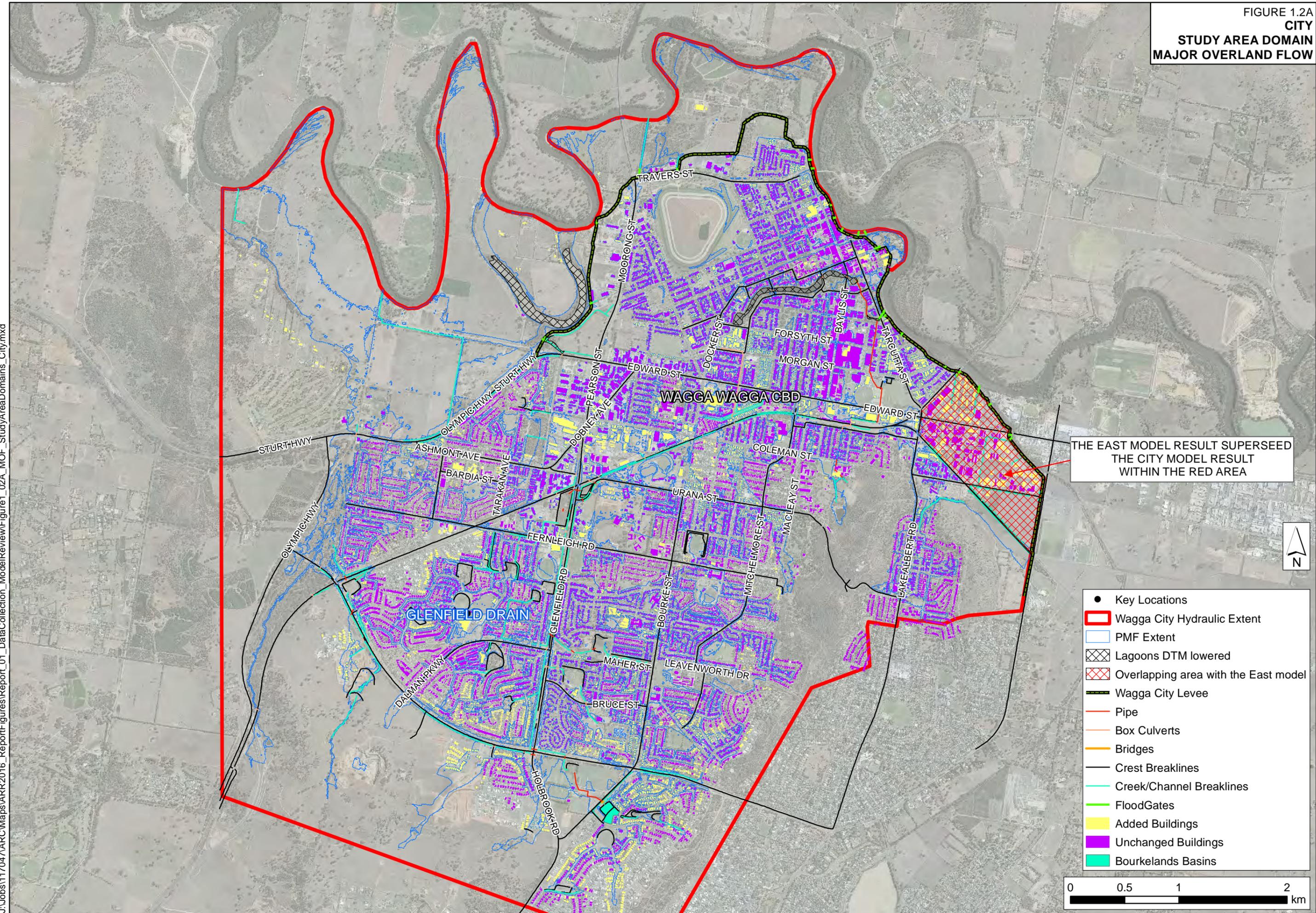


FIGURE 1.2A  
CITY  
STUDY AREA DOMAIN  
MAJOR OVERLAND FLOW



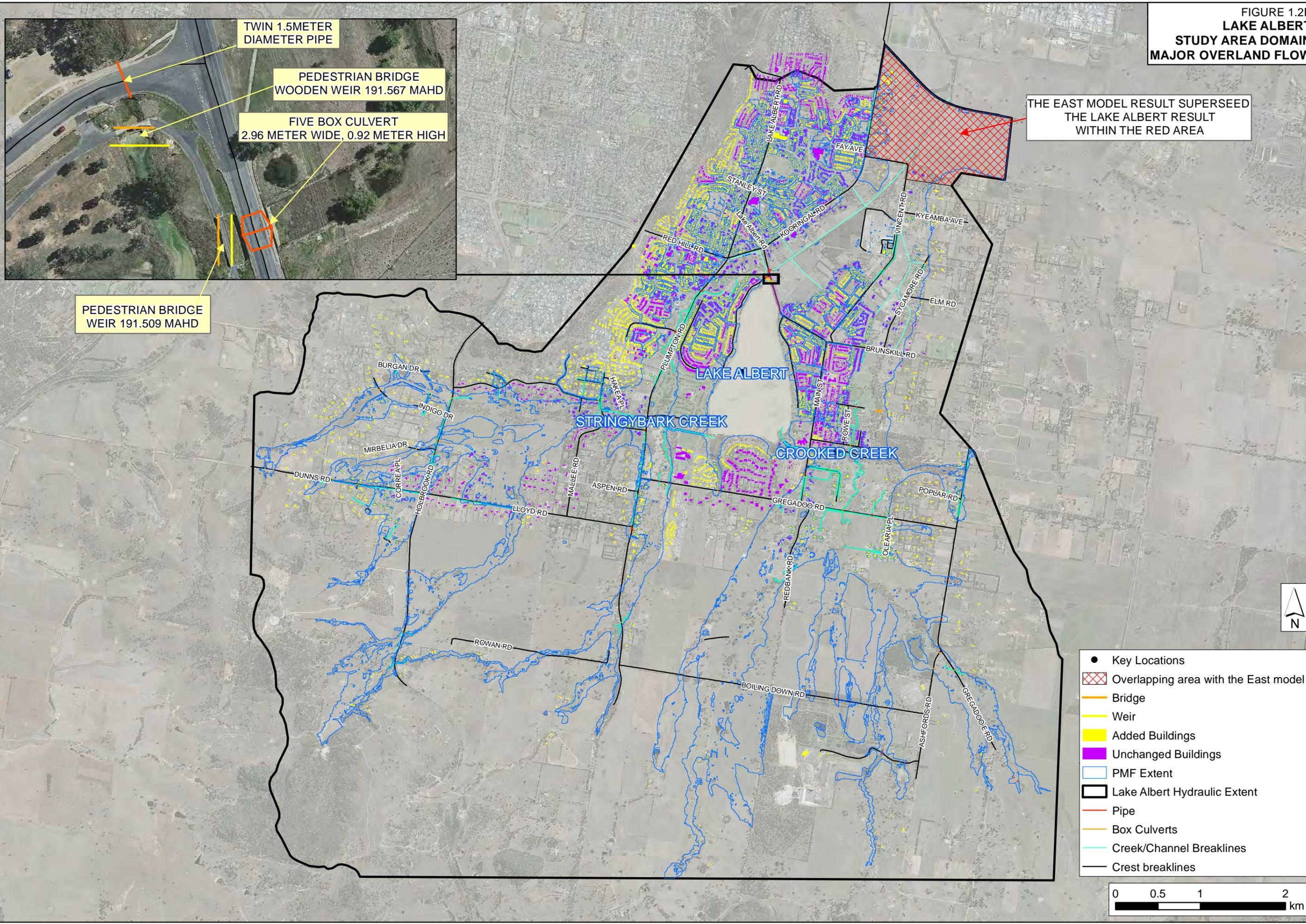
THE EAST MODEL RESULT SUPERSEED THE CITY MODEL RESULT WITHIN THE RED AREA



- Key Locations
- ▭ Wagga City Hydraulic Extent
- ▭ PMF Extent
- ▭ Lagoons DTM lowered
- ▭ Overlapping area with the East model
- ▬ Wagga City Levee
- ▬ Pipe
- ▬ Box Culverts
- ▬ Bridges
- ▬ Crest Breaklines
- ▬ Creek/Channel Breaklines
- ▬ FloodGates
- ▭ Added Buildings
- ▭ Unchanged Buildings
- ▭ Bourkelands Basins



FIGURE 1.2B  
LAKE ALBERT  
STUDY AREA DOMAIN  
MAJOR OVERLAND FLOW



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FIGURE 1.2C  
**WAGGA EAST**  
**STUDY AREA DOMAIN**  
**MAJOR OVERLAND FLOW**

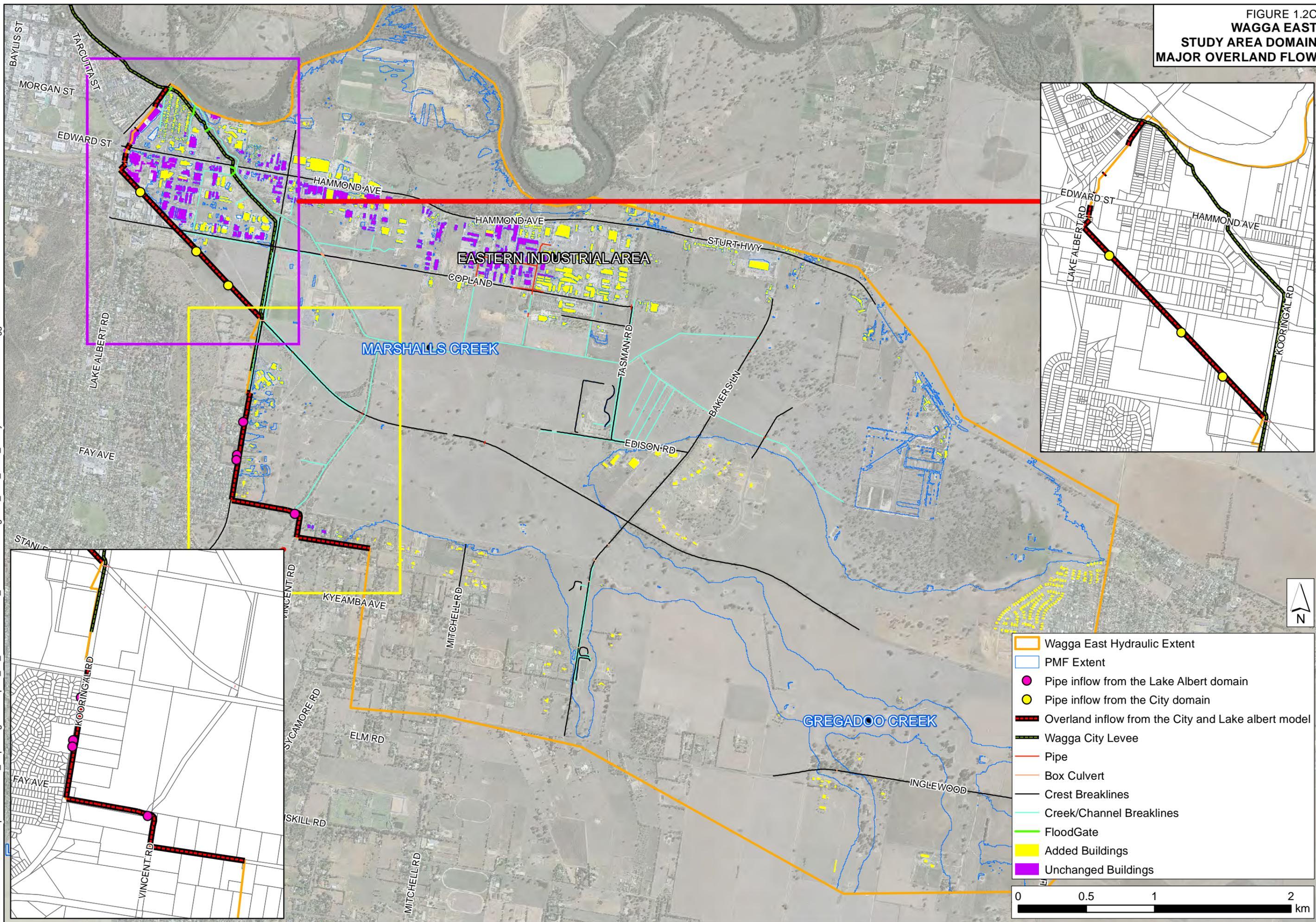
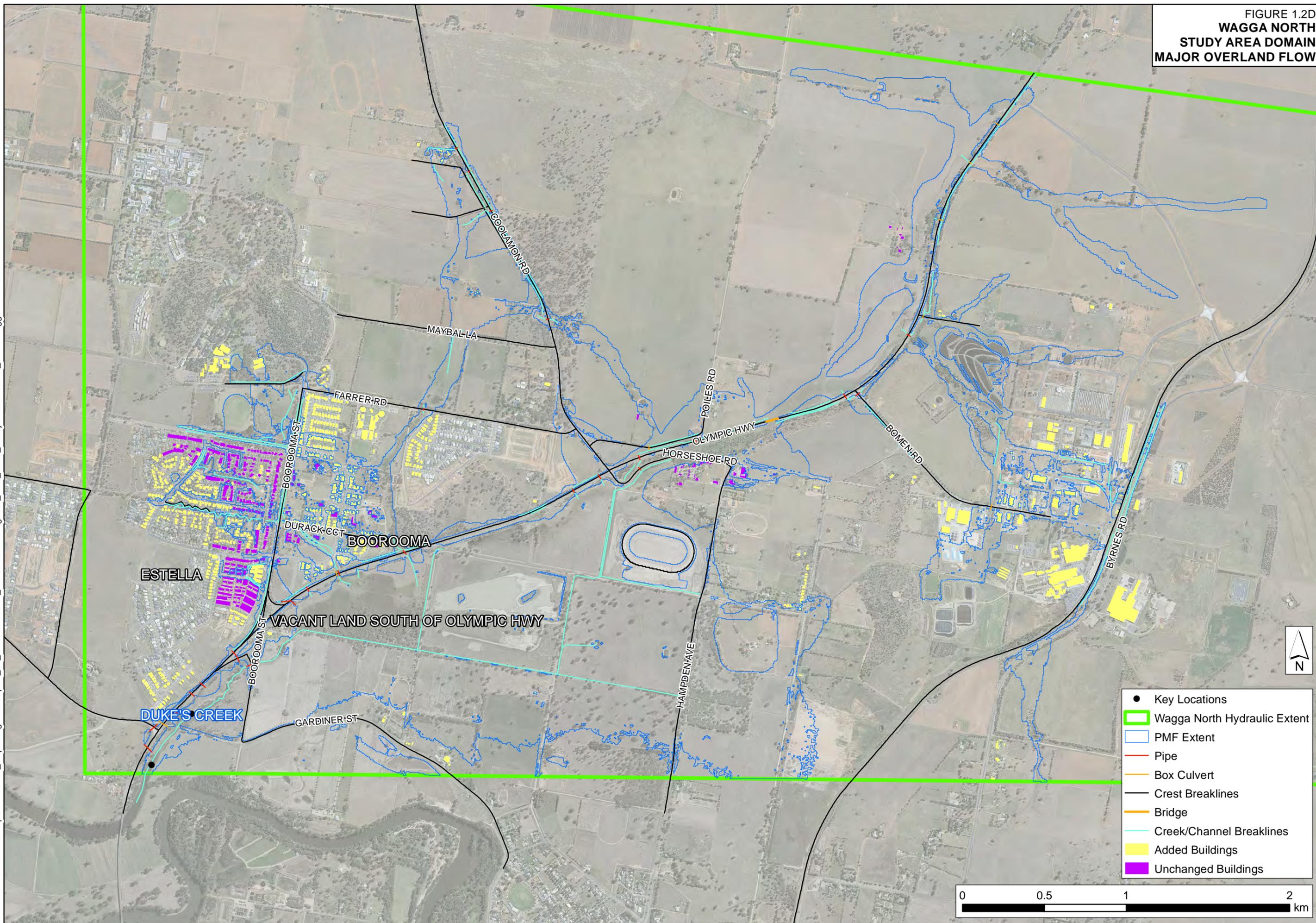


FIGURE 1.2D  
**WAGGA NORTH**  
**STUDY AREA DOMAIN**  
**MAJOR OVERLAND FLOW**

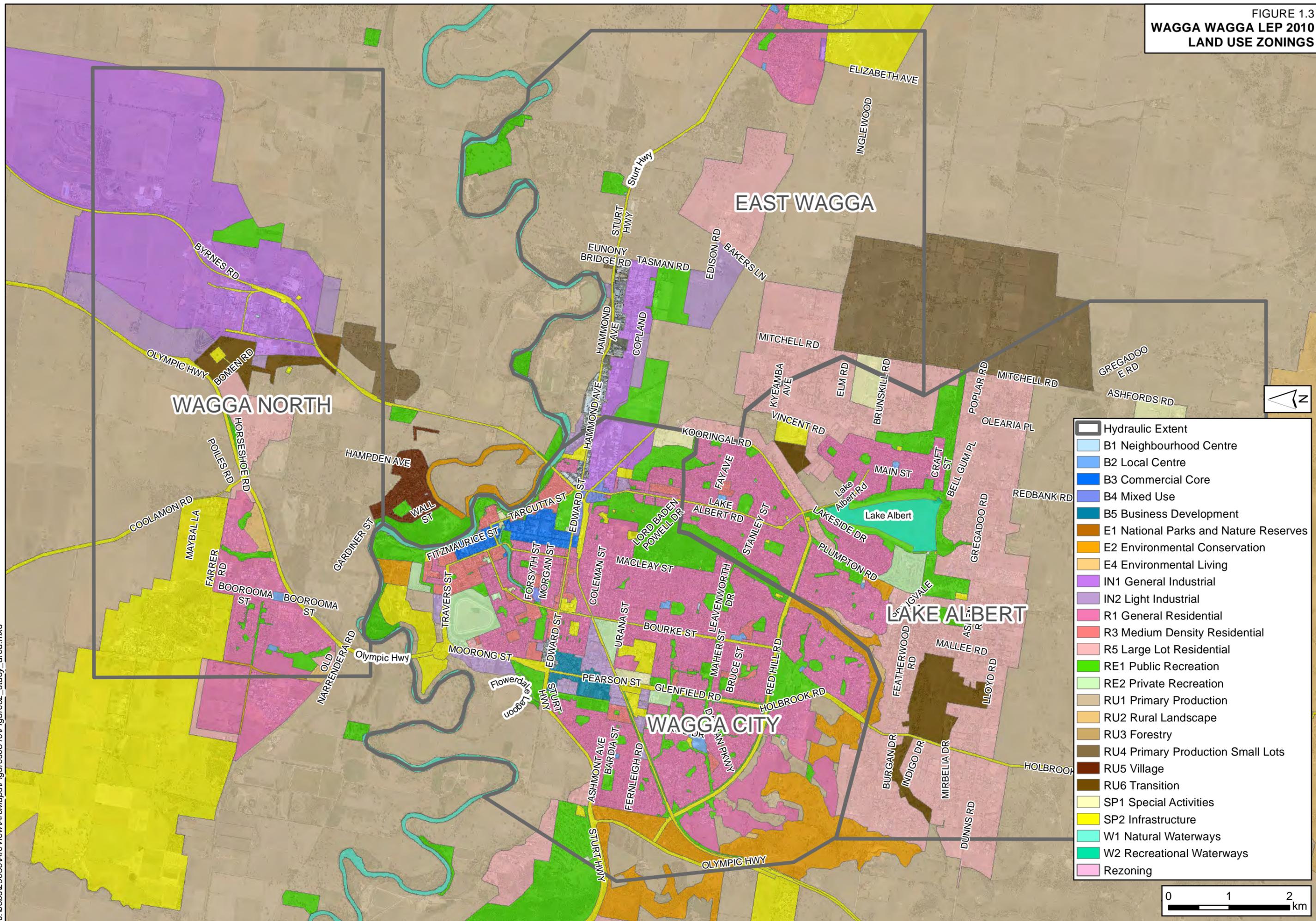
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- Key Locations
- ▭ Wagga North Hydraulic Extent
- ▭ PMF Extent
- Pipe
- Box Culvert
- Crest Breaklines
- Bridge
- Creek/Channel Breaklines
- Added Buildings
- Unchanged Buildings

0 0.5 1 2 km

FIGURE 1.3  
**WAGGA WAGGA LEP 2010  
 LAND USE ZONINGS**



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FIGURE 1.4  
SITE INSPECTION PHOTOGRAPHS



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-  Site Inspection Locations
-  Wagga North Hydraulic Extent
-  East Wagga Hydraulic Extent
-  Lake Albert Hydraulic Extent
-  Wagga City Hydraulic Extent

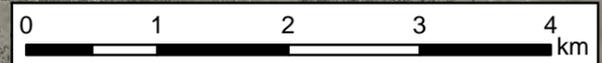
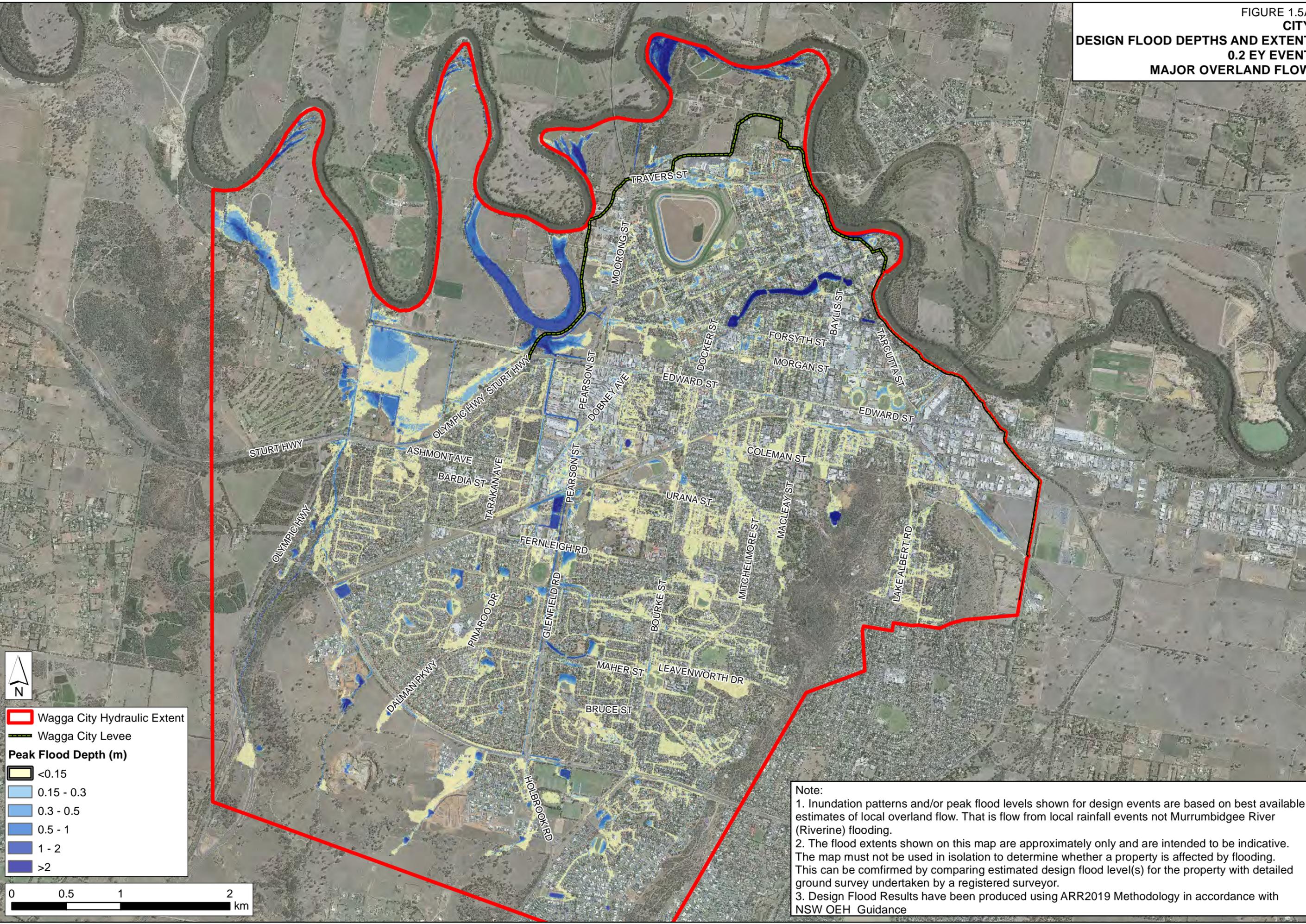


FIGURE 1.5A  
**CITY**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.2 EY EVENT**  
**MAJOR OVERLAND FLOW**



Wagga City Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 <0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 >2

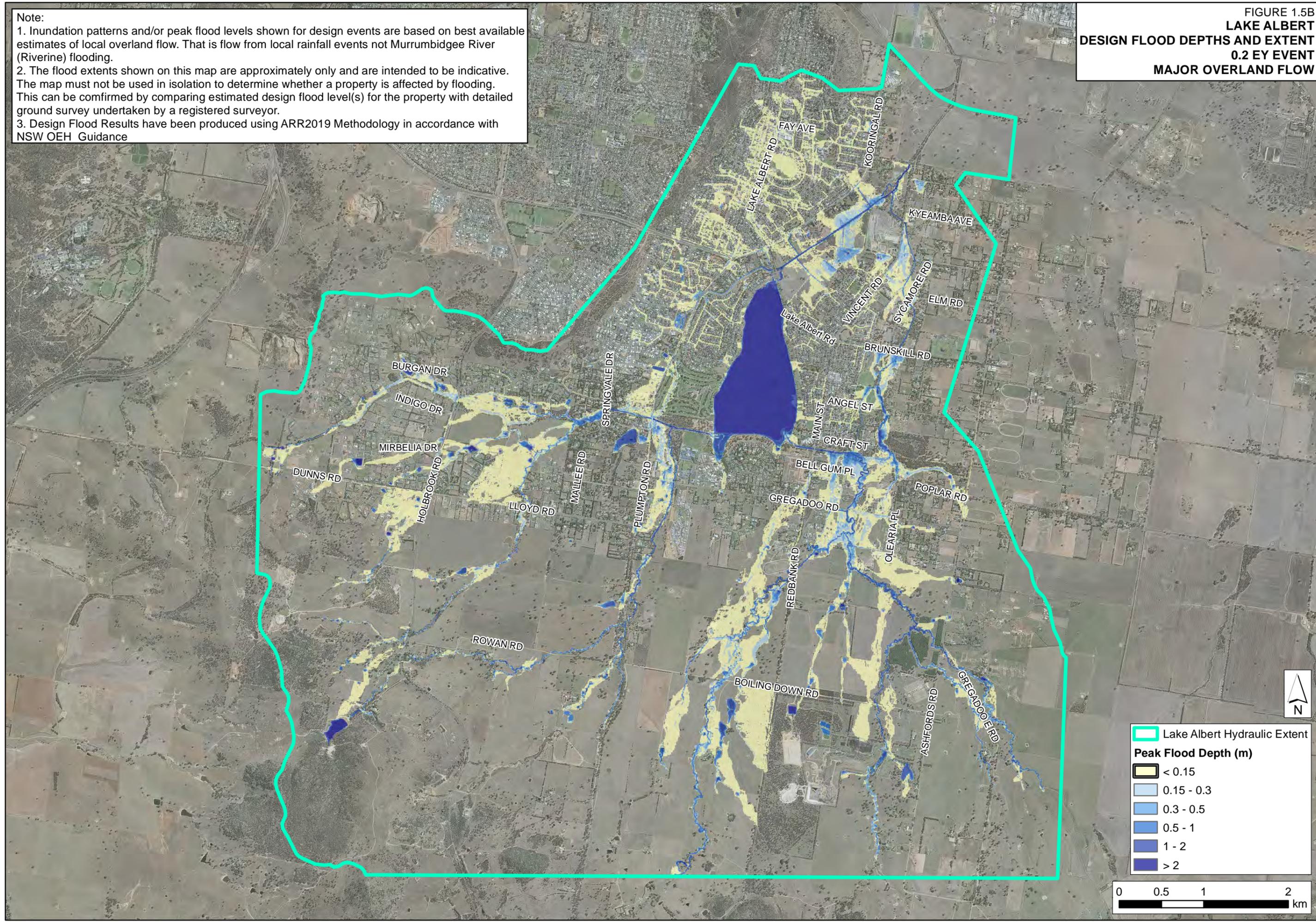
**Note:**

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.5B  
**LAKE ALBERT**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.2 EY EVENT**  
**MAJOR OVERLAND FLOW**



**Legend**

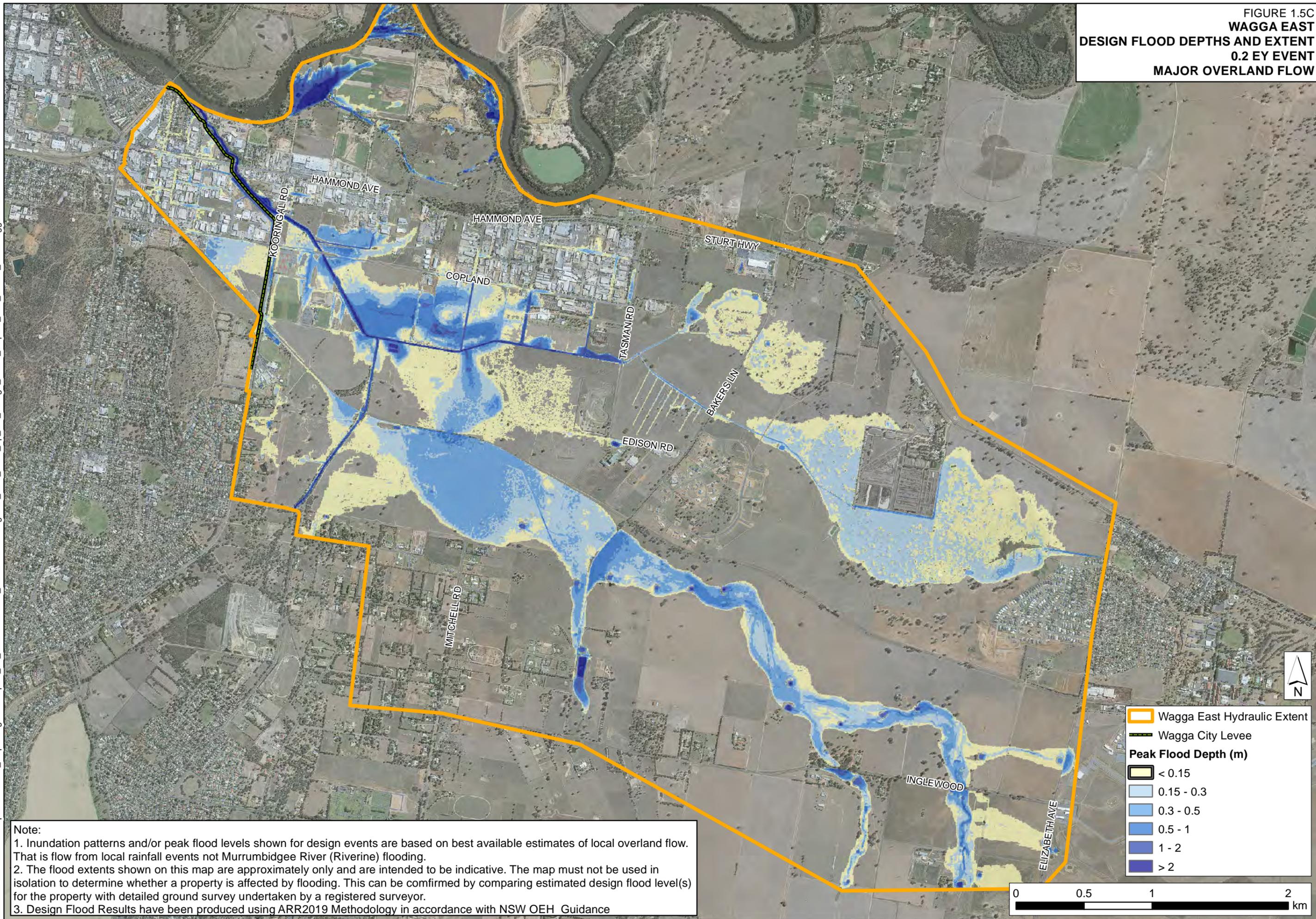
- Lake Albert Hydraulic Extent

**Peak Flood Depth (m)**

- < 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- > 2

0 0.5 1 2 km

FIGURE 1.5C  
 WAGGA EAST  
 DESIGN FLOOD DEPTHS AND EXTENT  
 0.2 EY EVENT  
 MAJOR OVERLAND FLOW



J:\Jobs\17047\ARCMaps\ARR2016\_ReportFigures\Report\_01\_DataCollection\_ModelReview\Figure1\_05C\_MOF\_2p\_EY\_Design\_Flood\_Depths\_and\_Extent\_EastWagga.mxd

Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga East Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

