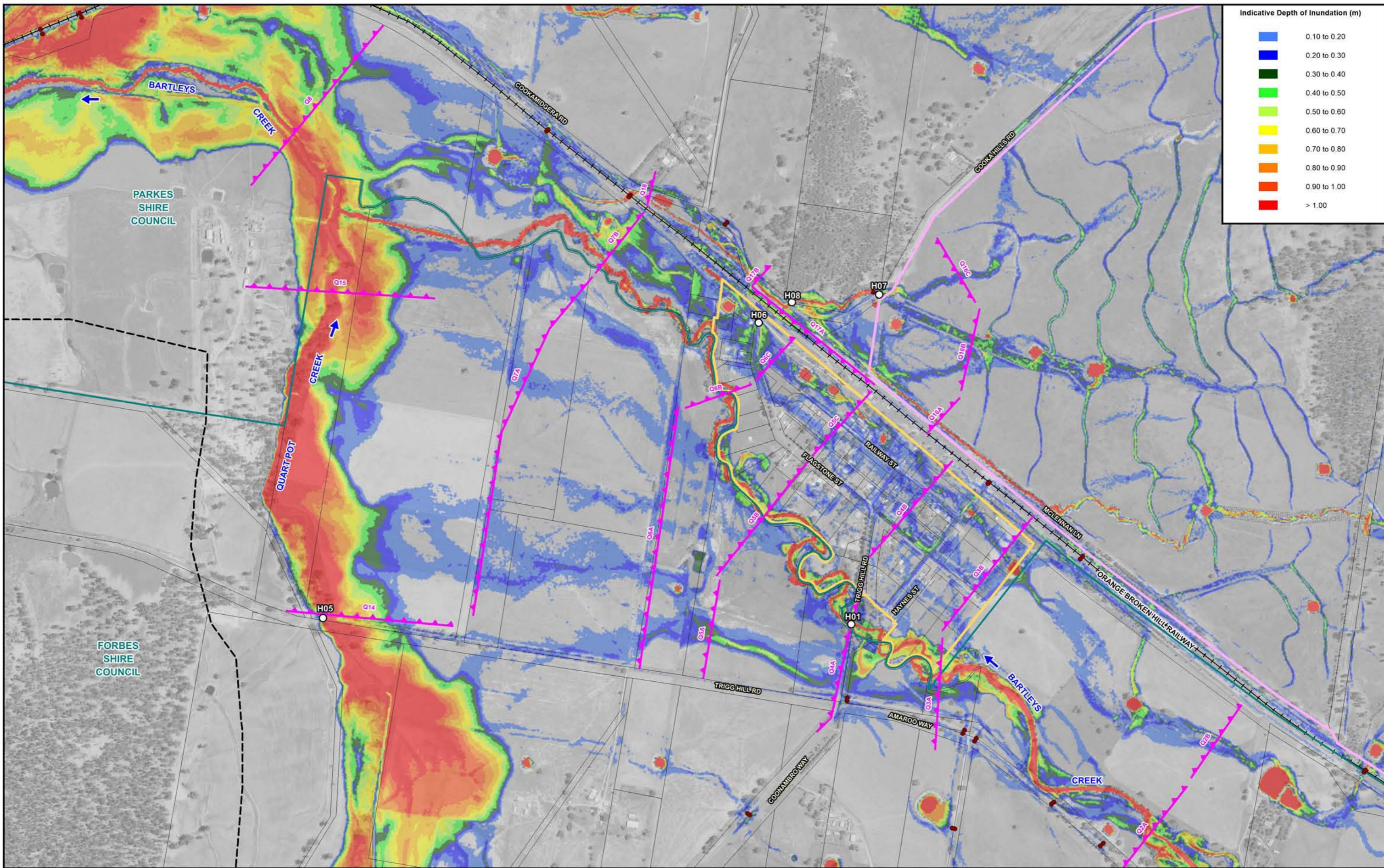
The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- Q01  Peak Flow Location and Identifier
- H00 Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**



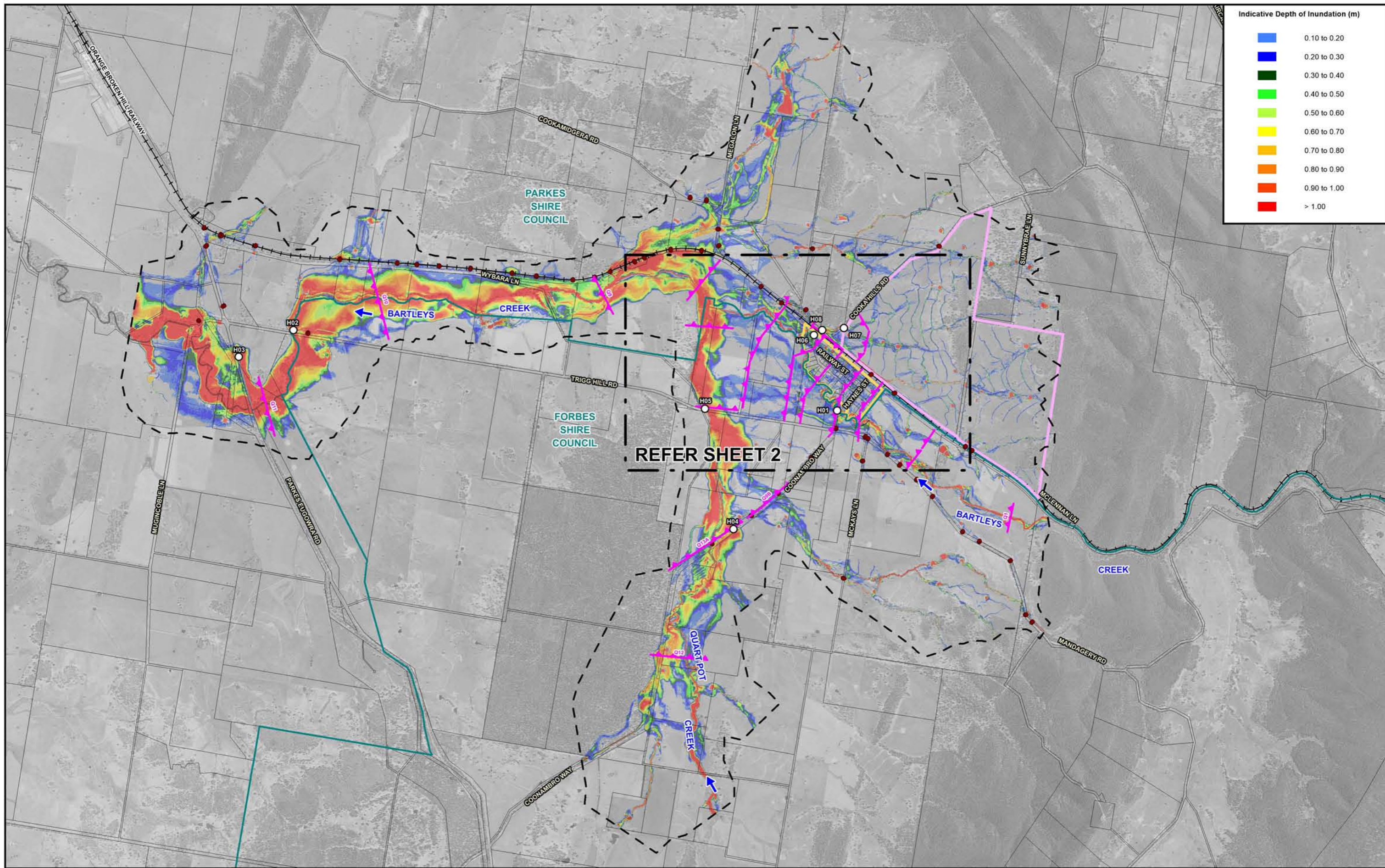


**NOTE:**  
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 Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.  
 The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - ▲— Extent of The Cookamidgera Project
  - Village Centre

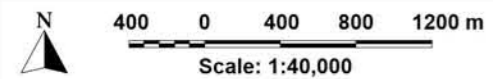
- ▲ Q01 Peak Flow Location and Identifier
- H01 ○ Peak Flood Level Location and Identifier





Indicative Depth of Inundation (m)

Blue	0.10 to 0.20
Dark Blue	0.20 to 0.30
Green	0.30 to 0.40
Light Green	0.40 to 0.50
Yellow	0.50 to 0.60
Orange	0.60 to 0.70
Red-Orange	0.70 to 0.80
Red	0.80 to 0.90
Dark Red	0.90 to 1.00
Red	> 1.00



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.

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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

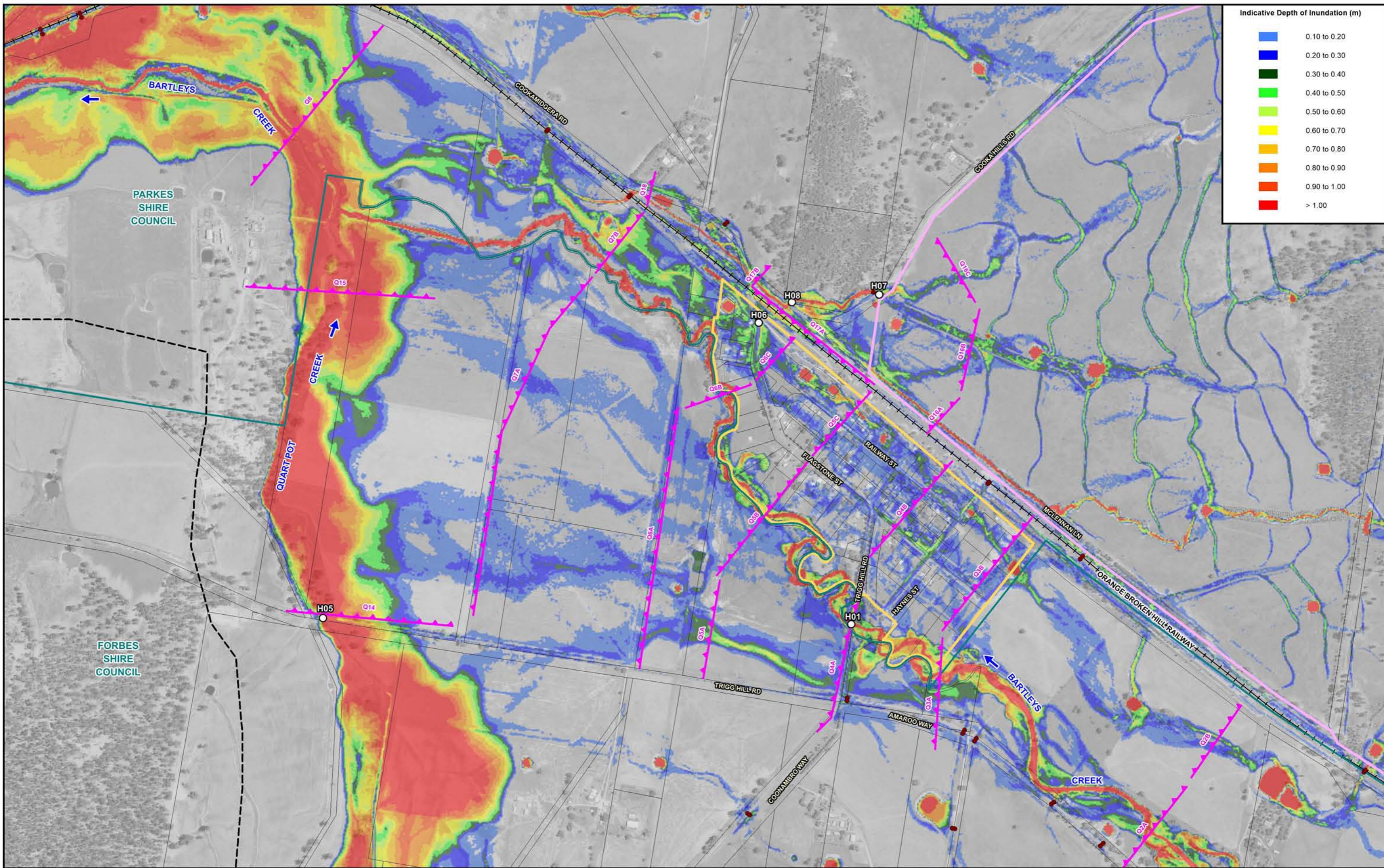
- Q01 Peak Flow Location and Identifier
- H01 ○ Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**



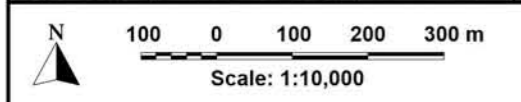
Figure 6.5  
(Sheet 1 of 2)  
TUFLOW MODEL RESULTS  
1% AEP





Indicative Depth of Inundation (m)

0.10 to 0.20
0.20 to 0.30
0.30 to 0.40
0.40 to 0.50
0.50 to 0.60
0.60 to 0.70
0.70 to 0.80
0.80 to 0.90
0.90 to 1.00
> 1.00



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.

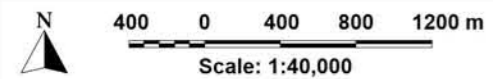
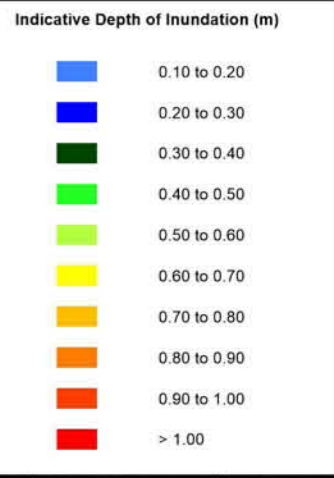
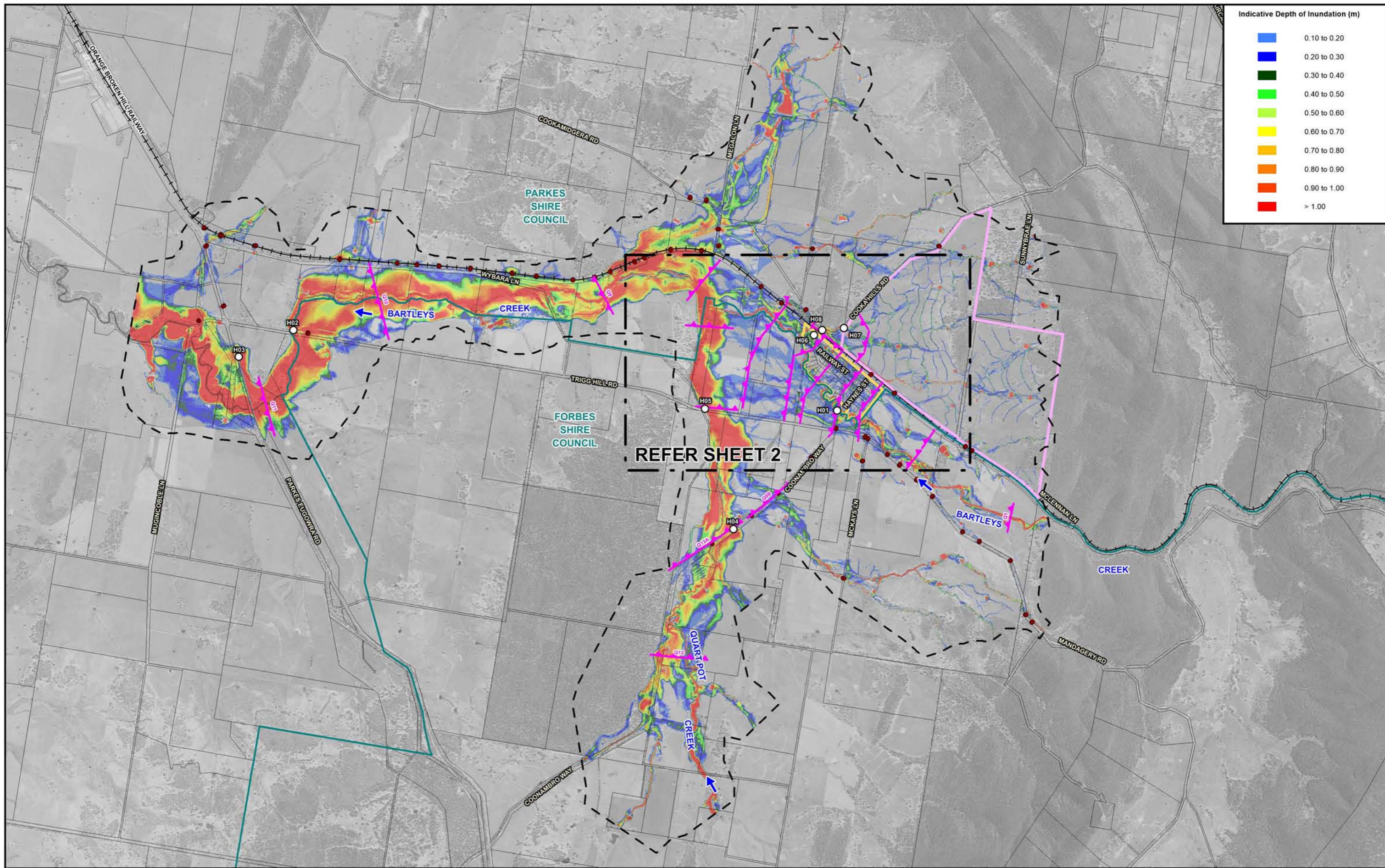
The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- ▲ Q01 Peak Flow Location and Identifier
- H01 ○ Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**





**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

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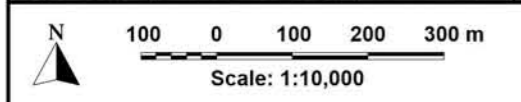
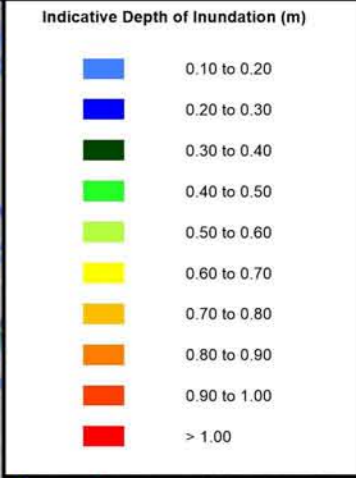
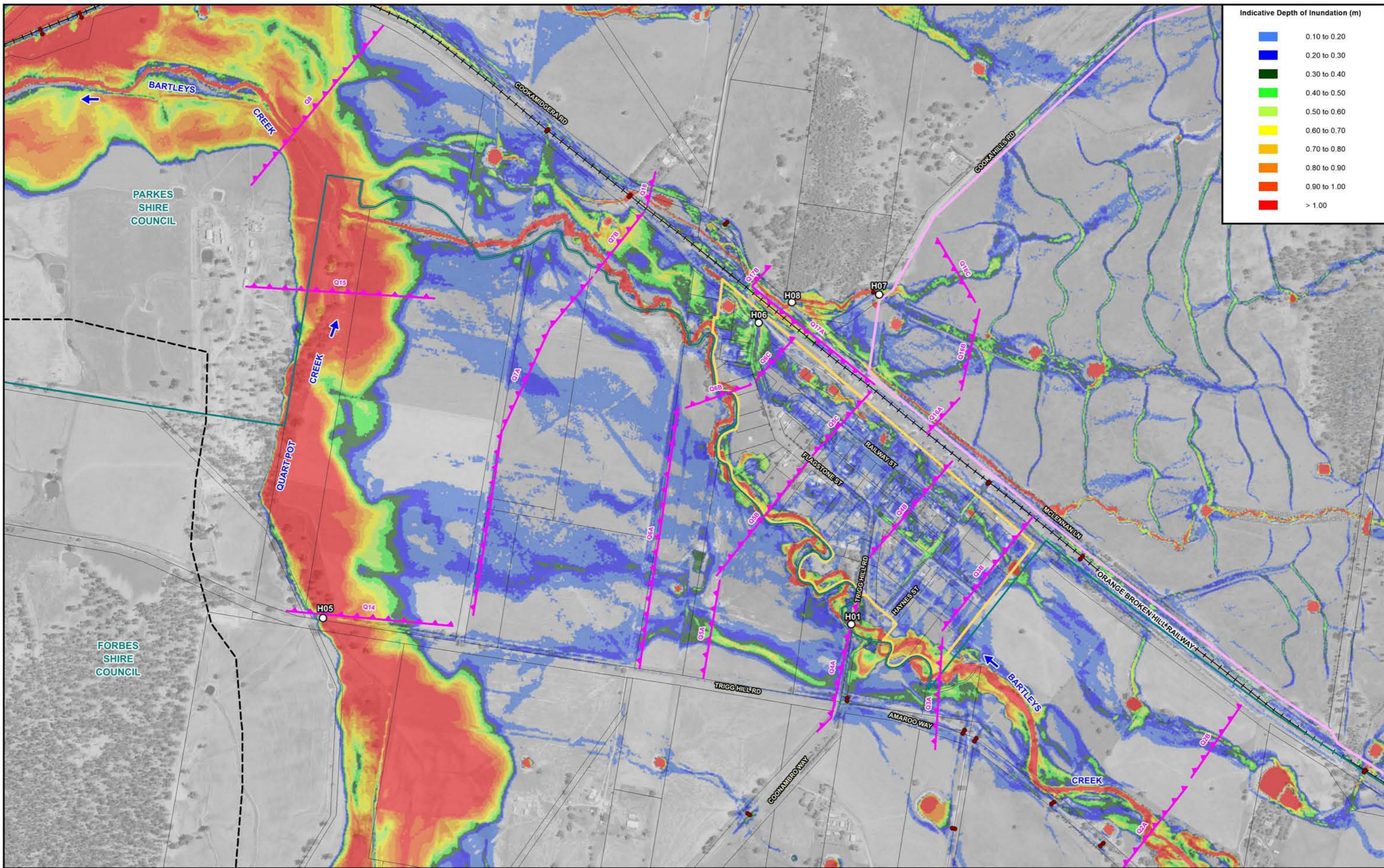
The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- ▲— Q01 Peak Flow Location and Identifier
- H00 Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**





**NOTE:**  
 The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.  
 Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.  
 The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

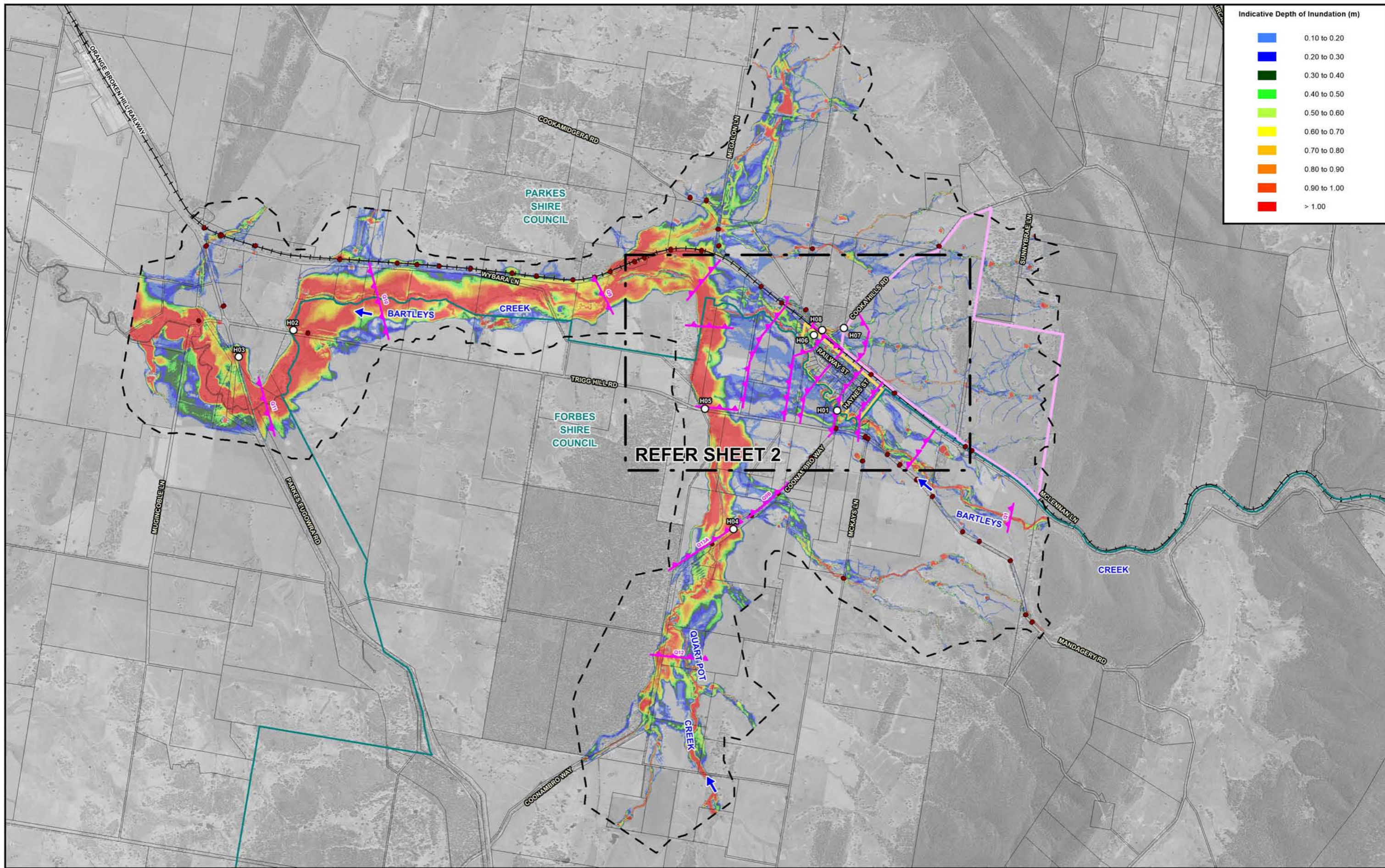
- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- ▲— Q01 Peak Flow Location and Identifier
- H01 ○ Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**

Figure 6.6  
 (Sheet 2 of 2)  
 TUFLOW MODEL RESULTS  
 0.5% AEP

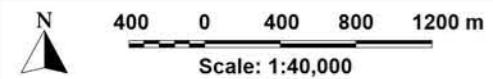




Indicative Depth of Inundation (m)

Blue	0.10 to 0.20
Dark Blue	0.20 to 0.30
Green	0.30 to 0.40
Light Green	0.40 to 0.50
Yellow-Green	0.50 to 0.60
Yellow	0.60 to 0.70
Orange	0.70 to 0.80
Red-Orange	0.80 to 0.90
Red	0.90 to 1.00
Dark Red	> 1.00

REFER SHEET 2



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.

The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

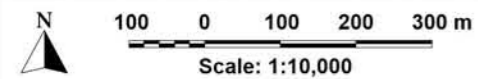
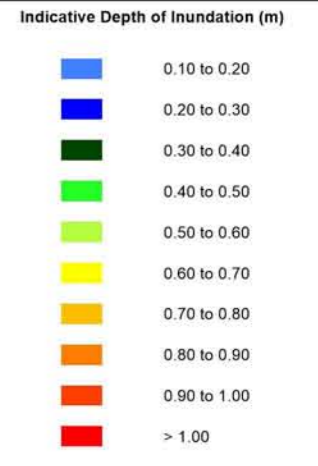
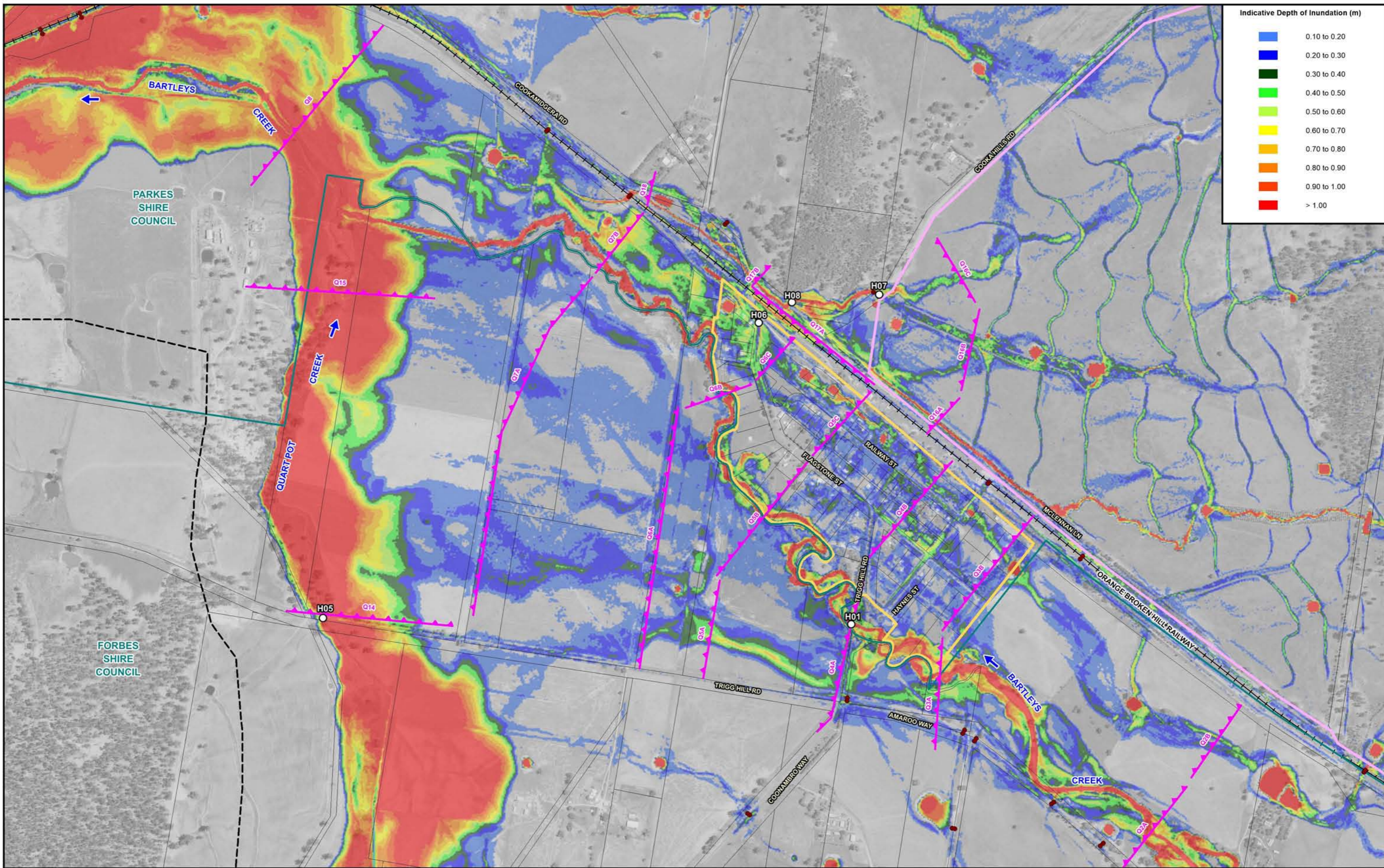
**LEGEND**

- LGA Boundary
- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System
- Extent of The Cookamidgera Project
- Village Centre

- Peak Flow Location and Identifier
- Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**





**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

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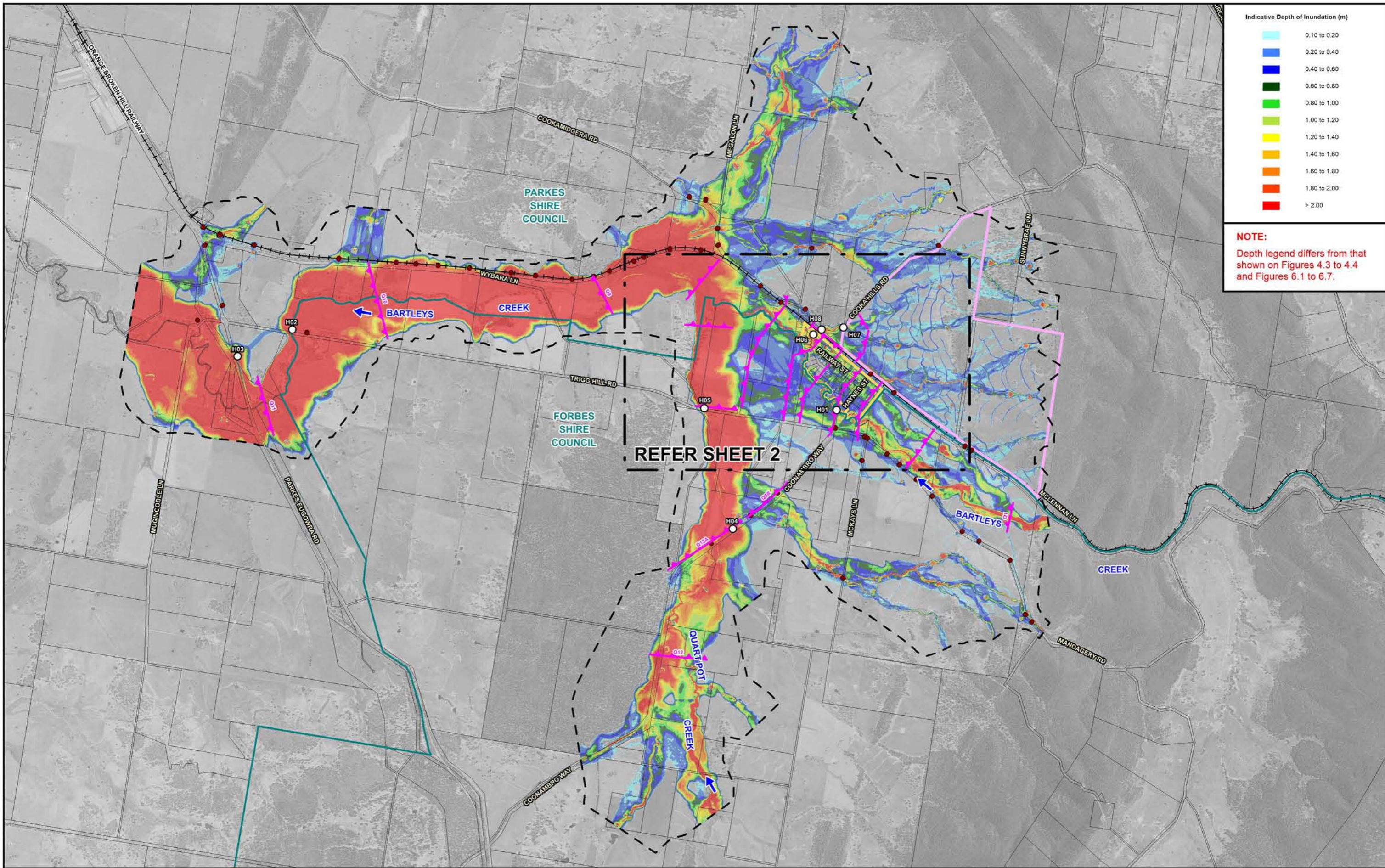
The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- ▲— Q01 Peak Flow Location and Identifier
- H01 ○ Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**

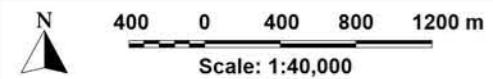




Indicative Depth of Inundation (m)

0.10 to 0.20
0.20 to 0.40
0.40 to 0.60
0.80 to 0.80
0.80 to 1.00
1.00 to 1.20
1.20 to 1.40
1.40 to 1.60
1.60 to 1.80
1.80 to 2.00
> 2.00

**NOTE:**  
Depth legend differs from that shown on Figures 4.3 to 4.4 and Figures 6.1 to 6.7.



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.

The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

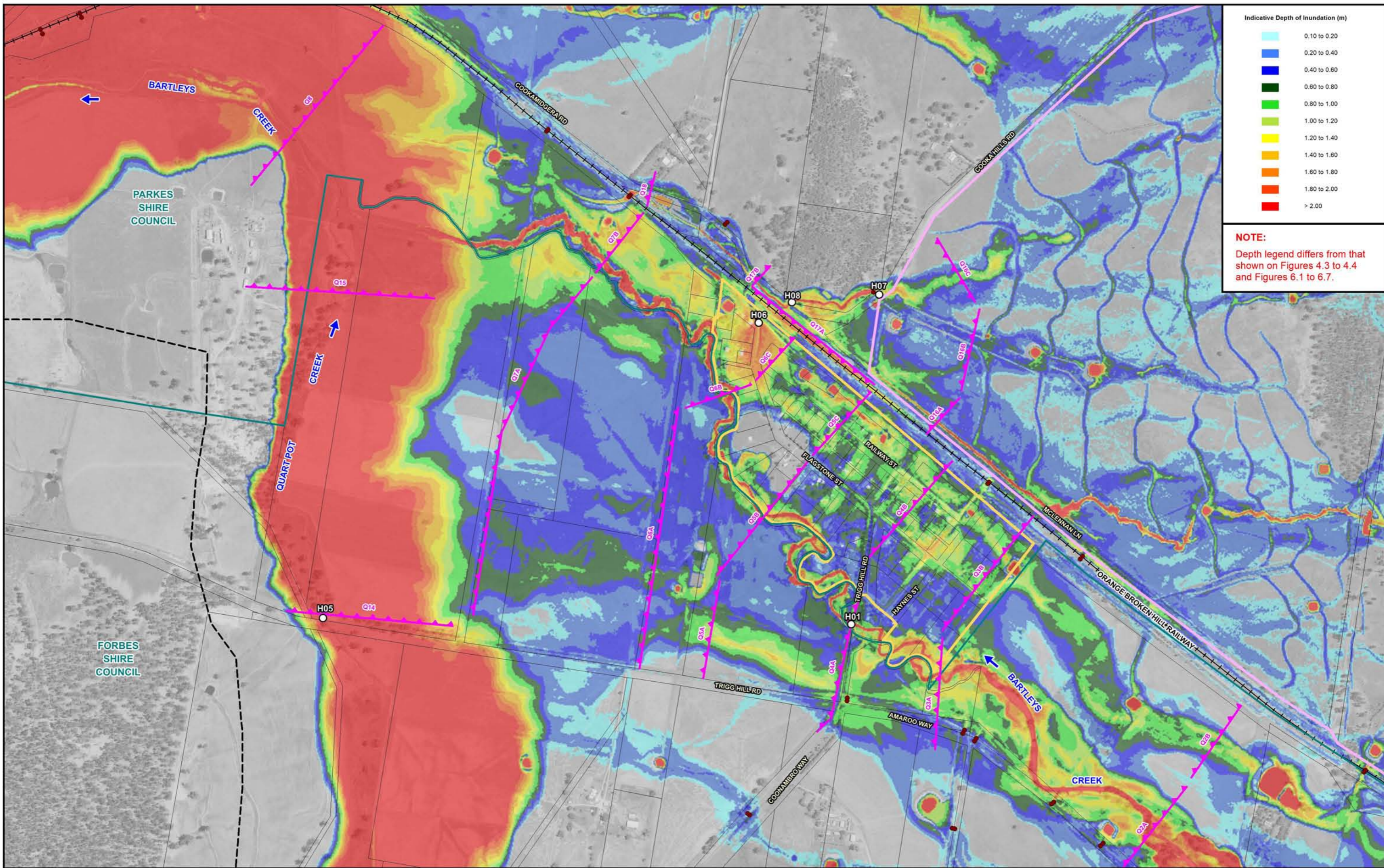
**LEGEND**

- LGA Boundary
- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System
- Extent of The Cookamidgera Project
- Village Centre

- Peak Flow Location and Identifier
- Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**

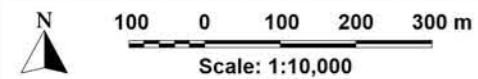




Indicative Depth of Inundation (m)

0.10 to 0.20
0.20 to 0.40
0.40 to 0.60
0.60 to 0.80
0.80 to 1.00
1.00 to 1.20
1.20 to 1.40
1.40 to 1.60
1.60 to 1.80
1.80 to 2.00
> 2.00

**NOTE:**  
Depth legend differs from that shown on Figures 4.3 to 4.4 and Figures 6.1 to 6.7.



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

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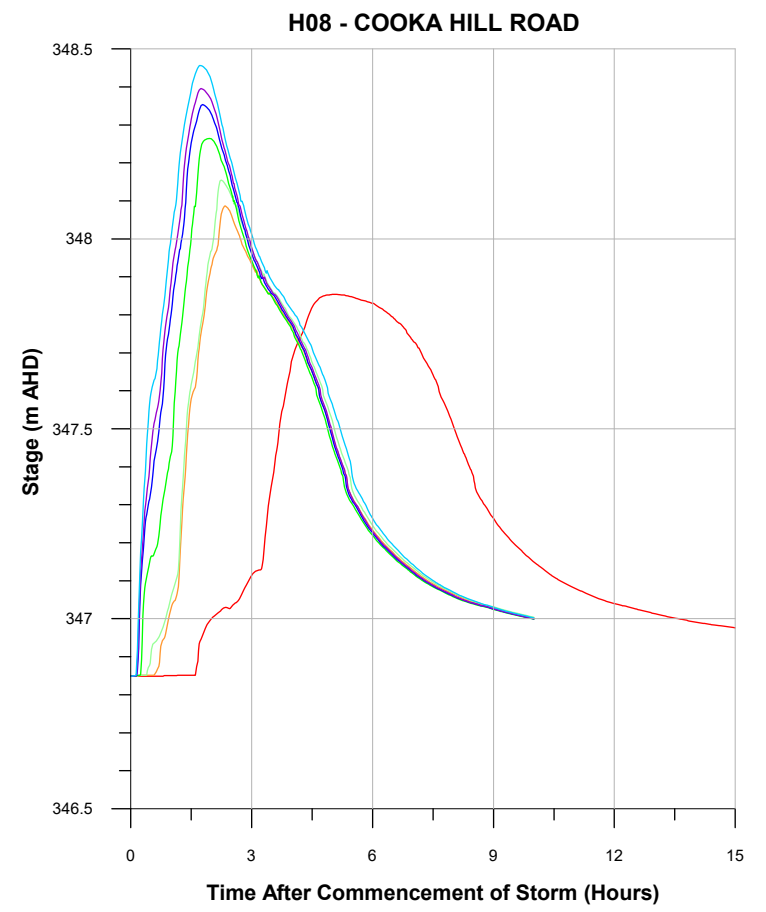
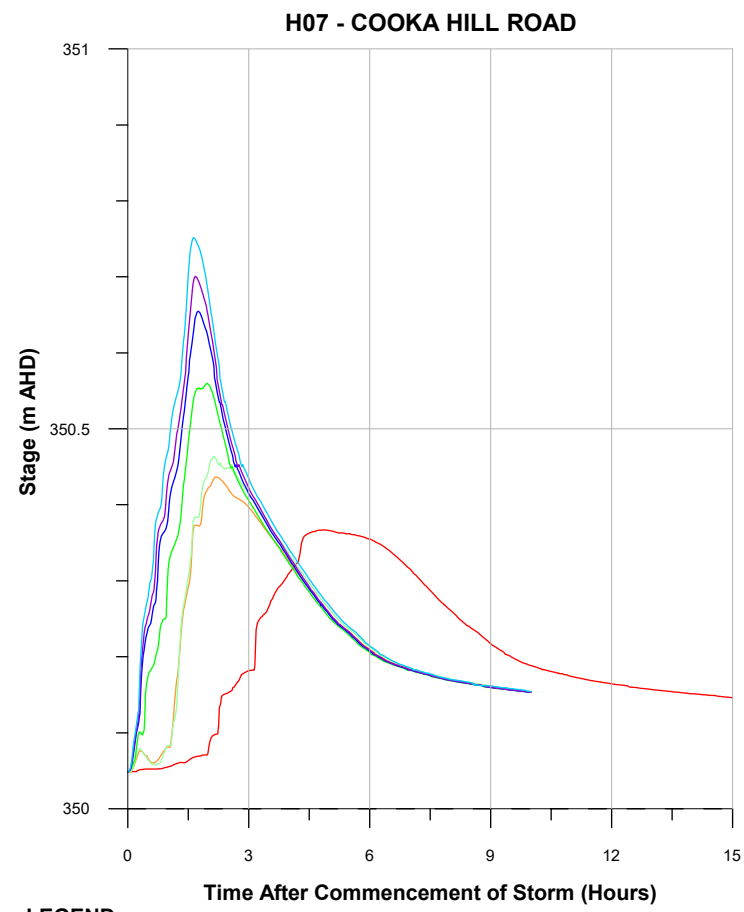
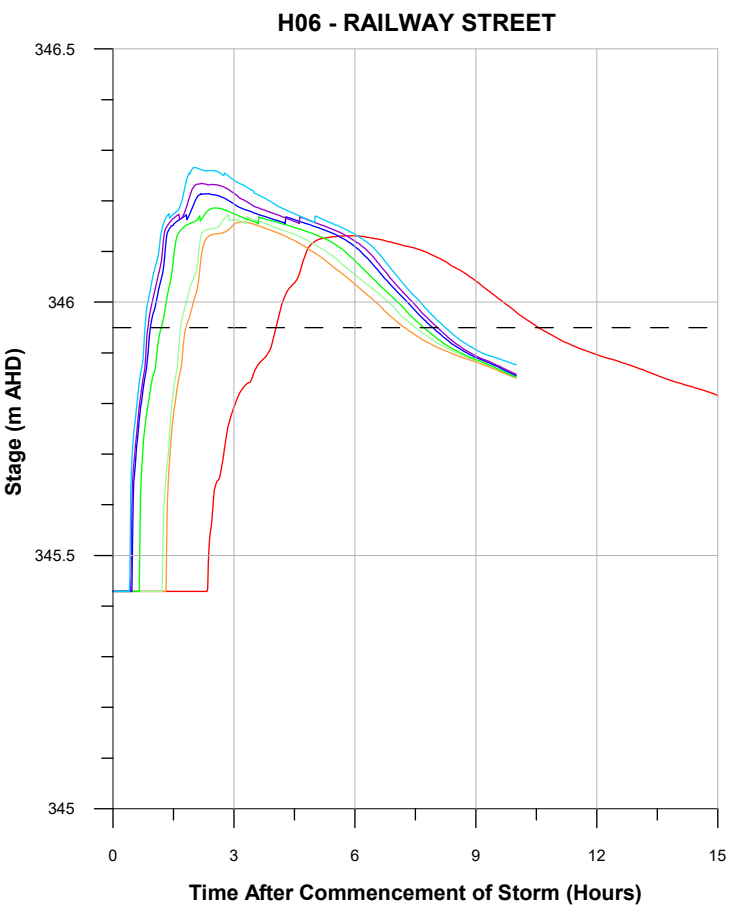
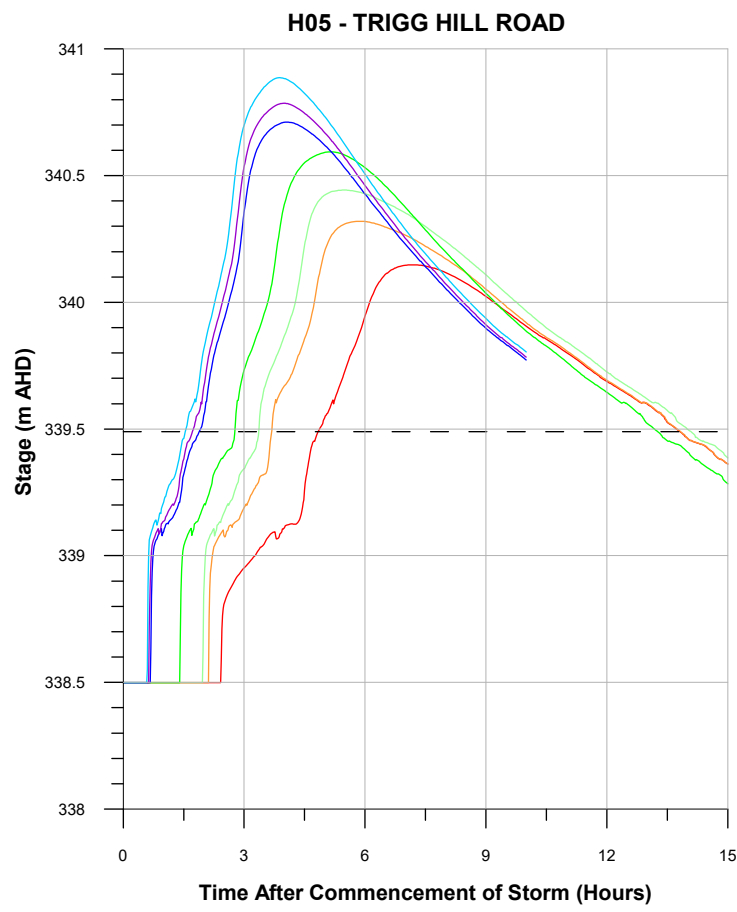
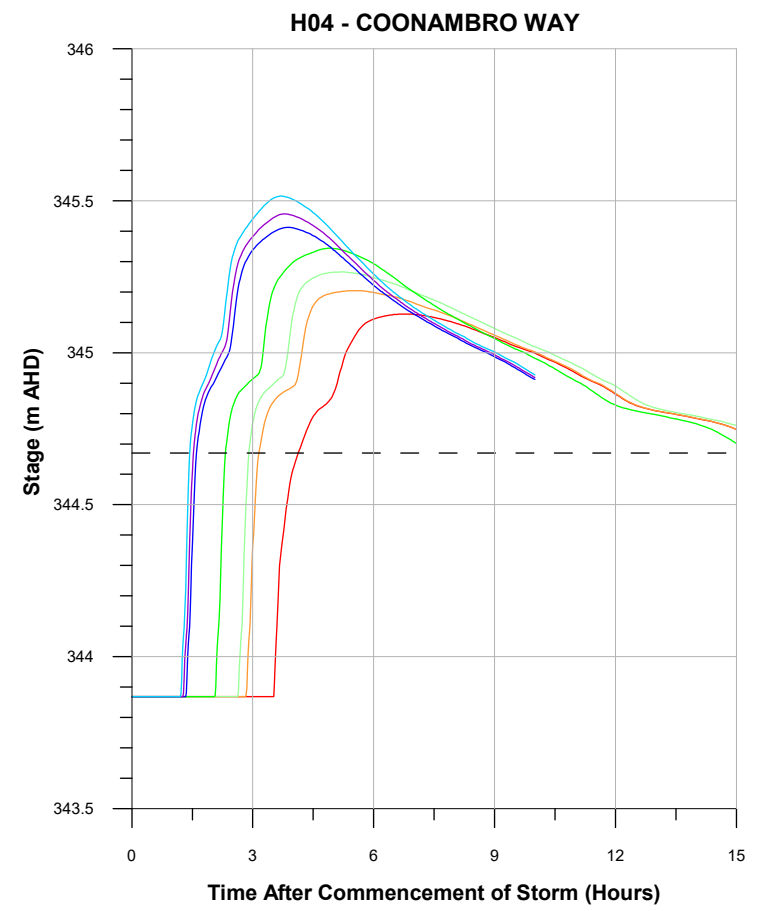
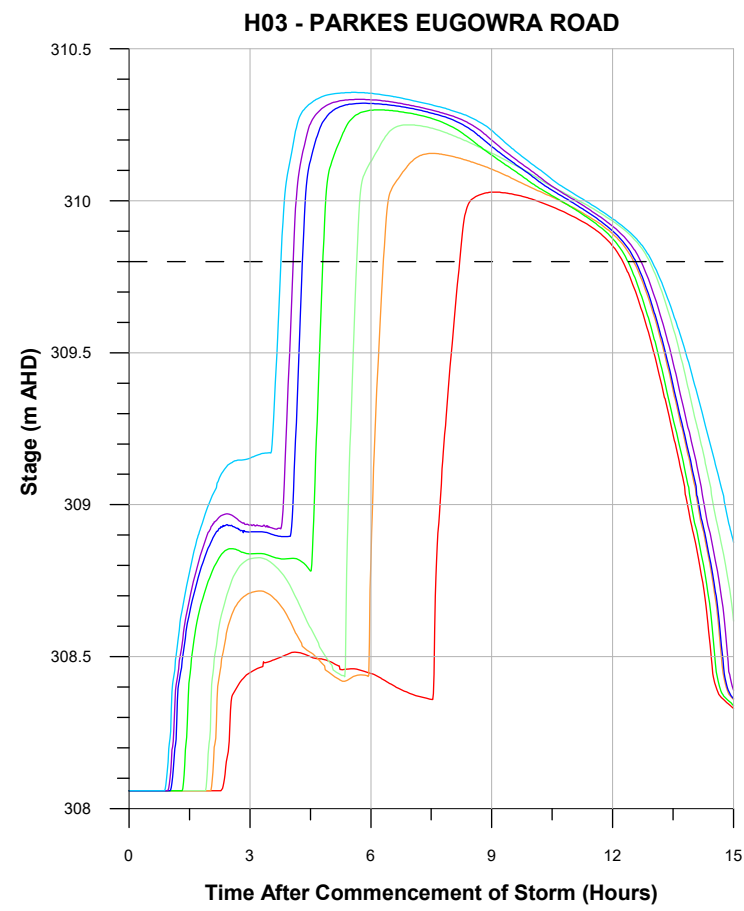
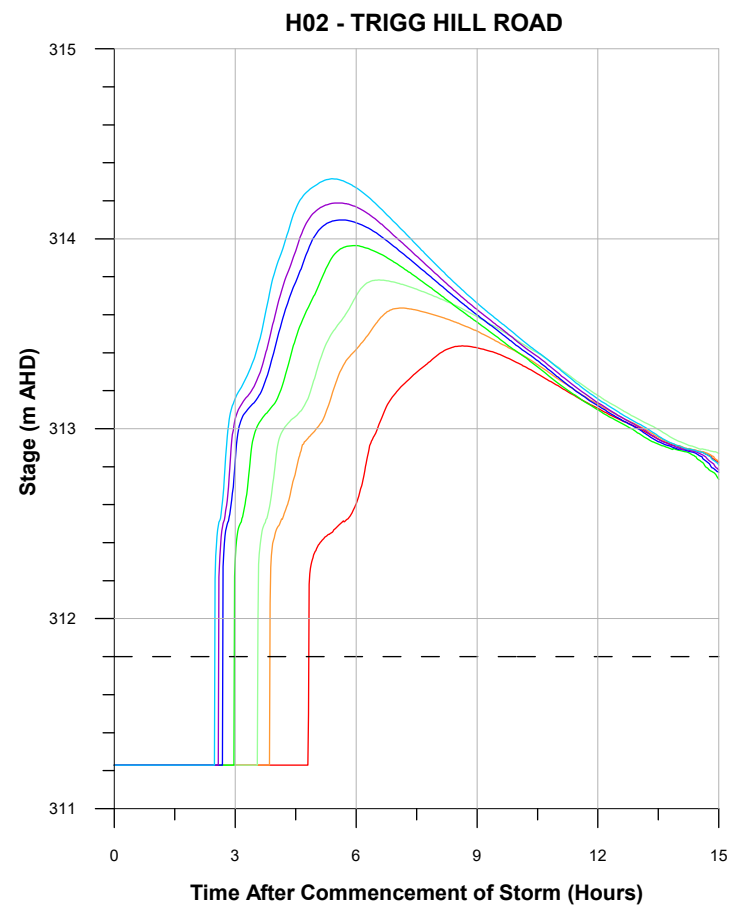
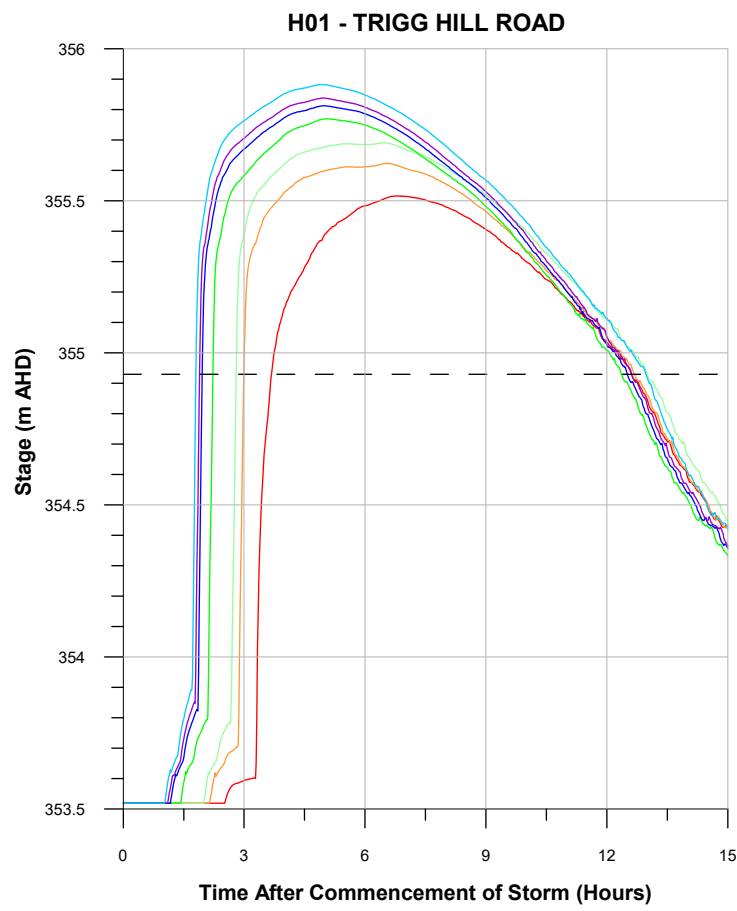
The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