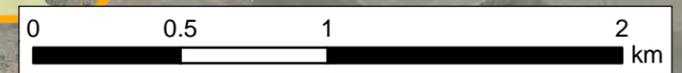
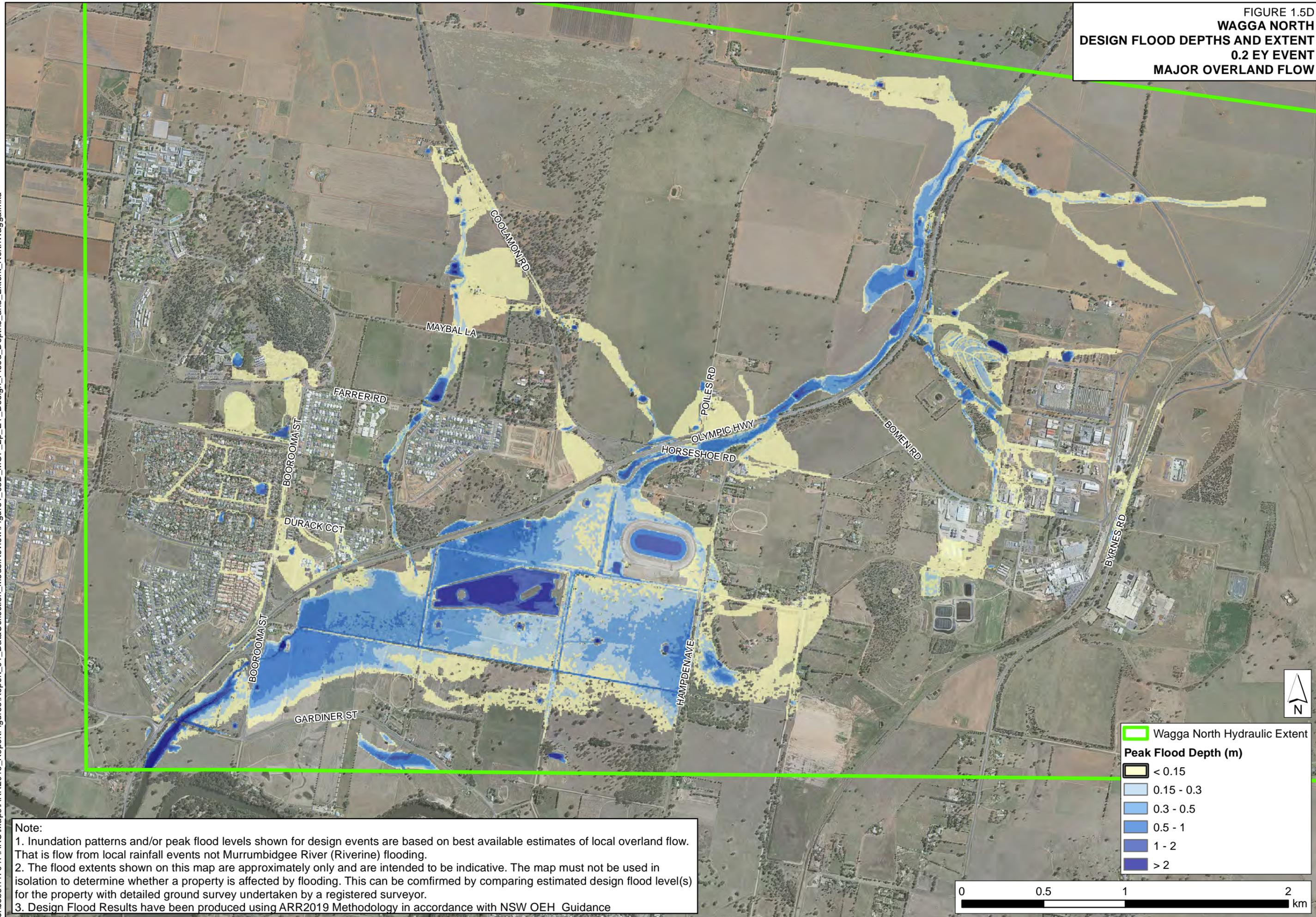


FIGURE 1.5D  
**WAGGA NORTH**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.2 EY EVENT**  
**MAJOR OVERLAND FLOW**



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**Note:**  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga North Hydraulic Extent

**Peak Flood Depth (m)**

- < 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- > 2

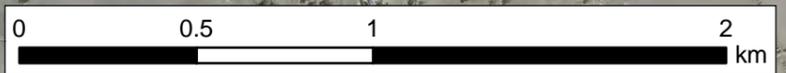
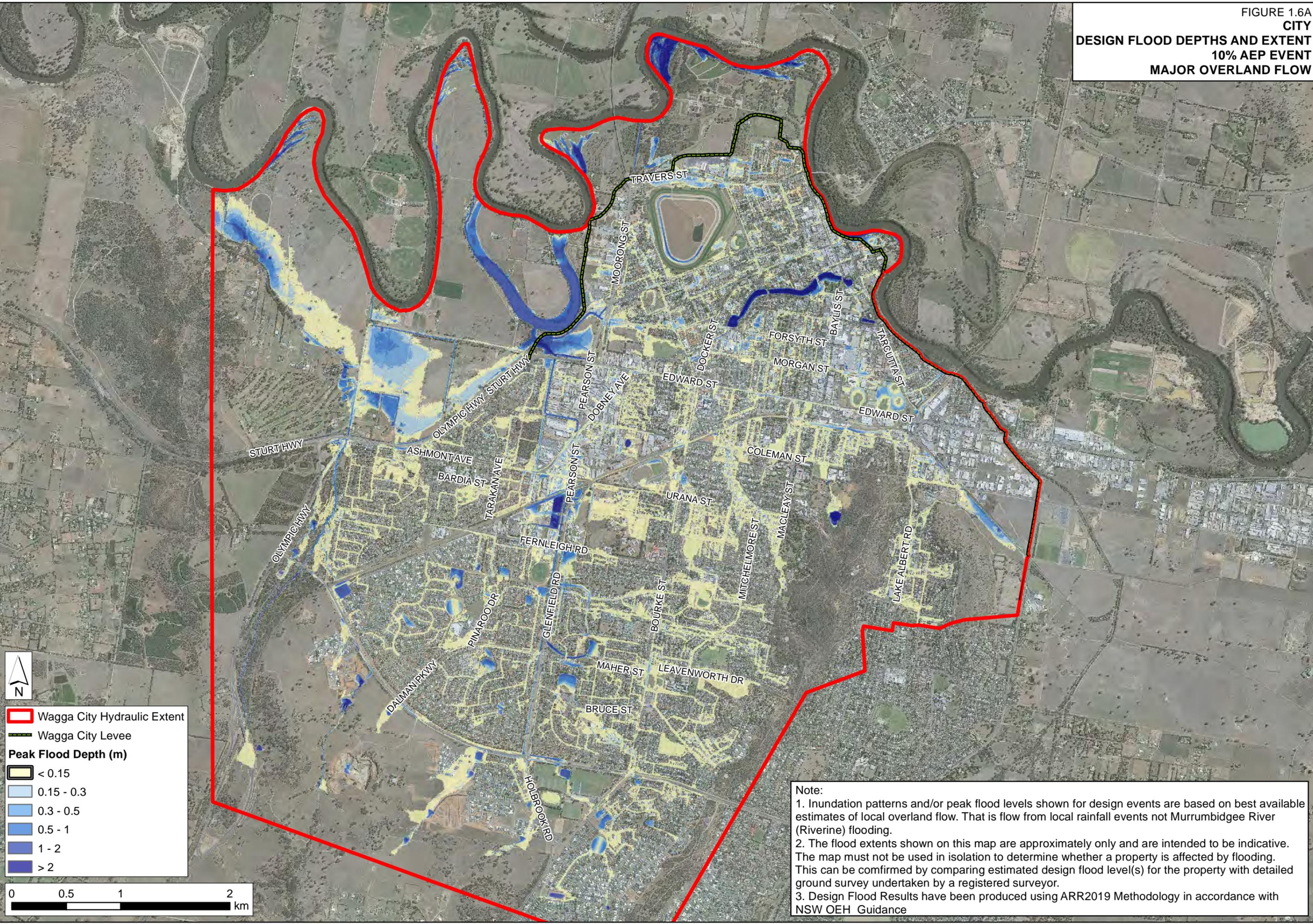


FIGURE 1.6A  
**CITY**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**10% AEP EVENT**  
**MAJOR OVERLAND FLOW**

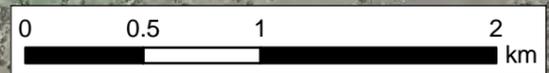


**Wagga City Hydraulic Extent**

**Wagga City Levee**

**Peak Flood Depth (m)**

- <math>< 0.15</math>
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- > 2



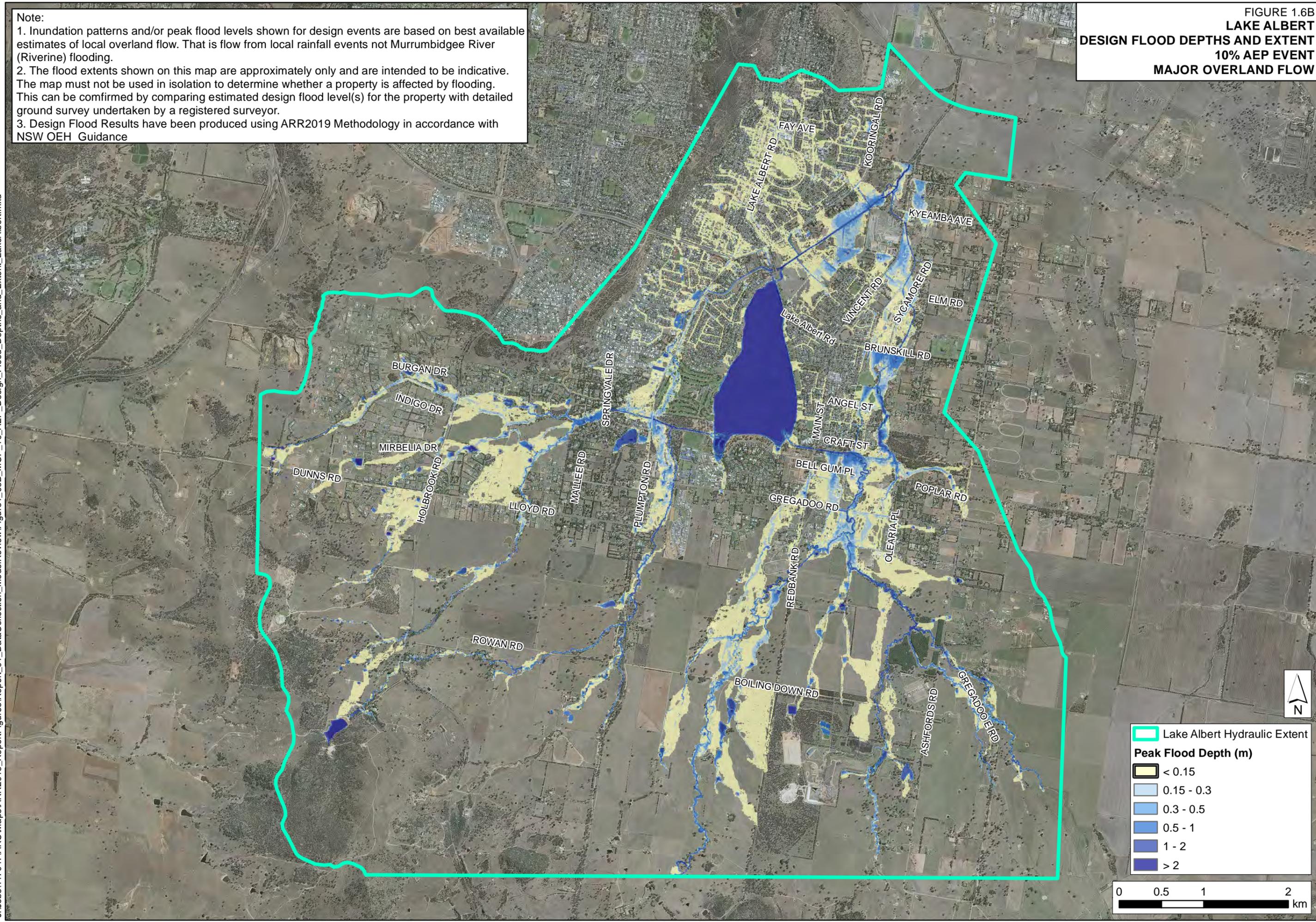
**Note:**

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.6B  
**LAKE ALBERT**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**10% AEP EVENT**  
**MAJOR OVERLAND FLOW**

Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

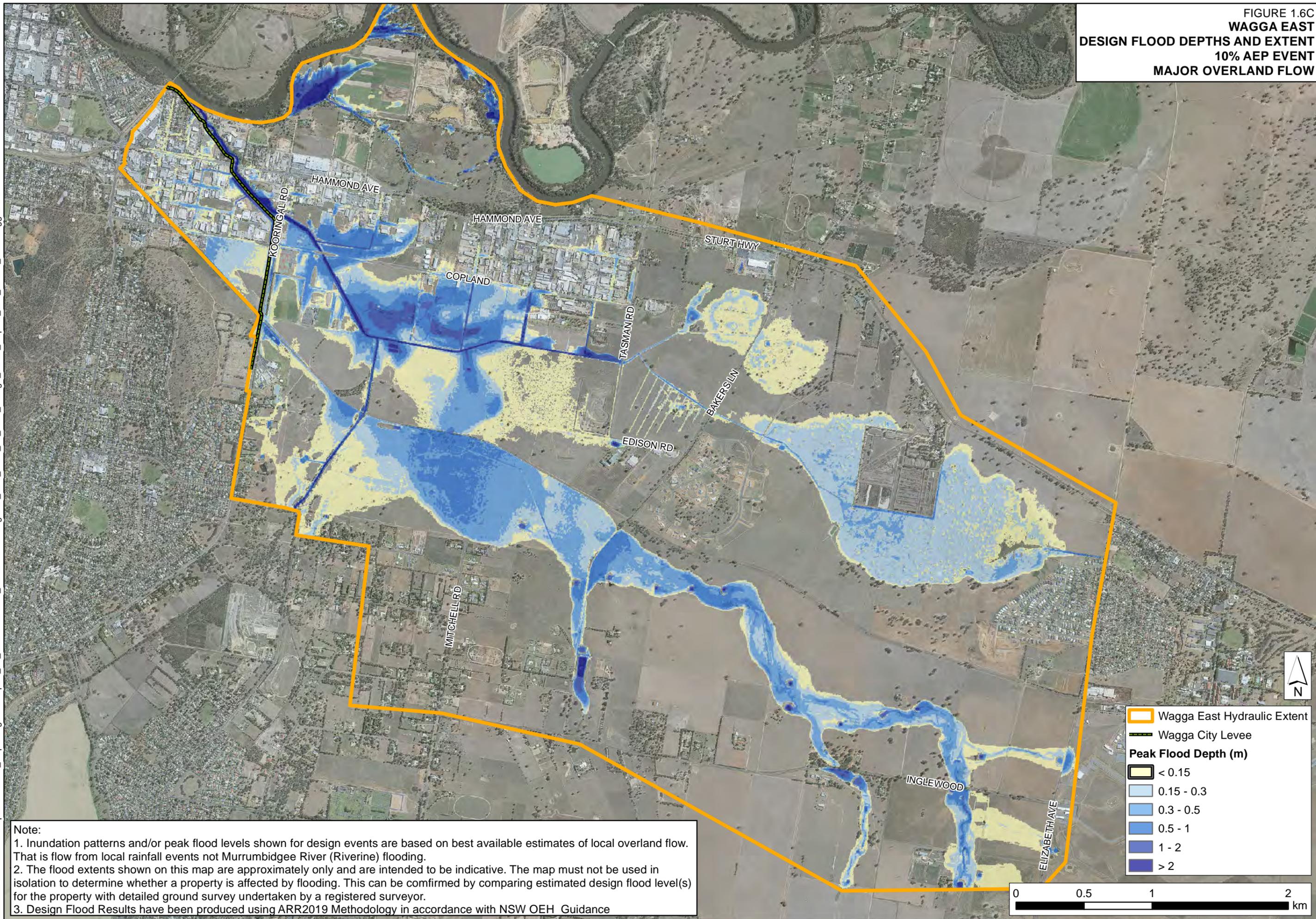
J:\Jobs\117047\ARCMaps\ARR2016\_ReportFigures\Report\_01\_DataCollection\_ModelReview\Figure1\_06B\_MOF\_10\_AEP\_Design\_Flood\_Depths\_and\_Extent\_LakeAlbert.mxd



Lake Albert Hydraulic Extent  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

0 0.5 1 2 km

FIGURE 1.6C  
**WAGGA EAST**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**10% AEP EVENT**  
**MAJOR OVERLAND FLOW**



J:\Jobs\17047\ARCMaps\ARR2016\_ReportFigures\Report\_01\_DataCollection\_ModelReview\Figure1\_06C\_MOF\_10\_AEP\_Design\_Flood\_Depths\_and\_Extent\_EastWagga.mxd

Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga East Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

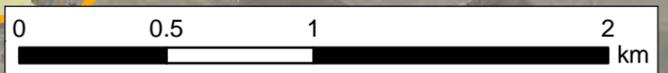
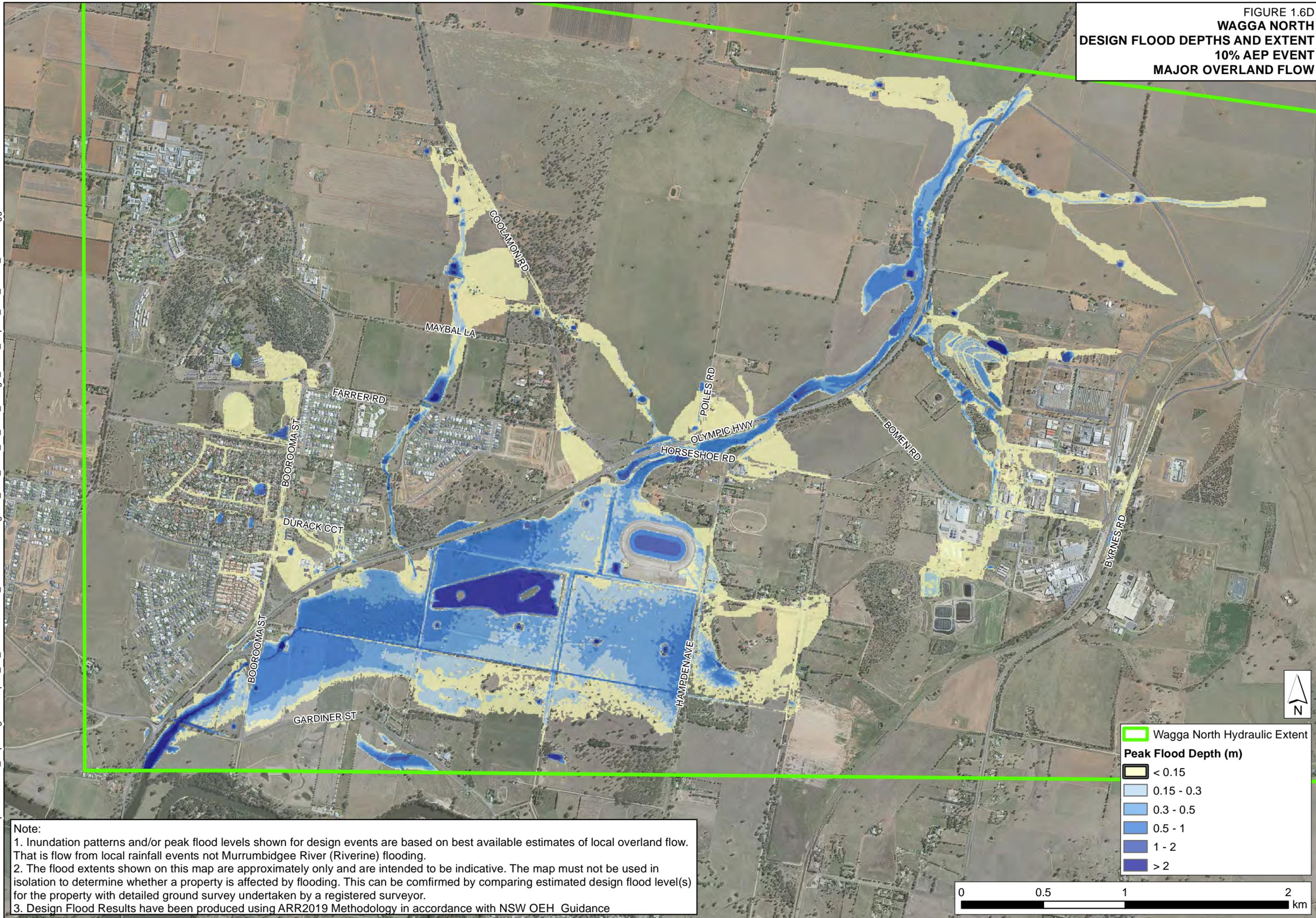


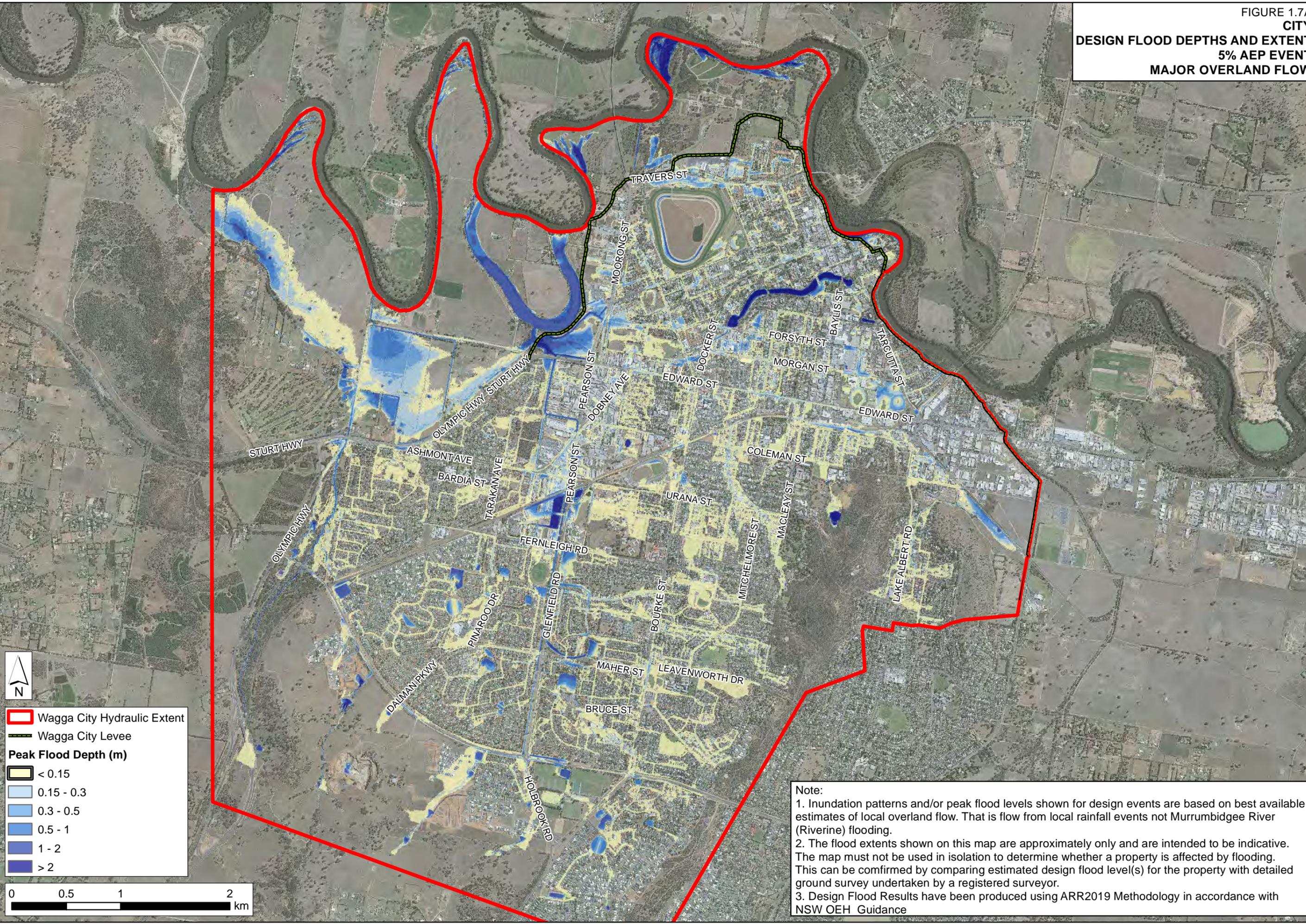
FIGURE 1.6D  
**WAGGA NORTH**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**10% AEP EVENT**  
**MAJOR OVERLAND FLOW**



Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

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FIGURE 1.7A  
**CITY**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**5% AEP EVENT**  
**MAJOR OVERLAND FLOW**



  Wagga City Hydraulic Extent  
  Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

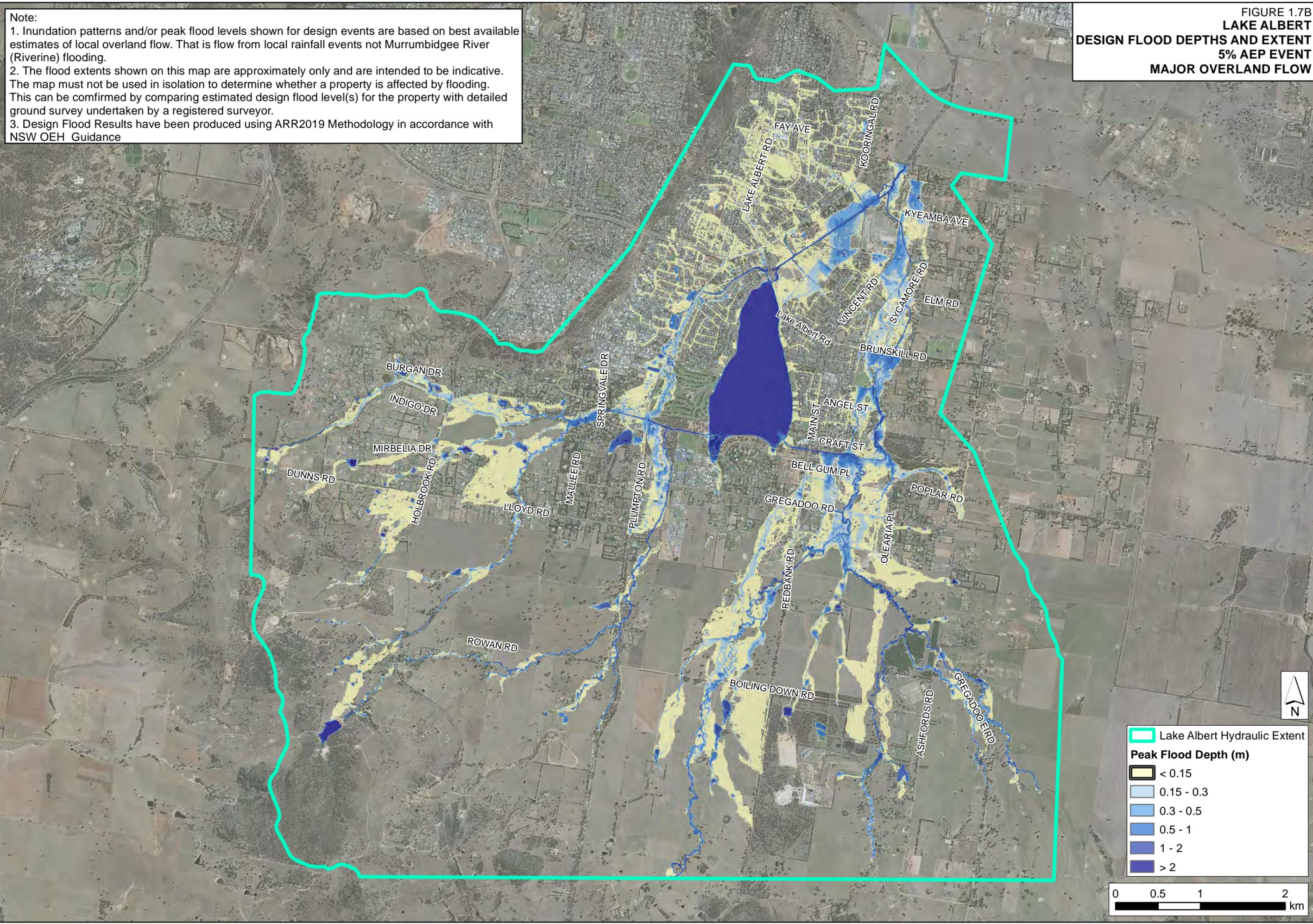
**Note:**

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.7B  
**LAKE ALBERT**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**5% AEP EVENT**  
**MAJOR OVERLAND FLOW**

Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

J:\Jobs\117047\ARC\Maps\ARR2016\_Report\Figures\Report\_01\_DataCollection\_ModelReview\Figure1\_07B\_MOF\_5\_AEP\_Design\_Flood\_Depths\_and\_Extent\_LakeAlbert.mxd



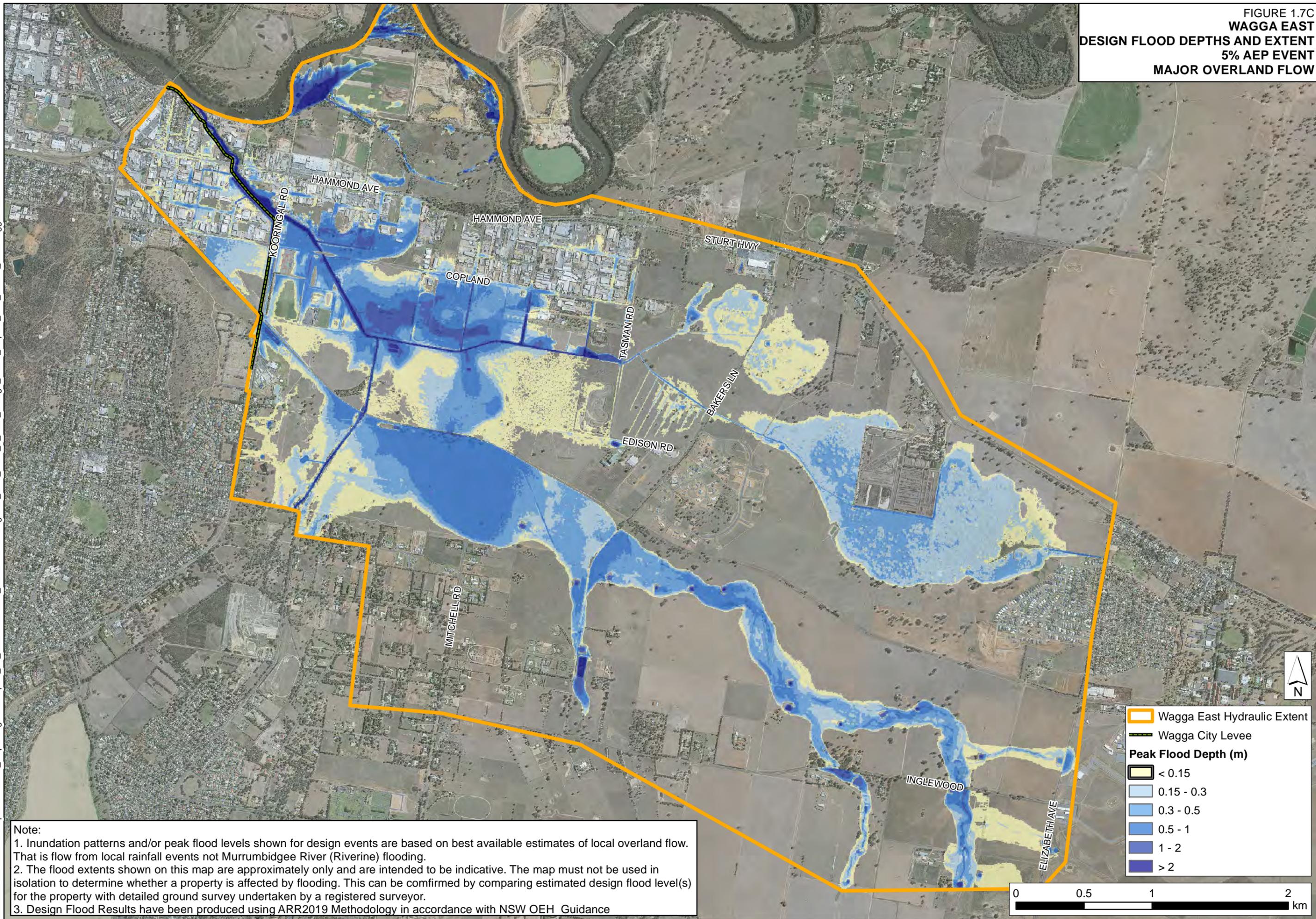
**Lake Albert Hydraulic Extent**

**Peak Flood Depth (m)**

	< 0.15
	0.15 - 0.3
	0.3 - 0.5
	0.5 - 1
	1 - 2
	> 2

0 0.5 1 2 km

FIGURE 1.7C  
**WAGGA EAST**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**5% AEP EVENT**  
**MAJOR OVERLAND FLOW**



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Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga East Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