- LEGEND**
- LGA Boundary
  - - - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- Q01 — Peak Flow Location and Identifier
- H01 ○ Peak Flood Level Location and Identifier

**COOKAMIDGERA FLOOD STUDY**



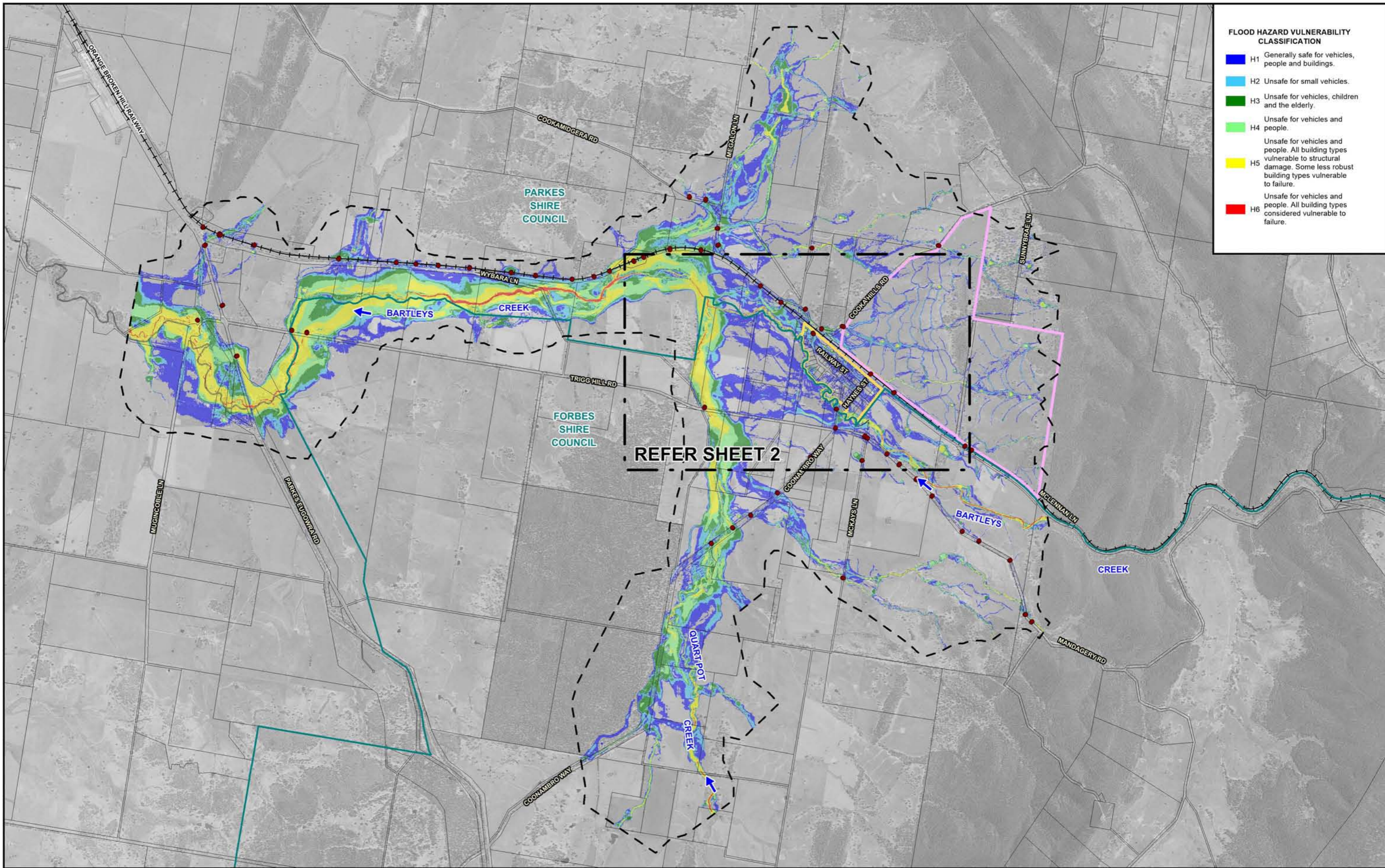


- LEGEND**
- Road/Rail Level
  - 0.2% AEP
  - 0.5% AEP
  - 1% AEP
  - 2% AEP
  - 5% AEP
  - 10% AEP
  - 20% AEP

**NOTES:**  
Refer Figures 6.1 to 6.8 for Peak Flood Level Locations.

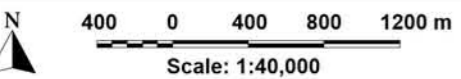






**FLOOD HAZARD VULNERABILITY CLASSIFICATION**

<span style="color: blue;">■</span> H1	Generally safe for vehicles, people and buildings.
<span style="color: cyan;">■</span> H2	Unsafe for small vehicles.
<span style="color: green;">■</span> H3	Unsafe for vehicles, children and the elderly.
<span style="color: lightgreen;">■</span> H4	Unsafe for vehicles and people.
<span style="color: yellow;">■</span> H5	Unsafe for vehicles and people. All building types vulnerable to structural damage. Some less robust building types vulnerable to failure.
<span style="color: red;">■</span> H6	Unsafe for vehicles and people. All building types considered vulnerable to failure.



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

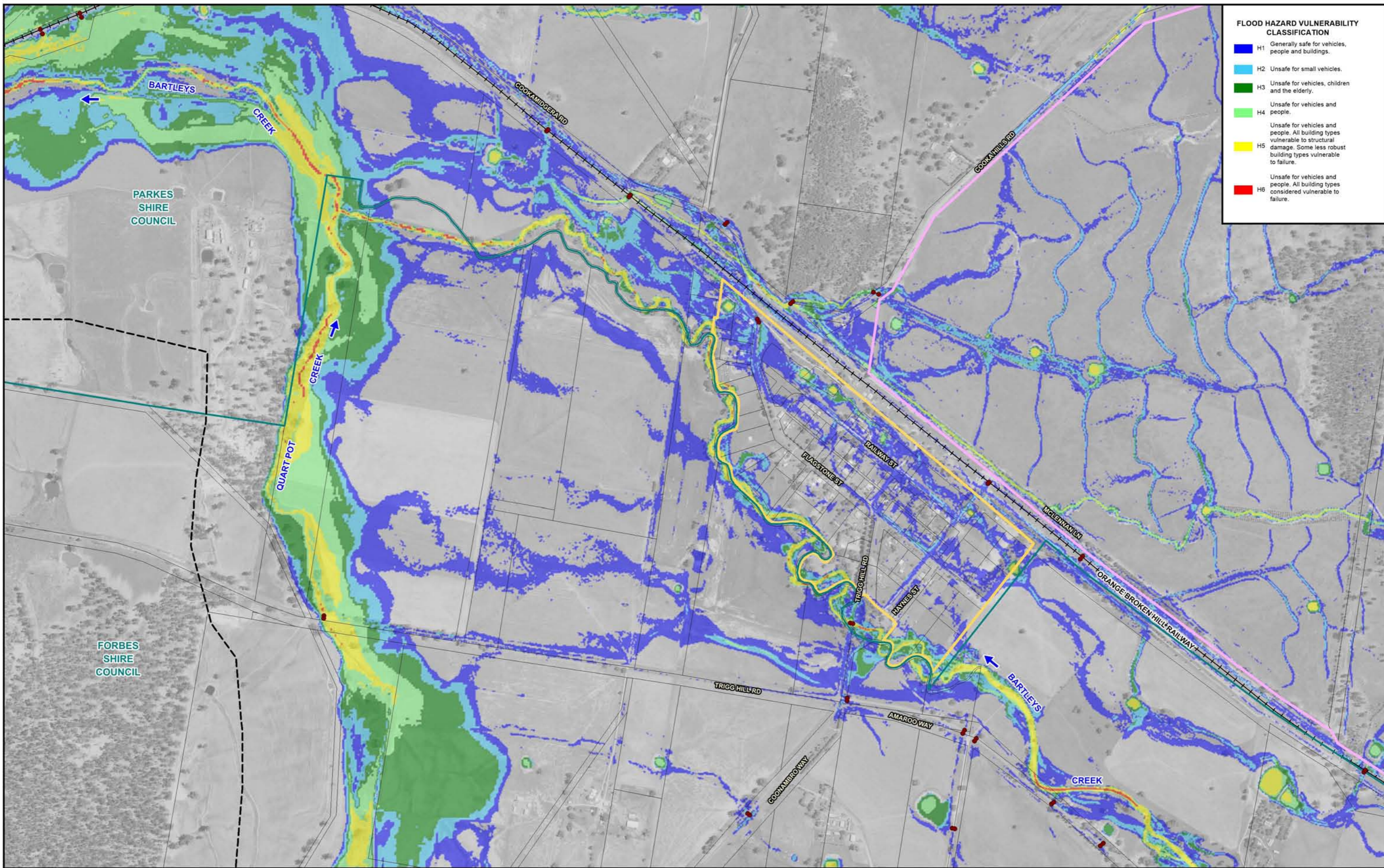
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

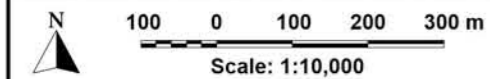
**COOKAMIDGERA FLOOD STUDY**





**FLOOD HAZARD VULNERABILITY CLASSIFICATION**

<span style="color: blue;">■</span> H1	Generally safe for vehicles, people and buildings.
<span style="color: lightblue;">■</span> H2	Unsafe for small vehicles.
<span style="color: green;">■</span> H3	Unsafe for vehicles, children and the elderly.
<span style="color: lightgreen;">■</span> H4	Unsafe for vehicles and people.
<span style="color: yellow;">■</span> H5	Unsafe for vehicles and people. All building types vulnerable to structural damage. Some less robust building types vulnerable to failure.
<span style="color: red;">■</span> H6	Unsafe for vehicles and people. All building types considered vulnerable to failure.



**NOTE:**  
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**LEGEND**

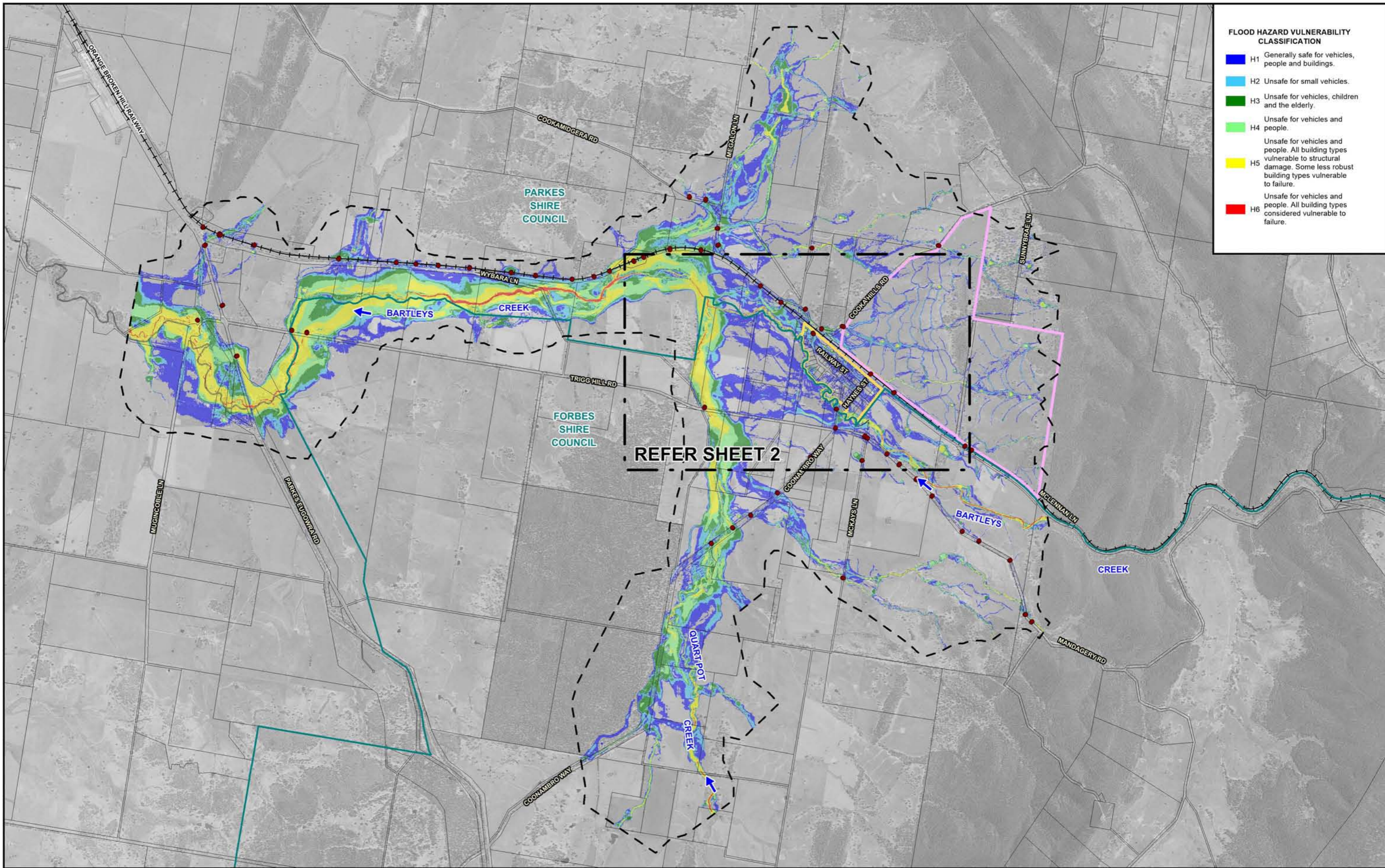
<span style="color: green;">—</span>	LGA Boundary
<span style="color: black;">- - -</span>	Two-Dimensional Model Boundary
<span style="color: red;">●</span>	Modelled Stormwater Drainage System
<span style="color: magenta;">—</span>	Extent of The Cookamidgera Project
<span style="color: yellow;">—</span>	Village Centre

**Lyll & Associates**

**COOKAMIDGERA FLOOD STUDY**

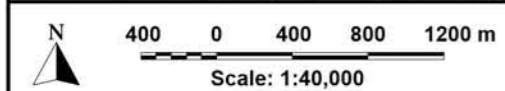
Figure 6.10  
(Sheet 2 of 2)  
**FLOOD HAZARD VULNERABILITY CLASSIFICATION**  
5% AEP





**FLOOD HAZARD VULNERABILITY CLASSIFICATION**

<span style="color: blue;">■</span>	H1	Generally safe for vehicles, people and buildings.
<span style="color: lightblue;">■</span>	H2	Unsafe for small vehicles.
<span style="color: green;">■</span>	H3	Unsafe for vehicles, children and the elderly.
<span style="color: lightgreen;">■</span>	H4	Unsafe for vehicles and people.
<span style="color: yellow;">■</span>	H5	Unsafe for vehicles and people. All building types vulnerable to structural damage. Some less robust building types vulnerable to failure.
<span style="color: red;">■</span>	H6	Unsafe for vehicles and people. All building types considered vulnerable to failure.



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**LEGEND**

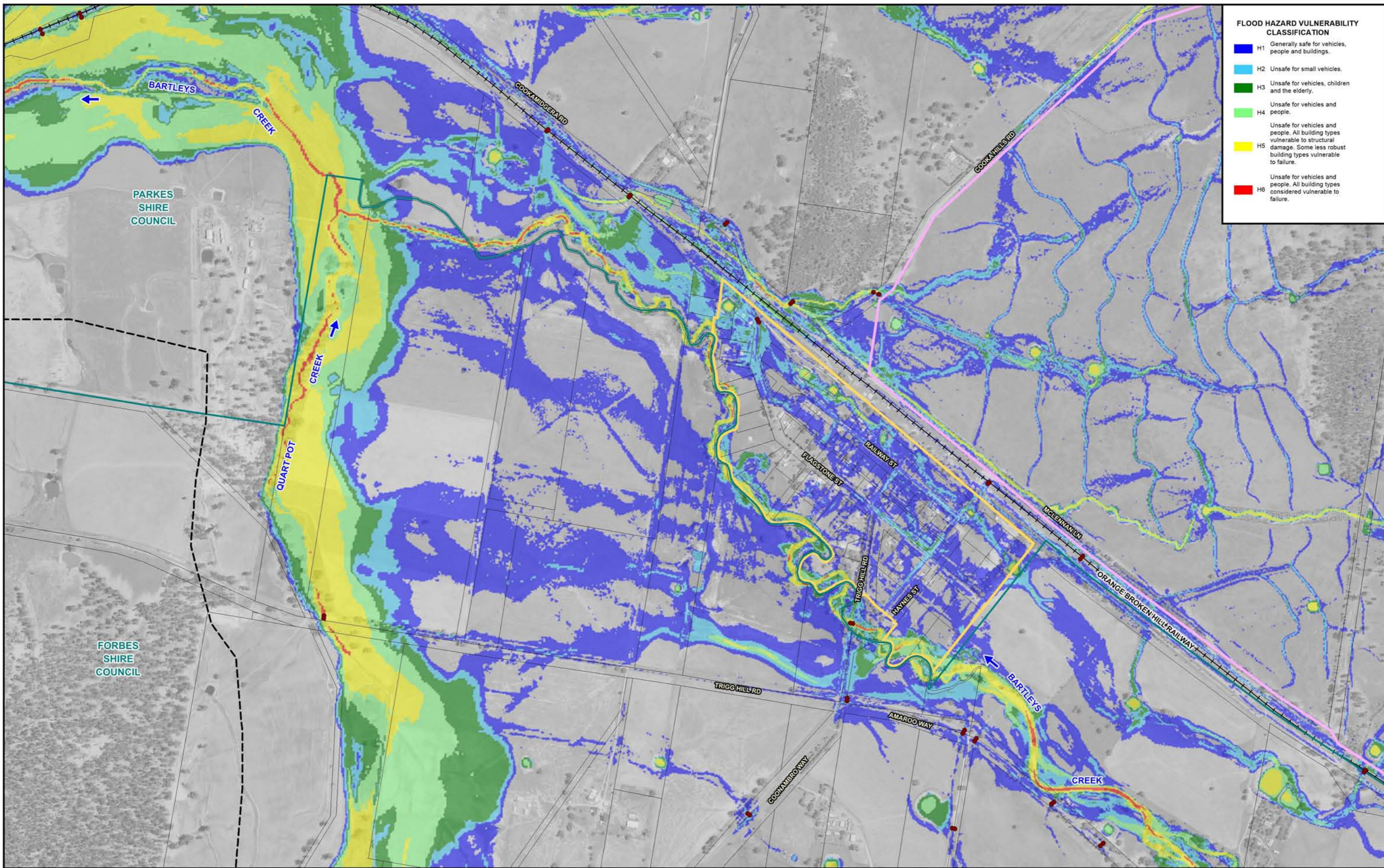
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<span style="border-bottom: 1px dashed black; width: 20px;"></span>	Two-Dimensional Model Boundary
<span style="color: red;">●</span>	Modelled Stormwater Drainage System
<span style="color: pink;">—</span>	Extent of The Cookamidgera Project
<span style="color: yellow;">—</span>	Village Centre



**COOKAMIDGERA FLOOD STUDY**

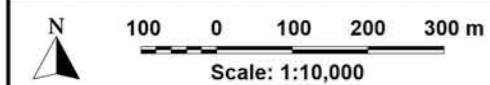
Figure 6.11  
(Sheet 1 of 2)  
**FLOOD HAZARD VULNERABILITY CLASSIFICATION**  
1% AEP





**FLOOD HAZARD VULNERABILITY CLASSIFICATION**

Blue	H1	Generally safe for vehicles, people and buildings.
Cyan	H2	Unsafe for small vehicles.
Green	H3	Unsafe for vehicles, children and the elderly.
Light Green	H4	Unsafe for vehicles and people.
Yellow	H5	Unsafe for vehicles and people. All building types vulnerable to structural damage. Some less robust building types vulnerable to failure.
Red	H6	Unsafe for vehicles and people. All building types considered vulnerable to failure.