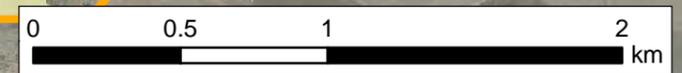
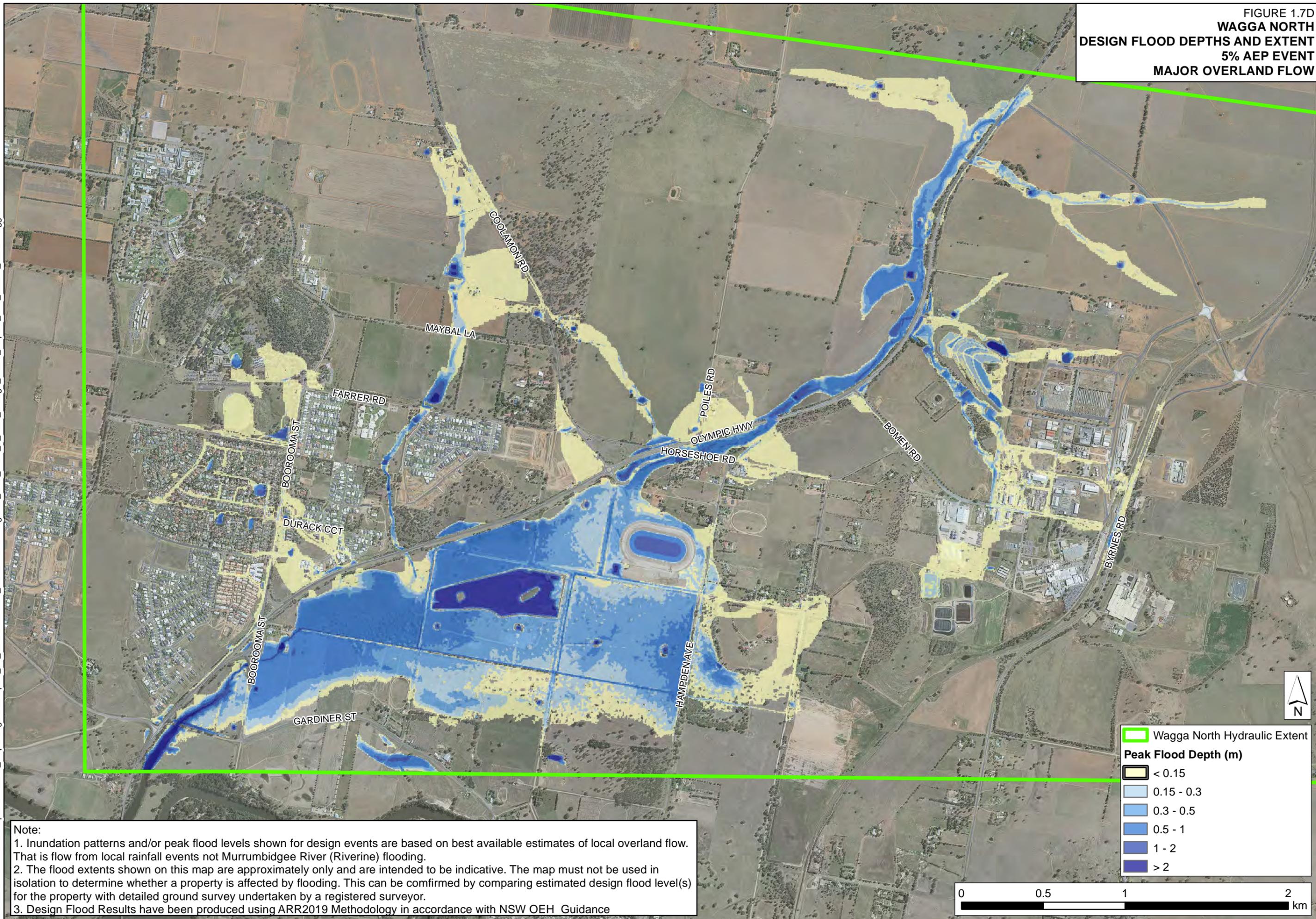


FIGURE 1.7D  
**WAGGA NORTH**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**5% AEP EVENT**  
**MAJOR OVERLAND FLOW**

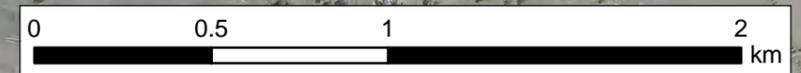


Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga North Hydraulic Extent

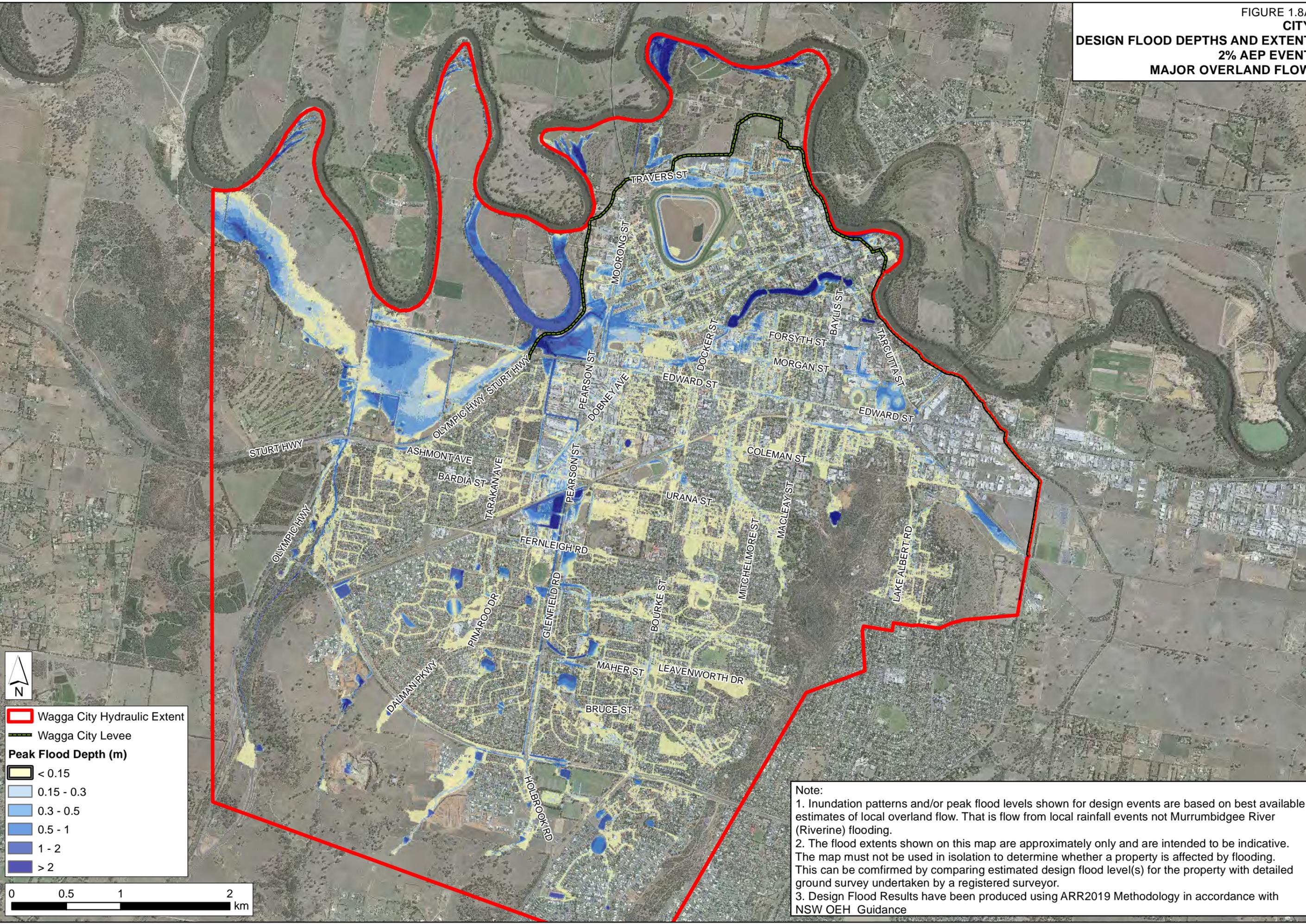
**Peak Flood Depth (m)**

- < 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- > 2

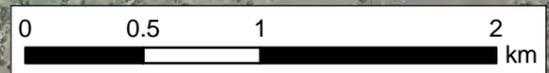


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FIGURE 1.8A  
**CITY**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**2% AEP EVENT**  
**MAJOR OVERLAND FLOW**



Wagga City Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2



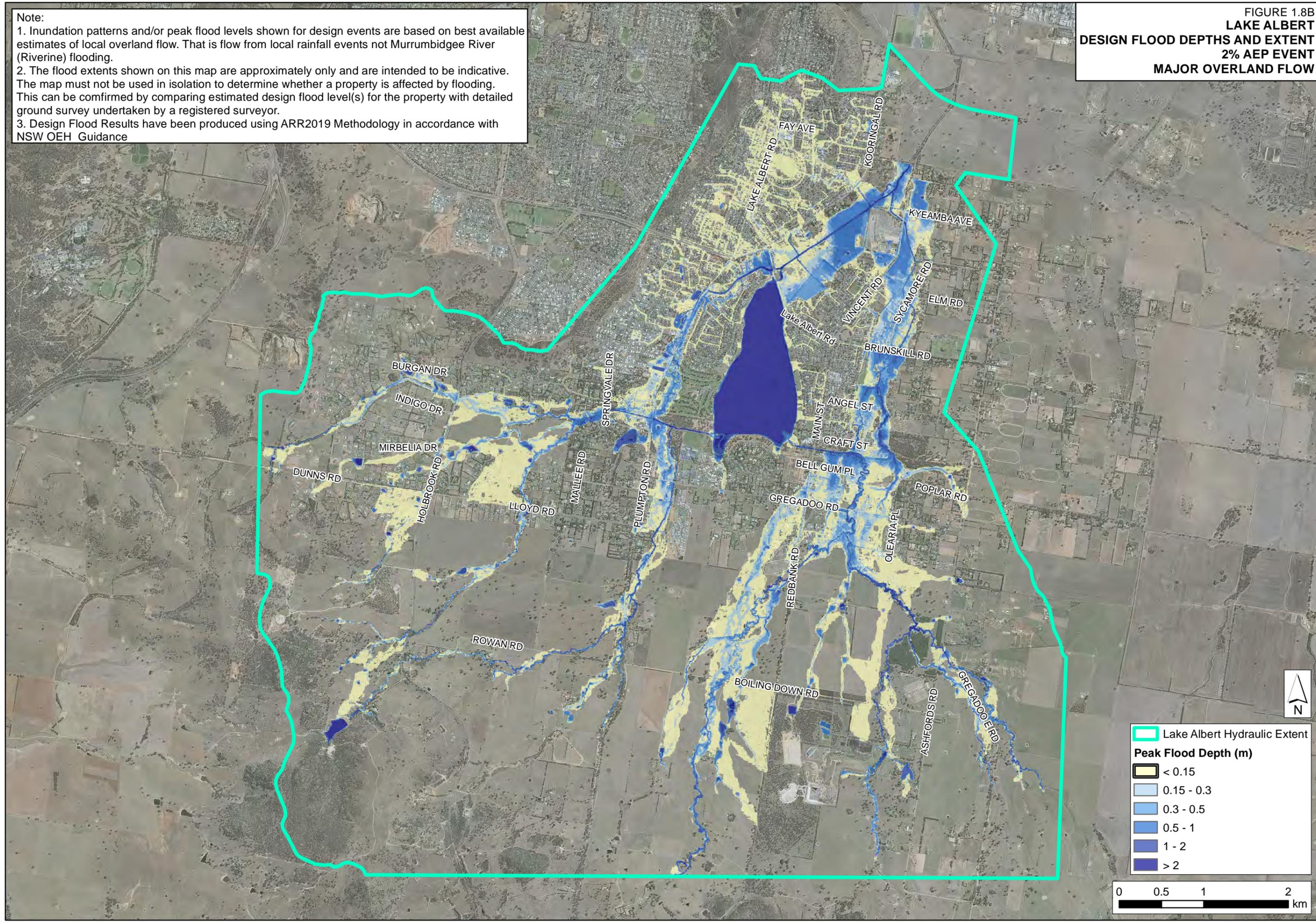
**Note:**

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.8B  
**LAKE ALBERT**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**2% AEP EVENT**  
**MAJOR OVERLAND FLOW**



**Legend**

- Lake Albert Hydraulic Extent

**Peak Flood Depth (m)**

- < 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- > 2

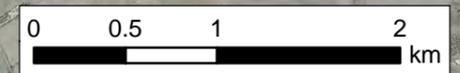
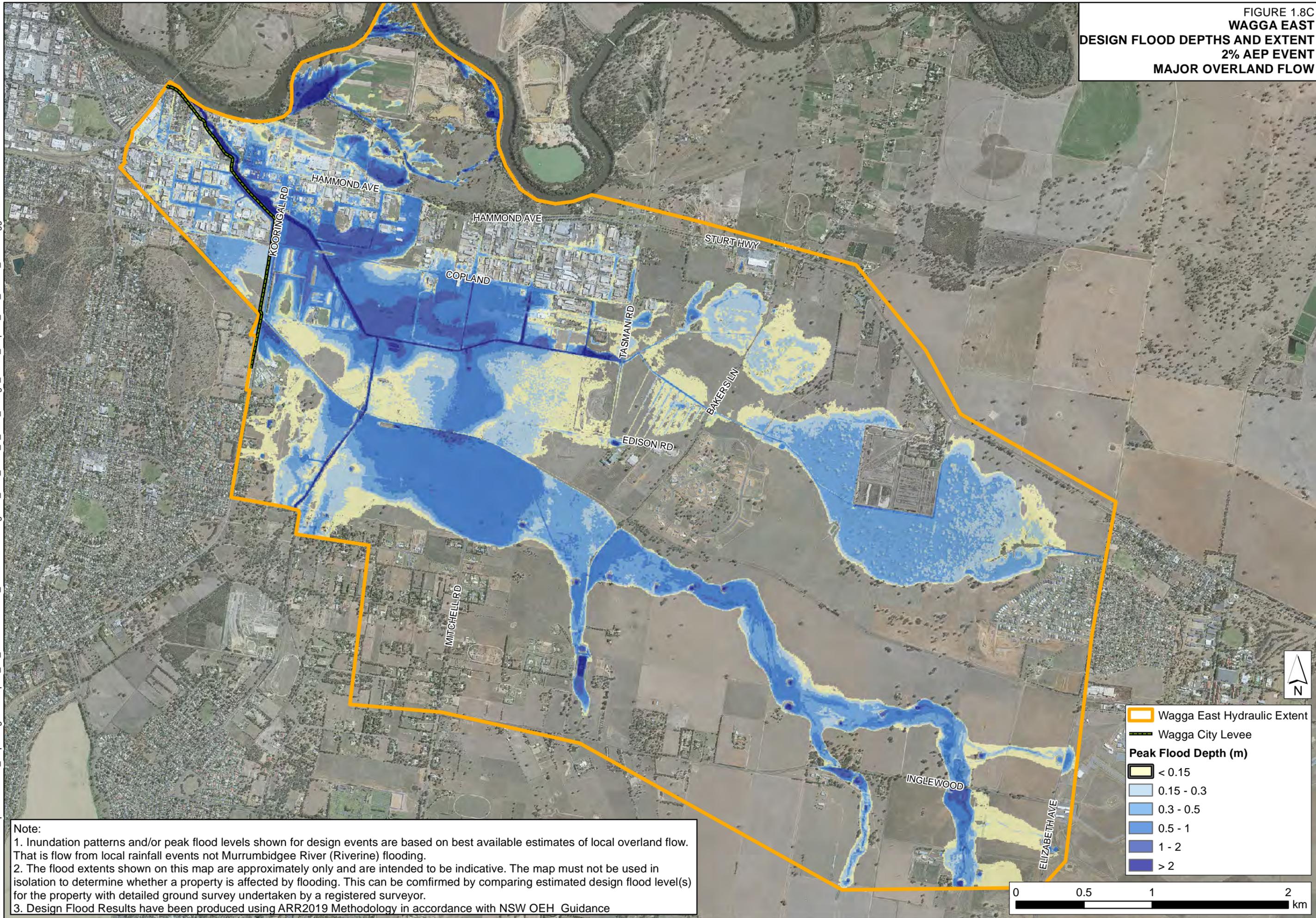


FIGURE 1.8C  
**WAGGA EAST**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**2% AEP EVENT**  
**MAJOR OVERLAND FLOW**

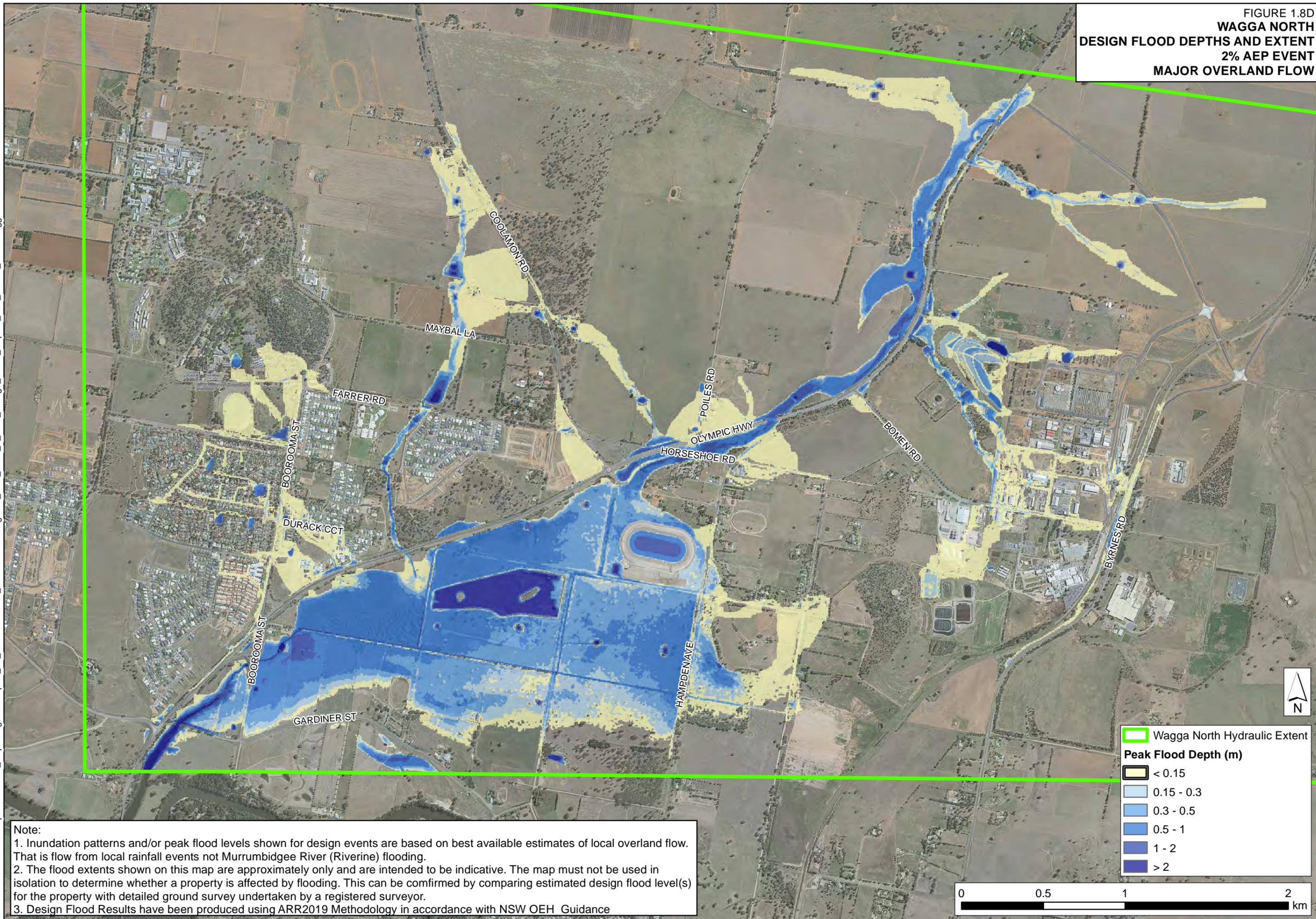


Wagga East Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

**Note:**

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.8D  
**WAGGA NORTH**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**2% AEP EVENT**  
**MAJOR OVERLAND FLOW**



Wagga North Hydraulic Extent  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

**Note:**

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

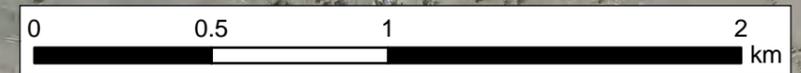
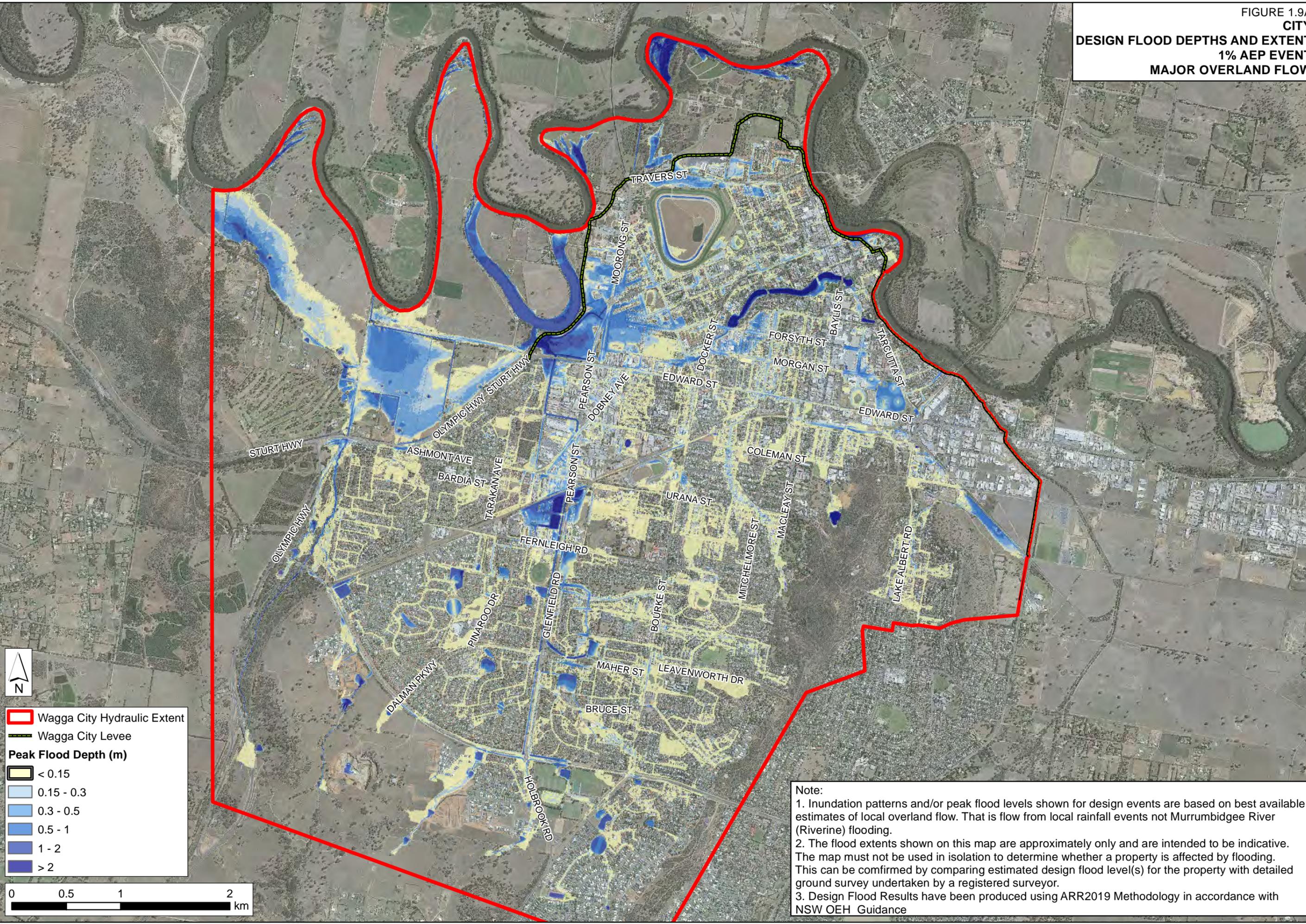


FIGURE 1.9A  
**CITY**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**1% AEP EVENT**  
**MAJOR OVERLAND FLOW**

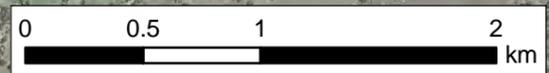


**Wagga City Hydraulic Extent**

**Wagga City Levee**

**Peak Flood Depth (m)**

- < 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- > 2



**Note:**

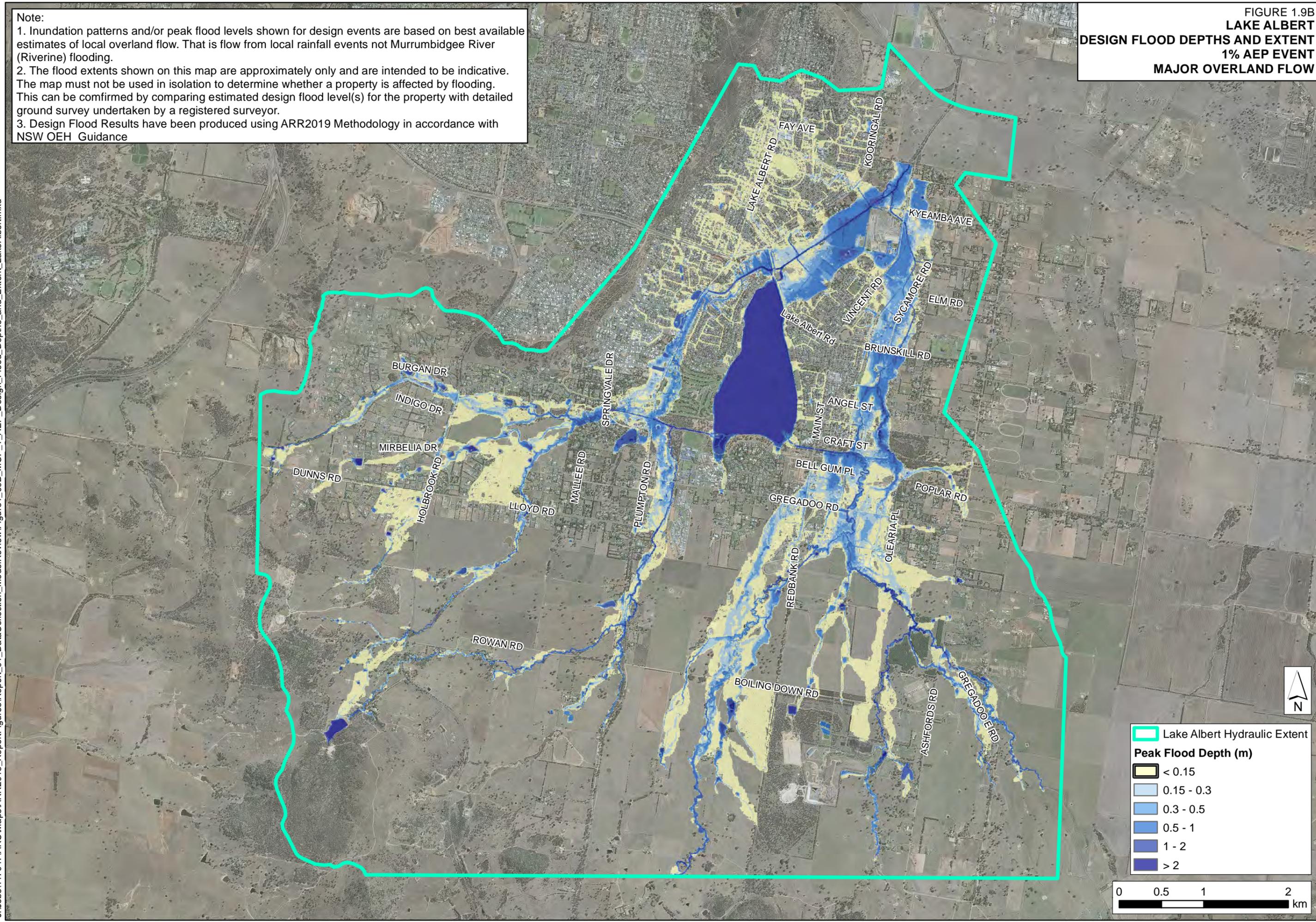
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.9B  
**LAKE ALBERT**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**1% AEP EVENT**  
**MAJOR OVERLAND FLOW**

J:\Jobs\117047\ARCMaps\ARR2016\_Report\Figures\Report\_01\_DataCollection\_ModelReview\Figure1\_09B\_MOF\_1\_AEP\_Design\_Flood\_Depths\_and\_Extent\_LakeAlbert.mxd



**Legend**

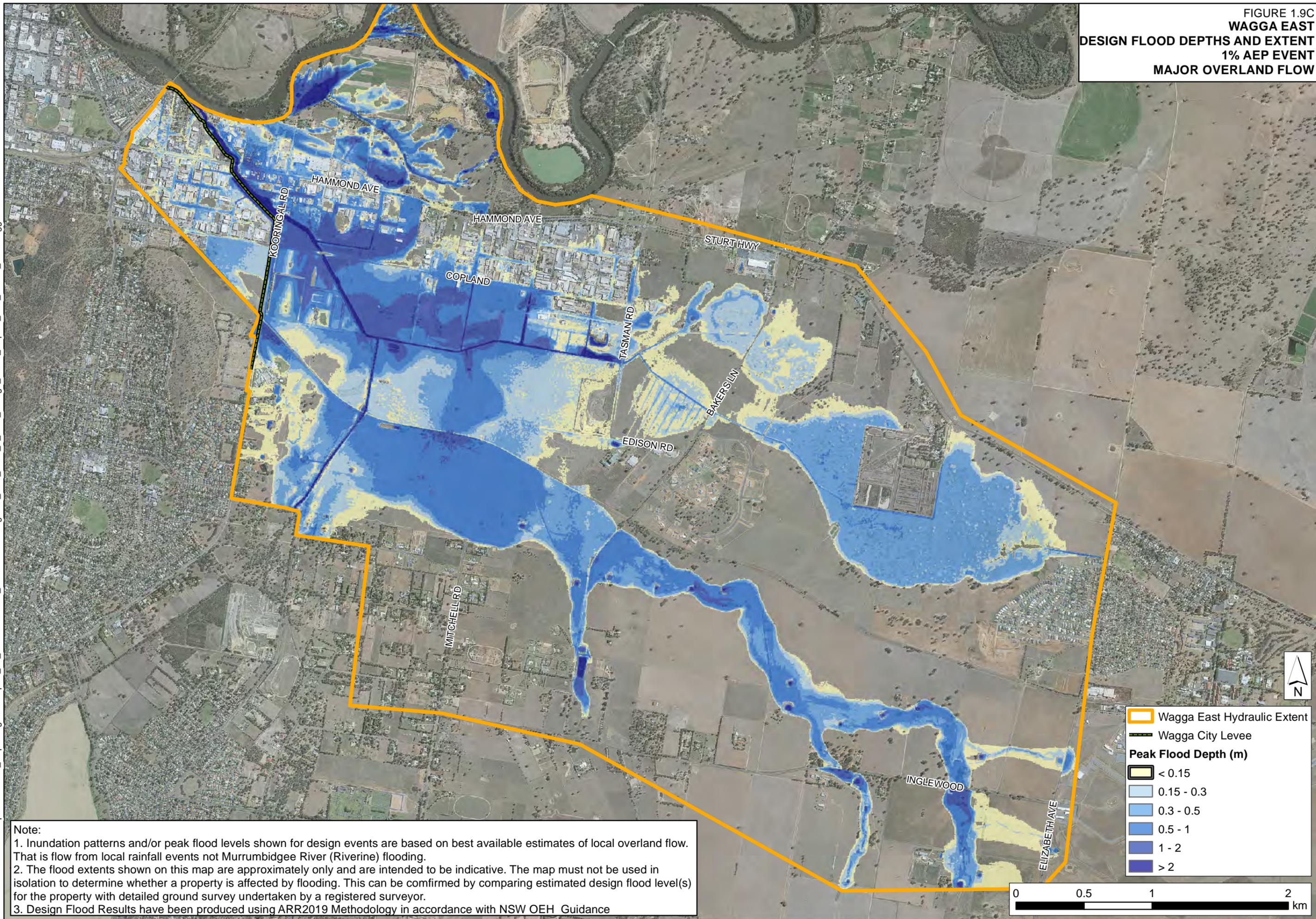
- Lake Albert Hydraulic Extent

**Peak Flood Depth (m)**

- < 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- > 2

0 0.5 1 2 km

FIGURE 1.9C  
**WAGGA EAST**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**1% AEP EVENT**  
**MAJOR OVERLAND FLOW**



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Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga East Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