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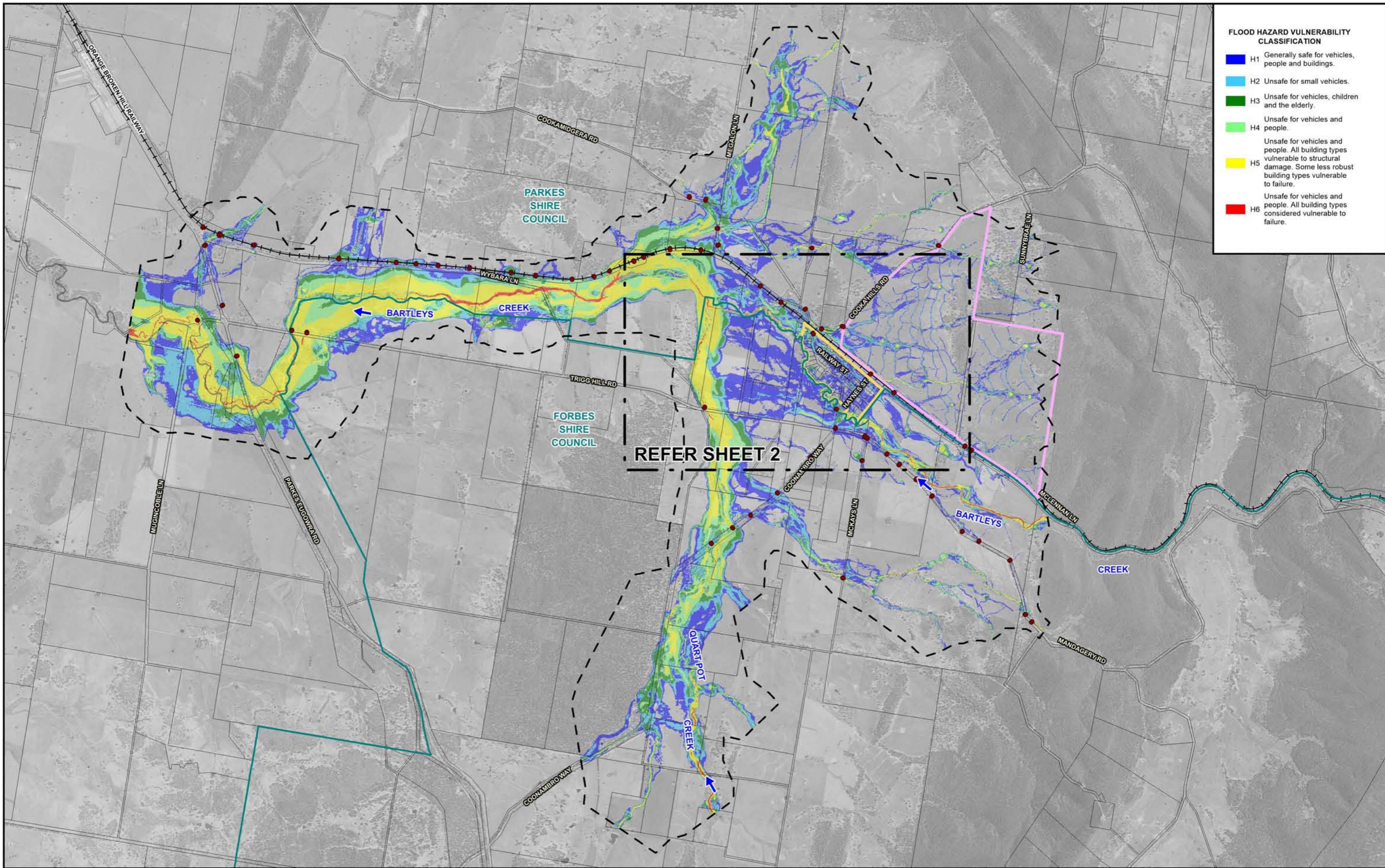
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

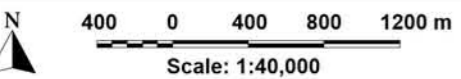
**COOKAMIDGERA FLOOD STUDY**





**FLOOD HAZARD VULNERABILITY CLASSIFICATION**

<span style="color: blue;">■</span> H1	Generally safe for vehicles, people and buildings.
<span style="color: cyan;">■</span> H2	Unsafe for small vehicles.
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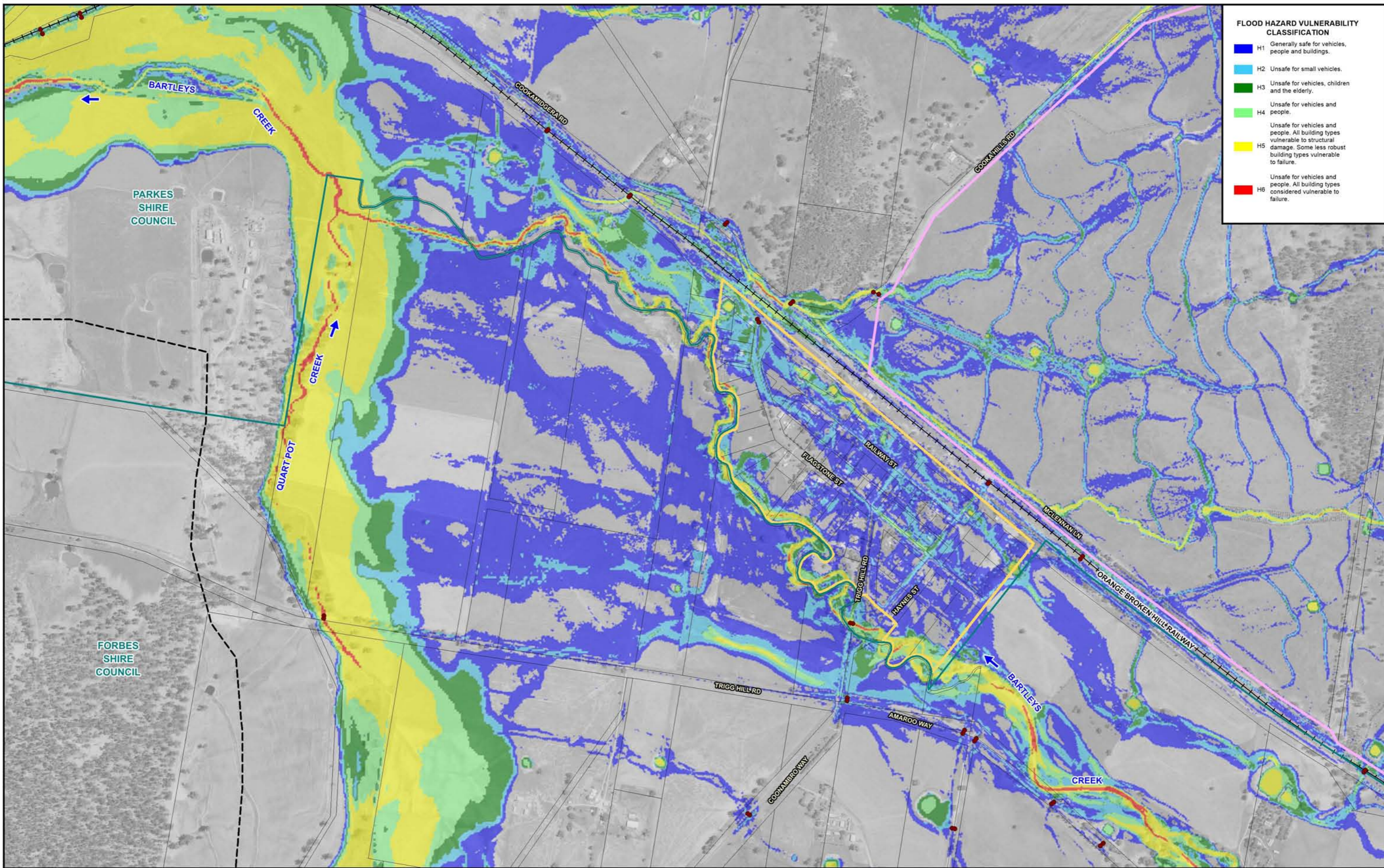
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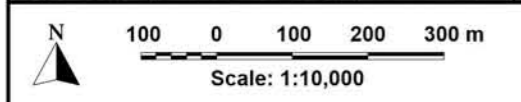
- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre





**FLOOD HAZARD VULNERABILITY CLASSIFICATION**

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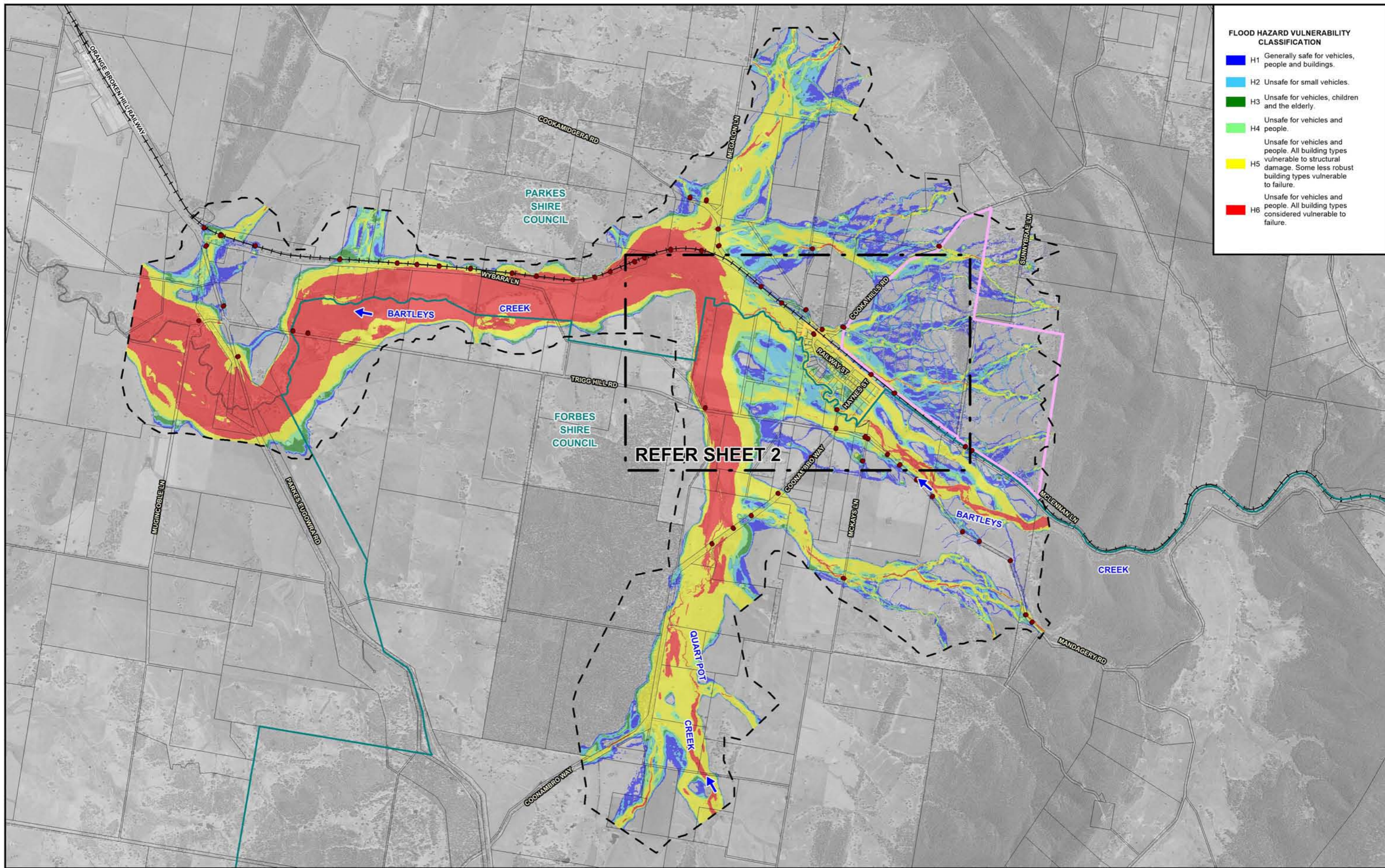
- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre



**COOKAMIDGERA FLOOD STUDY**

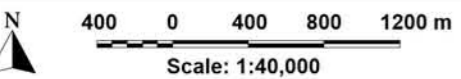
Figure 6.12  
(Sheet 2 of 2)  
**FLOOD HAZARD VULNERABILITY CLASSIFICATION**  
0.2% AEP





**FLOOD HAZARD VULNERABILITY CLASSIFICATION**

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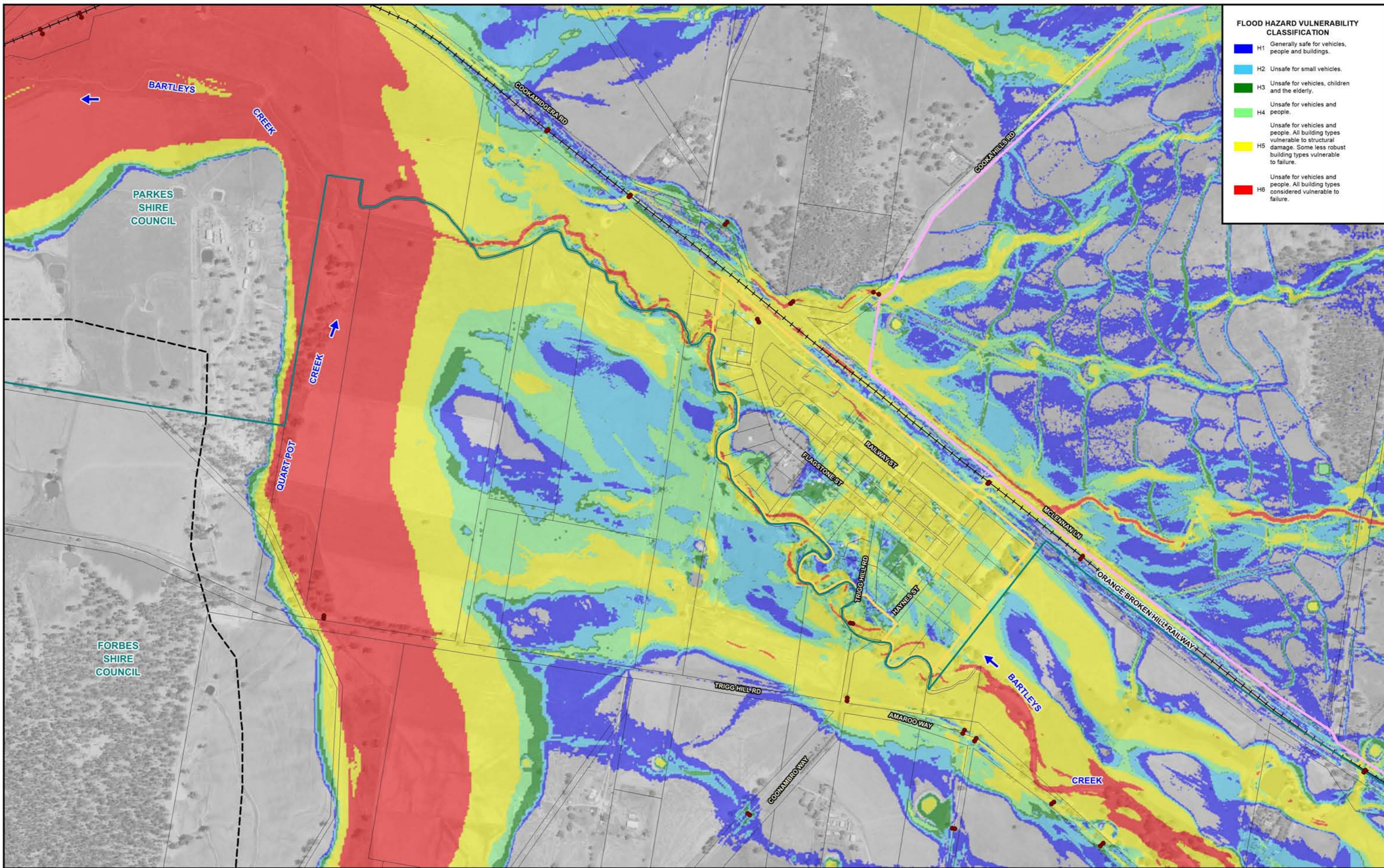
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

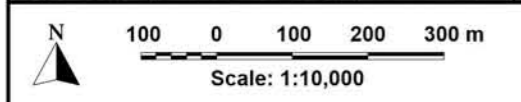
**COOKAMIDGERA FLOOD STUDY**





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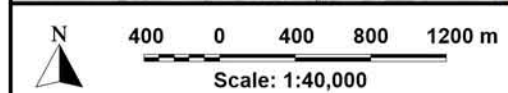
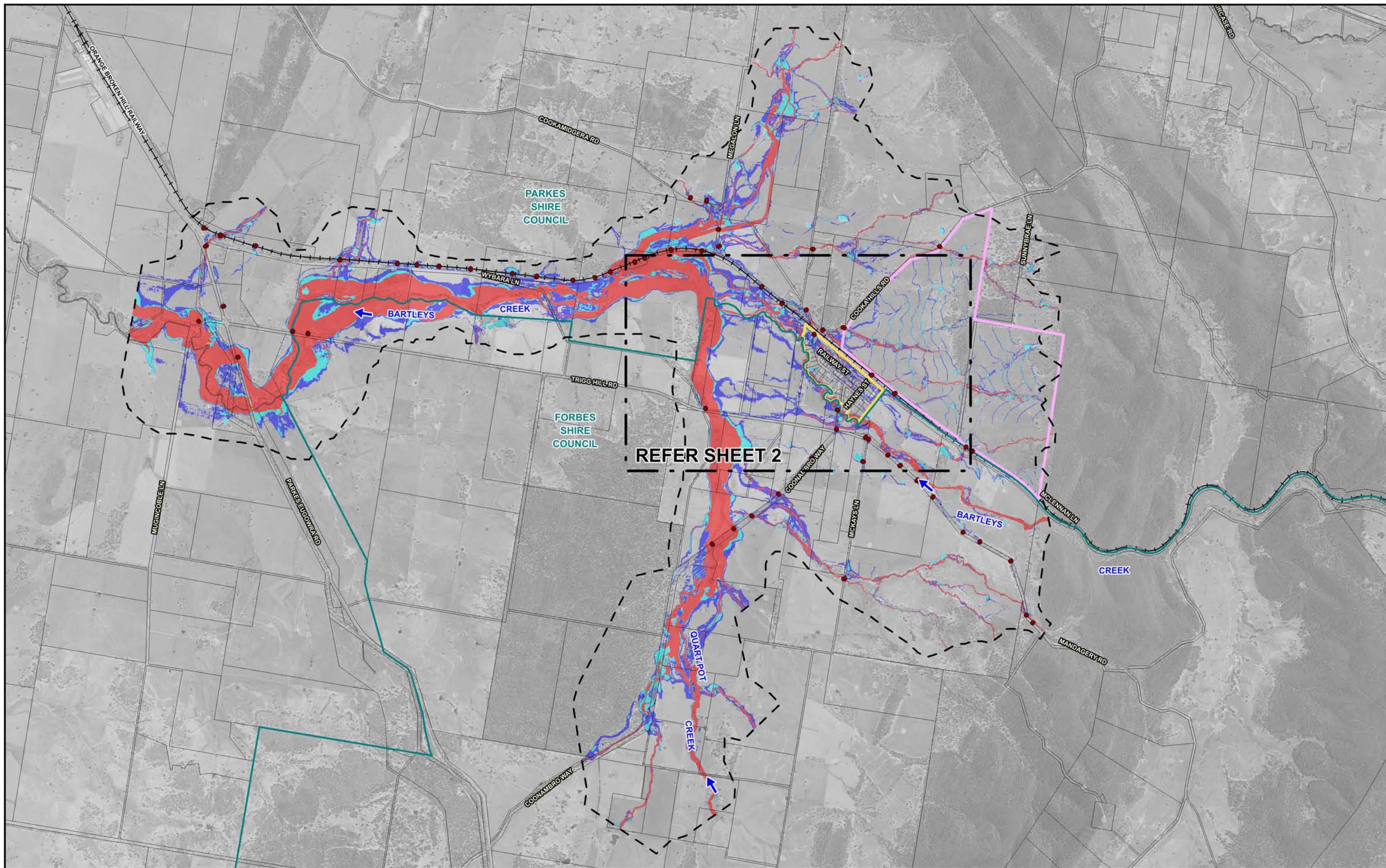
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**





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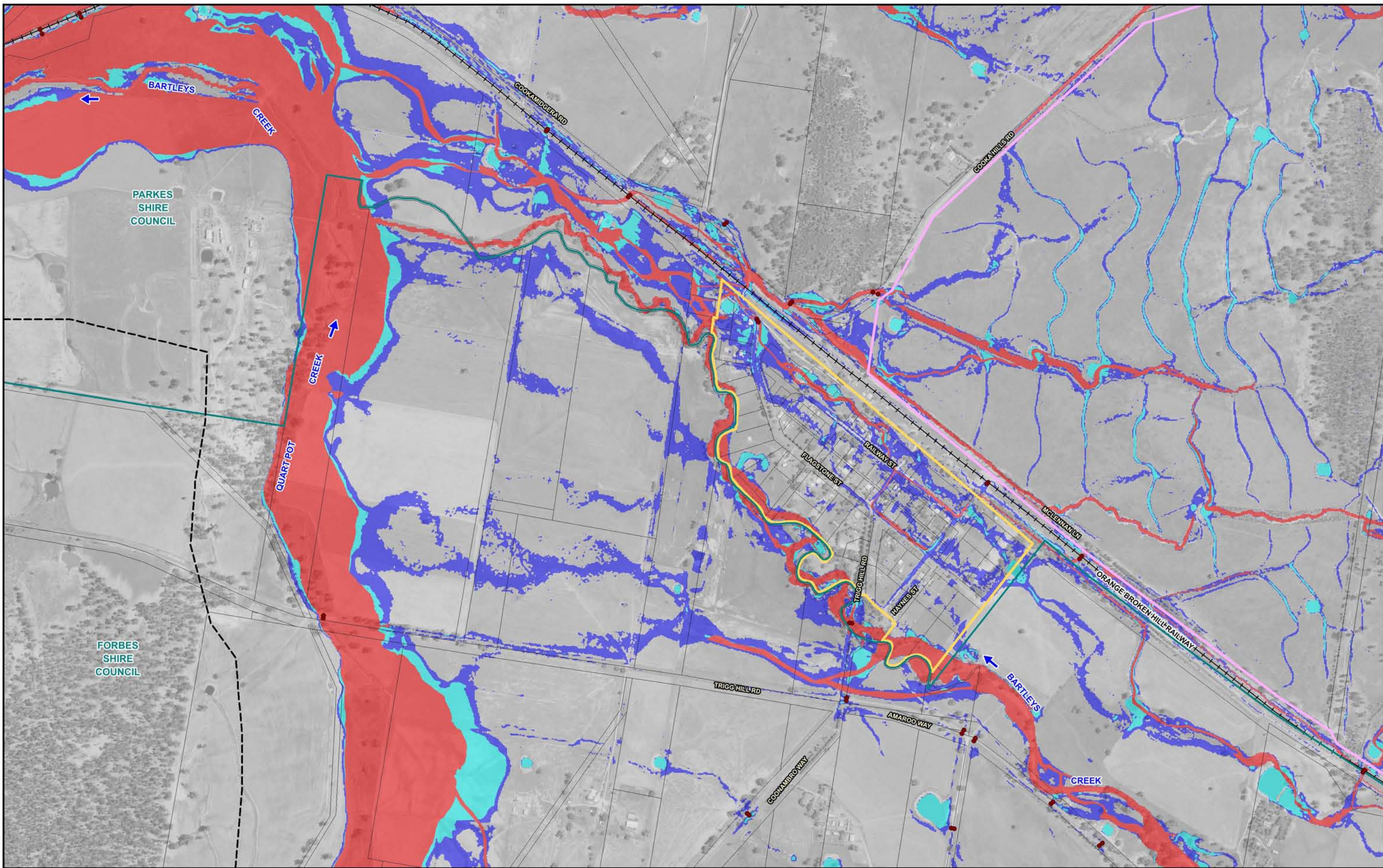
**LEGEND**

- LGA Boundary
- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System
- Extent of The Cookamidgera Project
- Village Centre

- Floodway
- Flood Storage
- Flood Fringe

**COOKAMIDGERA FLOOD STUDY**





Scale: 1:10,000

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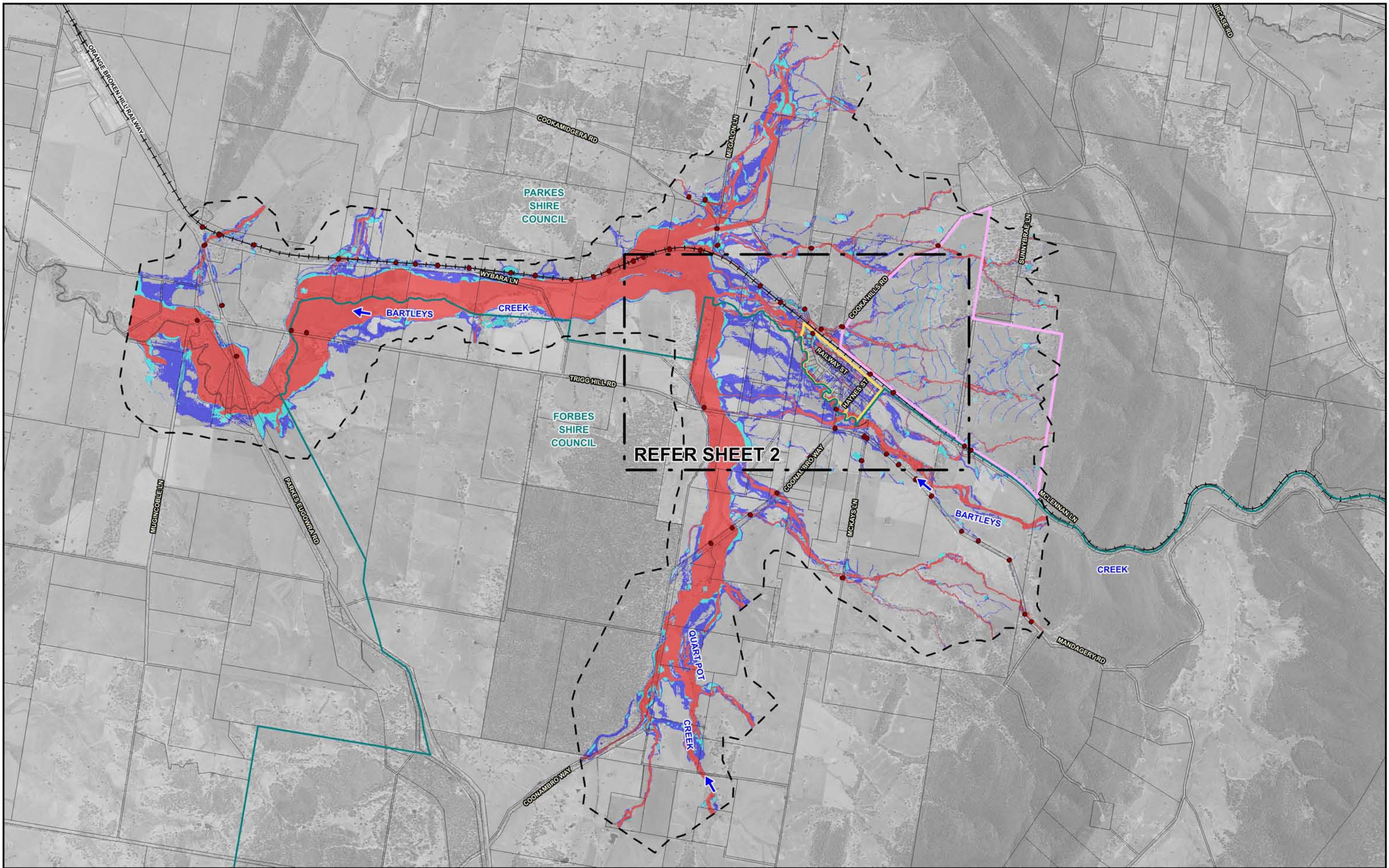
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- Floodway
- Flood Storage
- Flood Fringe

**COOKAMIDGERA FLOOD STUDY**









 400 0 400 800 1200 m  
 Scale: 1:40,000

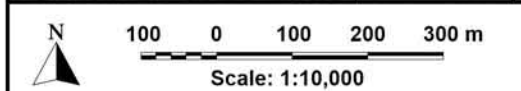
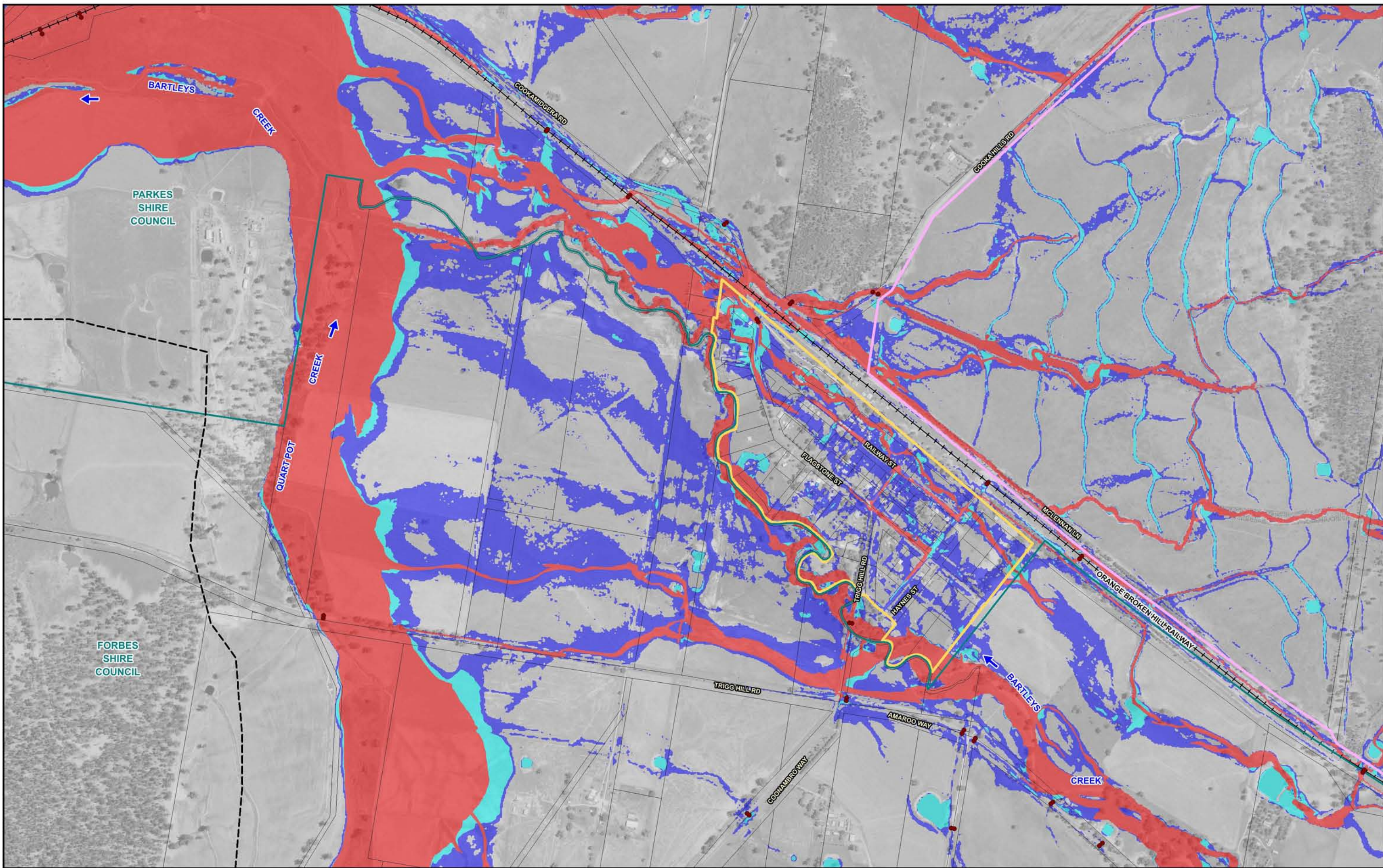
**Lyll & Associates**

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- LEGEND**
-  LGA Boundary
  -  Two-Dimensional Model Boundary
  -  Modelled Stormwater Drainage System
  -  Extent of The Cookamidgera Project
  -  Village Centre

-  Floodway
-  Flood Storage
-  Flood Fringe





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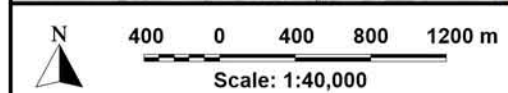
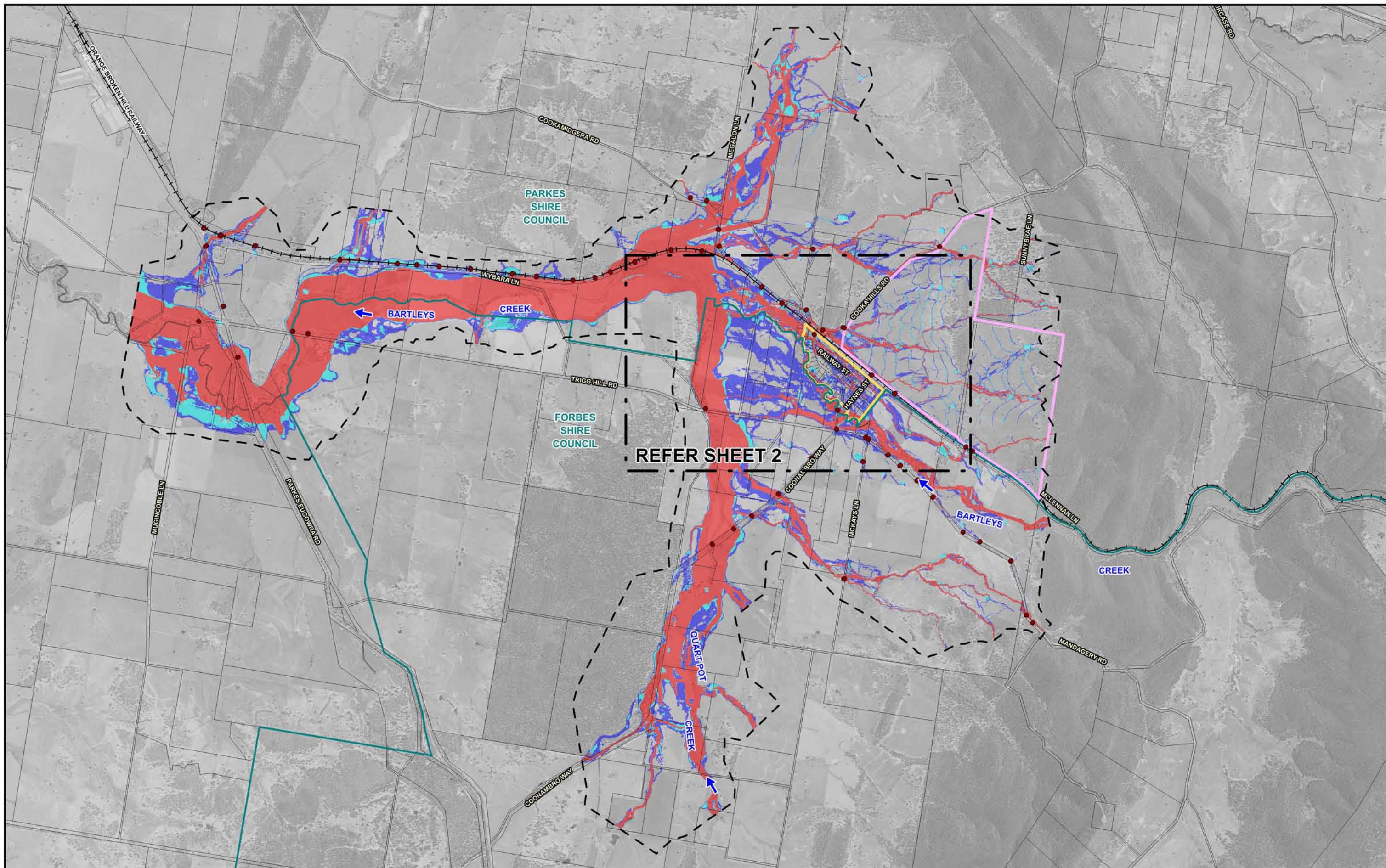
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- LEGEND**
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  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- Floodway
- Flood Storage
- Flood Fringe

**COOKAMIDGERA FLOOD STUDY**





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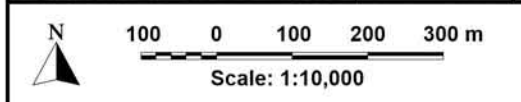
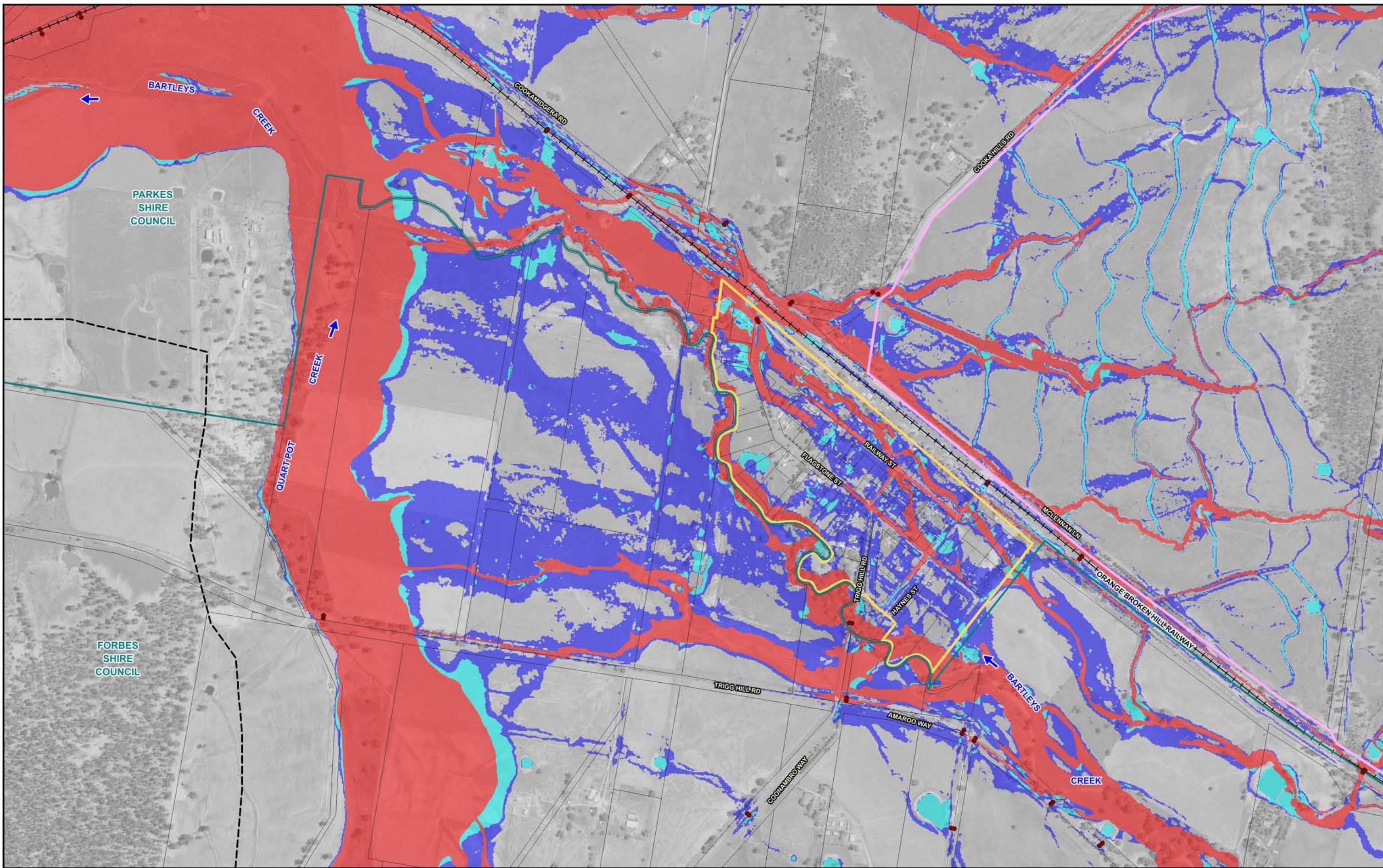
**LEGEND**

- LGA Boundary
- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System
- Extent of The Cookamidgera Project
- Village Centre

- Floodway
- Flood Storage
- Flood Fringe

**COOKAMIDGERA FLOOD STUDY**





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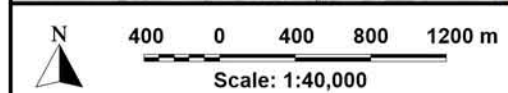
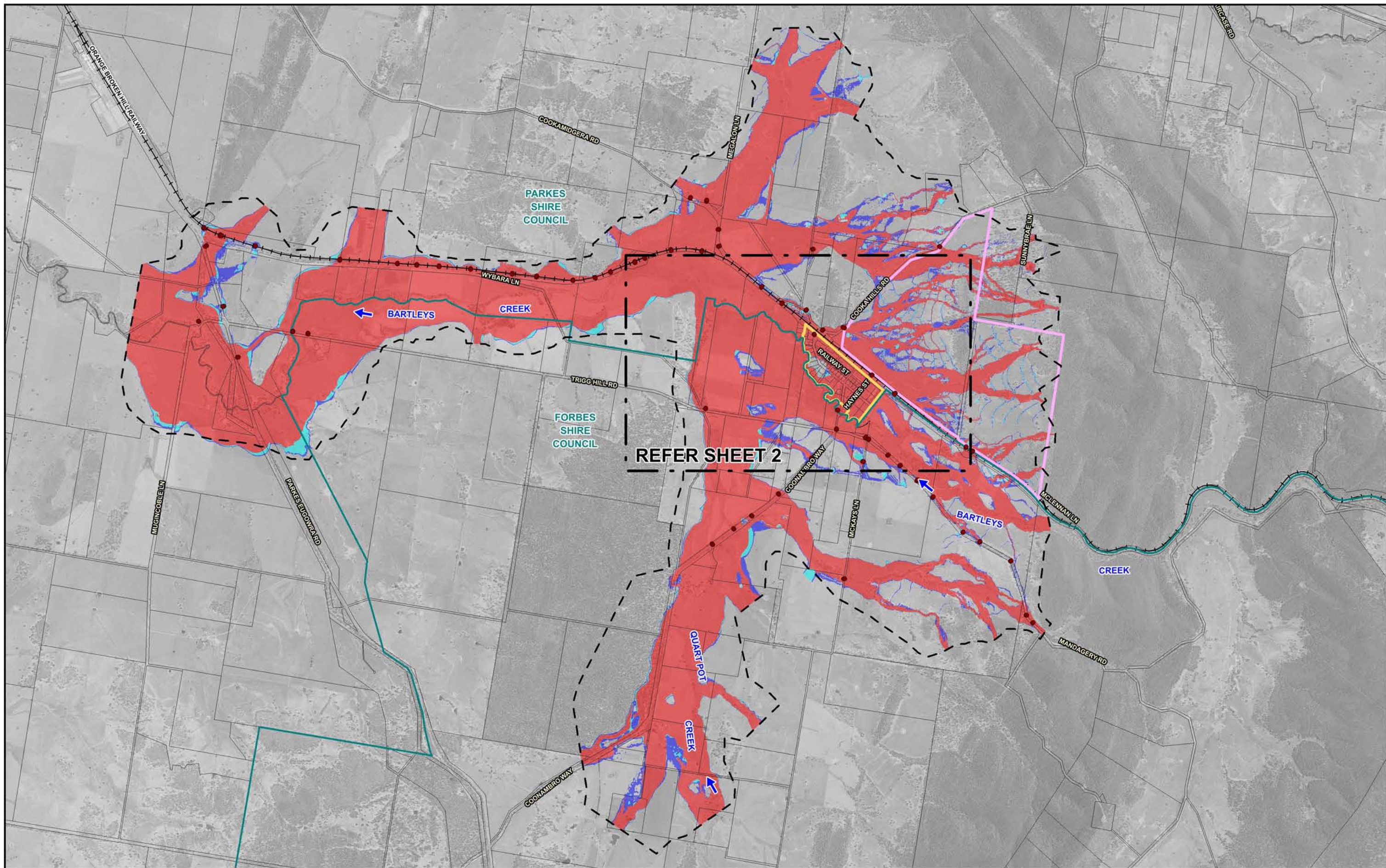
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- LGA Boundary
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  - Extent of The Cookamidgera Project
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**COOKAMIDGERA FLOOD STUDY**





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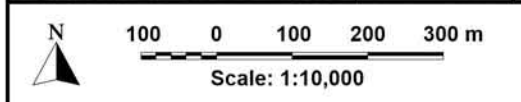
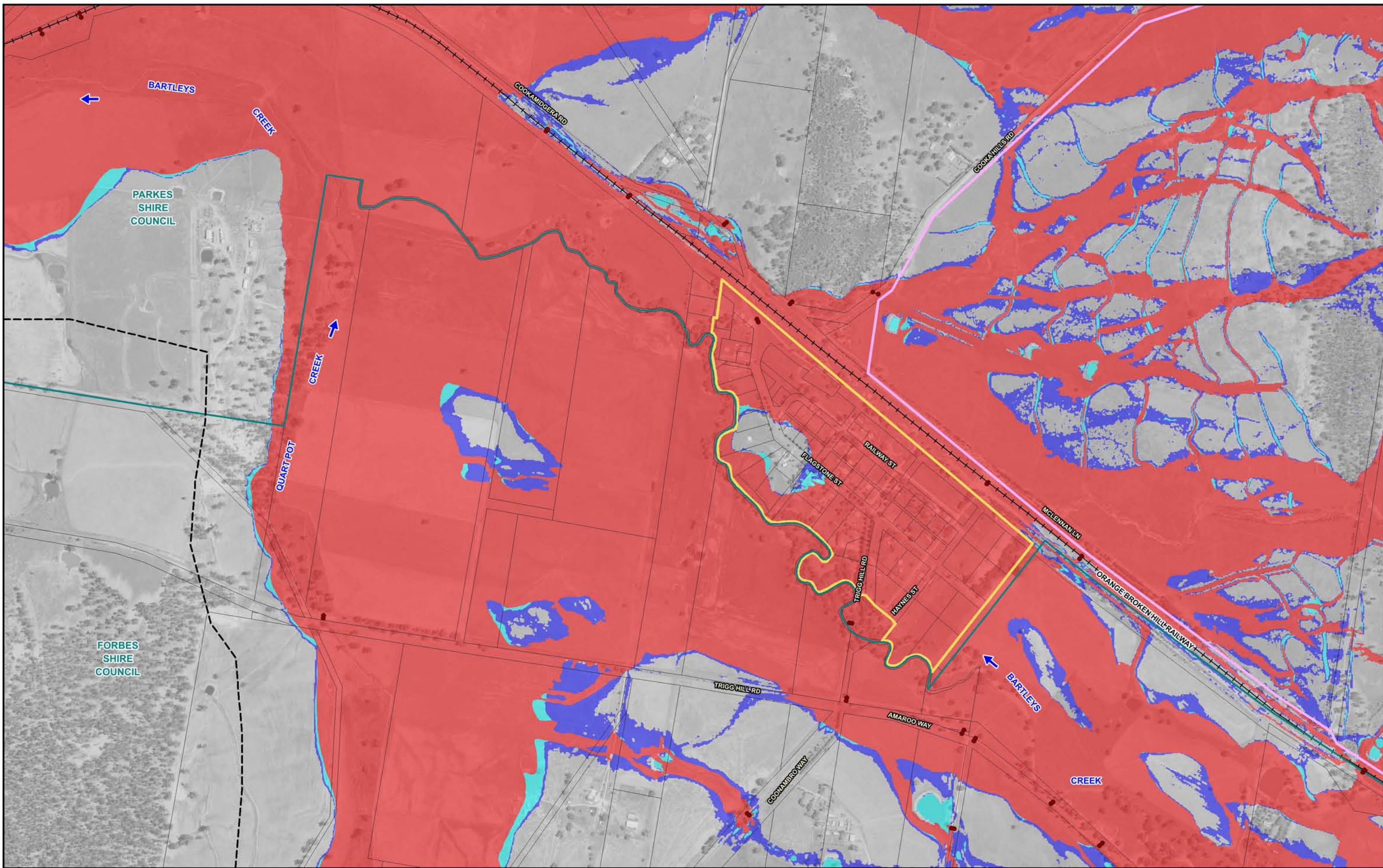
**LEGEND**