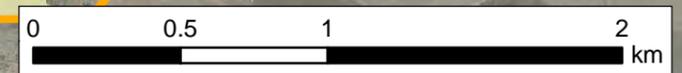
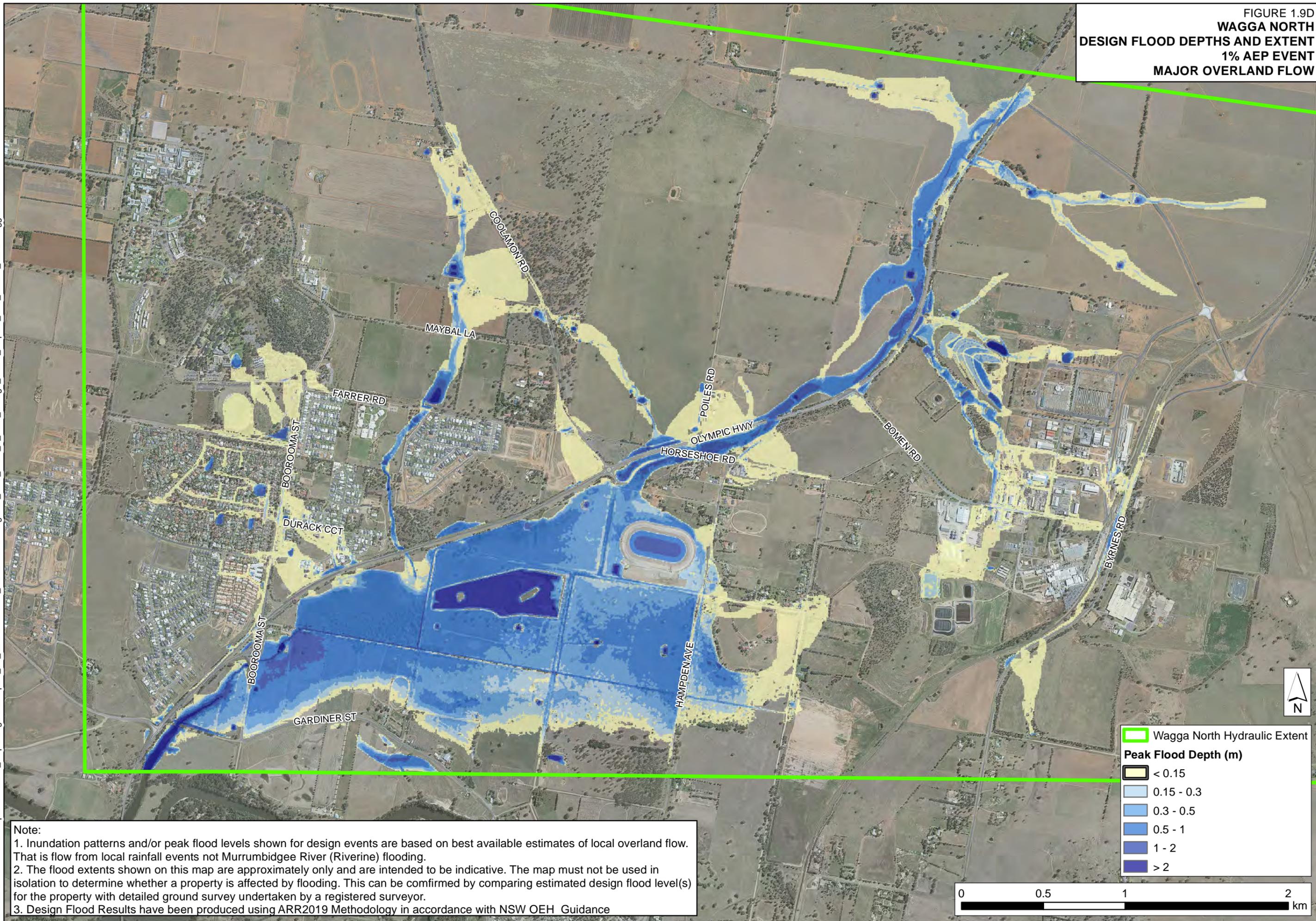


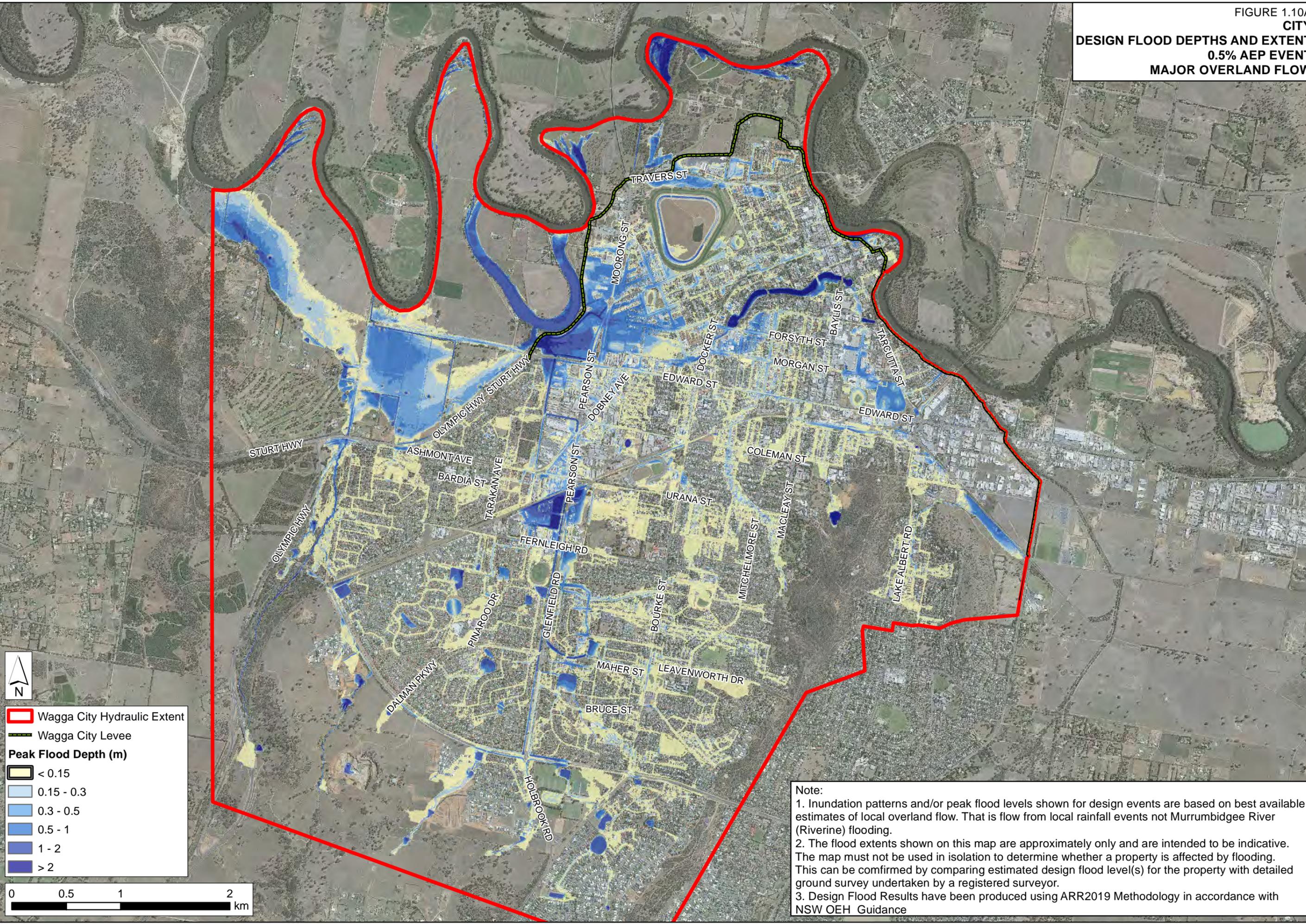
FIGURE 1.9D  
**WAGGA NORTH**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**1% AEP EVENT**  
**MAJOR OVERLAND FLOW**



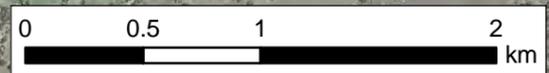
**Note:**

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.10A  
**CITY**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.5% AEP EVENT**  
**MAJOR OVERLAND FLOW**




  
 Wagga City Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 <math>< 0.15</math>  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2



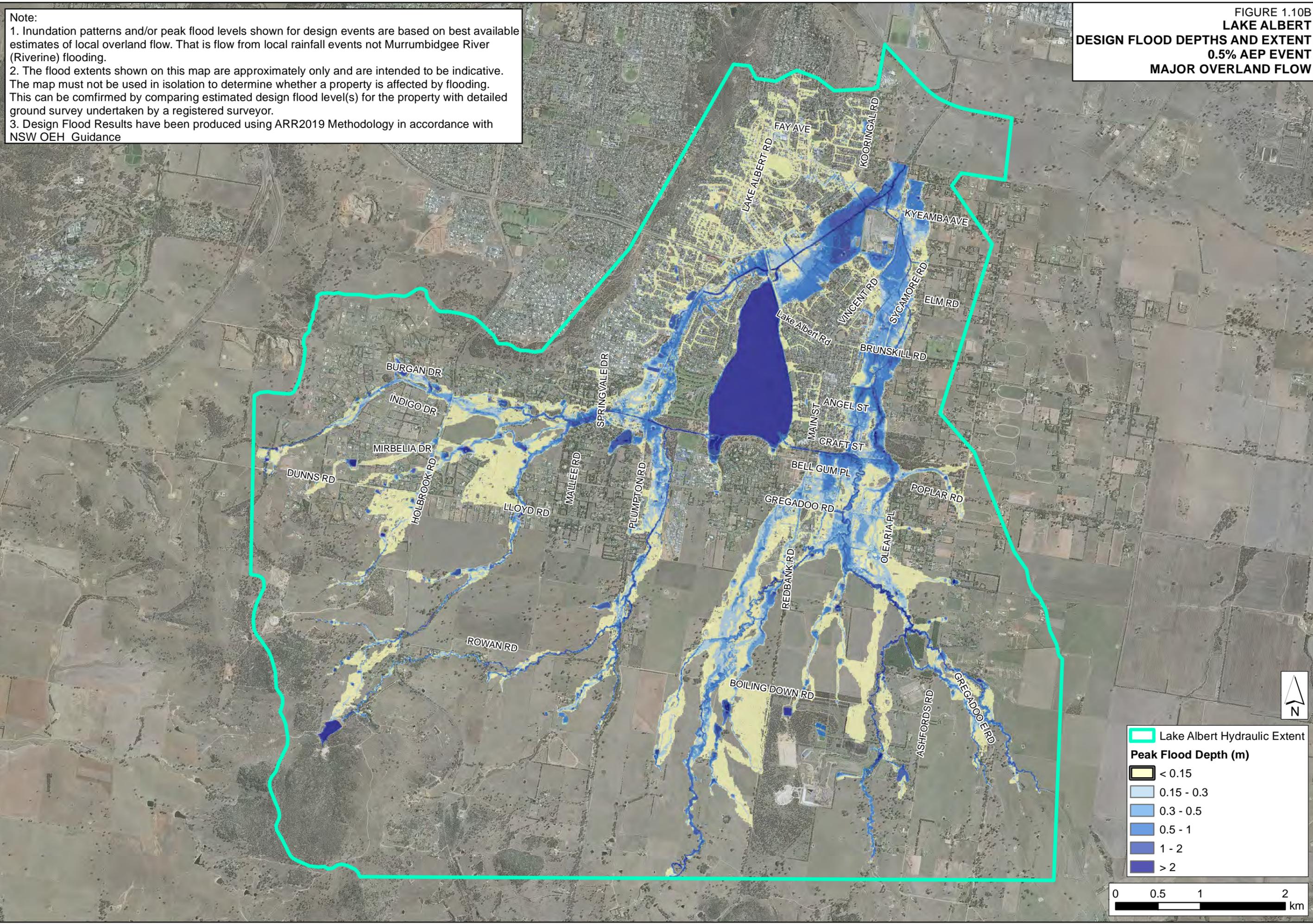
**Note:**

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.10B  
**LAKE ALBERT**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.5% AEP EVENT**  
**MAJOR OVERLAND FLOW**

Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

J:\Jobs\117047\ARC\Maps\ARR2016\_Report\Figures\Report\_01\_DataCollection\_ModelReview\Figure1\_10B\_MOF\_0\_5\_AEP\_Design\_Flood\_Depths\_and\_Extent\_LakeAlbert.mxd



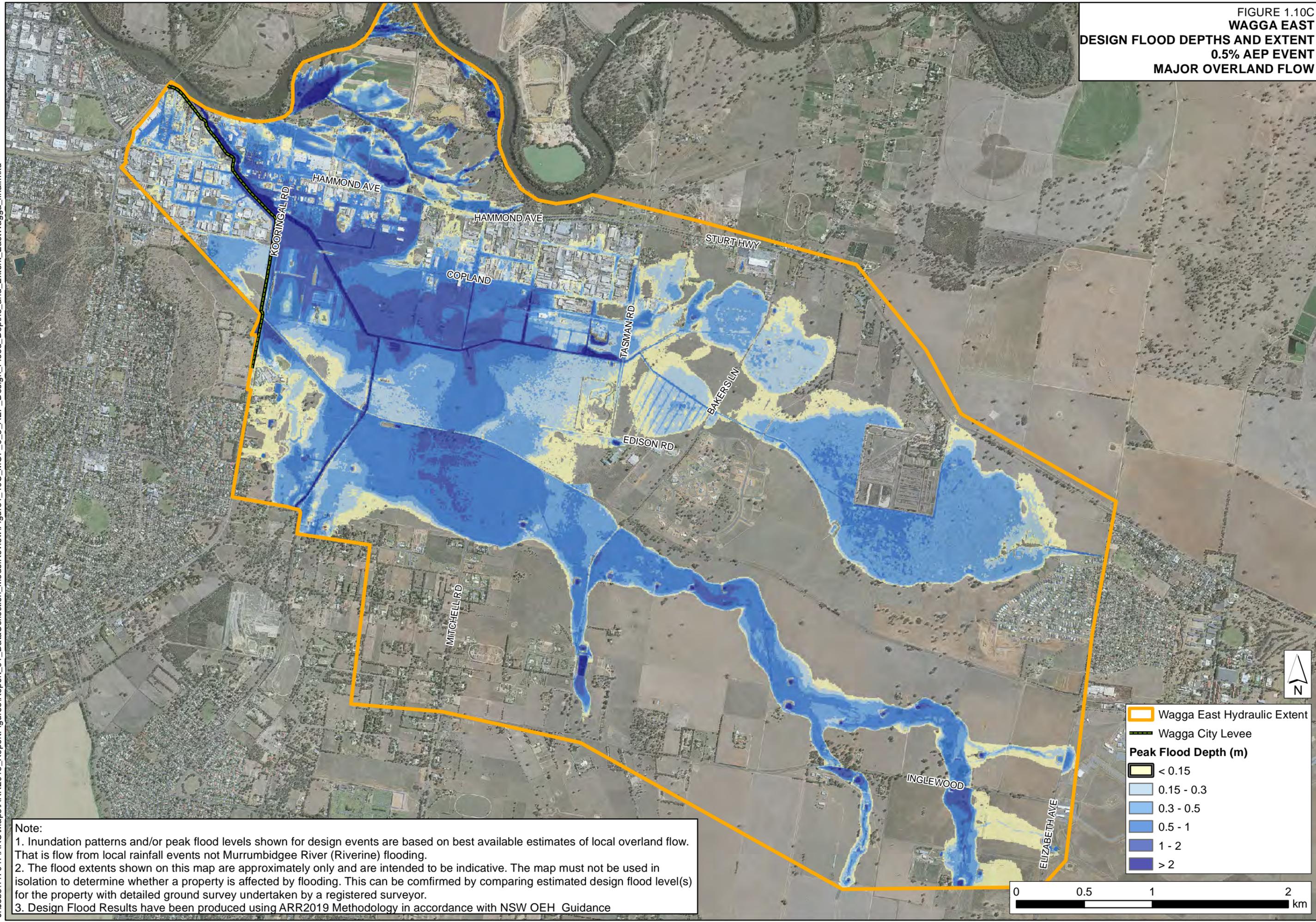
**Lake Albert Hydraulic Extent**

**Peak Flood Depth (m)**

- < 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- > 2

0 0.5 1 2 km

FIGURE 1.10C  
**WAGGA EAST**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.5% AEP EVENT**  
**MAJOR OVERLAND FLOW**

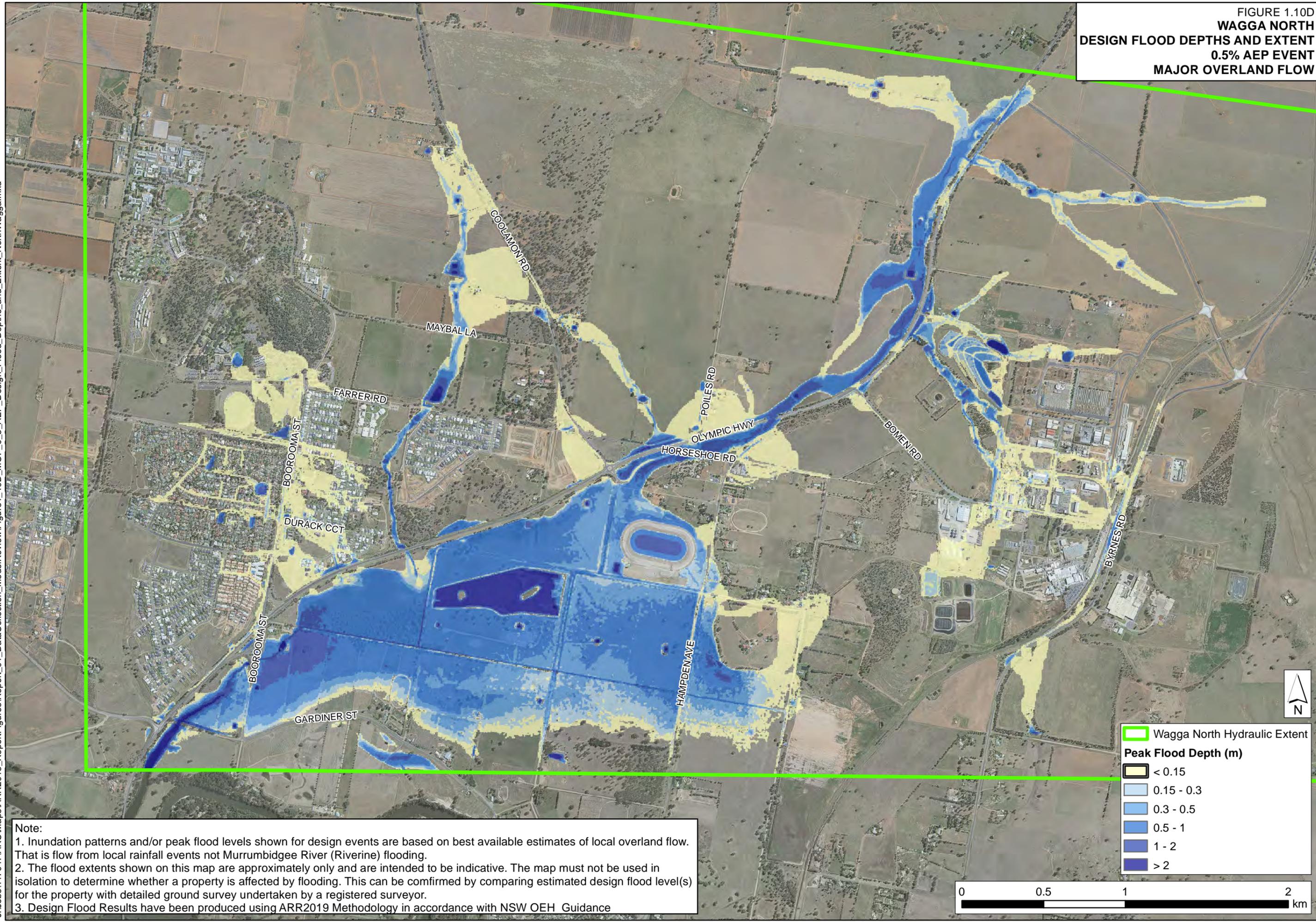


Wagga East Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

**Note:**

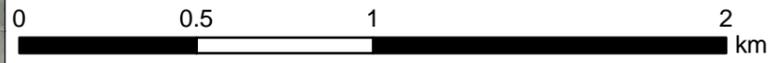
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.10D  
**WAGGA NORTH**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.5% AEP EVENT**  
**MAJOR OVERLAND FLOW**



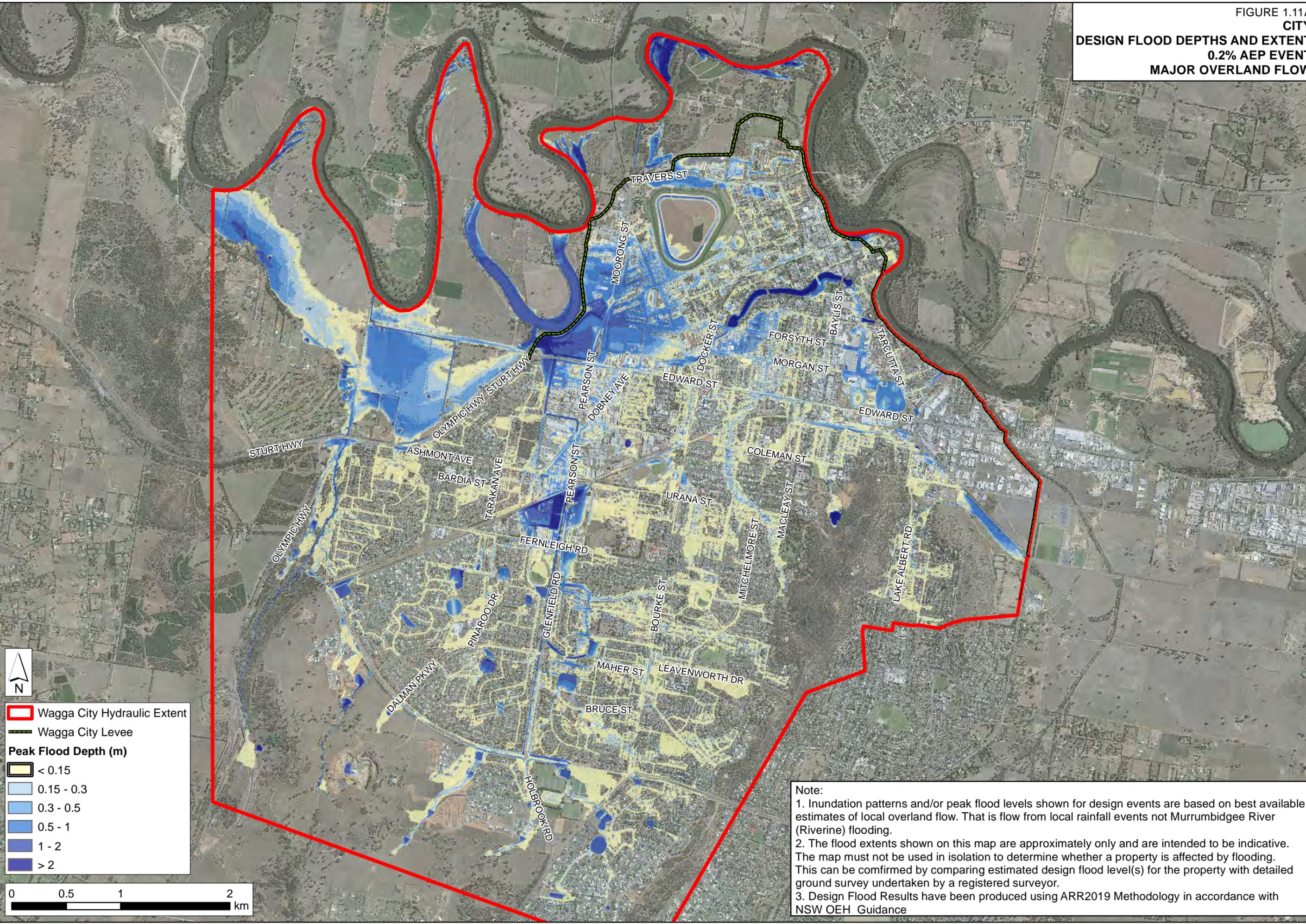
**Note:**  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga North Hydraulic Extent  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

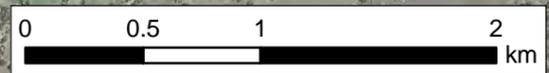


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FIGURE 1.11A  
**CITY**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.2% AEP EVENT**  
**MAJOR OVERLAND FLOW**




  
 Wagga City Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2



**Note:**

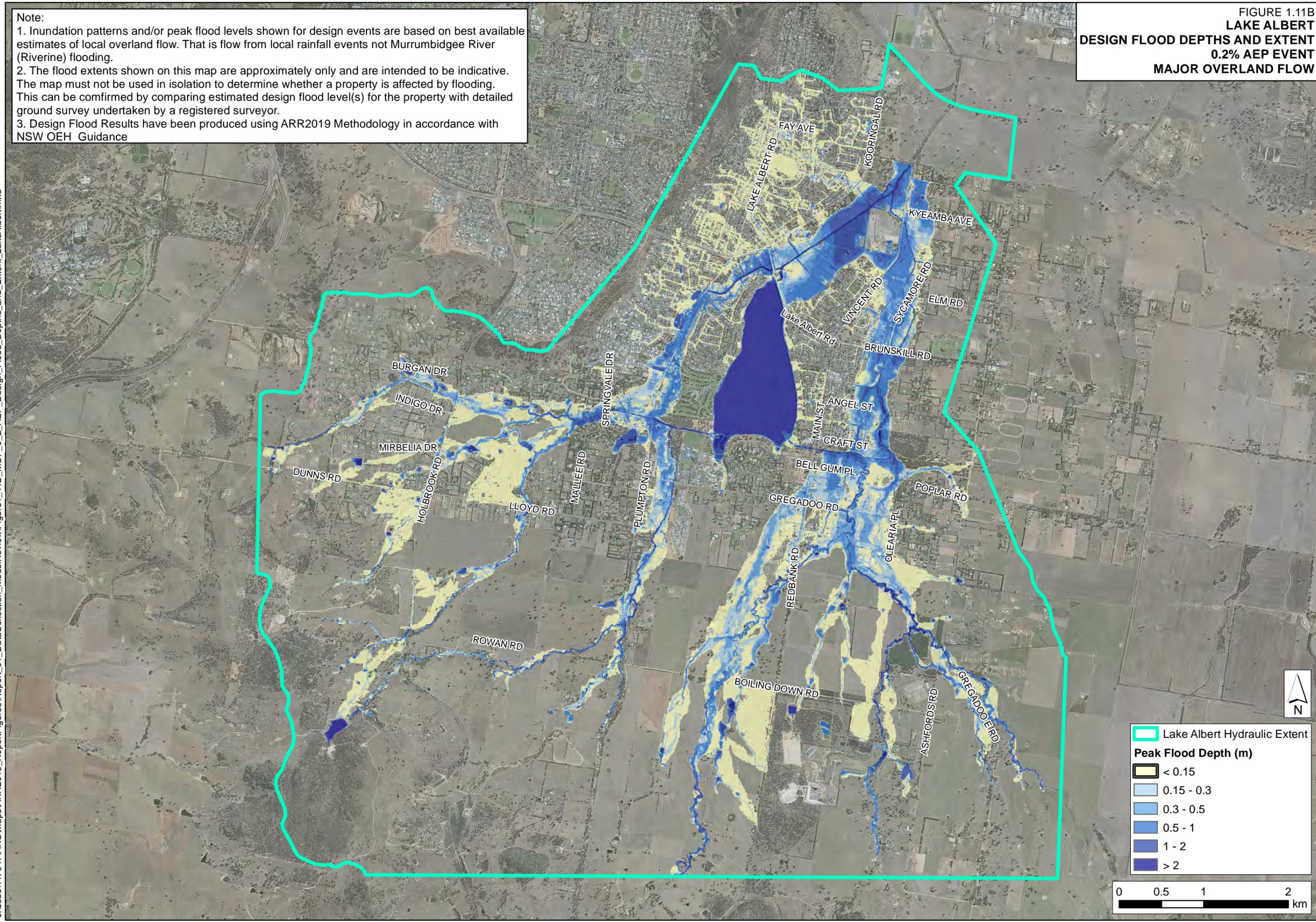
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.11B  
**LAKE ALBERT**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.2% AEP EVENT**  
**MAJOR OVERLAND FLOW**

J:\Jobs\117047\ARCMaps\ARR2016\_Report\Figures\Report\_01\_DataCollection\_ModelReview\Figure1\_11B\_MOF\_0\_2\_AEP\_Design\_Flood\_Depths\_and\_Extent\_LakeAlbert.mxd



**Lake Albert Hydraulic Extent**

**Peak Flood Depth (m)**

- < 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- > 2

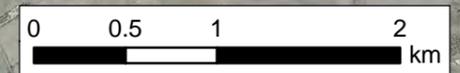
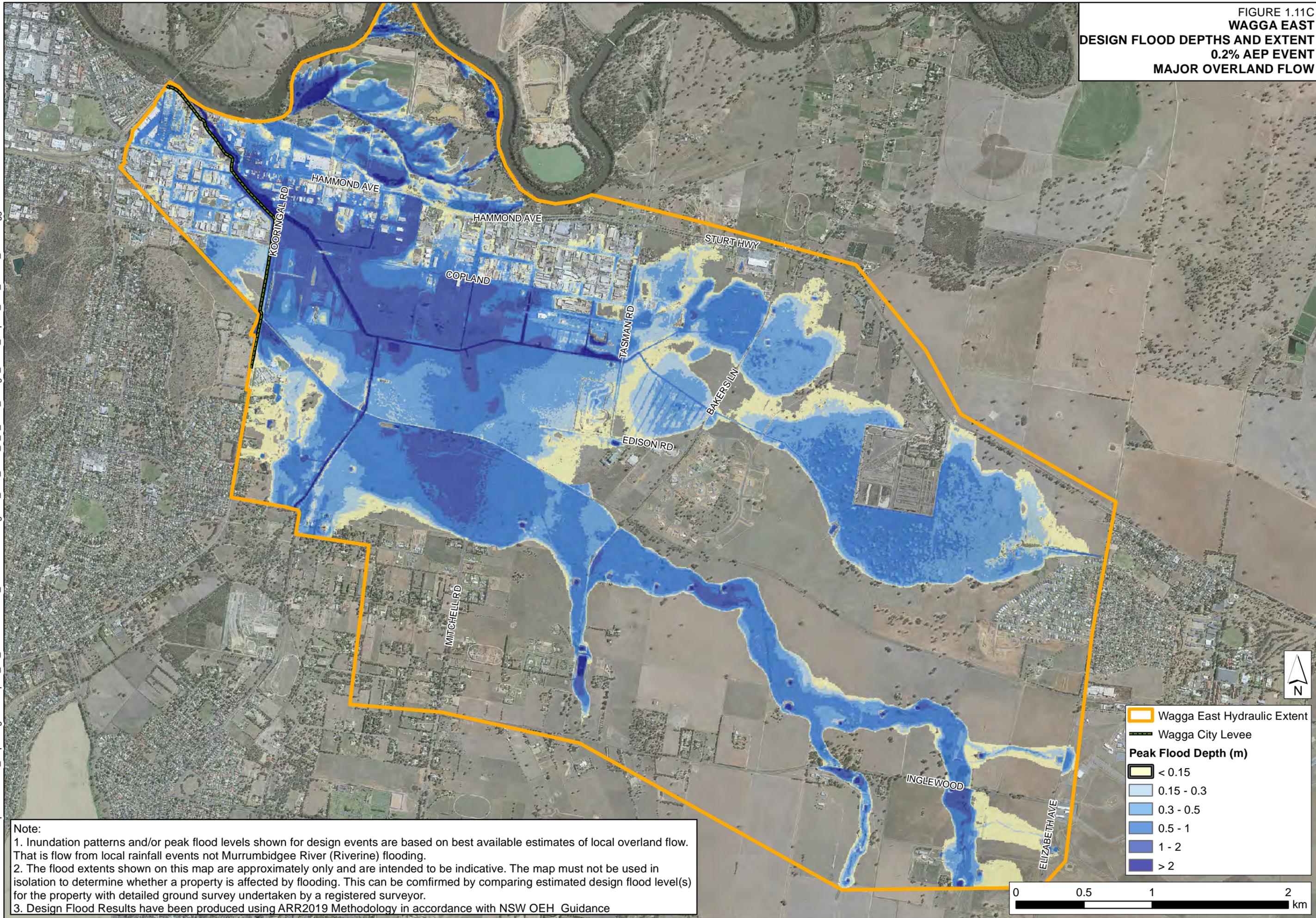


FIGURE 1.11C  
**WAGGA EAST**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.2% AEP EVENT**  
**MAJOR OVERLAND FLOW**



J:\Jobs\17047\ARCMaps\ARR2016\_ReportFigures\Report\_01\_DataCollection\_ModelReview\Figure1\_11C\_MOF\_0\_2\_AEP\_Design\_Flood\_Depths\_and\_Extent\_EastWagga.mxd

Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga East Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

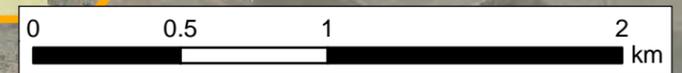
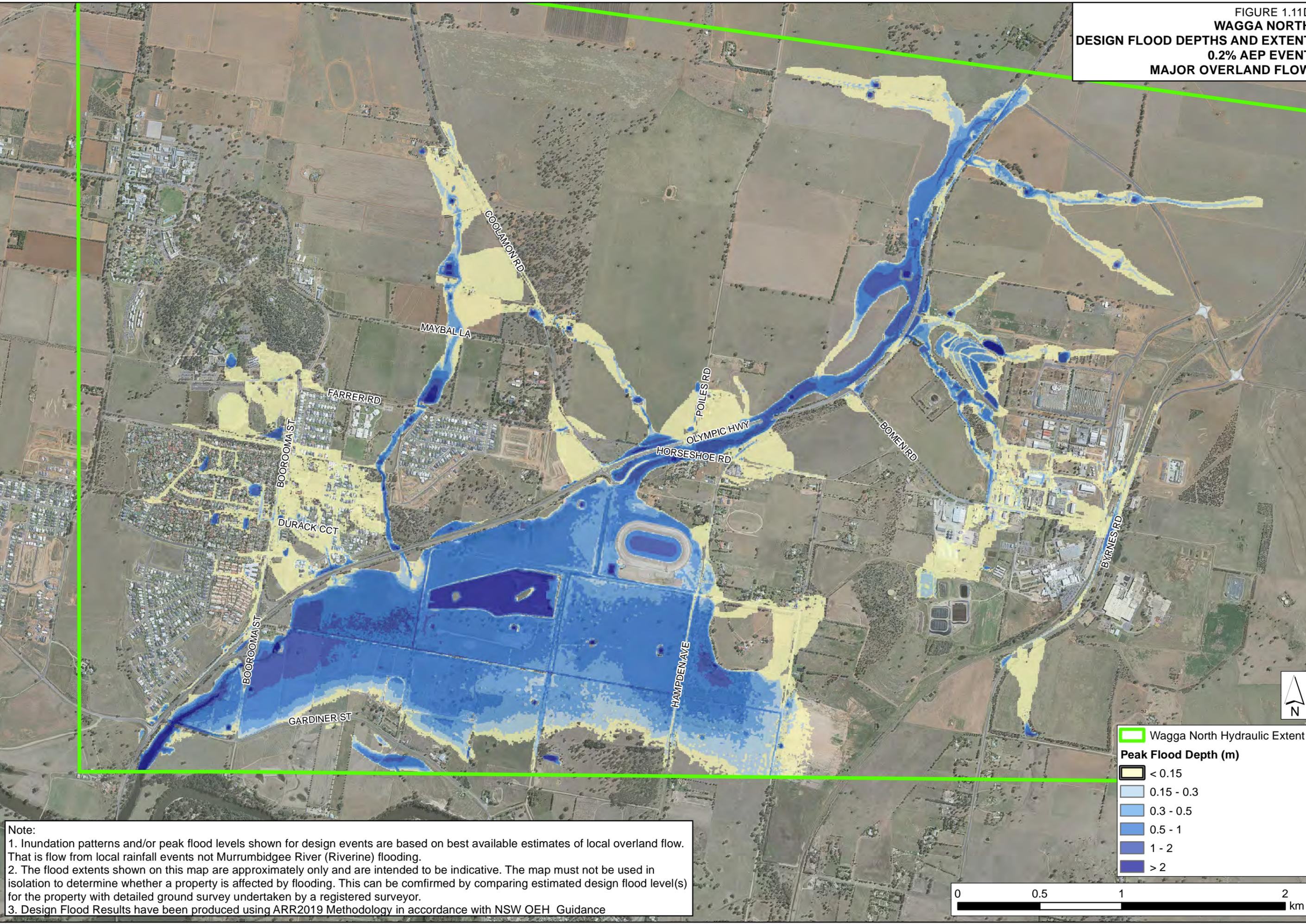


FIGURE 1.11D  
**WAGGA NORTH**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**0.2% AEP EVENT**  
**MAJOR OVERLAND FLOW**

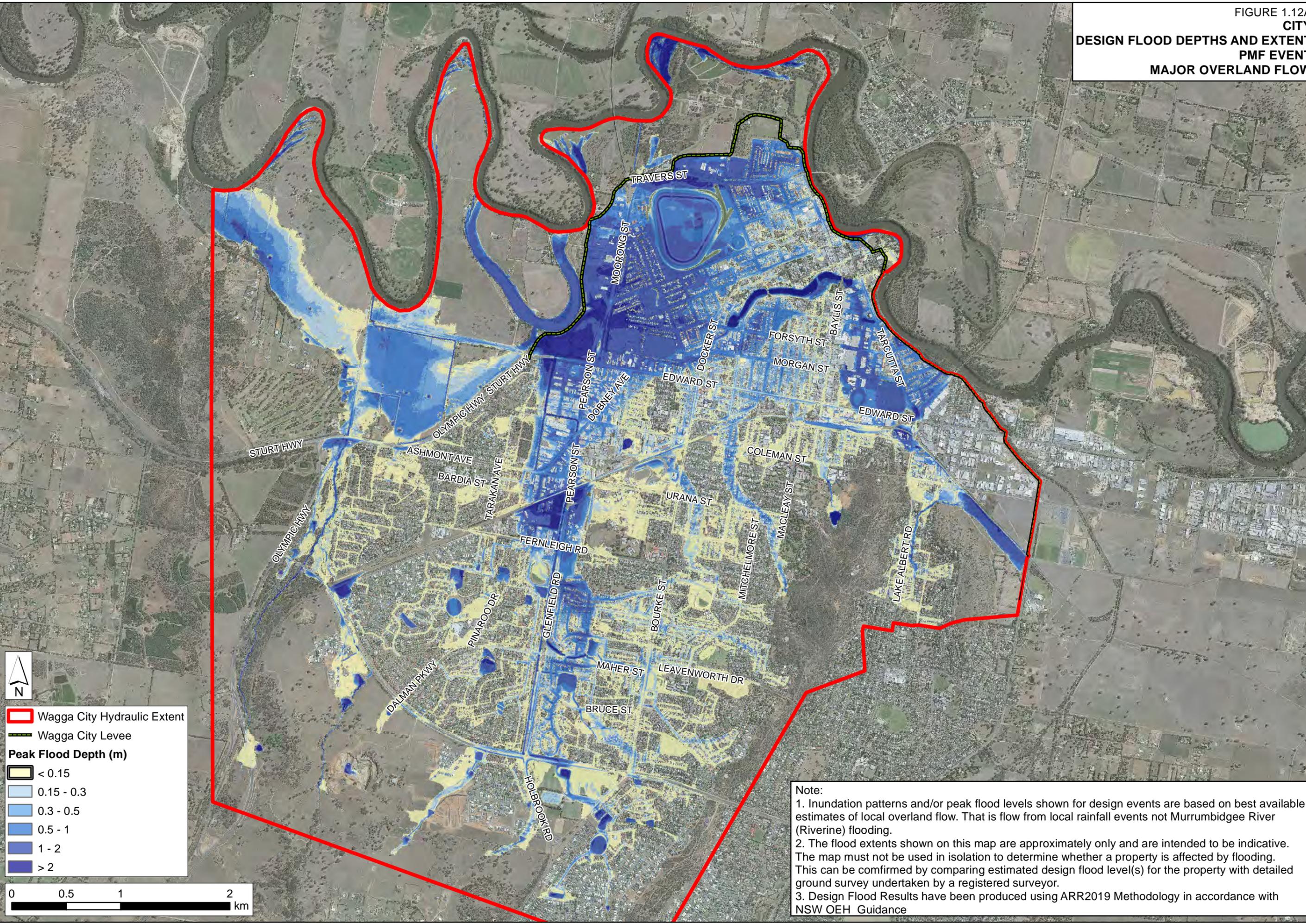


**Note:**

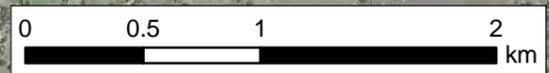
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

J:\Jobs\117047\ARC\Maps\ARR2016\_Report\Figures\Report\_01\_DataCollection\_ModelReview\Figure1\_11D\_MOF\_0\_2\_AEP\_Design\_Flood\_Depths\_and\_Extent\_NorthWagga.mxd

FIGURE 1.12A  
 CITY  
 DESIGN FLOOD DEPTHS AND EXTENT  
 PMF EVENT  
 MAJOR OVERLAND FLOW




  
 Wagga City Hydraulic Extent
   
 Wagga City Levee
   
**Peak Flood Depth (m)**
  
 <math>< 0.15</math>
   
 0.15 - 0.3
   
 0.3 - 0.5
   
 0.5 - 1
   
 1 - 2
   
 > 2



**Note:**

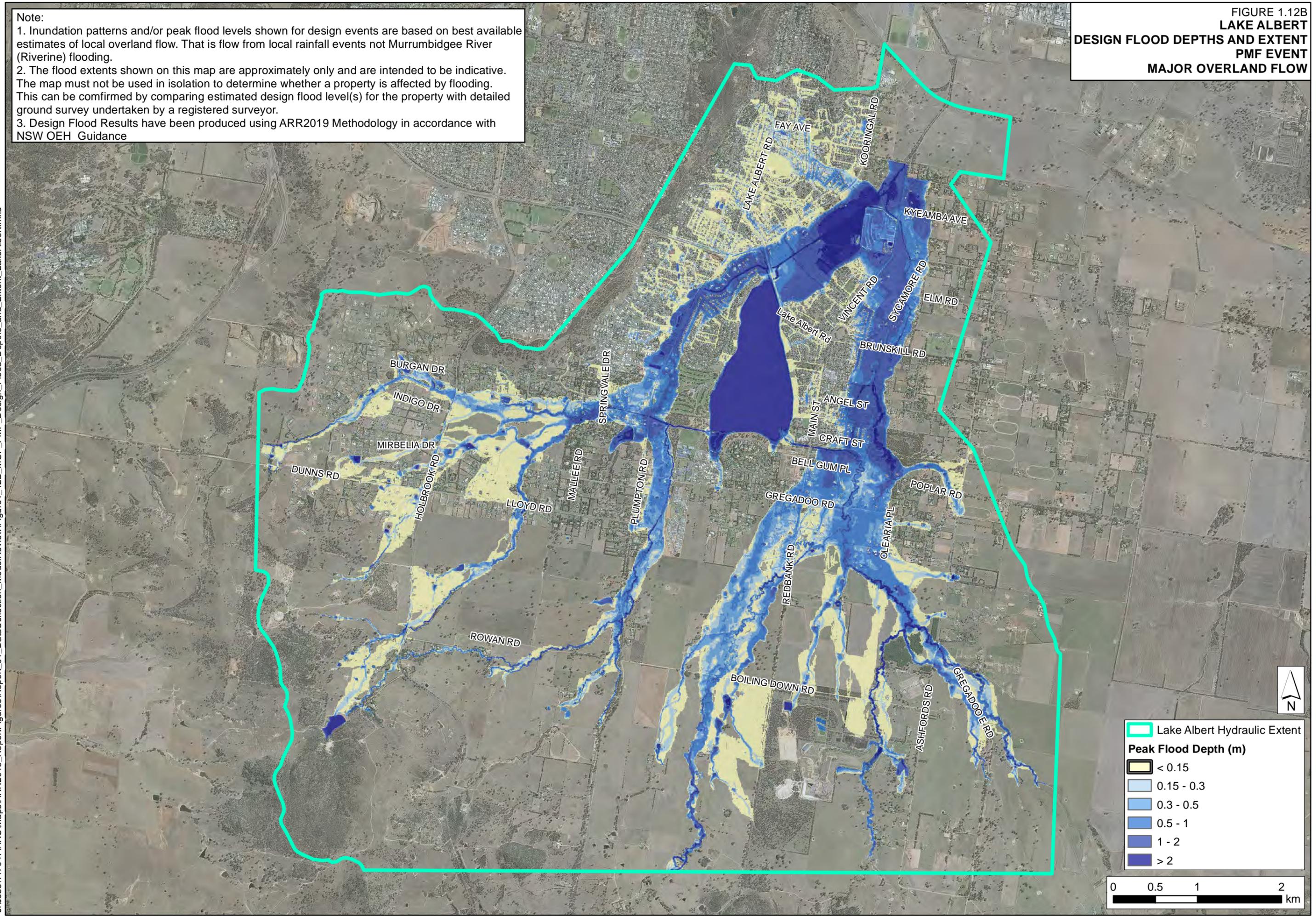
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.12B  
**LAKE ALBERT**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**PMF EVENT**  
**MAJOR OVERLAND FLOW**

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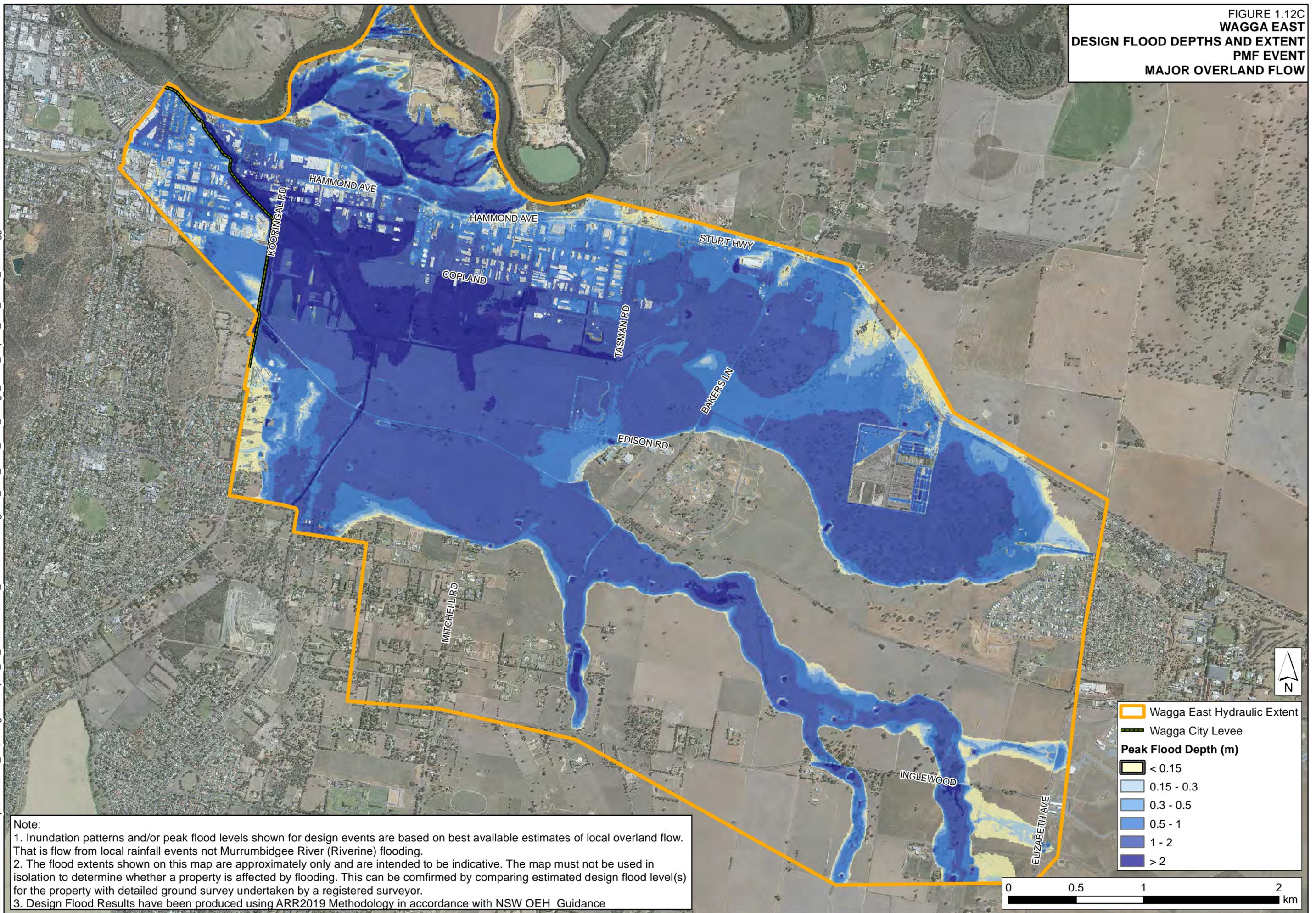
**Lake Albert Hydraulic Extent**

**Peak Flood Depth (m)**

	< 0.15
	0.15 - 0.3
	0.3 - 0.5
	0.5 - 1
	1 - 2
	> 2

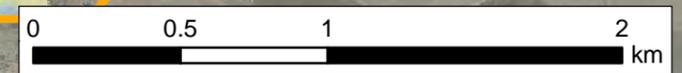
0 0.5 1 2 km

FIGURE 1.12C  
**WAGGA EAST**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**PMF EVENT**  
**MAJOR OVERLAND FLOW**



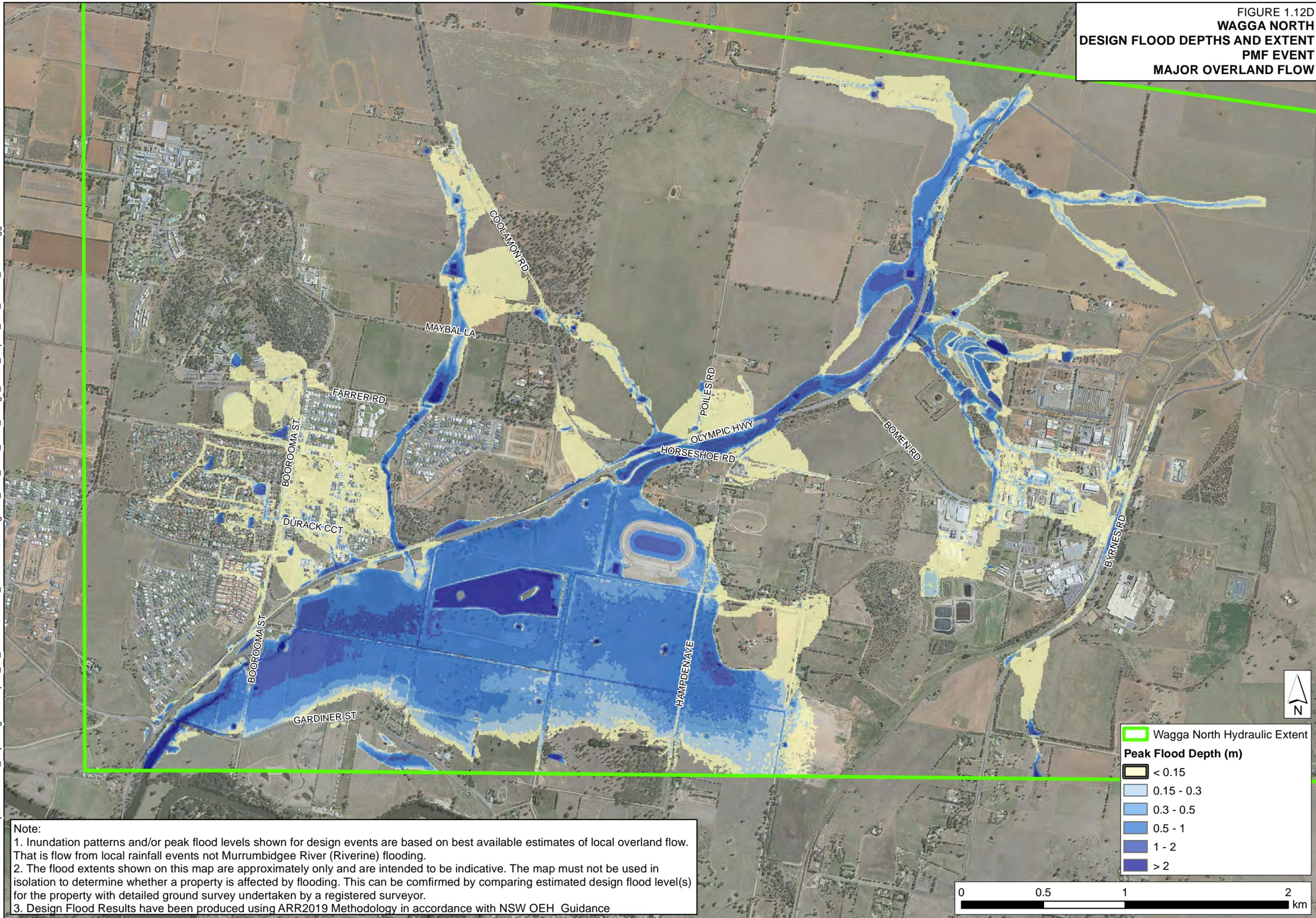
Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga East Hydraulic Extent  
 Wagga City Levee  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2



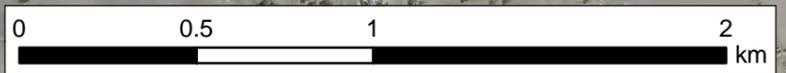
J:\Jobs\17047\ARCMaps\ARR2016\_ReportFigures\Report\_01\_DataCollection\_ModelReview\Figure1\_12C\_MOF\_PMF\_Design\_Flood\_Depths\_and\_Extent\_EastWagga.mxd

FIGURE 1.12D  
**WAGGA NORTH**  
**DESIGN FLOOD DEPTHS AND EXTENT**  
**PMF EVENT**  
**MAJOR OVERLAND FLOW**



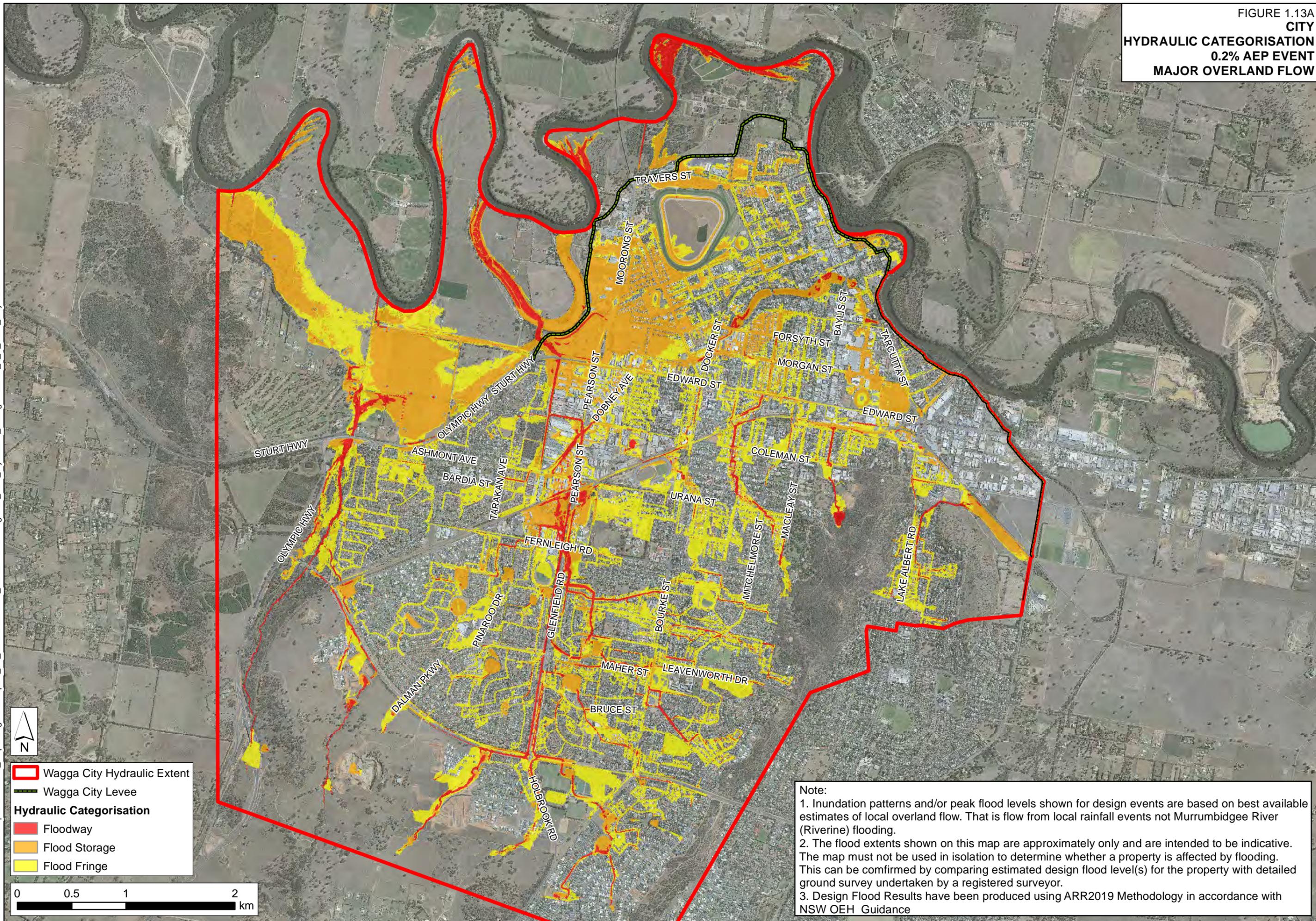
Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga North Hydraulic Extent  
**Peak Flood Depth (m)**  
 < 0.15  
 0.15 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 2  
 > 2

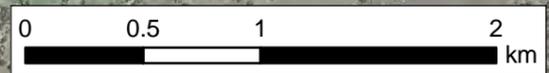


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FIGURE 1.13A  
**CITY**  
**HYDRAULIC CATEGORISATION**  
**0.2% AEP EVENT**  
**MAJOR OVERLAND FLOW**



- Wagga City Hydraulic Extent
- Wagga City Levee
- Hydraulic Categorisation**
- Floodway
- Flood Storage
- Flood Fringe



**Note:**

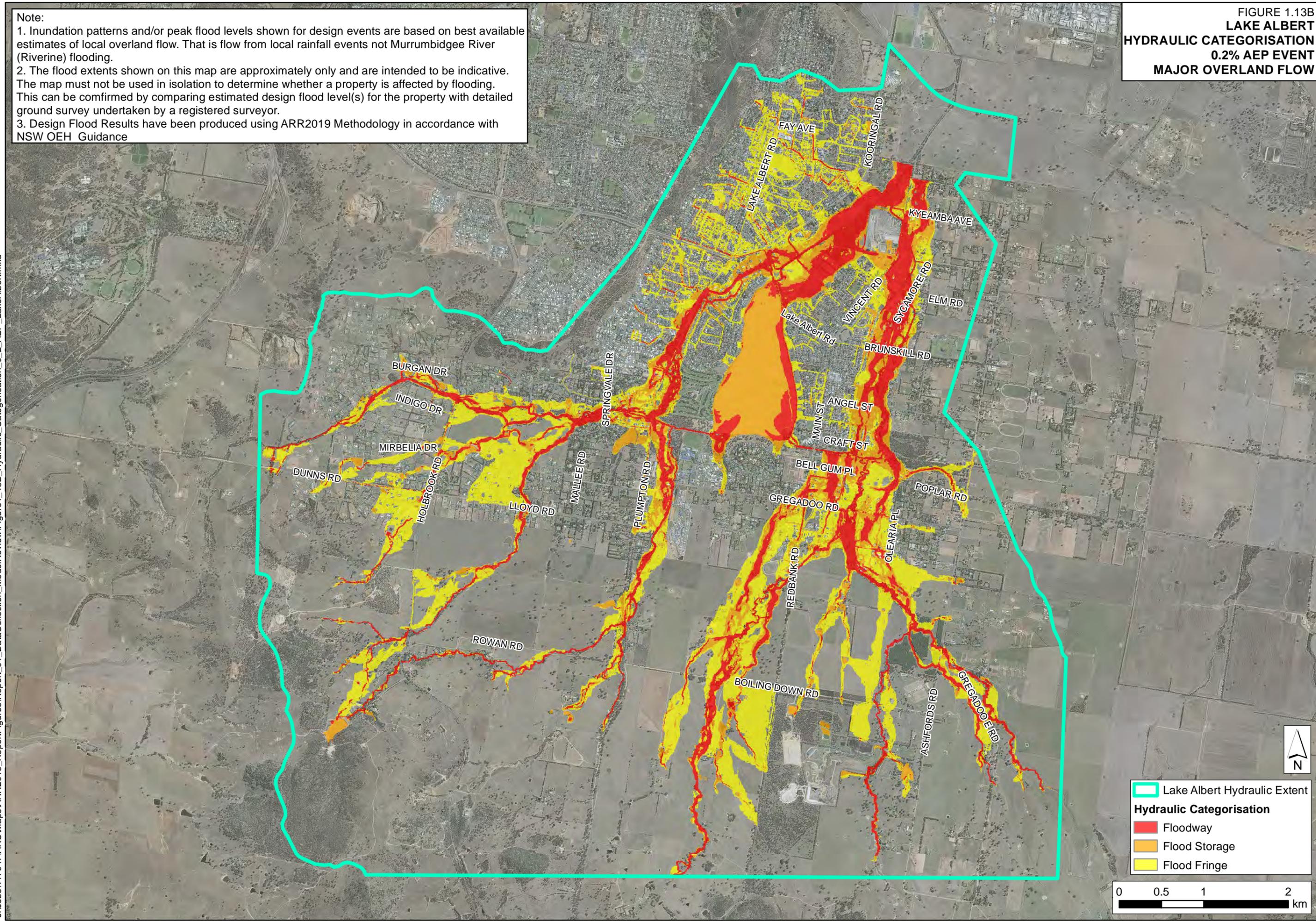
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.13B  
**LAKE ALBERT**  
**HYDRAULIC CATEGORISATION**  
**0.2% AEP EVENT**  
**MAJOR OVERLAND FLOW**

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Lake Albert Hydraulic Extent  
**Hydraulic Categorisation**  
 Floodway  
 Flood Storage  
 Flood Fringe

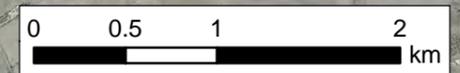
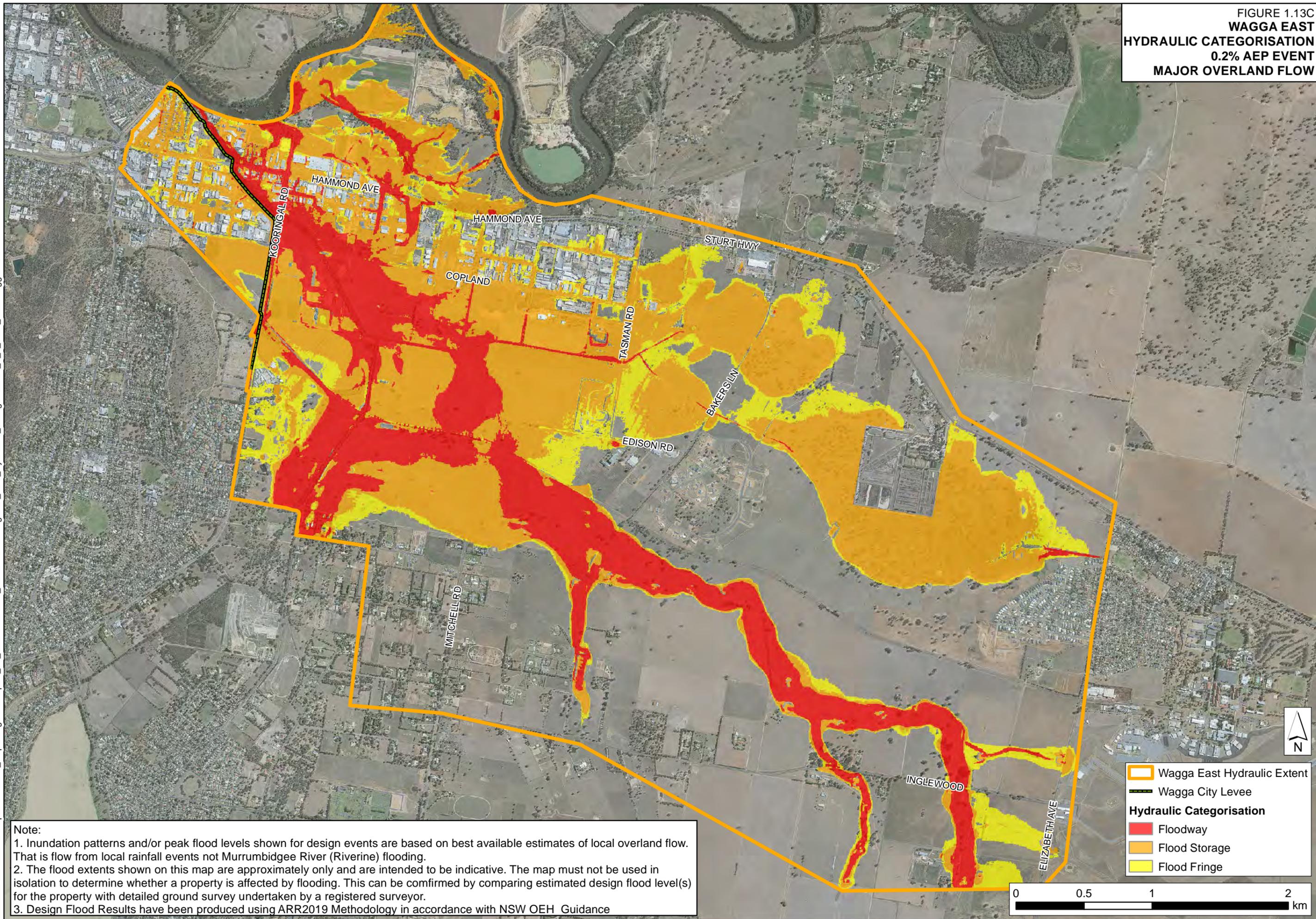