- LGA Boundary
- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System
- Extent of The Cookamidgera Project
- Village Centre

- Floodway
- Flood Storage
- Flood Fringe

**COOKAMIDGERA FLOOD STUDY**





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  - Extent of The Cookamidgera Project
  - Village Centre

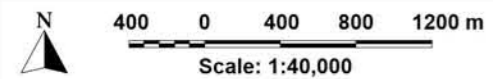
- Floodway
- Flood Storage
- Flood Fringe

**Lyall & Associates**

**COOKAMIDGERA FLOOD STUDY**

Figure 6.17  
 (Sheet 2 of 2)  
 HYDRAULIC CATEGORISATION OF FLOODPLAIN  
 PMF





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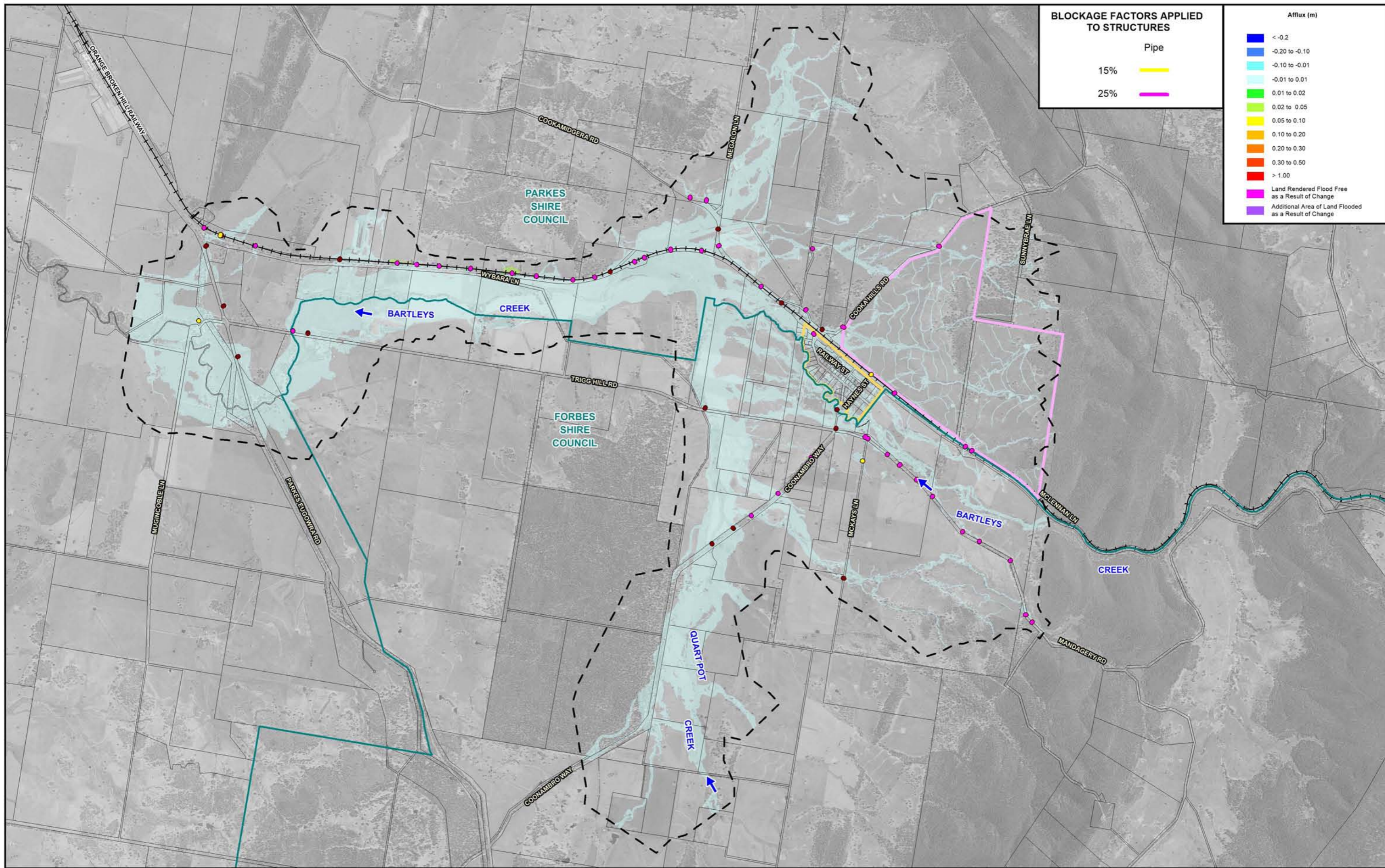
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- LEGEND**
- LGA Boundary
  - - - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**

Figure 6.18





**BLOCKAGE FACTORS APPLIED TO STRUCTURES**

Pipe

15% —

25% —

**Afflux (m)**

- <math>< -0.2</math>
- -0.20 to -0.10
- -0.10 to -0.01
- -0.01 to 0.01
- 0.01 to 0.02
- 0.02 to 0.05
- 0.05 to 0.10
- 0.10 to 0.20
- 0.20 to 0.30
- 0.30 to 0.50
- > 1.00
- Land Rendered Flood Free as a Result of Change
- Additional Area of Land Flooded as a Result of Change

Scale: 1:40,000

400 0 400 800 1200 m

**NOTE:**  
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- Extent of The Cookamidgera Project
- Village Centre

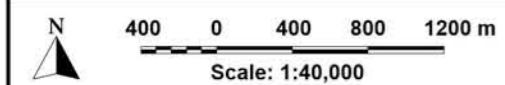
**COOKAMIDGERA FLOOD STUDY**



**SENSITIVITY OF FLOOD BEHAVIOUR TO PARTIAL BLOCKAGE OF HYDRAULIC STRUCTURES**  
1% AEP

Figure 6.19





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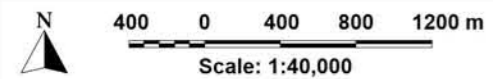
- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**



Figure 6.20  
**SENSITIVITY OF FLOOD BEHAVIOUR TO 10% INCREASE IN RAINFALL INTENSITY**  
 1% AEP





**NOTE:**  
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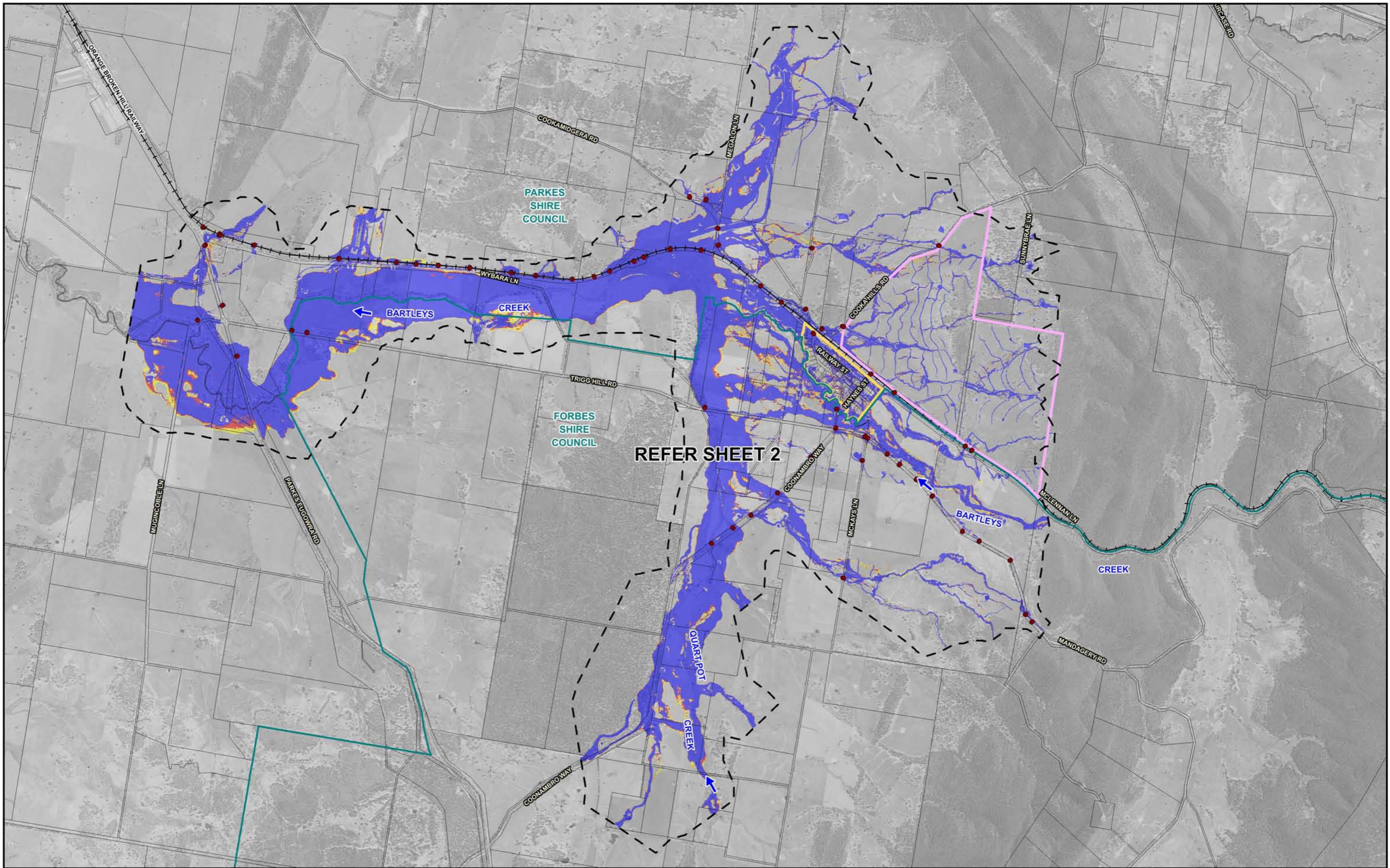
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre


**COOKAMIDGERA FLOOD STUDY**

Figure 6.21






 400 0 400 800 1200 m  
 Scale: 1:40,000






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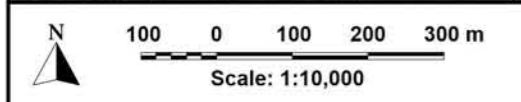
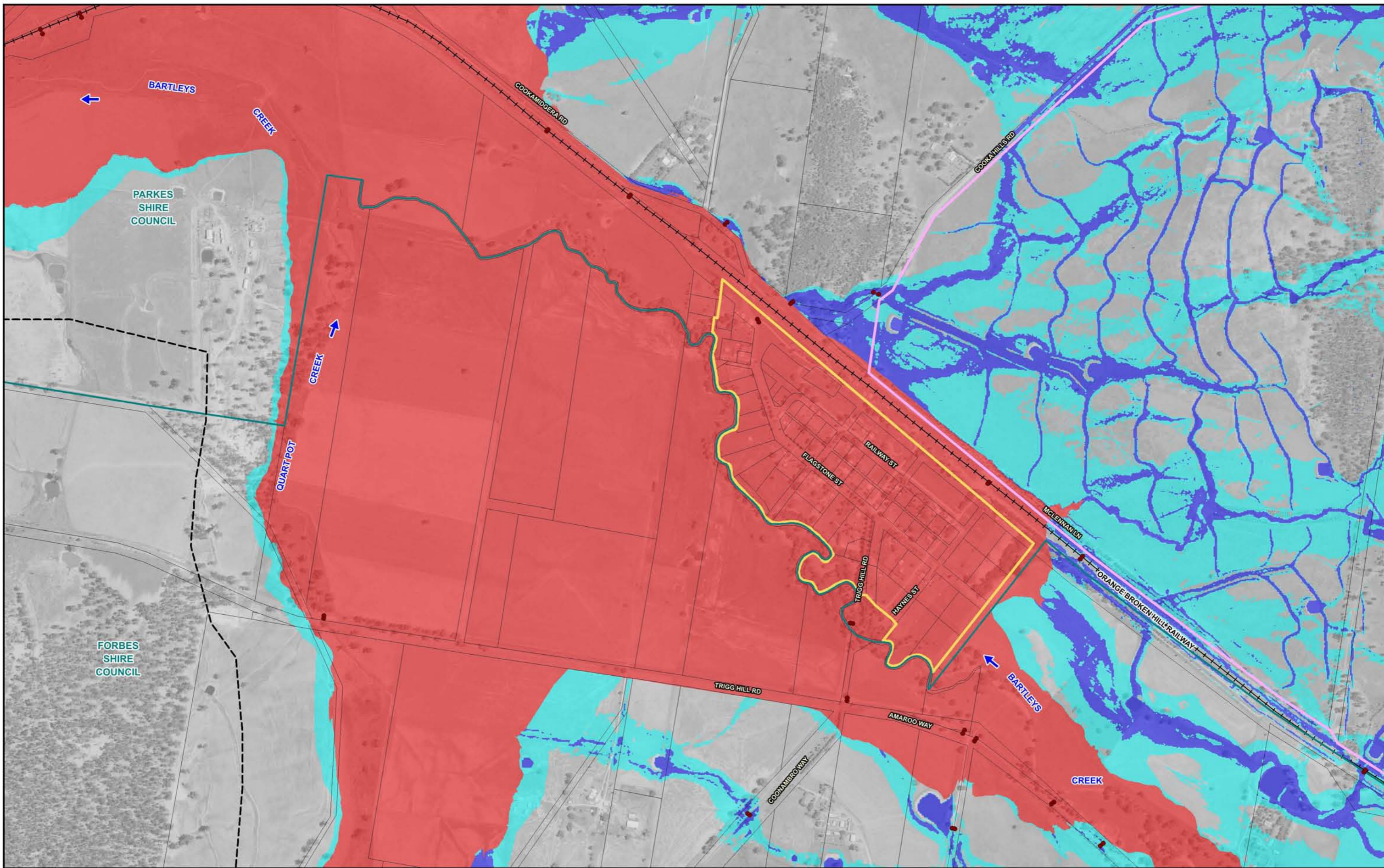
- LEGEND**
-  LGA Boundary
  -  Two-Dimensional Model Boundary
  -  Modelled Stormwater Drainage System
  -  Extent of The Cookamidgera Project
  -  Village Centre

-  1% AEP
  -  1% AEP Rainfall Increased by 10%
  -  1% AEP Rainfall Increased by 30%
- IMPACT OF INCREASED RAINFALL INTENSITIES ON EXTENT OF FLOODING**  
 1% AEP

**COOKAMIDGERA FLOOD STUDY**

Figure 6.22





**NOTE:**  
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

- Main Stream Flooding Flood Planning Area
- Outer Floodplain
- Major Overland Flow Flood Planning Area

**COOKAMIDGERA FLOOD STUDY**

Figure 6.23



DRAFT REPORT FOR PUBLIC EXHIBITION

**APPENDIX B  
DETAILS OF AVAILABLE DATA**

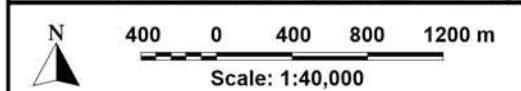
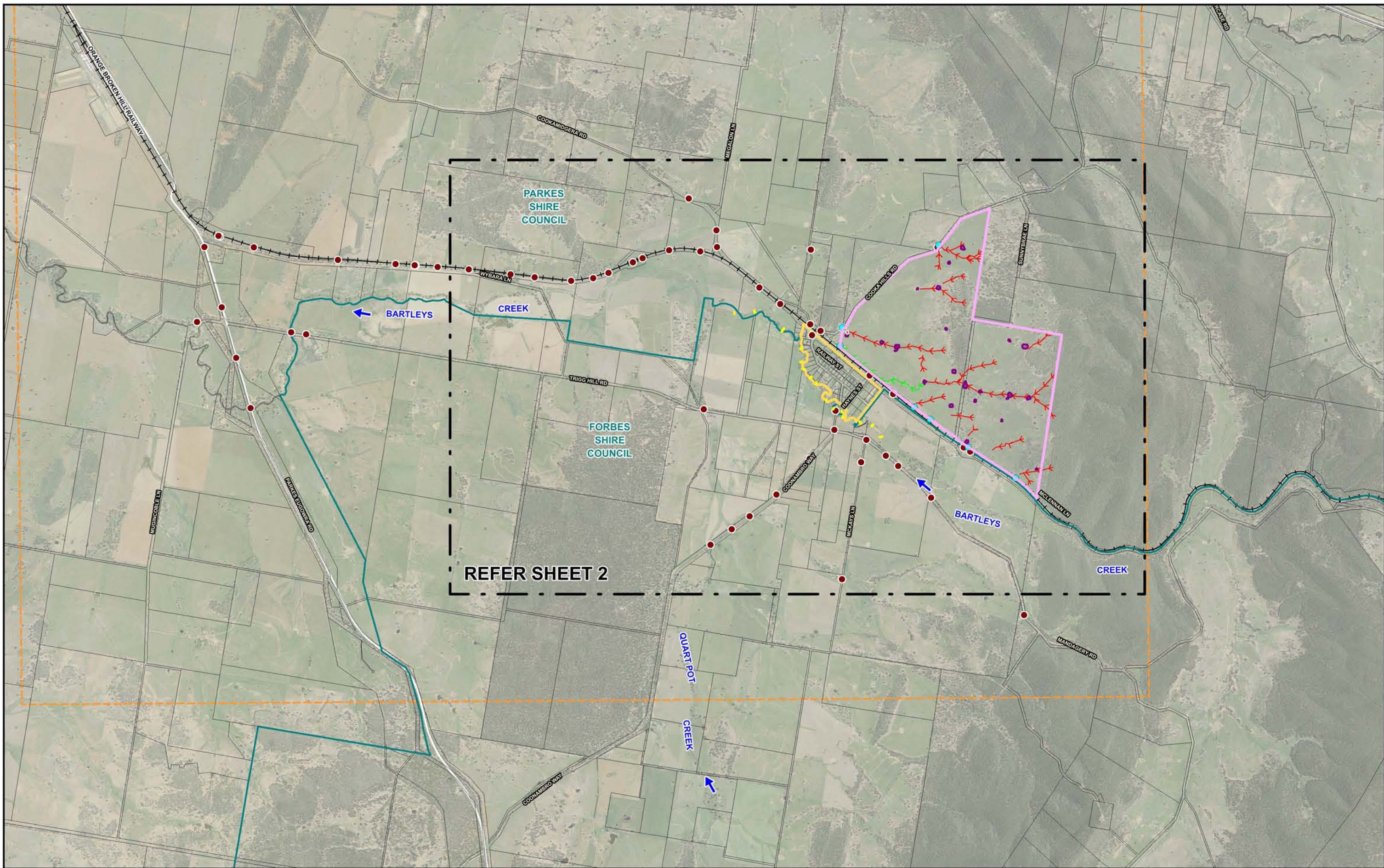


## LIST OF FIGURES (APPENDIX B)

B1.1 Location and Source of Data (2 Sheets)

DRAFT REPORT FOR PUBLIC EXHIBITION





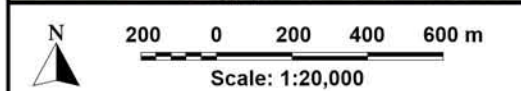
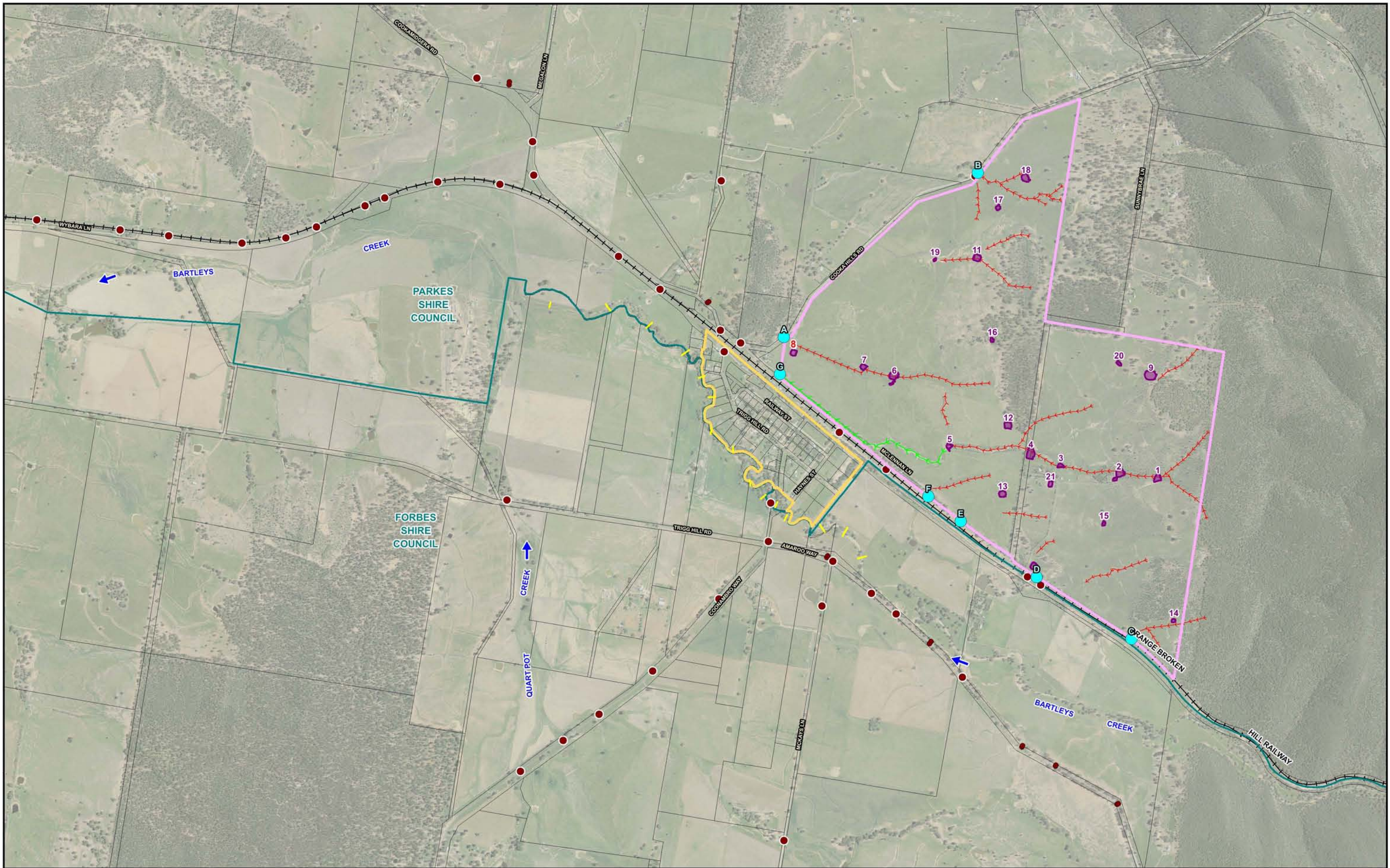
LEGEND	
	LGA Boundary
	Village Centre
	Surveyed Pipe/Box Culvert
	Surveyed Cross Section
	Extent of Cookamidgera202203 LIDAR Survey Data
	Extent of The Cookamidgera Project
	Constructed Dam
	Approximate Direction of Overland Flow
	Location that Runoff Discharges from Properties
	Remnant Channel

**COOKAMIDGERA FLOOD STUDY**

Figure B1.1  
(Sheet 1 of 2)

LOCATION AND SOURCE OF DATA





LEGEND	
	LGA Boundary
	Village Centre
	Surveyed Pipe/Box Culvert
	Surveyed Cross Section
	Extent of The Cookamidgera Project
	Constructed Dam and Identifier
	Approximate Direction of Overland Flow
	Location that Runoff Discharges from Properties and Identifier
	Remnant Channel

**COOKAMIDGERA FLOOD STUDY**

Figure B1.1  
(Sheet 2 of 2)

LOCATION AND SOURCE OF DATA



DRAFT REPORT FOR PUBLIC EXHIBITION

**APPENDIX H**  
**DESIGN MAXIMUM FLOW VELOCITY MAPS**

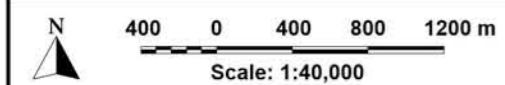
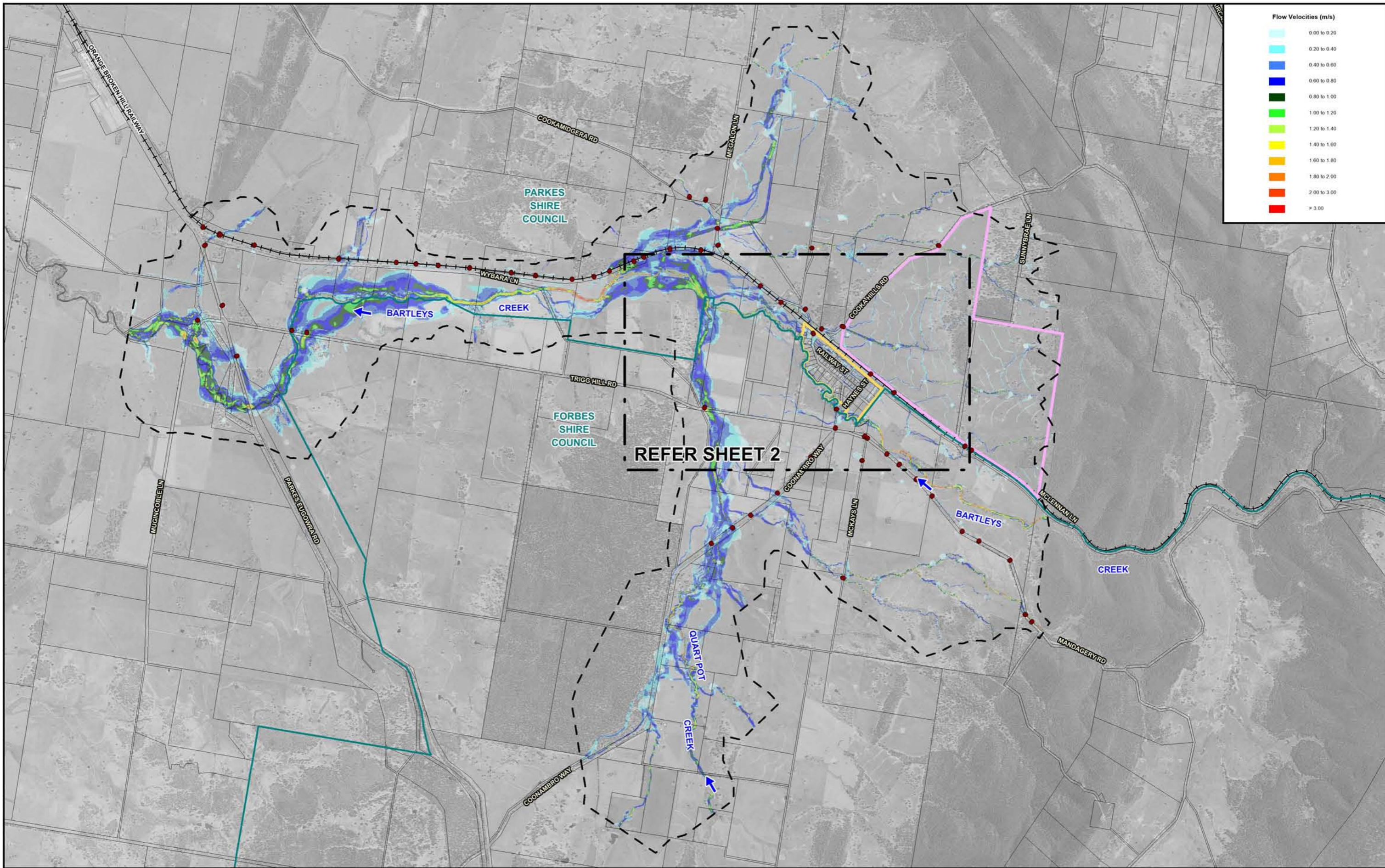


## LIST OF FIGURES (APPENDIX H)

- H1.1. Maximum Flow Velocities – 20% AEP (2 Sheets)
- H1.2. Maximum Flow Velocities – 10% AEP (2 Sheets)
- H1.3. Maximum Flow Velocities – 5% AEP (2 Sheets)
- H1.4. Maximum Flow Velocities – 2% AEP (2 Sheets)
- H1.5. Maximum Flow Velocities – 1% AEP (2 Sheets)
- H1.6. Maximum Flow Velocities – 0.5% AEP (2 Sheets)
- H1.7. Maximum Flow Velocities – 0.2% AEP (2 Sheets)
- H1.8. Maximum Flow Velocities – PMF (2 Sheets)

DRAFT REPORT FOR PUBLIC EXHIBITION





**NOTE:**  
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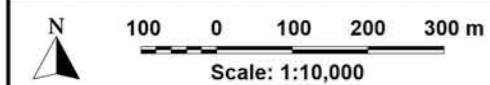
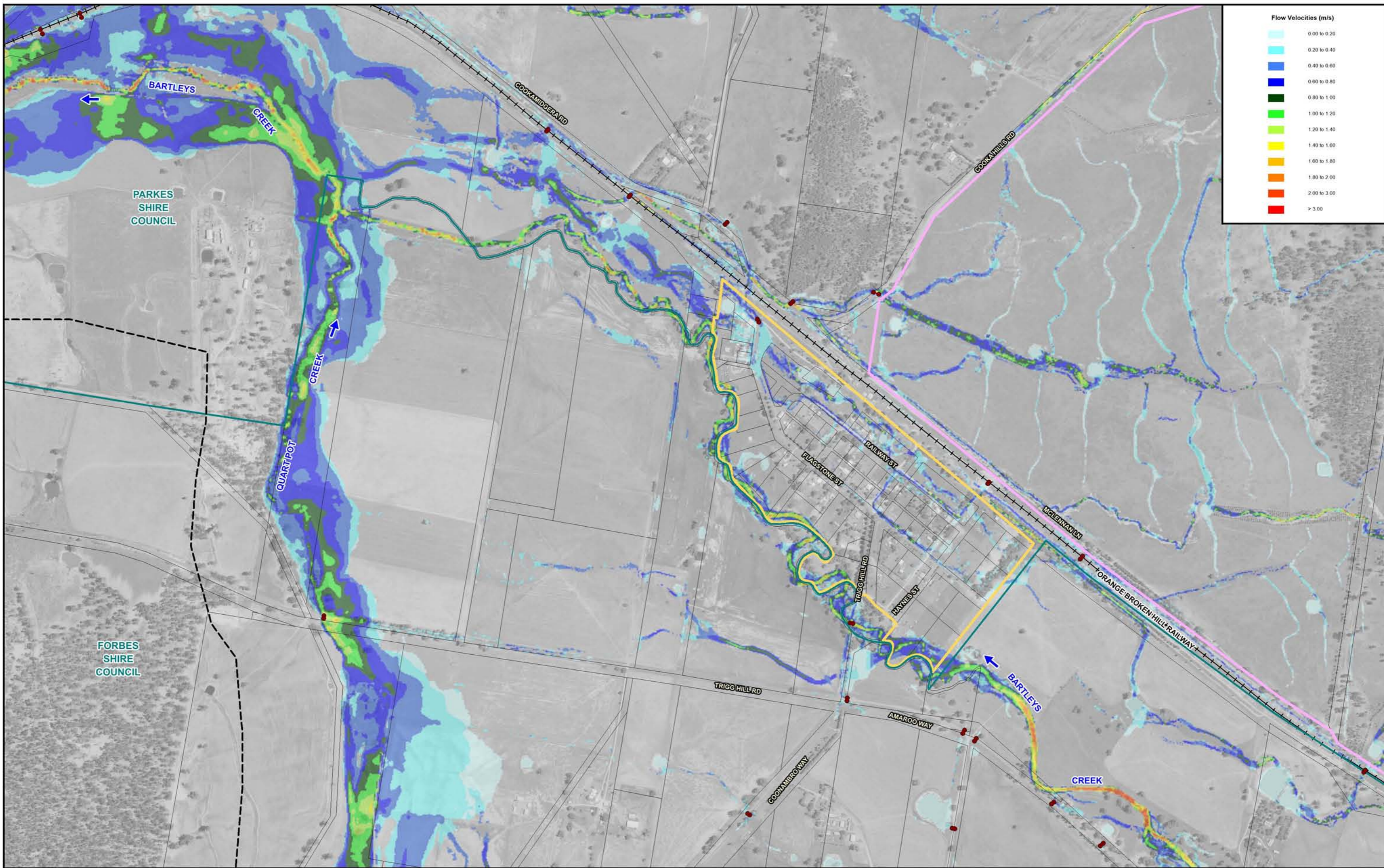
- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**



Figure H1.1  
(Sheet 1 of 2)  
**MAXIMUM FLOW VELOCITIES**  
20% AEP





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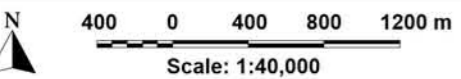
- LEGEND**
- LGA Boundary
  - - - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**Lyall & Associates**

**COOKAMIDGERA FLOOD STUDY**

Figure H1.1  
 (Sheet 2 of 2)  
**MAXIMUM FLOW VELOCITIES  
 20% AEP**





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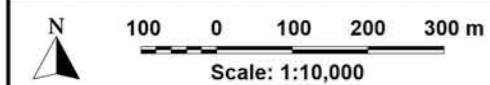
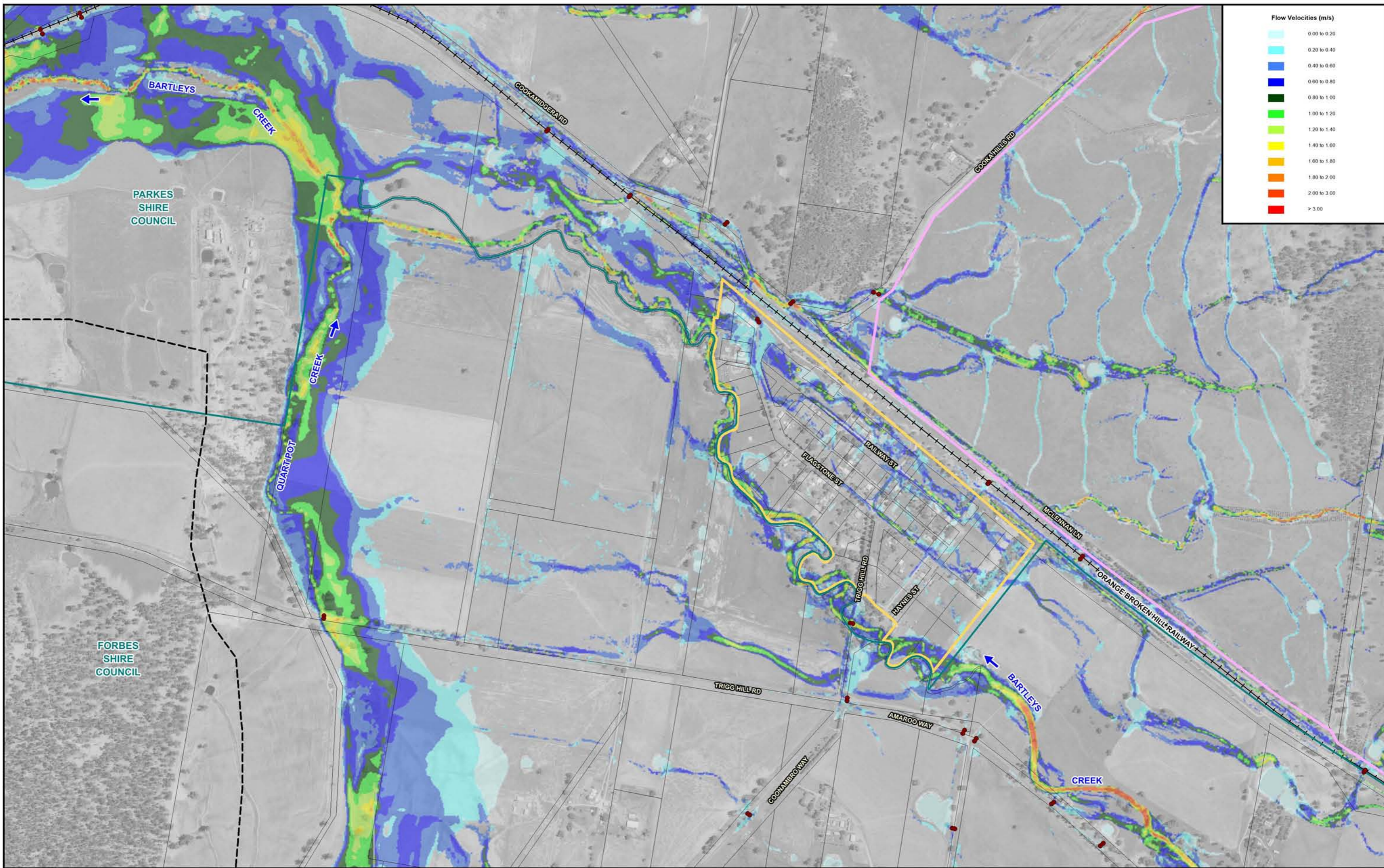
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**





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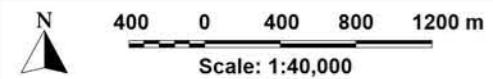
- LEGEND**
- LGA Boundary
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  - Extent of The Cookamidgera Project
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**COOKAMIDGERA FLOOD STUDY**





REFER SHEET 2



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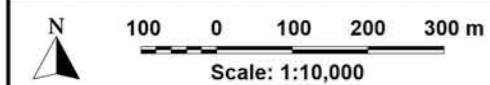
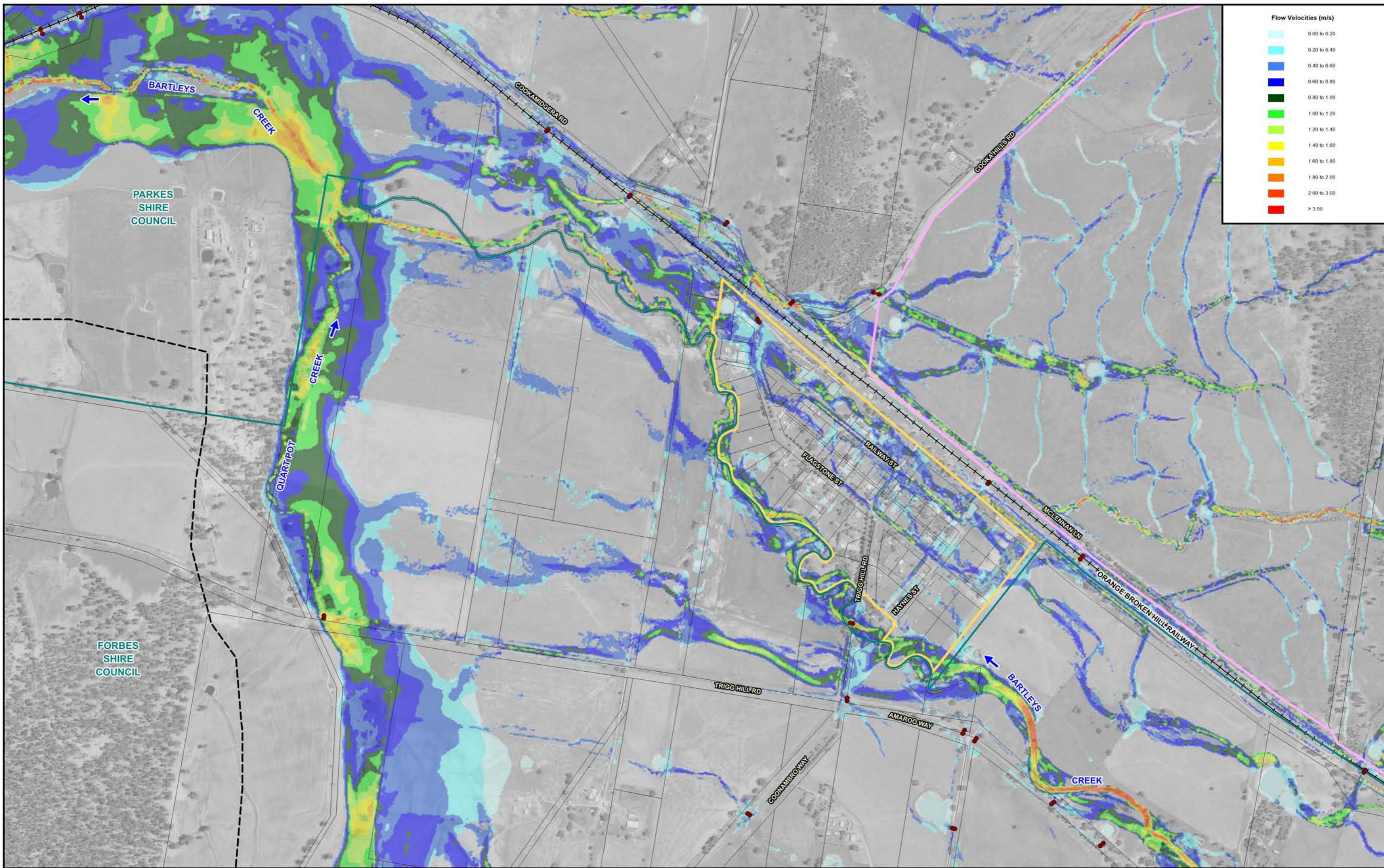
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**





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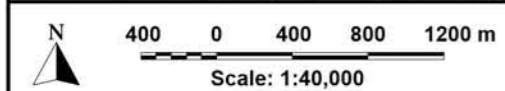
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**





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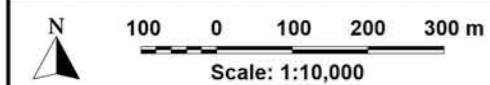
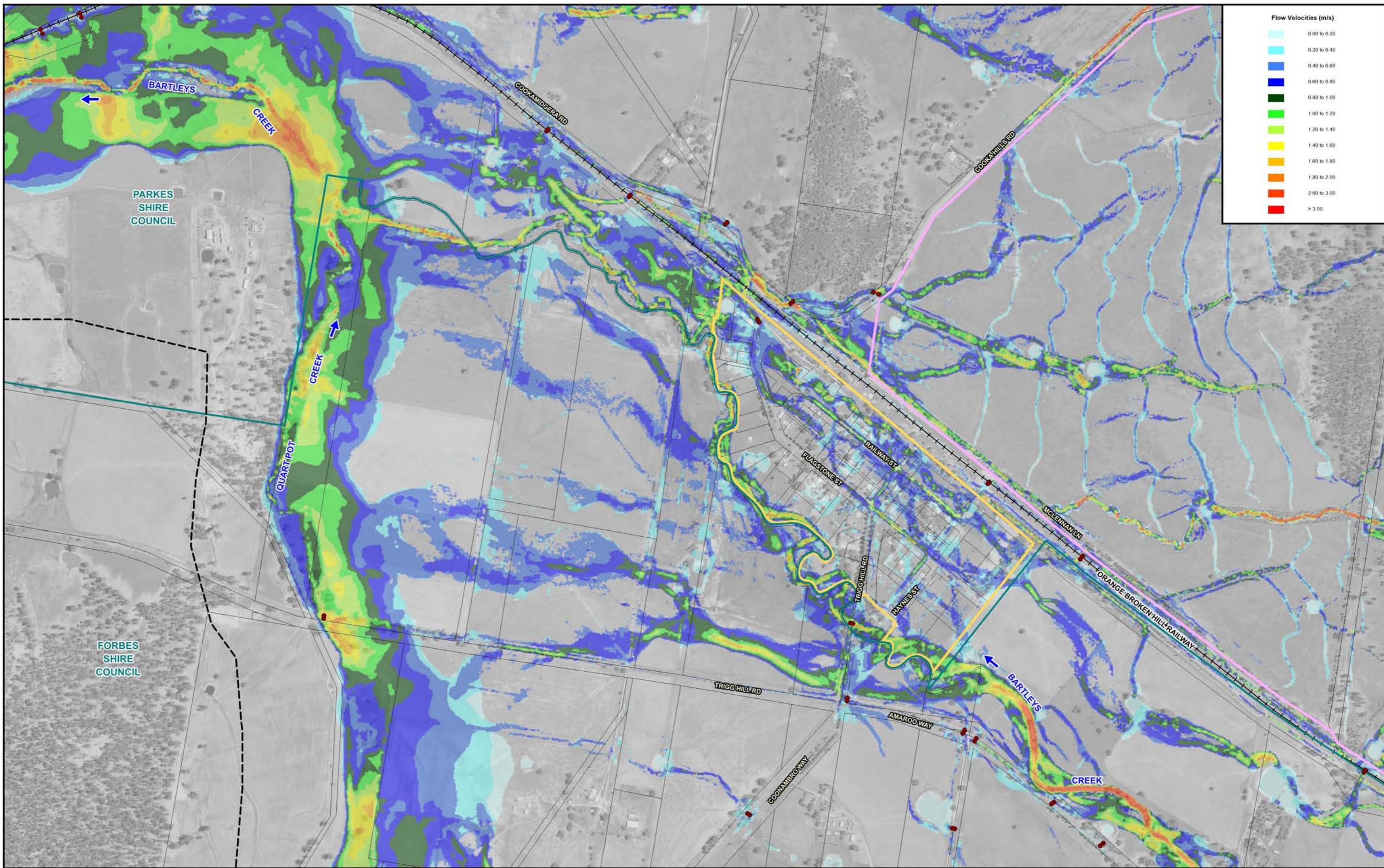
- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**



Figure H1.4  
 (Sheet 1 of 2)  
**MAXIMUM FLOW VELOCITIES**  
 2% AEP





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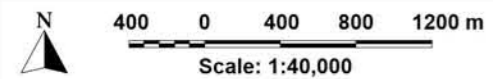
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**





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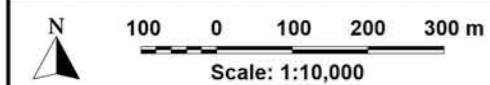
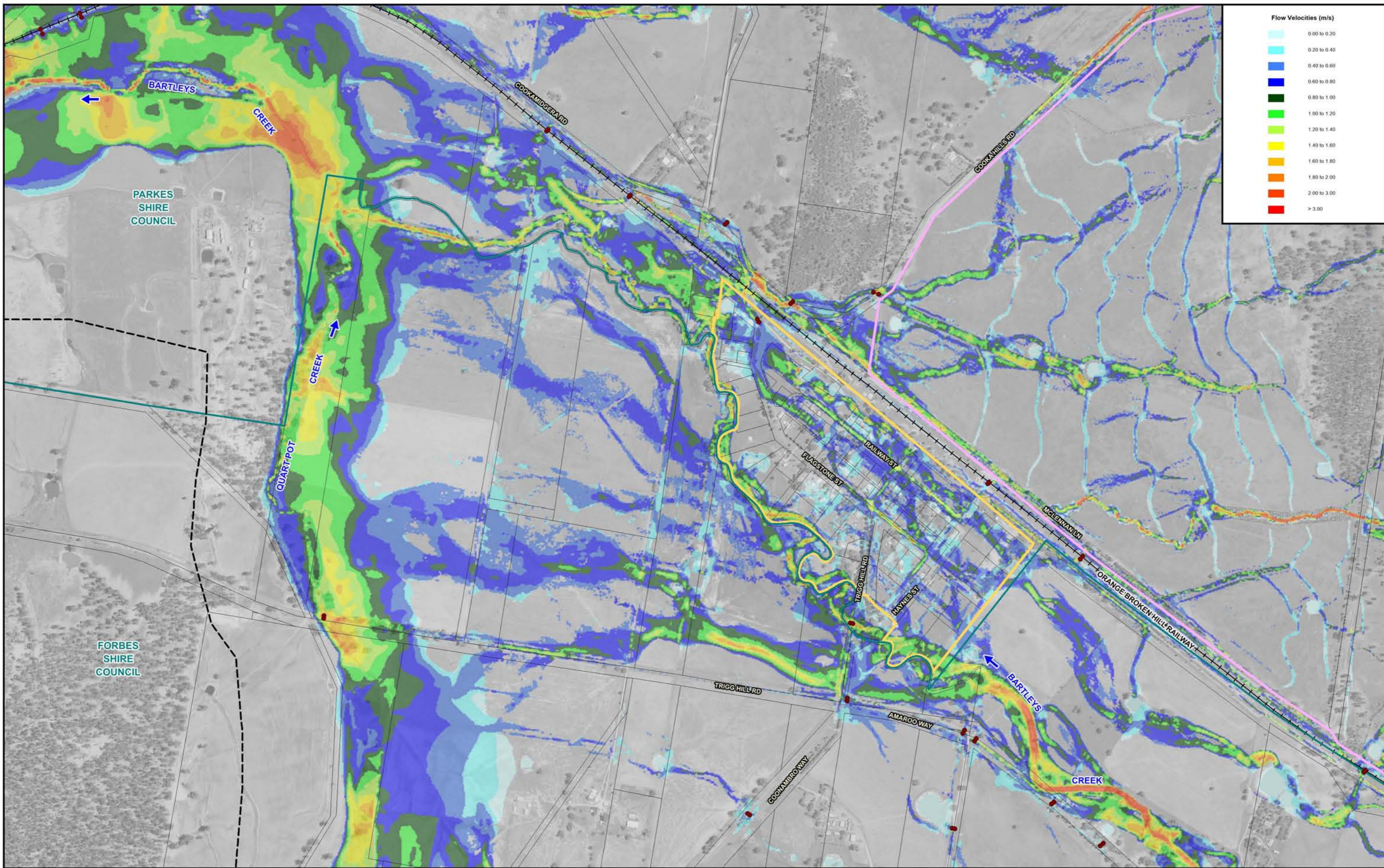
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**