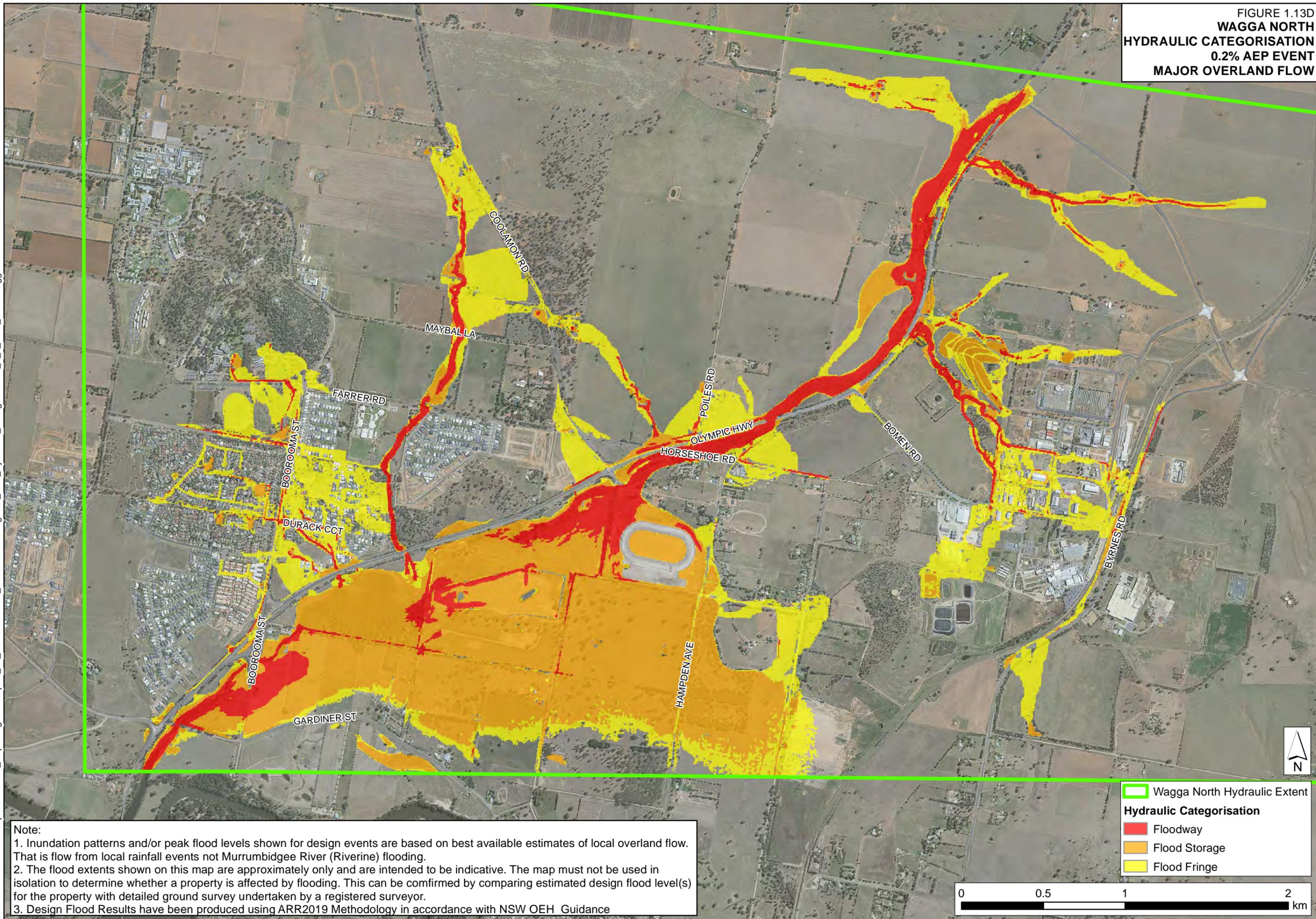
FIGURE 1.13C  
 WAGGA EAST  
 HYDRAULIC CATEGORISATION  
 0.2% AEP EVENT  
 MAJOR OVERLAND FLOW



Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

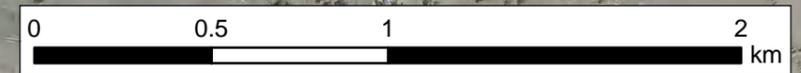
J:\Jobs\117047\ARCMaps\ARR2016\_ReportFigures\Report\_01\_DataCollection\_ModelReview\Figure1\_13C\_Hydraulic\_Categorisation\_0\_2\_AEP\_EastWagga.mxd

FIGURE 1.13D  
**WAGGA NORTH**  
**HYDRAULIC CATEGORISATION**  
**0.2% AEP EVENT**  
**MAJOR OVERLAND FLOW**



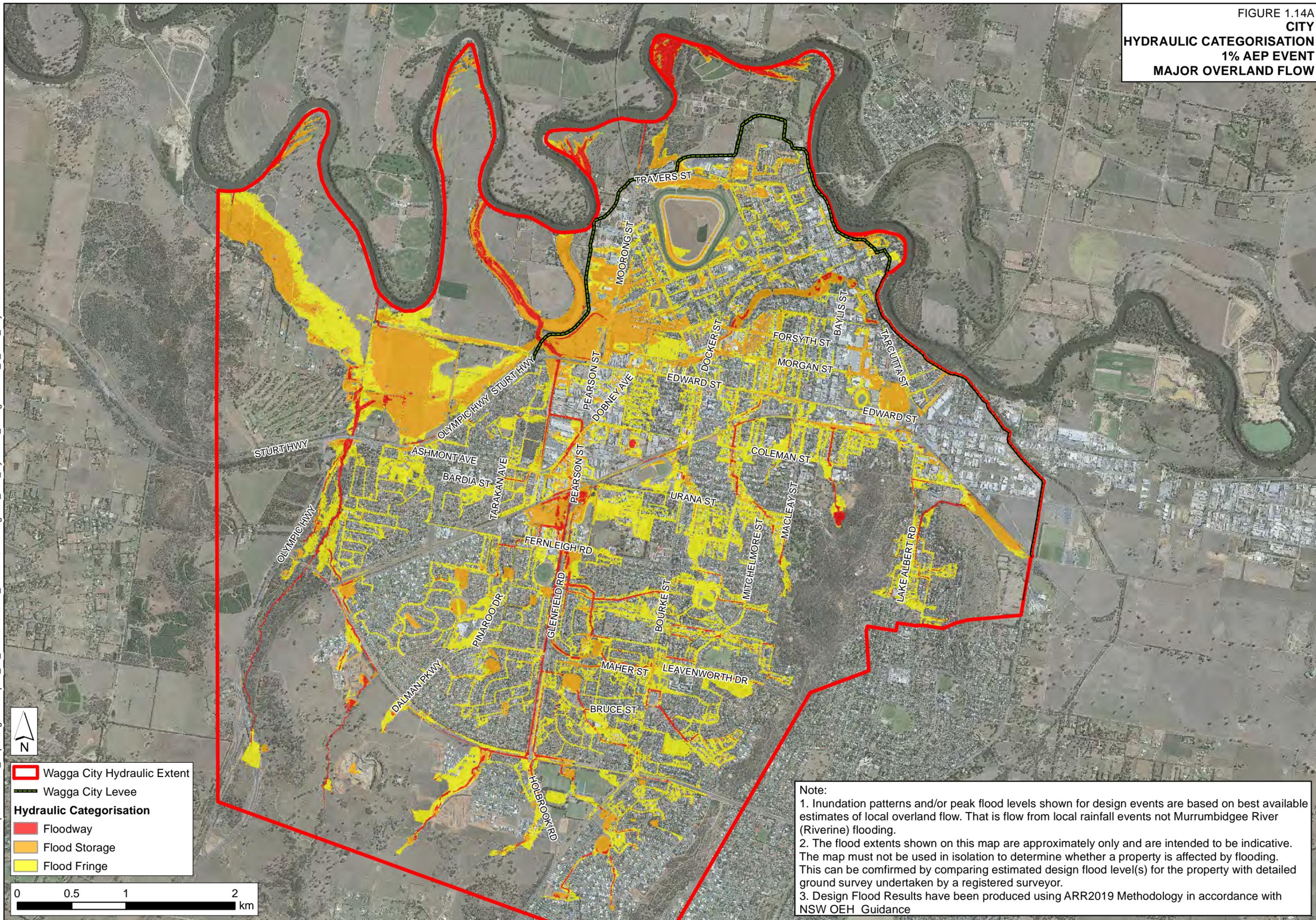
Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga North Hydraulic Extent  
**Hydraulic Categorisation**  
 Floodway  
 Flood Storage  
 Flood Fringe



J:\Jobs\117047\ARC\Maps\ARR2016\_Report\Figures\Report\_01\_DataCollection\_ModelReview\Figure1\_13D\_Hydraulic\_Categorisation\_0\_2\_AEP\_NorthWagga.mxd

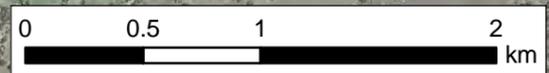
FIGURE 1.14A  
**CITY**  
**HYDRAULIC CATEGORISATION**  
**1% AEP EVENT**  
**MAJOR OVERLAND FLOW**



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- Wagga City Hydraulic Extent
- Wagga City Levee
- Hydraulic Categorisation**
- Floodway
- Flood Storage
- Flood Fringe



**Note:**

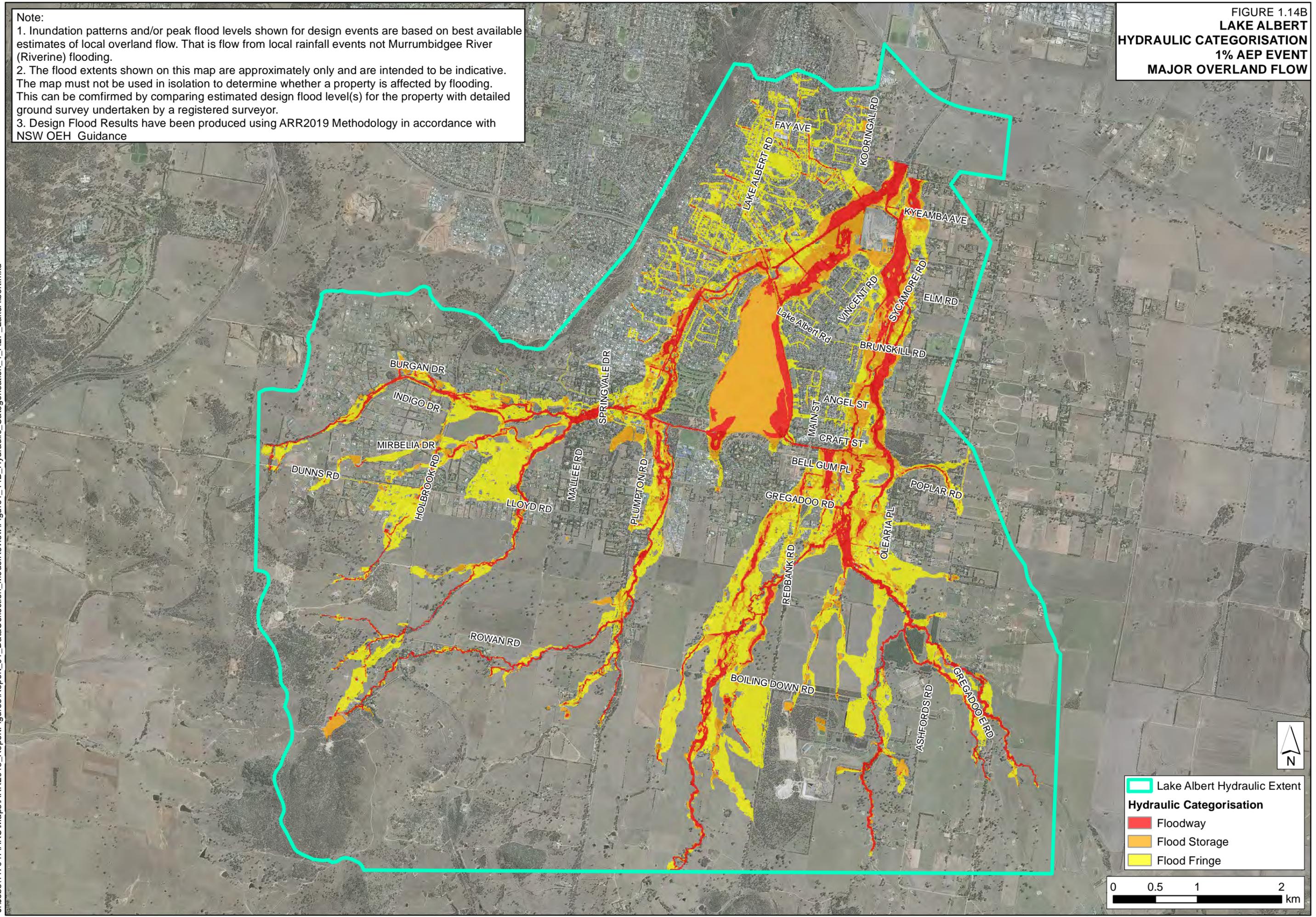
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.14B  
**LAKE ALBERT**  
**HYDRAULIC CATEGORISATION**  
**1% AEP EVENT**  
**MAJOR OVERLAND FLOW**

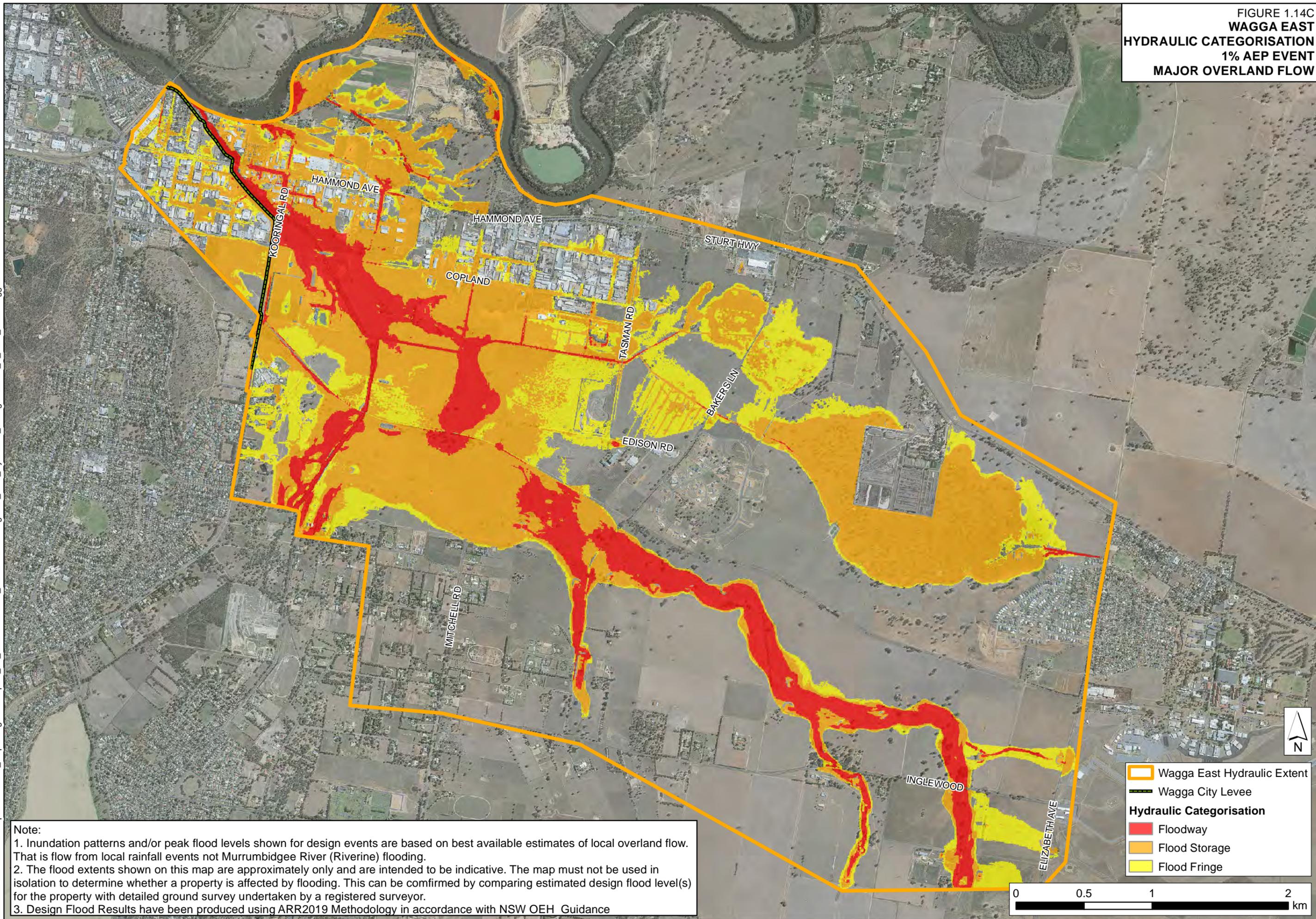
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Lake Albert Hydraulic Extent  
**Hydraulic Categorisation**  
 Floodway  
 Flood Storage  
 Flood Fringe

0 0.5 1 2 km

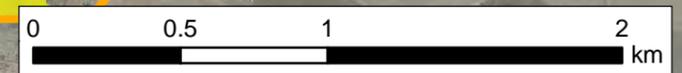
FIGURE 1.14C  
 WAGGA EAST  
 HYDRAULIC CATEGORISATION  
 1% AEP EVENT  
 MAJOR OVERLAND FLOW



Note:

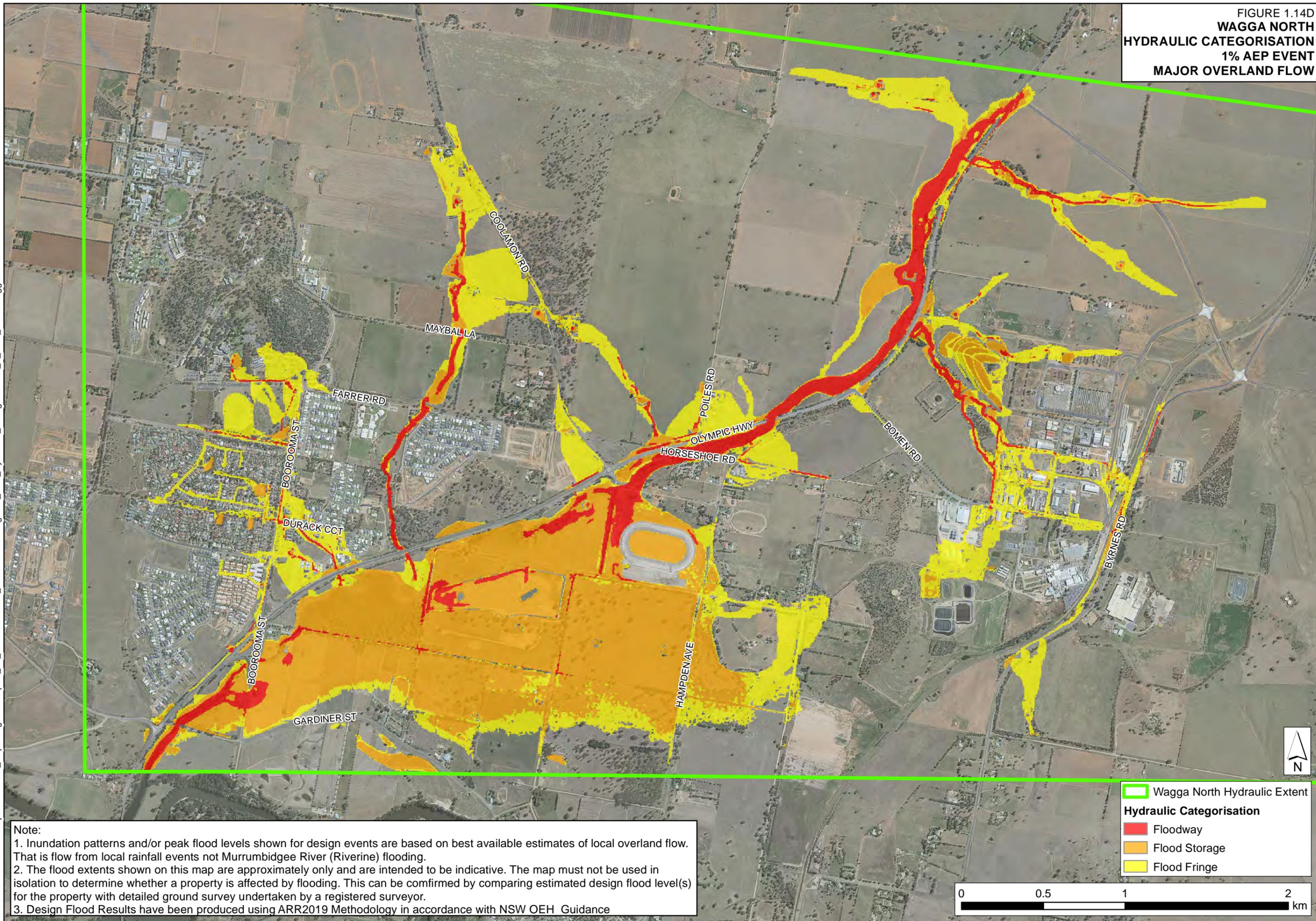
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga East Hydraulic Extent  
 Wagga City Levee  
**Hydraulic Categorisation**  
 Floodway  
 Flood Storage  
 Flood Fringe



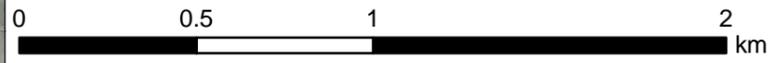
J:\Jobs\17047\ARC\Maps\ARR2016\_ReportFigures\Report\_01\_DataCollection\_ModelReview\Figure1\_14C\_Hydraulic\_Categorisation\_1\_AEP\_EastWagga.mxd

FIGURE 1.14D  
**WAGGA NORTH**  
**HYDRAULIC CATEGORISATION**  
**1% AEP EVENT**  
**MAJOR OVERLAND FLOW**



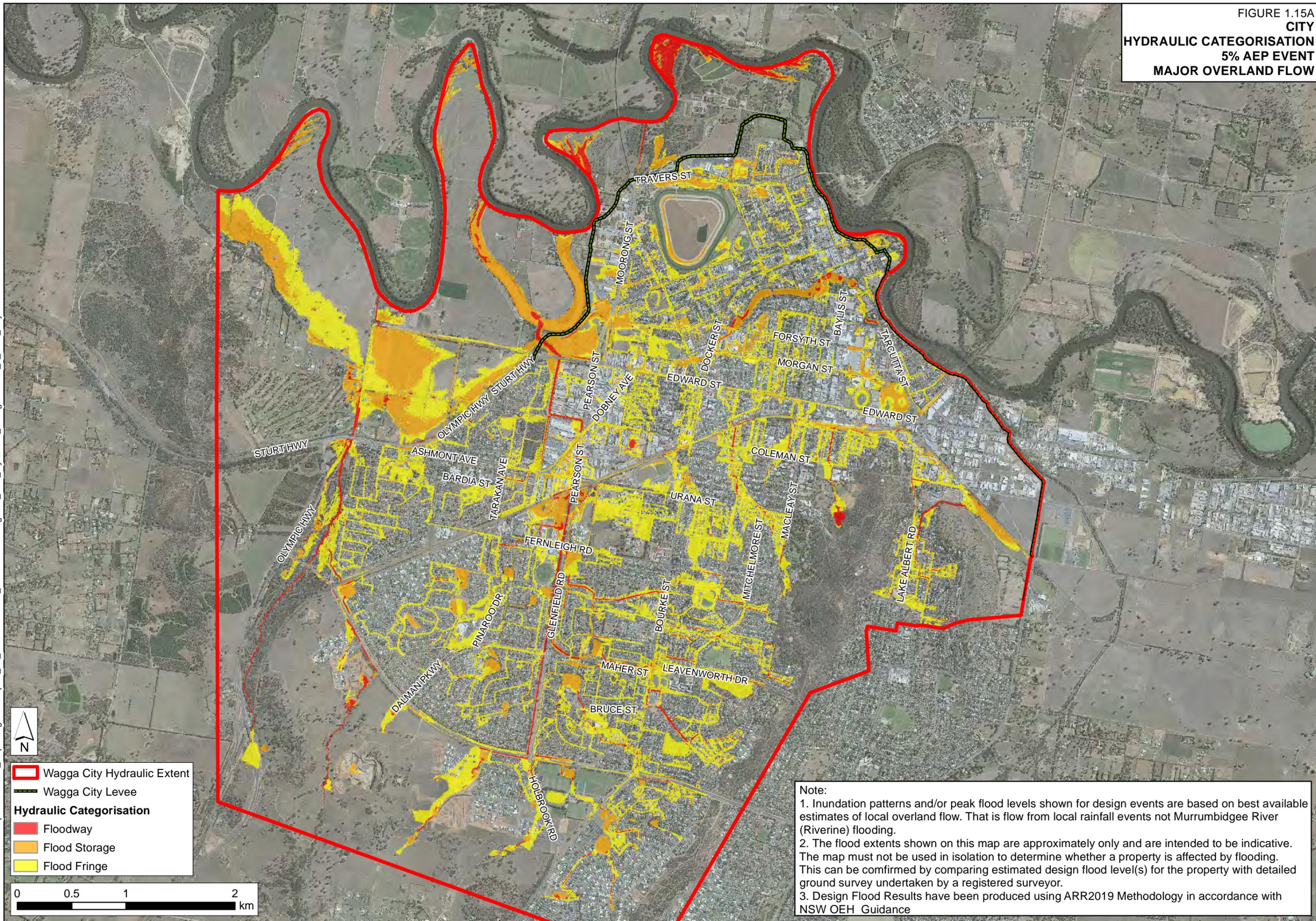
Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga North Hydraulic Extent  
**Hydraulic Categorisation**  
 Floodway  
 Flood Storage  
 Flood Fringe

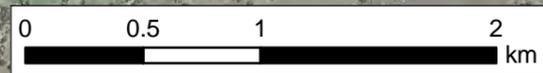


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FIGURE 1.15A  
**CITY**  
**HYDRAULIC CATEGORISATION**  
**5% AEP EVENT**  
**MAJOR OVERLAND FLOW**



  Wagga City Hydraulic Extent  
 Wagga City Levee  
**Hydraulic Categorisation**  
 Floodway  
 Flood Storage  
 Flood Fringe



**Note:**

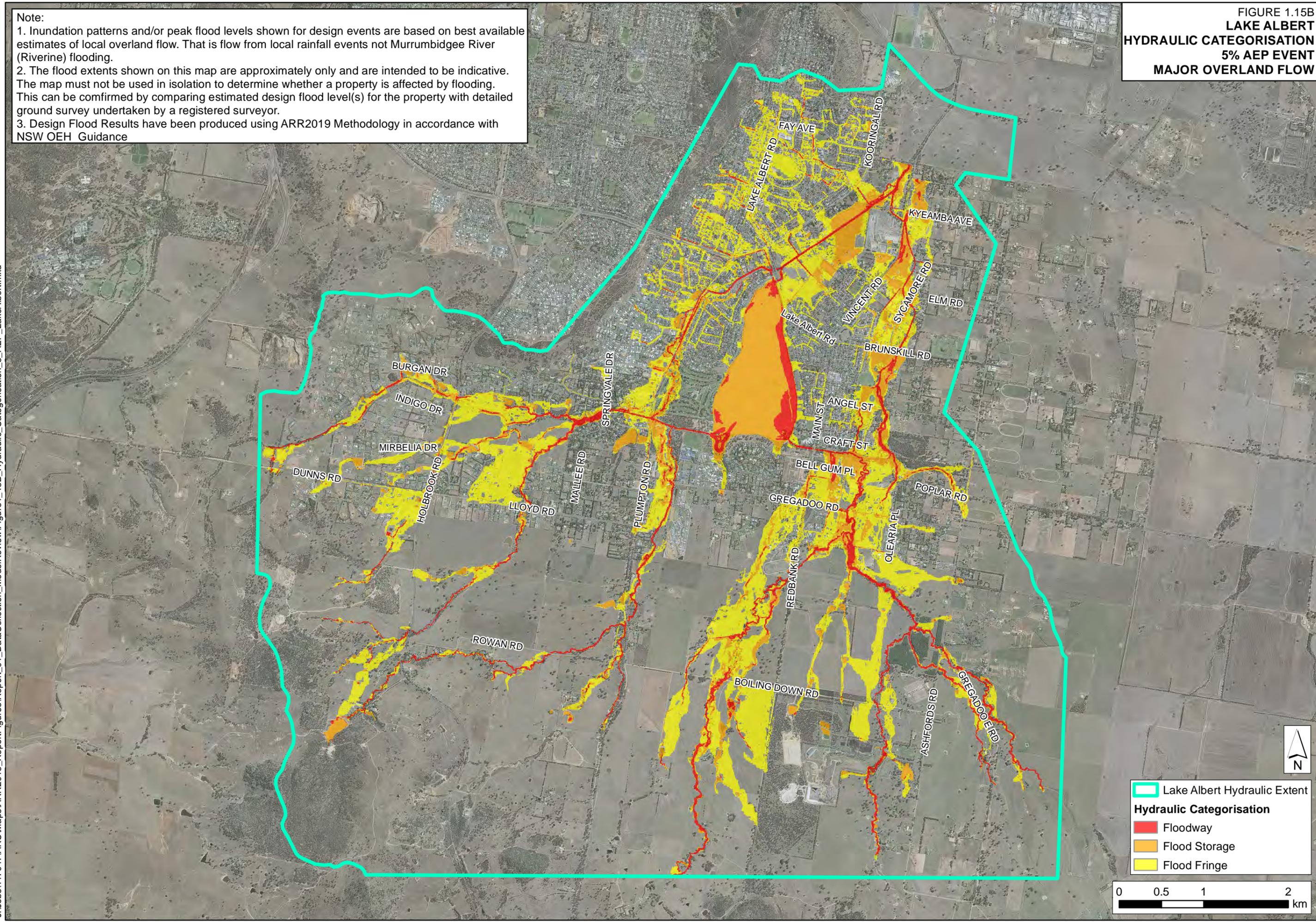
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.15B  
**LAKE ALBERT**  
**HYDRAULIC CATEGORISATION**  
**5% AEP EVENT**  
**MAJOR OVERLAND FLOW**

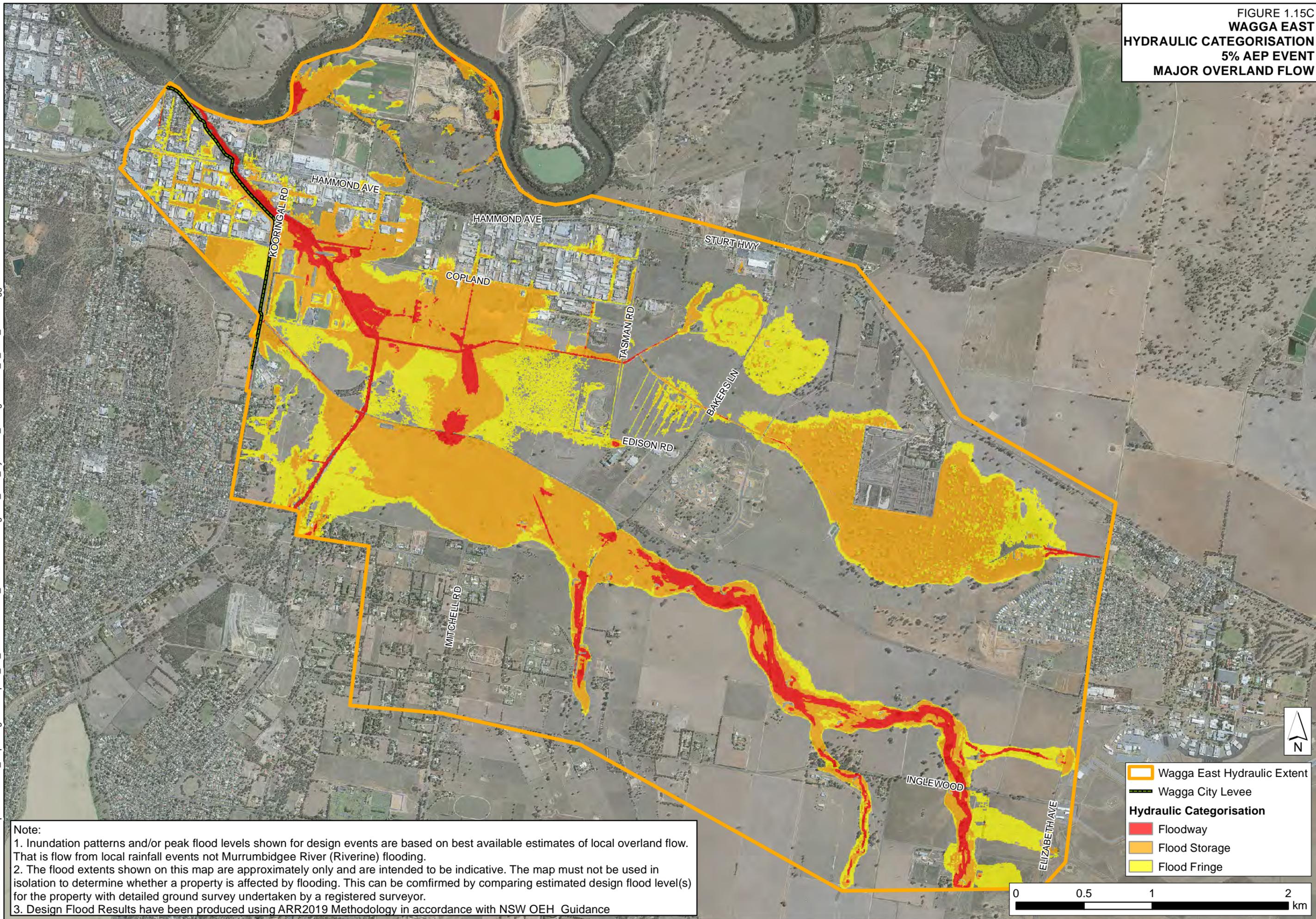
J:\Jobs\117047\ARC\Maps\ARR2016\_Report\Figures\Report\_01\_DataCollection\_ModelReview\Figure1\_15B\_Hydraulic\_Categorisation\_5\_AEP\_LakeAlbert.mxd



Lake Albert Hydraulic Extent  
**Hydraulic Categorisation**  
 Floodway  
 Flood Storage  
 Flood Fringe



FIGURE 1.15C  
 WAGGA EAST  
 HYDRAULIC CATEGORISATION  
 5% AEP EVENT  
 MAJOR OVERLAND FLOW

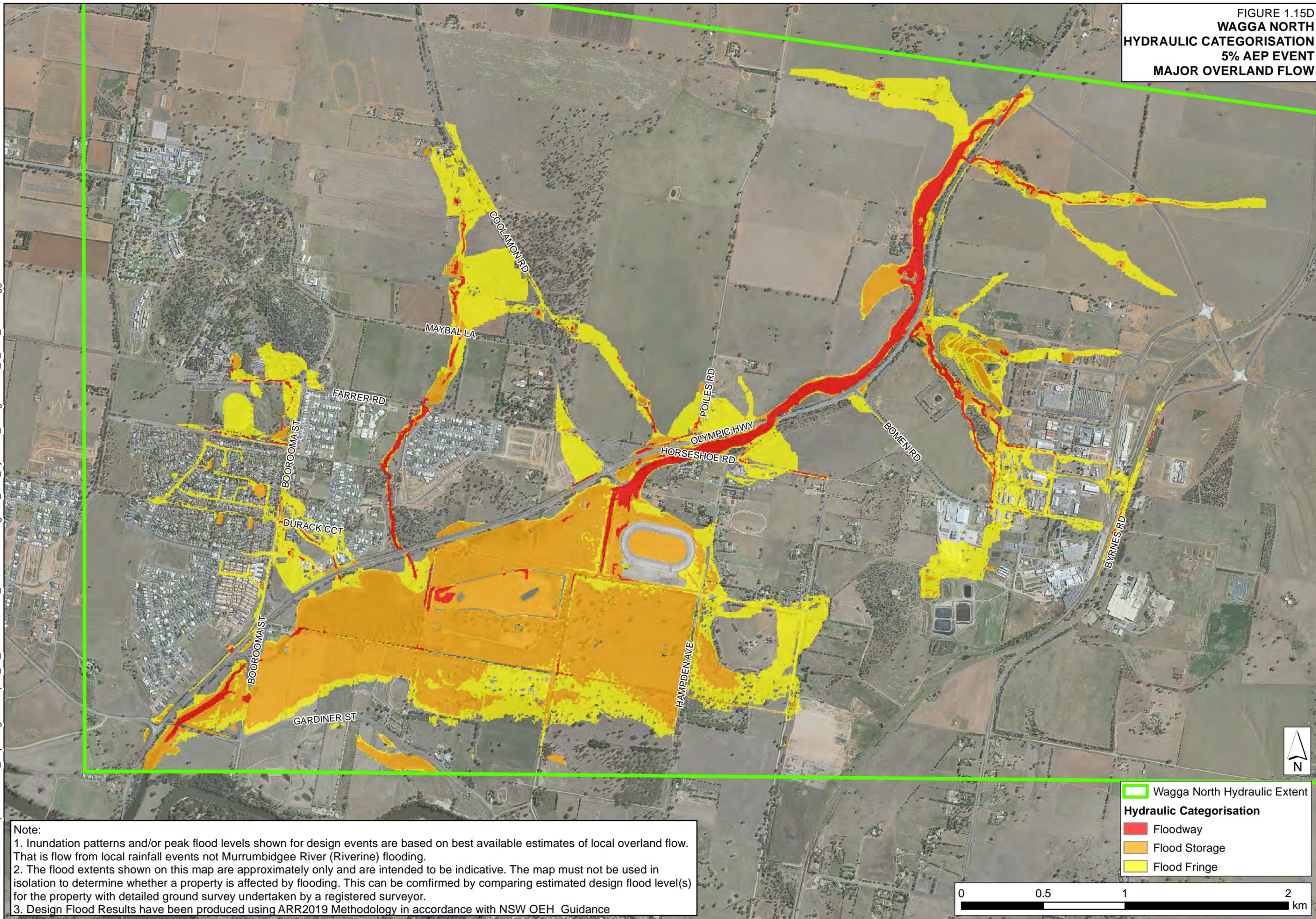


Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

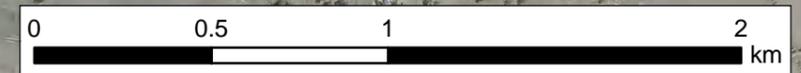
J:\Jobs\17047\ARCMaps\ARR2016\_ReportFigures\Report\_01\_DataCollection\_ModelReview\Figure1\_15C\_Hydraulic\_Categorisation\_5\_AEP\_EastWagga.mxd

FIGURE 1.15D  
**WAGGA NORTH**  
**HYDRAULIC CATEGORISATION**  
**5% AEP EVENT**  
**MAJOR OVERLAND FLOW**



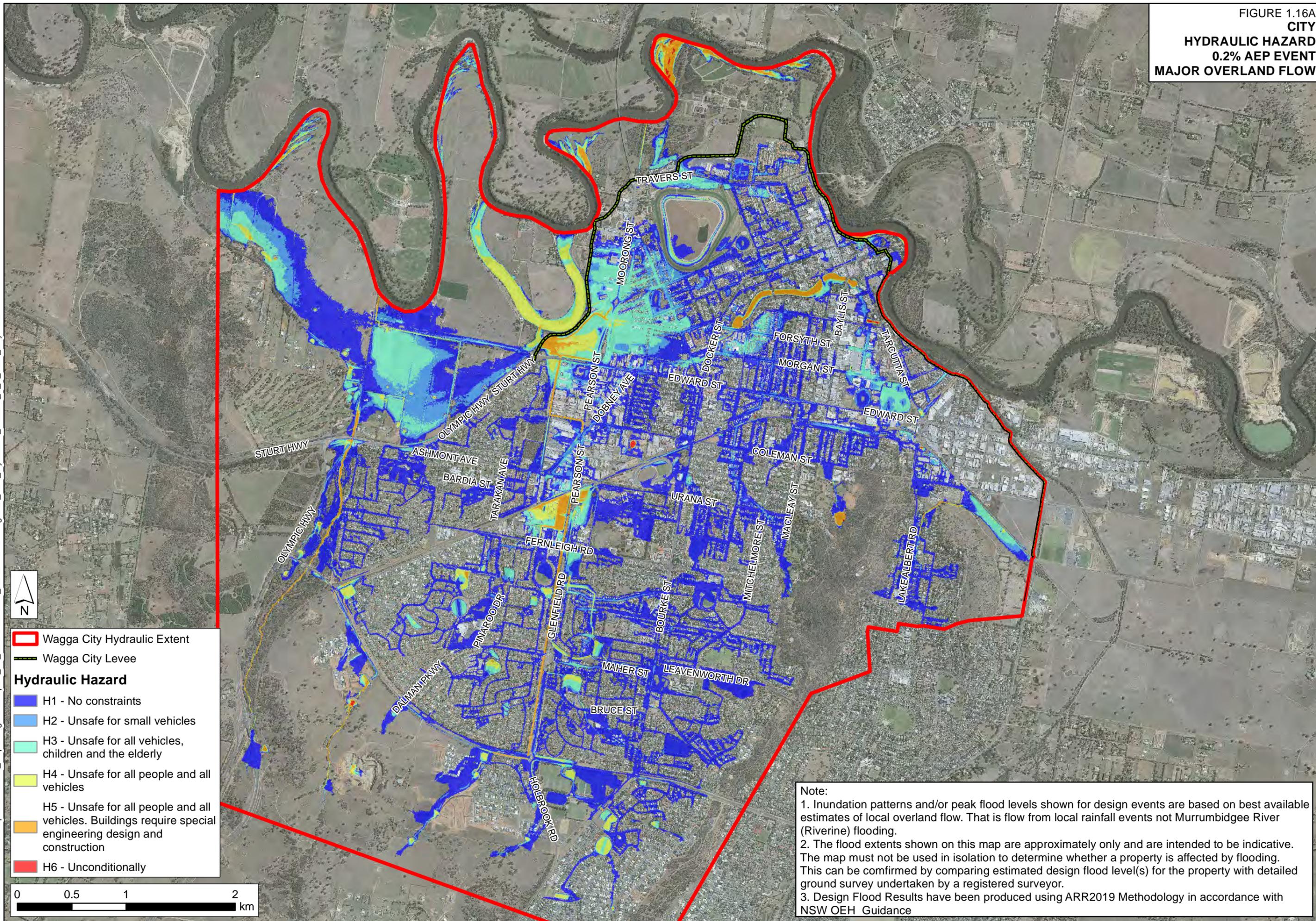
Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Wagga North Hydraulic Extent  
**Hydraulic Categorisation**  
 Floodway  
 Flood Storage  
 Flood Fringe

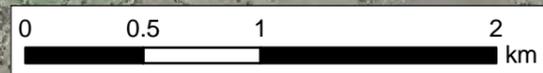


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FIGURE 1.16A  
**CITY**  
**HYDRAULIC HAZARD**  
**0.2% AEP EVENT**  
**MAJOR OVERLAND FLOW**



- Wagga City Hydraulic Extent
- Wagga City Levee
- Hydraulic Hazard**
- H1 - No constraints
- H2 - Unsafe for small vehicles
- H3 - Unsafe for all vehicles, children and the elderly
- H4 - Unsafe for all people and all vehicles
- H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- H6 - Unconditionally



**Note:**

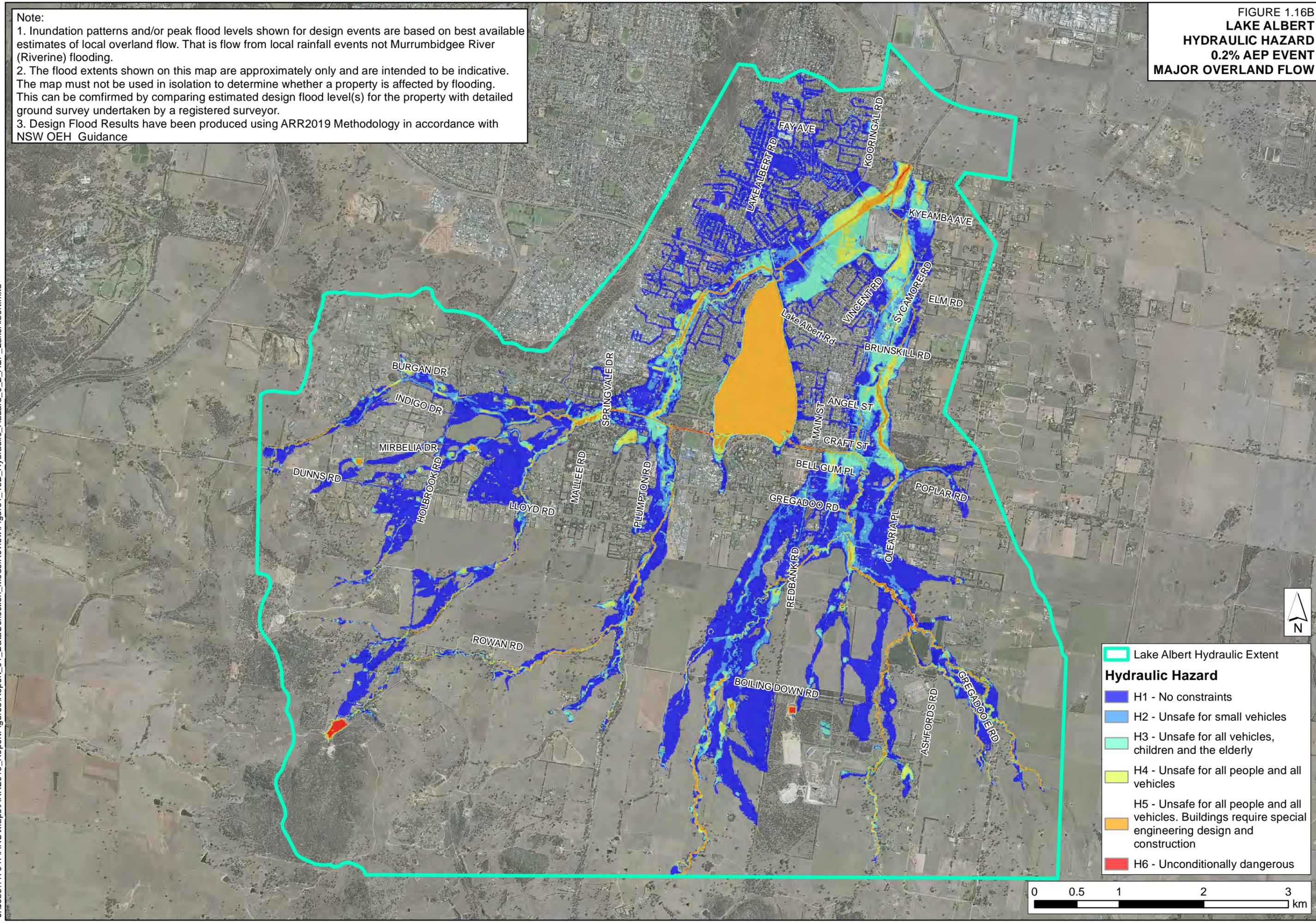
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.16B

**LAKE ALBERT  
HYDRAULIC HAZARD  
0.2% AEP EVENT  
MAJOR OVERLAND FLOW**

Note:  
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

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**Hydraulic Hazard**

- Lake Albert Hydraulic Extent
- H1 - No constraints
- H2 - Unsafe for small vehicles
- H3 - Unsafe for all vehicles, children and the elderly
- H4 - Unsafe for all people and all vehicles
- H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- H6 - Unconditionally dangerous

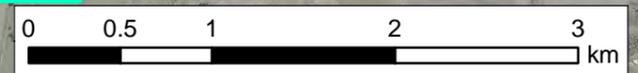
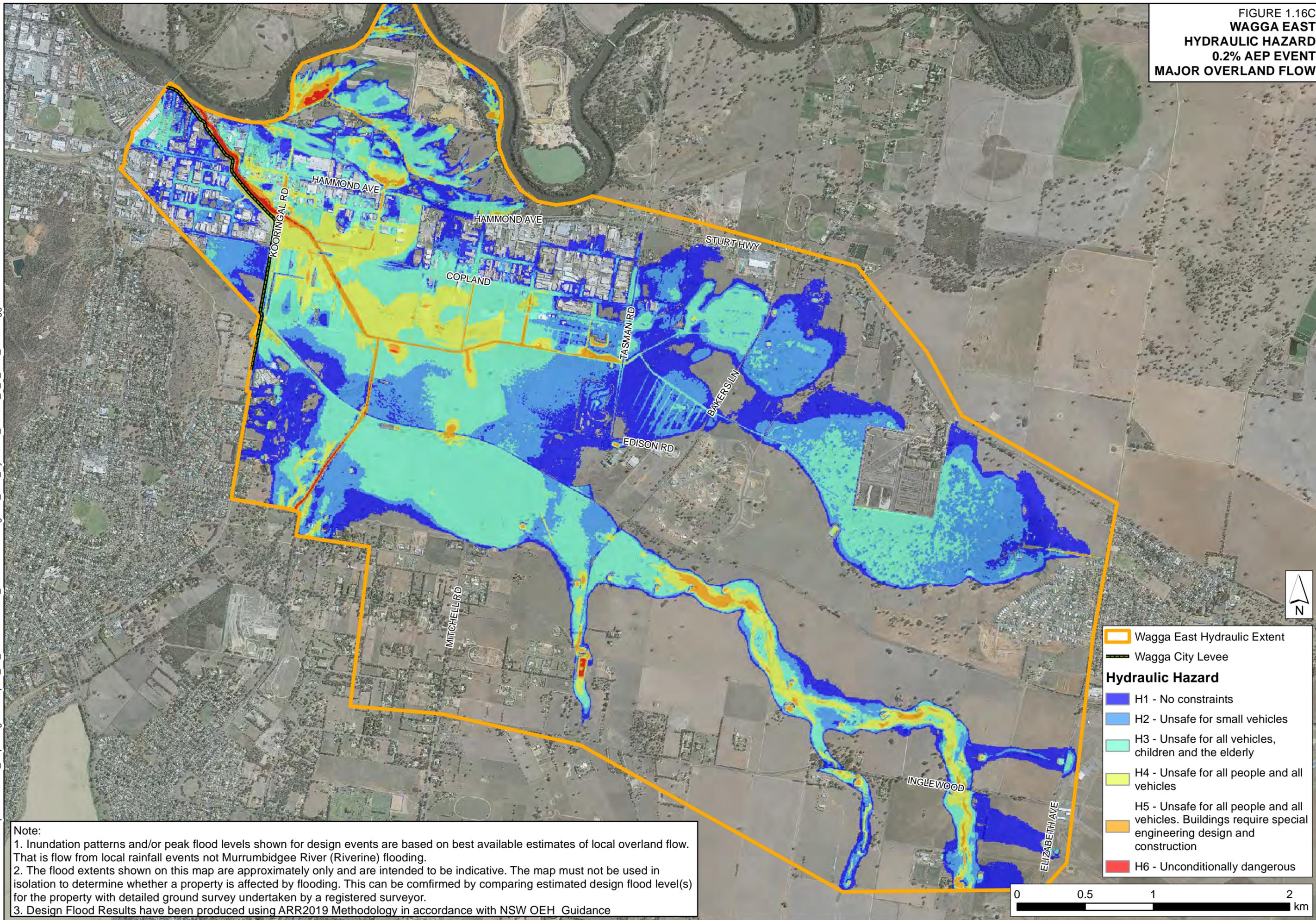


FIGURE 1.16C  
**WAGGA EAST**  
**HYDRAULIC HAZARD**  
**0.2% AEP EVENT**  
**MAJOR OVERLAND FLOW**



Wagga East Hydraulic Extent  
 Wagga City Levee

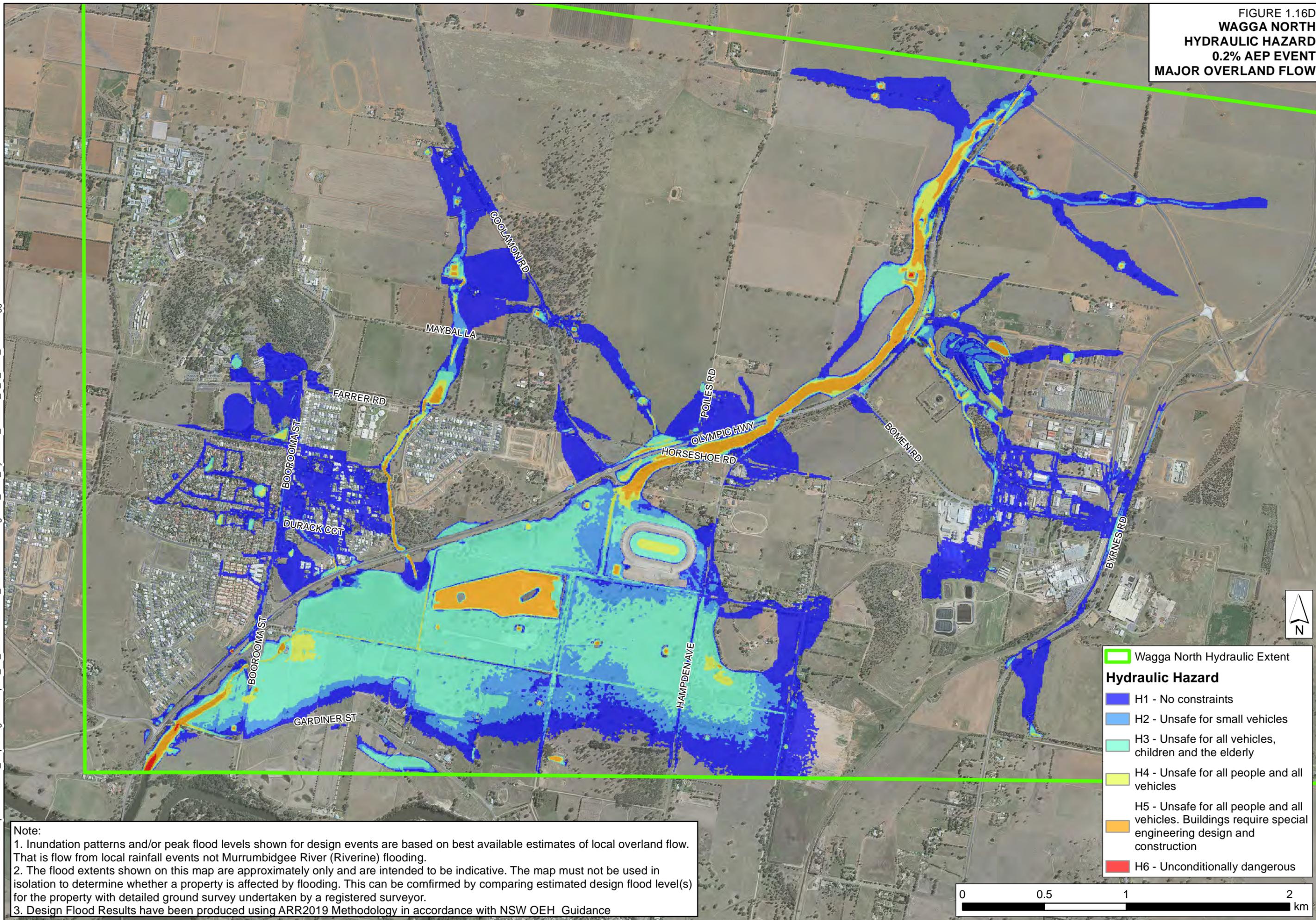
**Hydraulic Hazard**

- H1 - No constraints
- H2 - Unsafe for small vehicles
- H3 - Unsafe for all vehicles, children and the elderly
- H4 - Unsafe for all people and all vehicles
- H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- H6 - Unconditionally dangerous

**Note:**

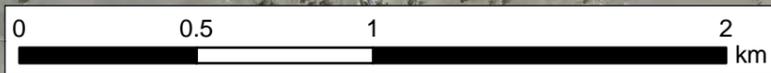
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.16D  
**WAGGA NORTH**  
**HYDRAULIC HAZARD**  
**0.2% AEP EVENT**  
**MAJOR OVERLAND FLOW**



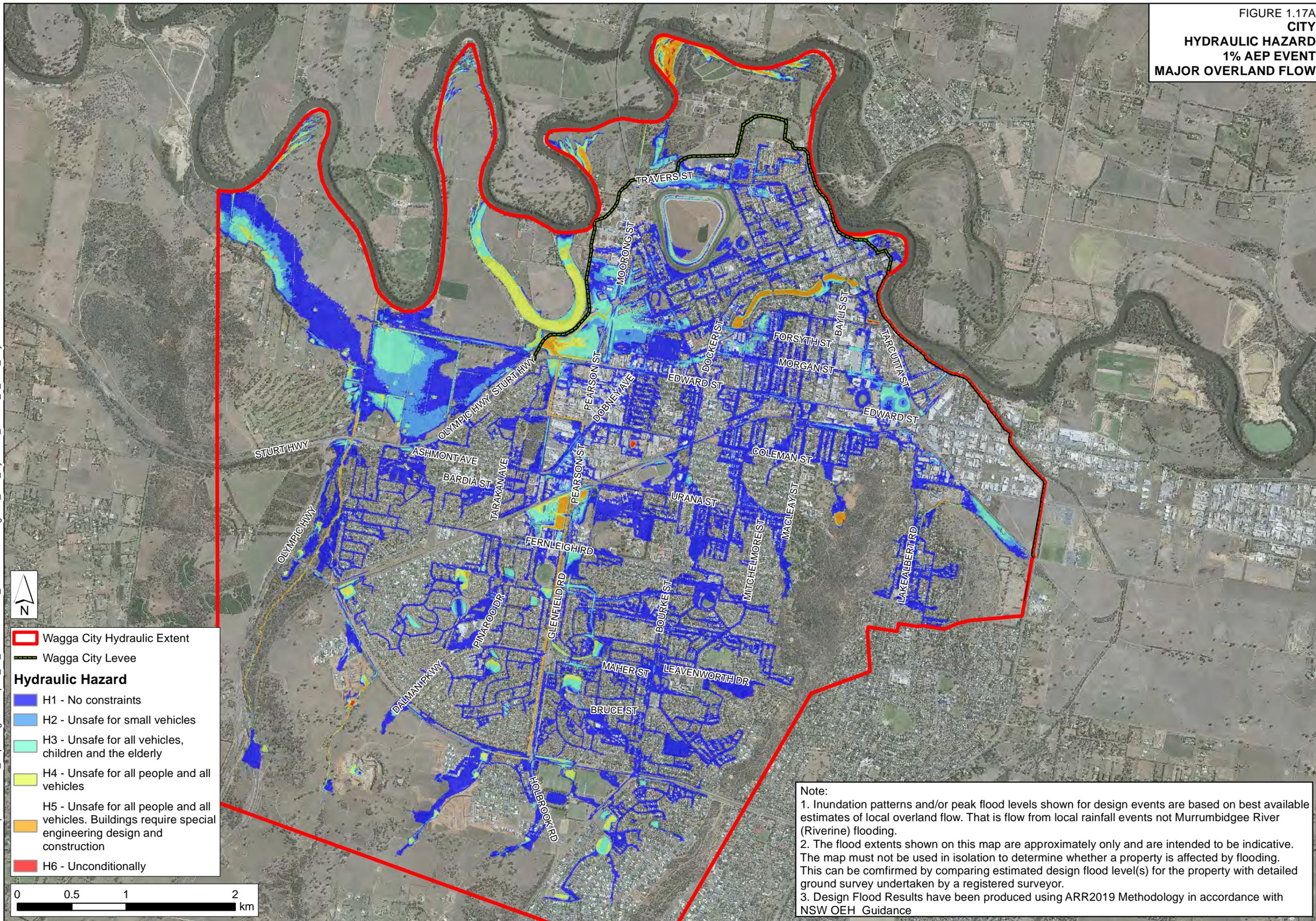
**Note:**  
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 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

- Wagga North Hydraulic Extent
- Hydraulic Hazard**
- H1 - No constraints
- H2 - Unsafe for small vehicles
- H3 - Unsafe for all vehicles, children and the elderly
- H4 - Unsafe for all people and all vehicles
- H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- H6 - Unconditionally dangerous

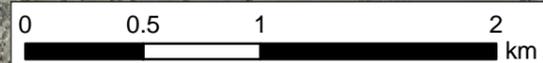


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FIGURE 1.17A  
**CITY**  
**HYDRAULIC HAZARD**  
**1% AEP EVENT**  
**MAJOR OVERLAND FLOW**



- Wagga City Hydraulic Extent
- Wagga City Levee
- Hydraulic Hazard**
- H1 - No constraints
- H2 - Unsafe for small vehicles
- H3 - Unsafe for all vehicles, children and the elderly
- H4 - Unsafe for all people and all vehicles
- H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- H6 - Unconditionally



**Note:**

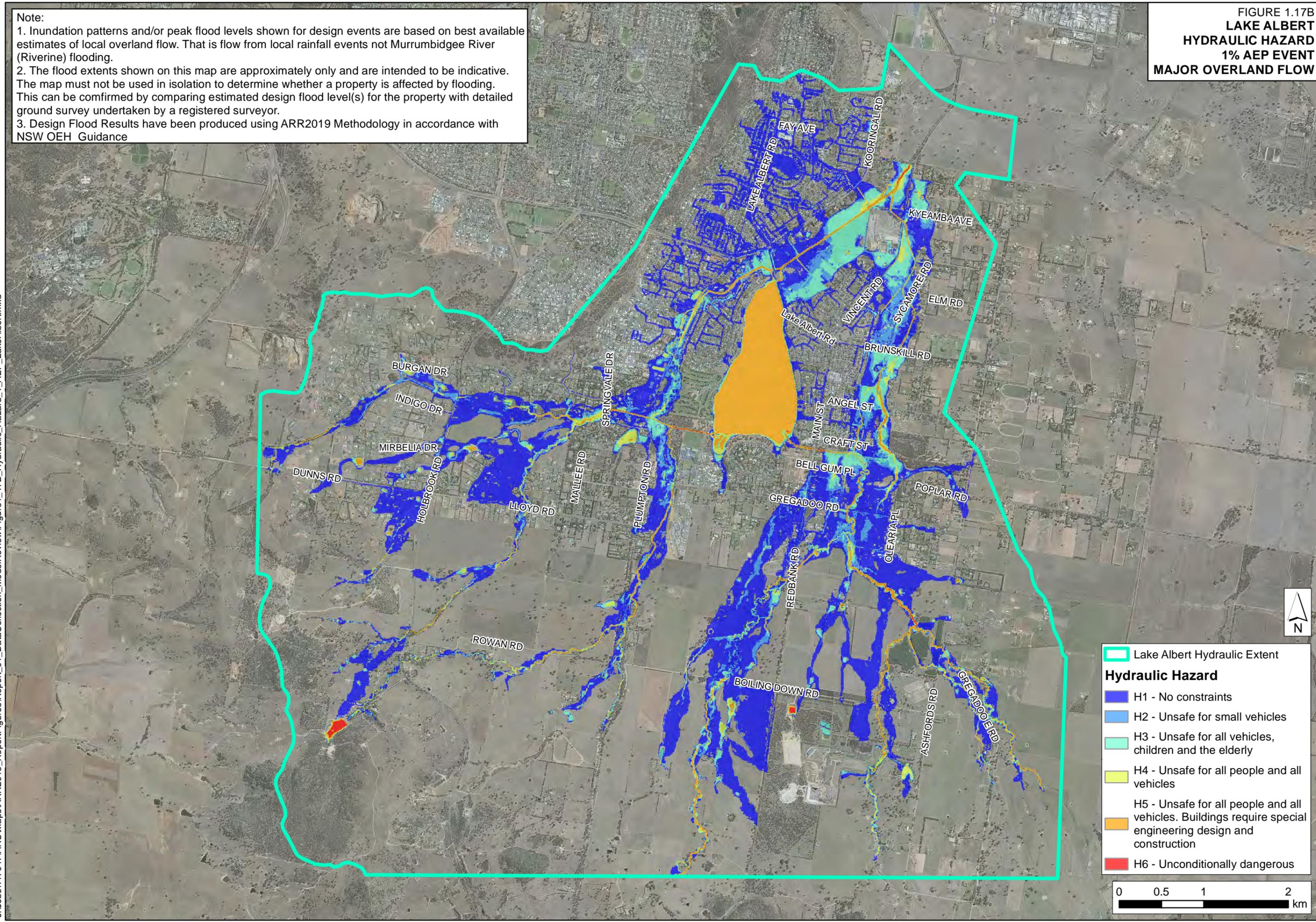
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.17B  
**LAKE ALBERT  
 HYDRAULIC HAZARD  
 1% AEP EVENT  
 MAJOR OVERLAND FLOW**

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**Hydraulic Hazard**

- Lake Albert Hydraulic Extent
- H1 - No constraints
- H2 - Unsafe for small vehicles
- H3 - Unsafe for all vehicles, children and the elderly
- H4 - Unsafe for all people and all vehicles
- H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- H6 - Unconditionally dangerous