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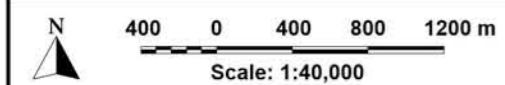
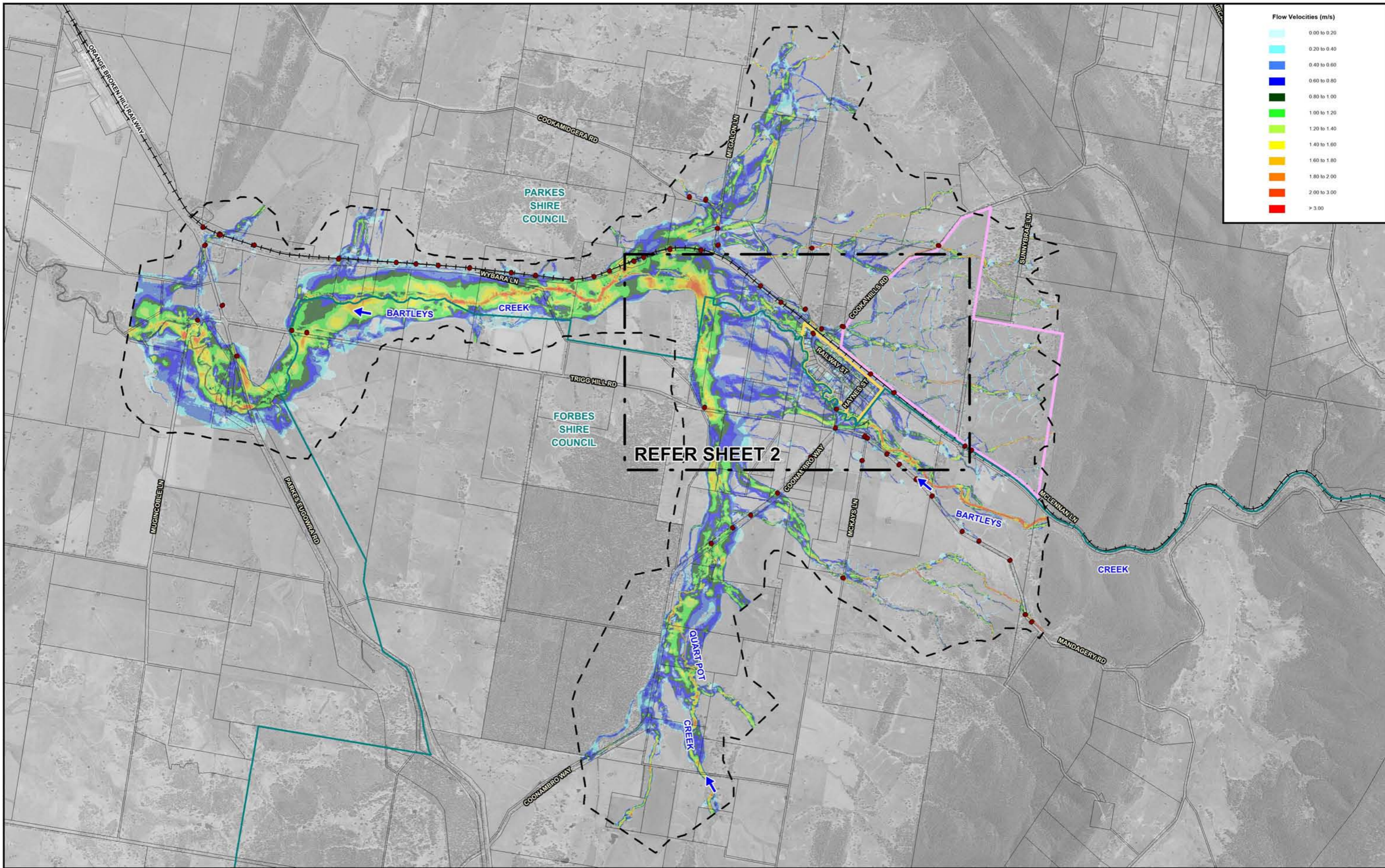
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- LEGEND**
- LGA Boundary
  - - - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**





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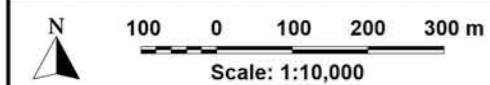
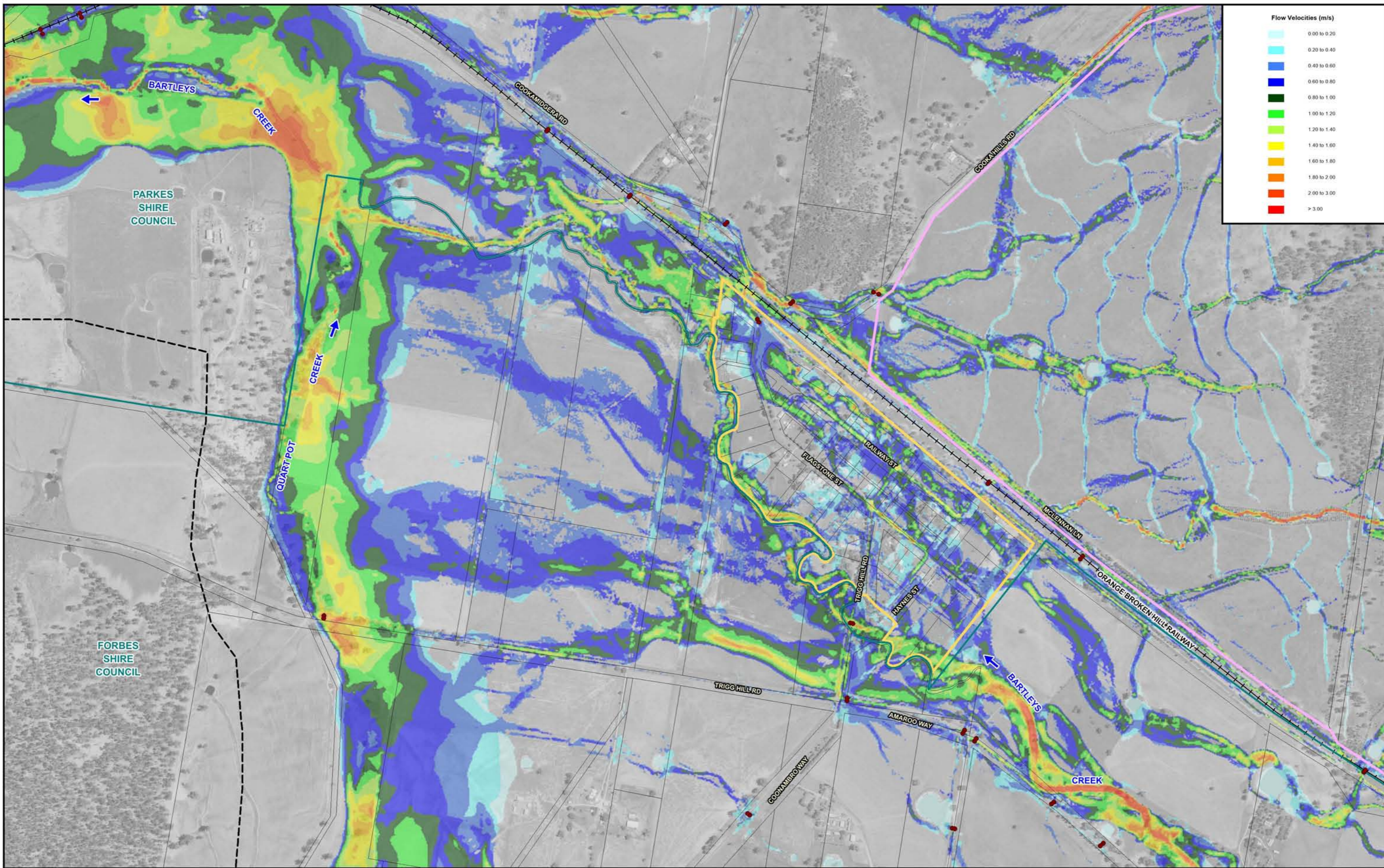
- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre



**COOKAMIDGERA FLOOD STUDY**

Figure H1.6  
(Sheet 1 of 2)  
**MAXIMUM FLOW VELOCITIES**  
0.5% AEP





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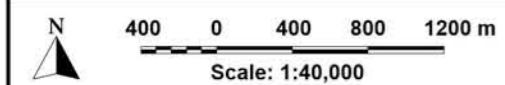
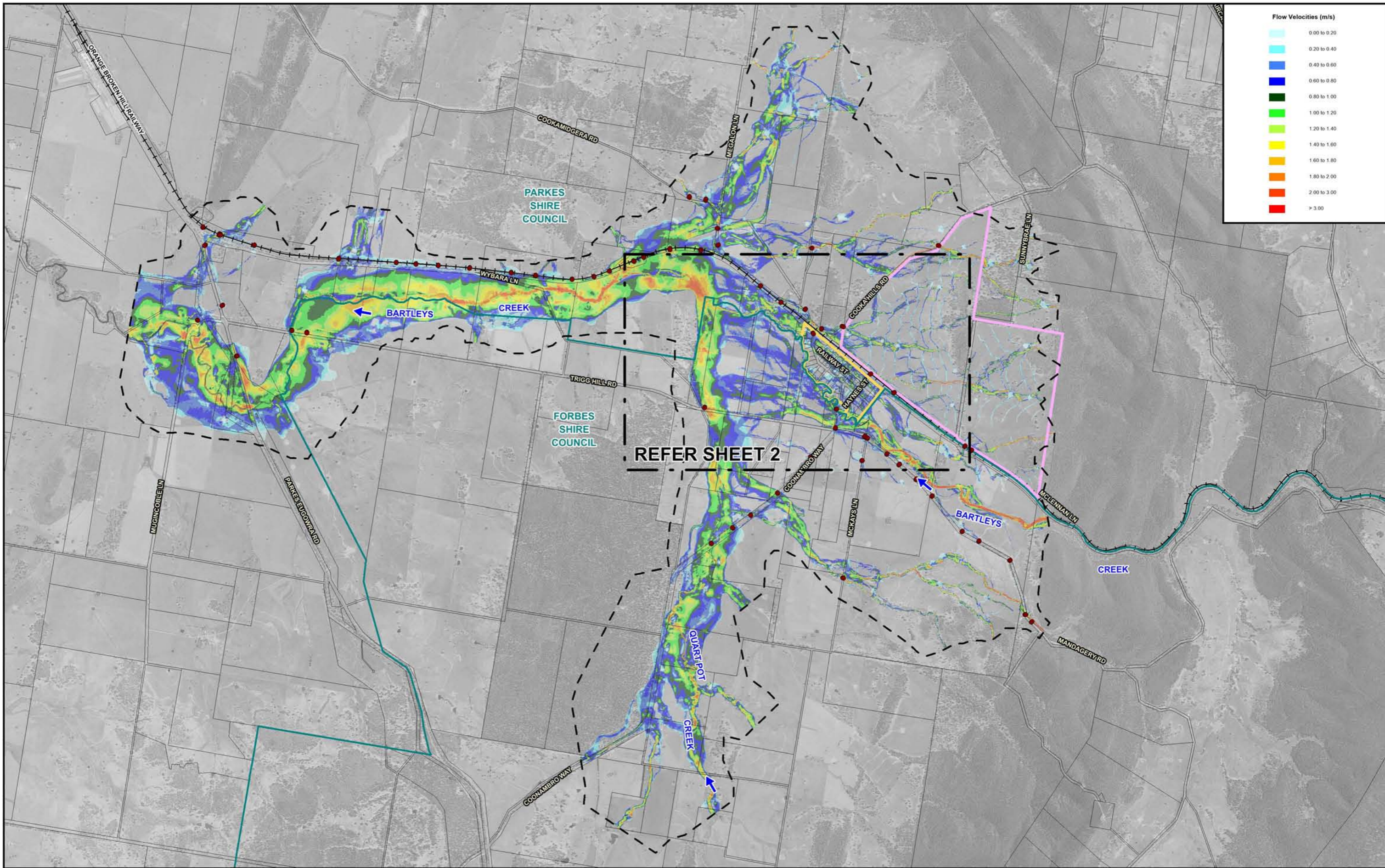
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- LEGEND**
- LGA Boundary
  - - - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**





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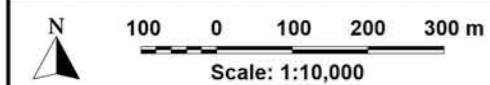
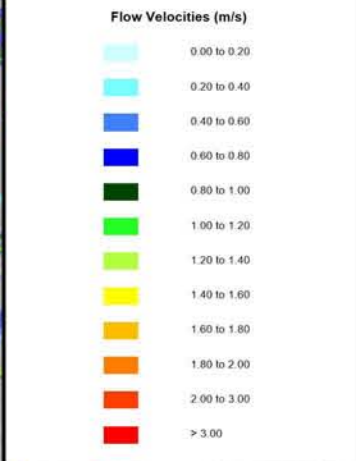
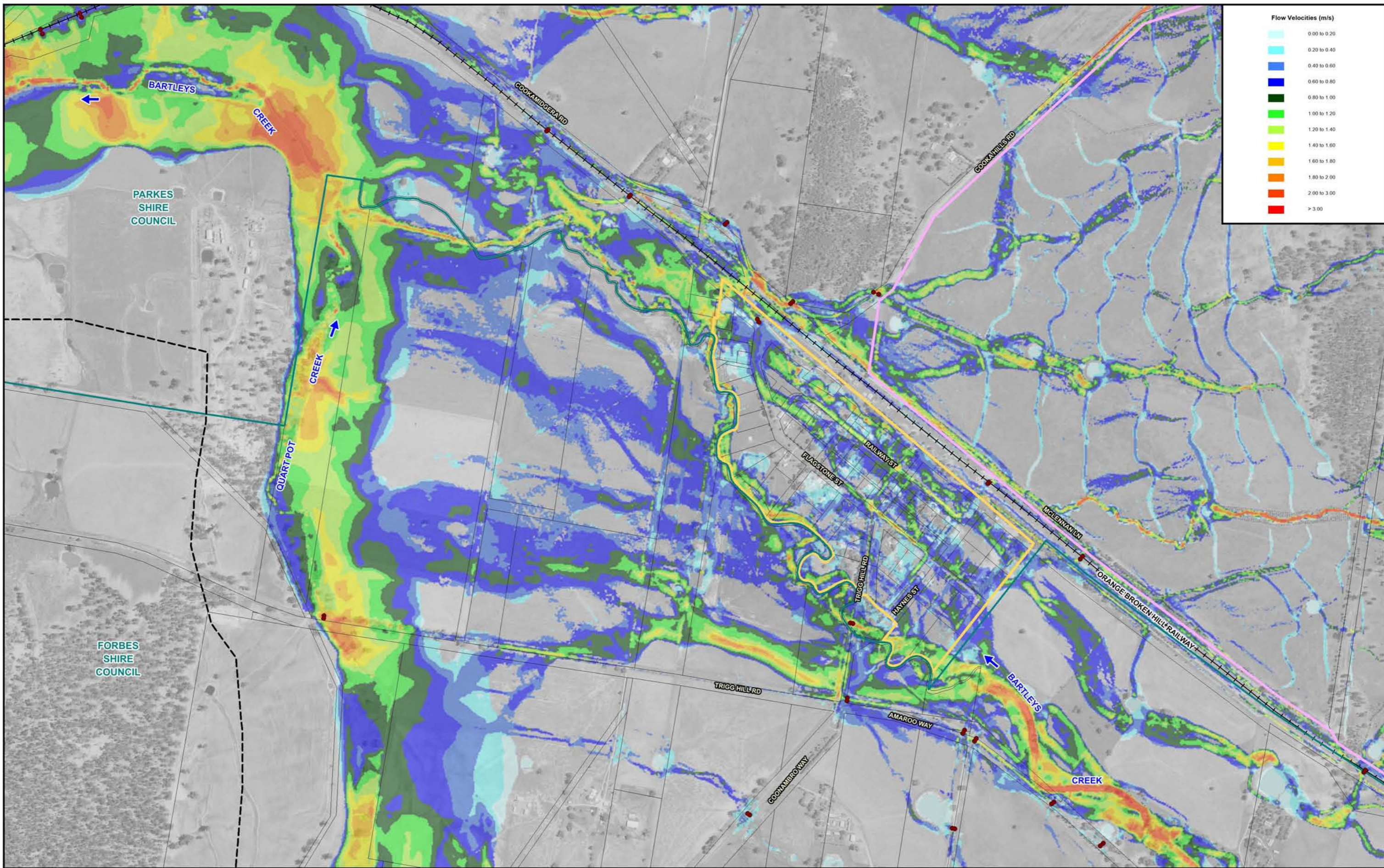
- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**



Figure H1.7  
(Sheet 1 of 2)  
**MAXIMUM FLOW VELOCITIES**  
0.2% AEP





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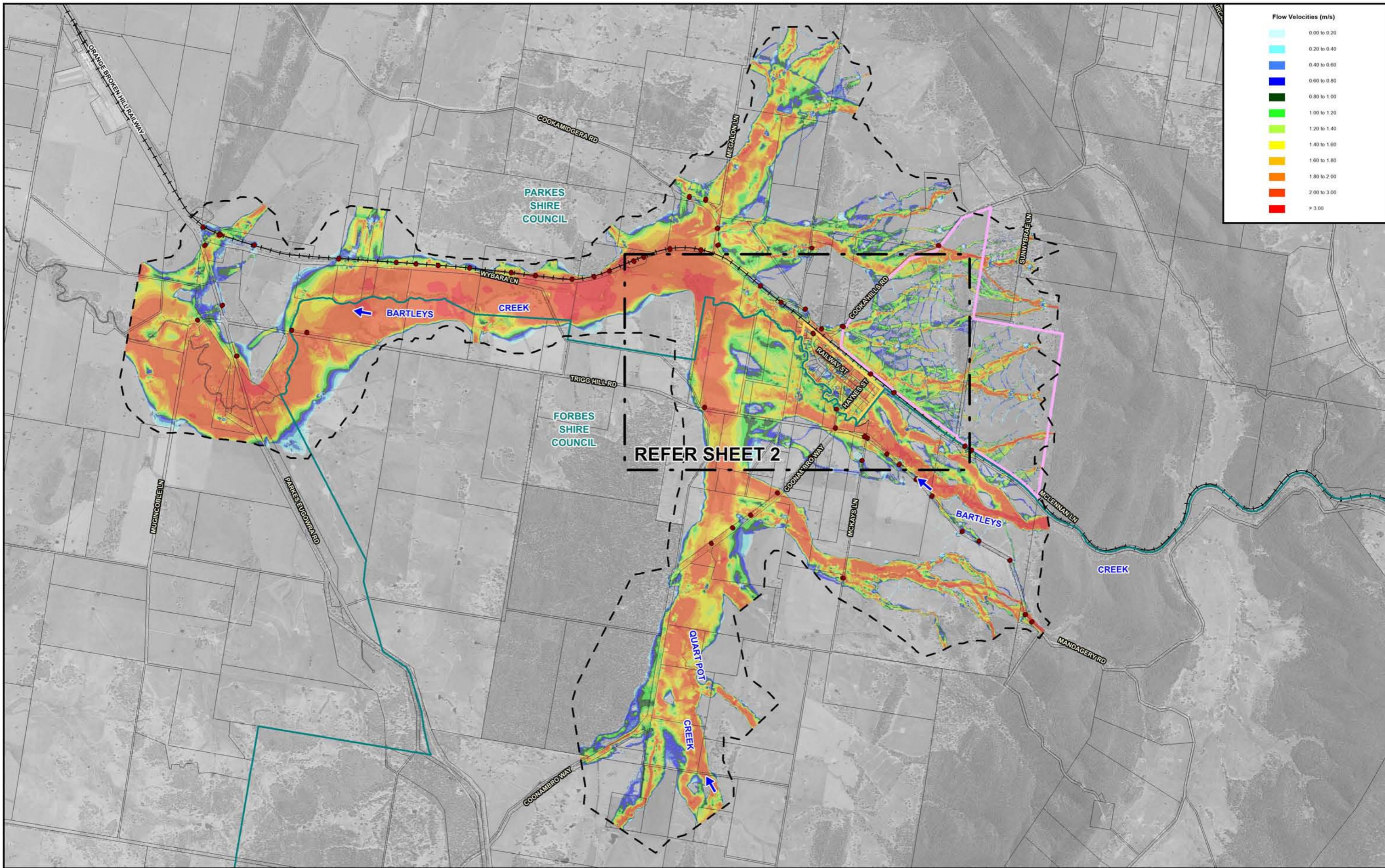
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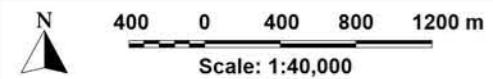
- LEGEND**
- LGA Boundary
  - - - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**





REFER SHEET 2



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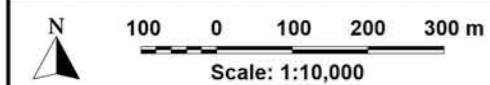
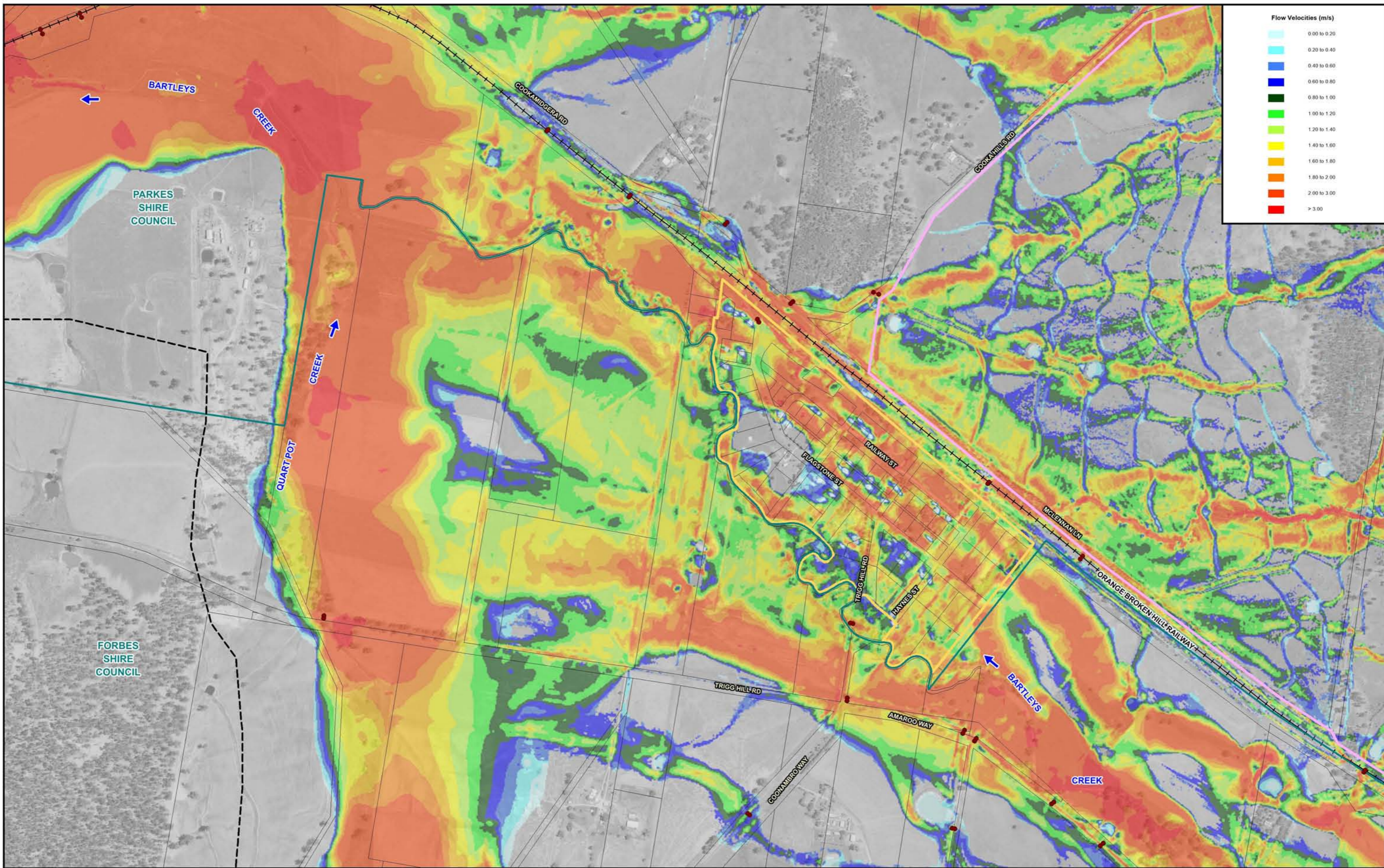
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- LEGEND**
- LGA Boundary
  - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidgera Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**





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The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 3 m (min) grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

Flood depths are therefore approximate only and require interpretation by a suitably qualified engineer to determine flooding behaviour in individual allotments. Any assessment of flooding in individual allotments may also require a site survey.

The allotment boundaries shown are based on the NSW State Database obtained from the Six Maps online database and may not represent the true property boundaries in the study area.

- LEGEND**
- LGA Boundary
  - - - Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System
  - Extent of The Cookamidge Project
  - Village Centre

**COOKAMIDGERA FLOOD STUDY**