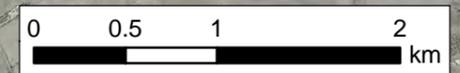
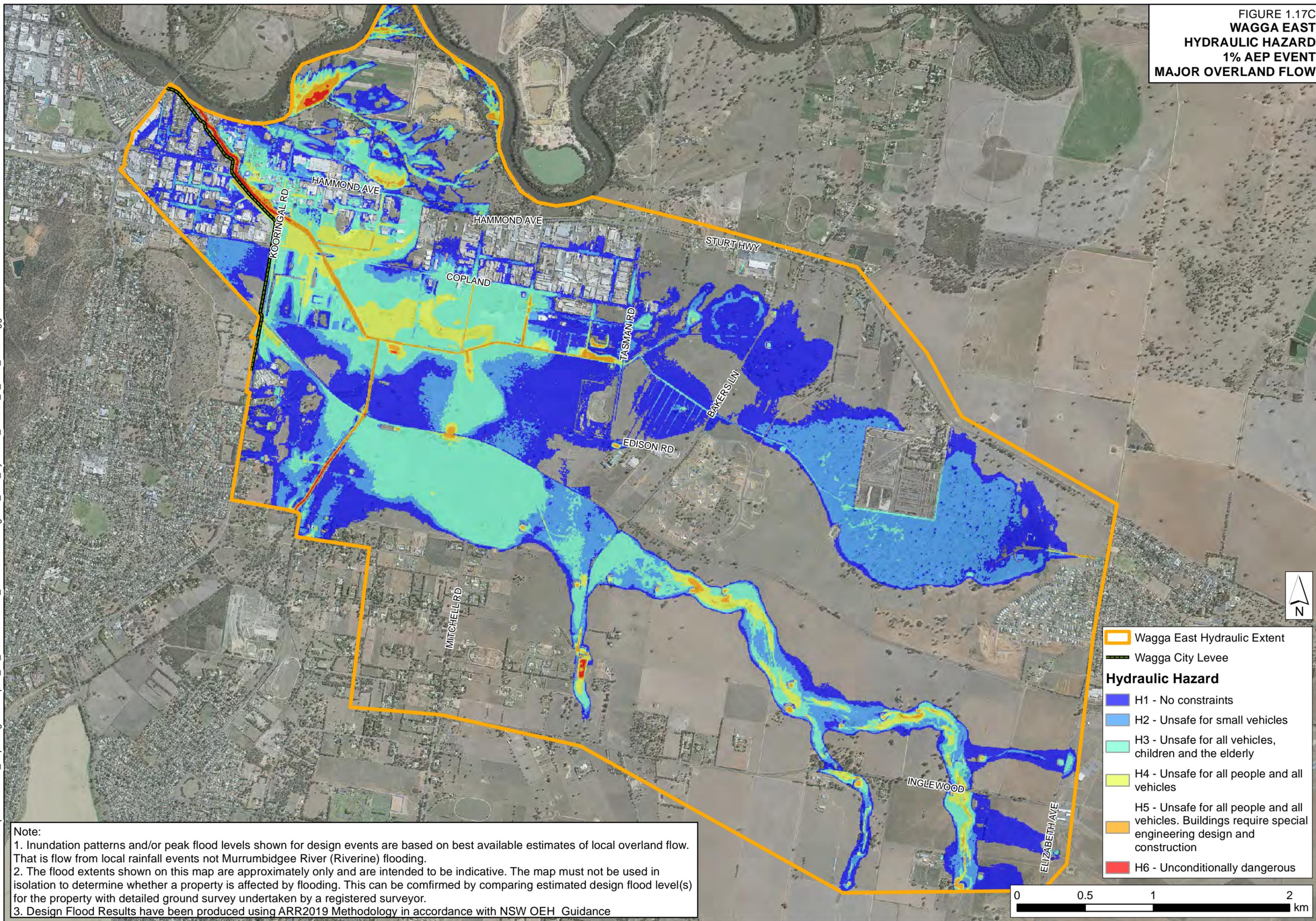


FIGURE 1.17C  
 WAGGA EAST  
 HYDRAULIC HAZARD  
 1% AEP EVENT  
 MAJOR OVERLAND FLOW

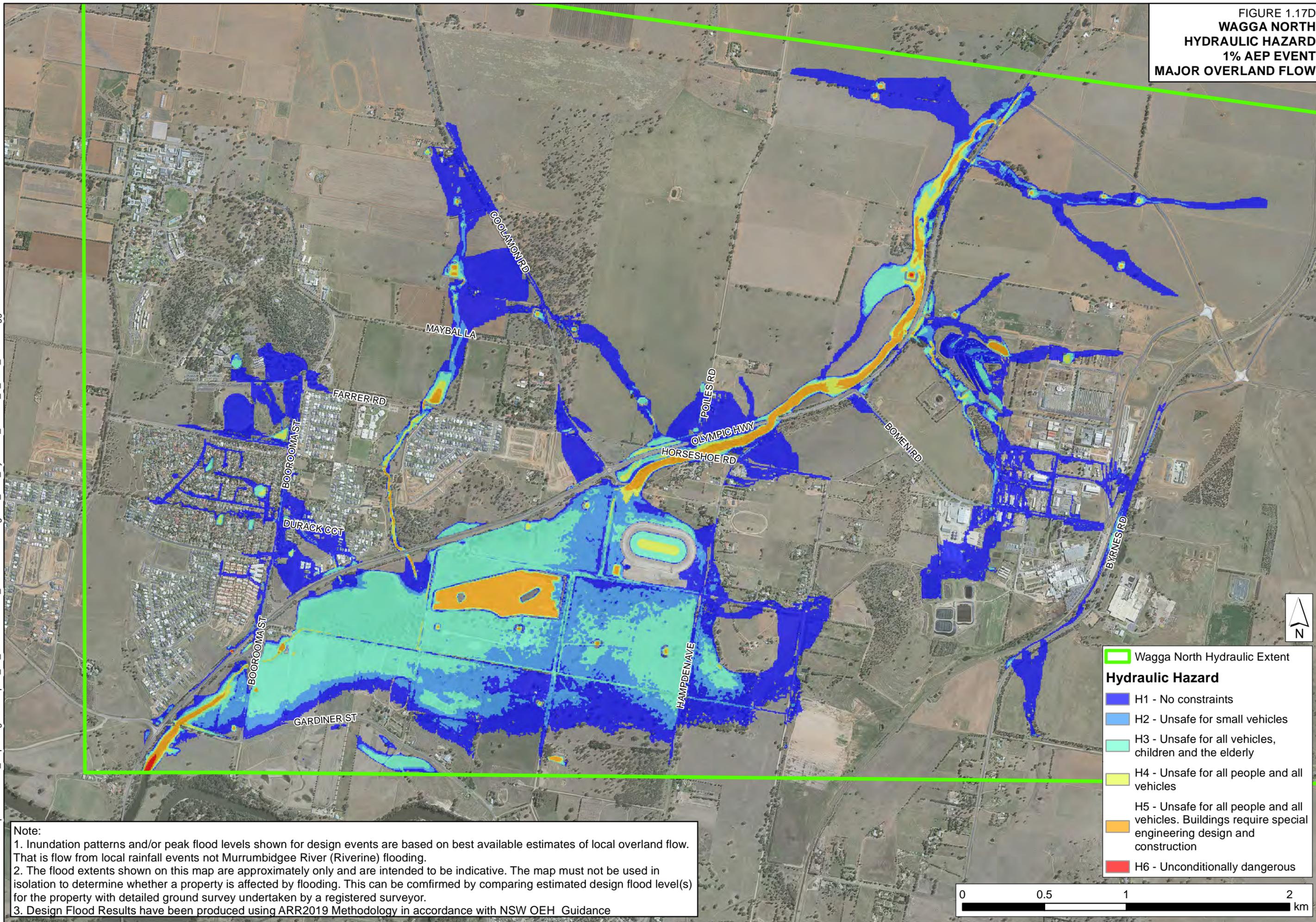


Wagga East Hydraulic Extent  
 Wagga City Levee  
**Hydraulic Hazard**  
 H1 - No constraints  
 H2 - Unsafe for small vehicles  
 H3 - Unsafe for all vehicles, children and the elderly  
 H4 - Unsafe for all people and all vehicles  
 H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction  
 H6 - Unconditionally dangerous

Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
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 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

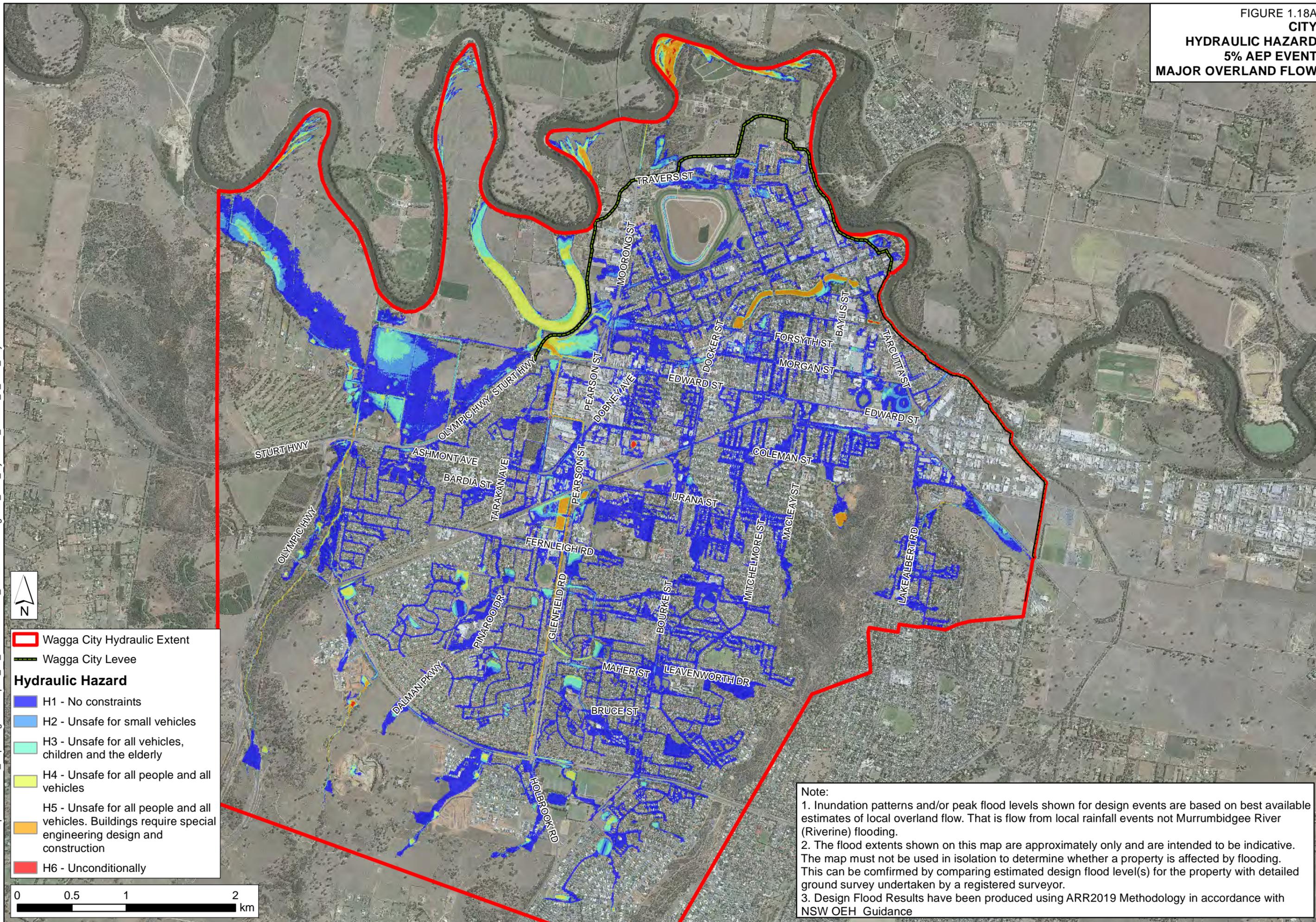
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FIGURE 1.17D  
**WAGGA NORTH  
 HYDRAULIC HAZARD  
 1% AEP EVENT  
 MAJOR OVERLAND FLOW**

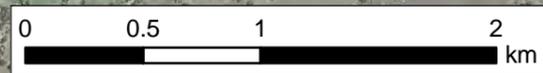


Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.18A  
**CITY**  
**HYDRAULIC HAZARD**  
**5% AEP EVENT**  
**MAJOR OVERLAND FLOW**



- Wagga City Hydraulic Extent
- Wagga City Levee
- Hydraulic Hazard**
- H1 - No constraints
- H2 - Unsafe for small vehicles
- H3 - Unsafe for all vehicles, children and the elderly
- H4 - Unsafe for all people and all vehicles
- H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- H6 - Unconditionally



**Note:**

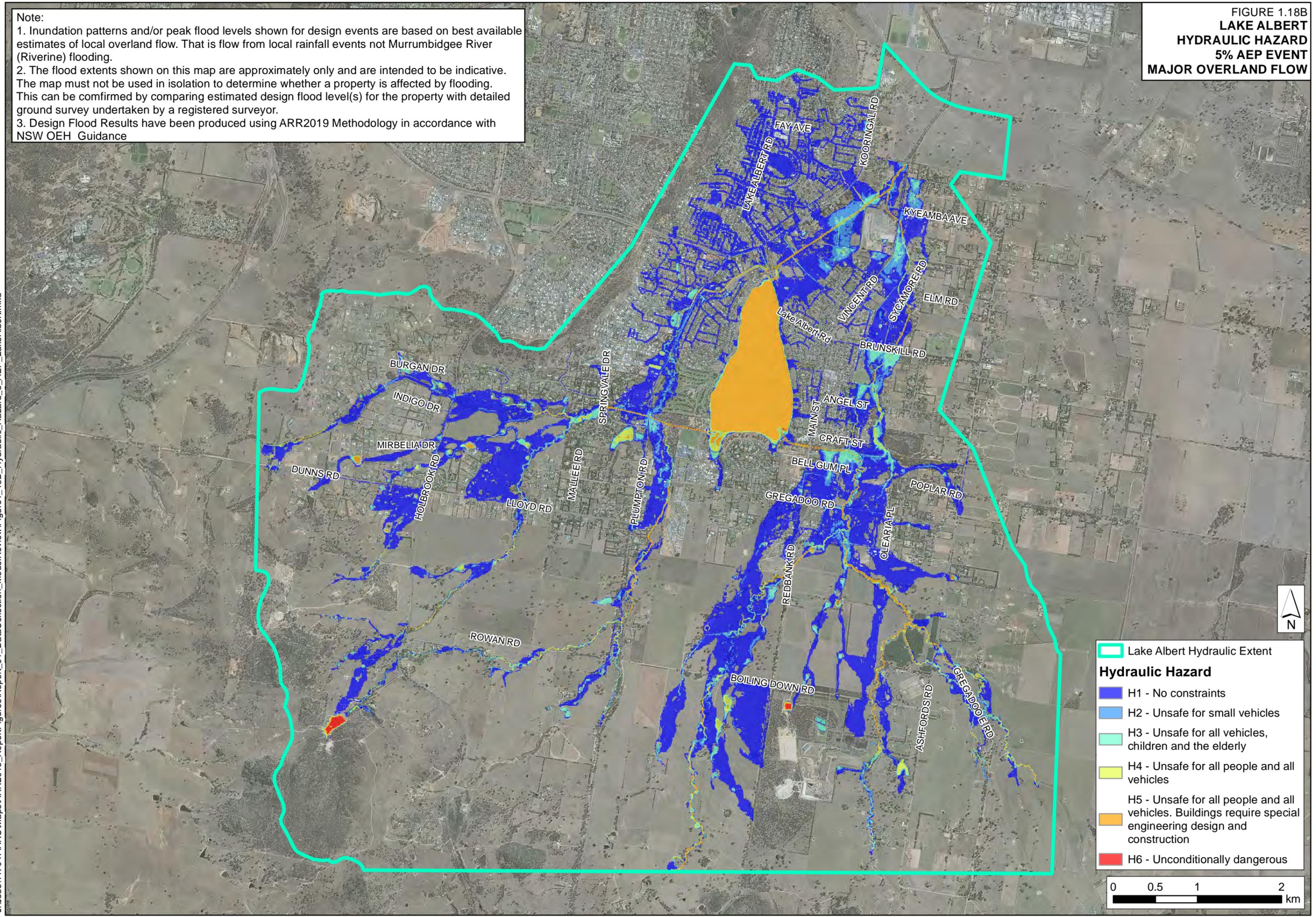
1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

Note:

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

FIGURE 1.18B  
**LAKE ALBERT  
 HYDRAULIC HAZARD  
 5% AEP EVENT  
 MAJOR OVERLAND FLOW**

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**Hydraulic Hazard**

- Lake Albert Hydraulic Extent
- H1 - No constraints
- H2 - Unsafe for small vehicles
- H3 - Unsafe for all vehicles, children and the elderly
- H4 - Unsafe for all people and all vehicles
- H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- H6 - Unconditionally dangerous

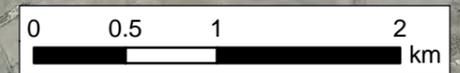
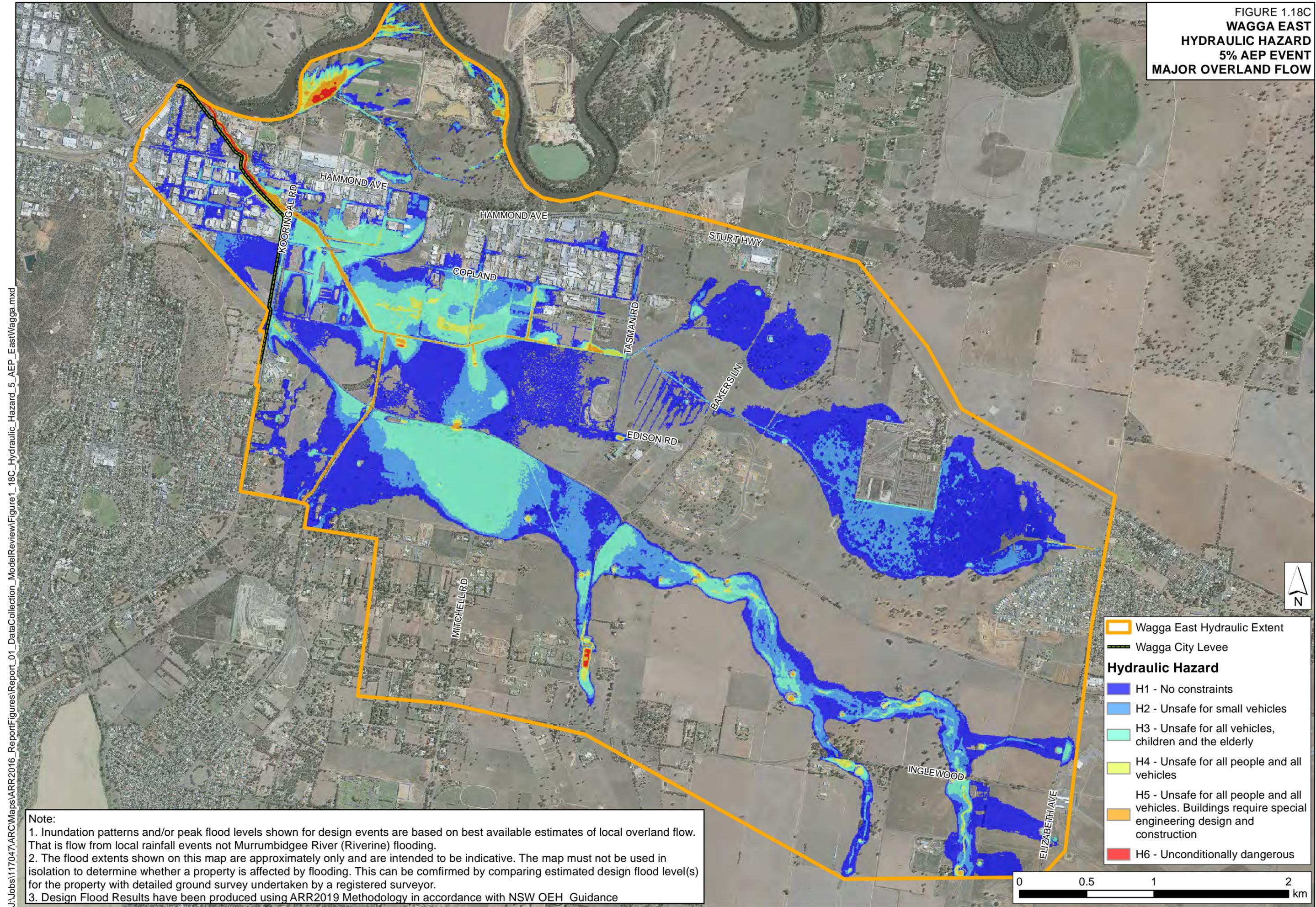


FIGURE 1.18C  
**WAGGA EAST**  
**HYDRAULIC HAZARD**  
**5% AEP EVENT**  
**MAJOR OVERLAND FLOW**



Wagga East Hydraulic Extent  
 Wagga City Levee

**Hydraulic Hazard**

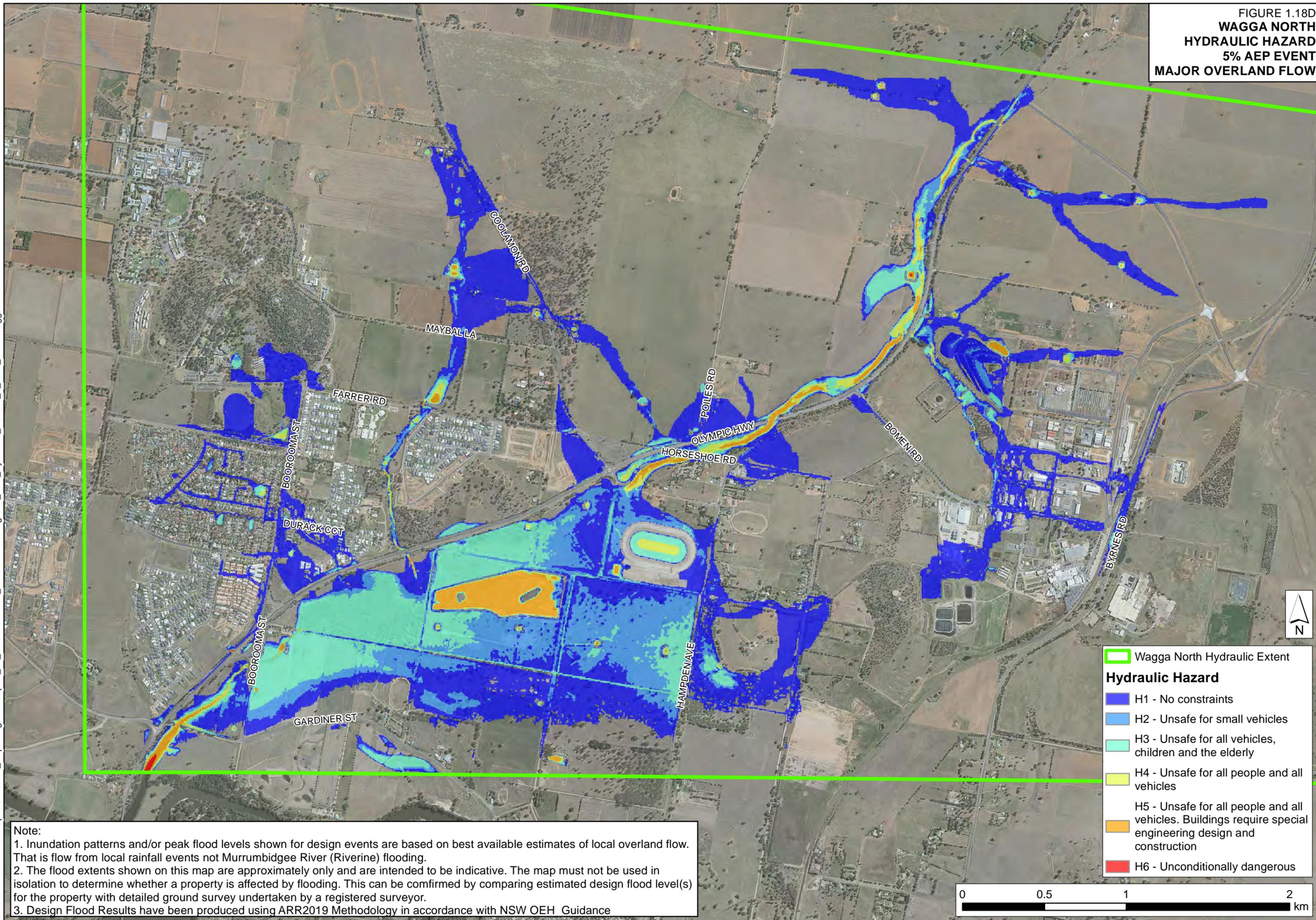
- H1 - No constraints
- H2 - Unsafe for small vehicles
- H3 - Unsafe for all vehicles, children and the elderly
- H4 - Unsafe for all people and all vehicles
- H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- H6 - Unconditionally dangerous

**Note:**

1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.
2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.
3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

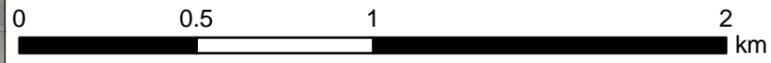
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FIGURE 1.18D  
**WAGGA NORTH  
 HYDRAULIC HAZARD  
 5% AEP EVENT  
 MAJOR OVERLAND FLOW**



Note:  
 1. Inundation patterns and/or peak flood levels shown for design events are based on best available estimates of local overland flow. That is flow from local rainfall events not Murrumbidgee River (Riverine) flooding.  
 2. The flood extents shown on this map are approximately only and are intended to be indicative. The map must not be used in isolation to determine whether a property is affected by flooding. This can be confirmed by comparing estimated design flood level(s) for the property with detailed ground survey undertaken by a registered surveyor.  
 3. Design Flood Results have been produced using ARR2019 Methodology in accordance with NSW OEH Guidance

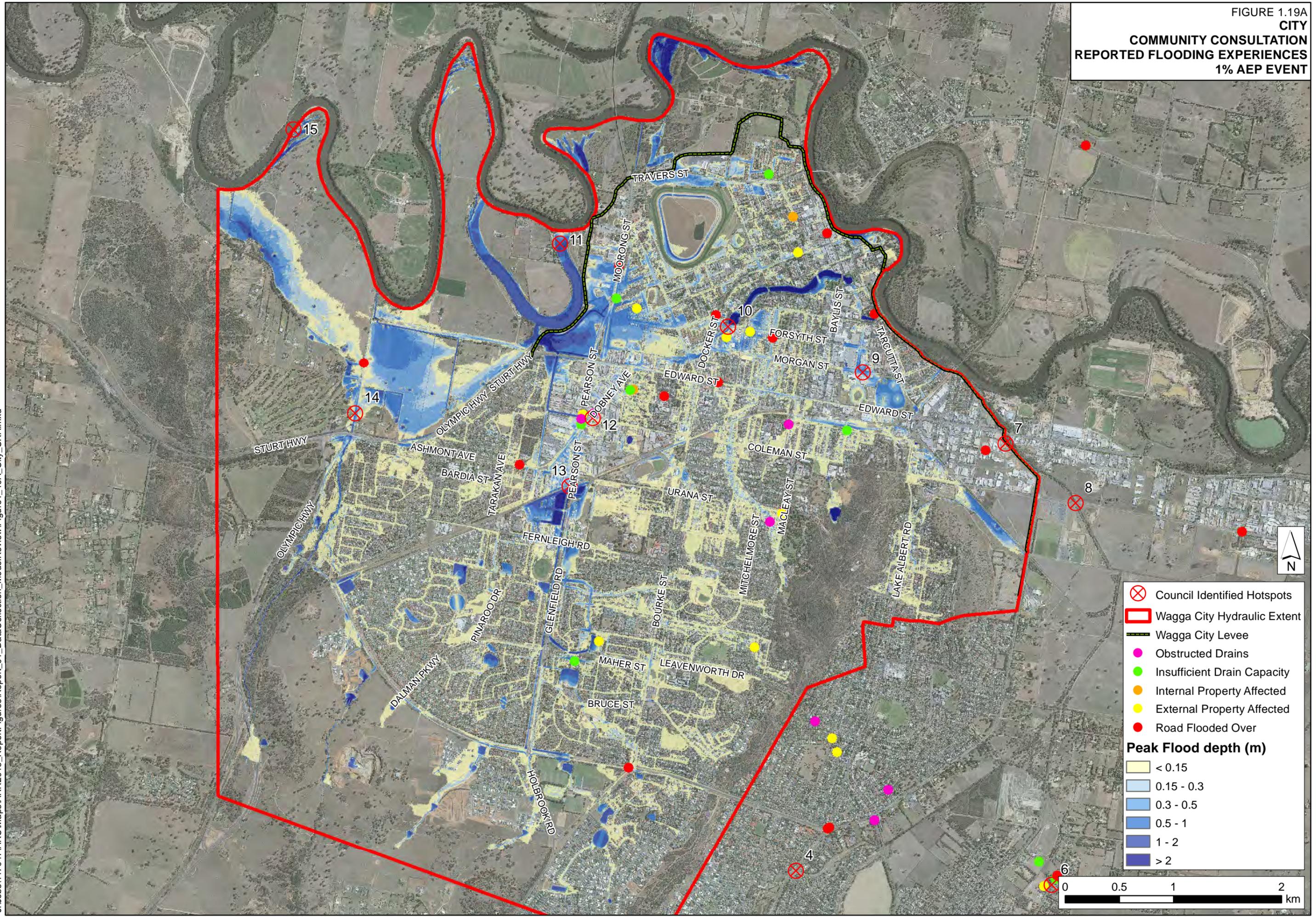
- Wagga North Hydraulic Extent
- Hydraulic Hazard**
- H1 - No constraints
- H2 - Unsafe for small vehicles
- H3 - Unsafe for all vehicles, children and the elderly
- H4 - Unsafe for all people and all vehicles
- H5 - Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- H6 - Unconditionally dangerous



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FIGURE 1.19A  
**CITY**  
**COMMUNITY CONSULTATION**  
**REPORTED FLOODING EXPERIENCES**  
**1% AEP EVENT**

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- Council Identified Hotspots
- Wagga City Hydraulic Extent
- Wagga City Levee
- Obstructed Drains
- Insufficient Drain Capacity
- Internal Property Affected
- External Property Affected
- Road Flooded Over

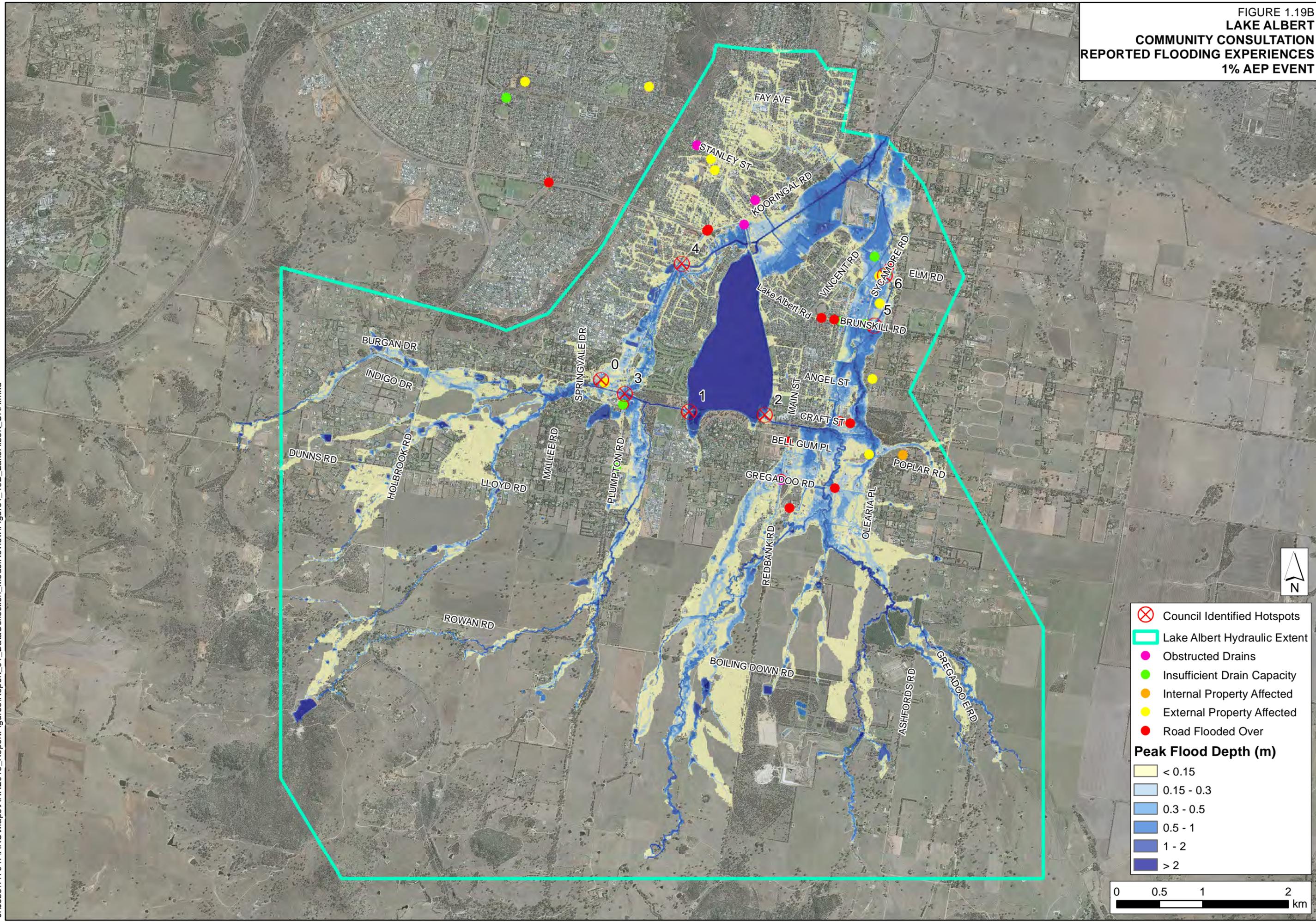
**Peak Flood depth (m)**

- < 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- > 2

0 0.5 1 2 km

FIGURE 1.19B  
**LAKE ALBERT**  
**COMMUNITY CONSULTATION**  
**REPORTED FLOODING EXPERIENCES**  
**1% AEP EVENT**

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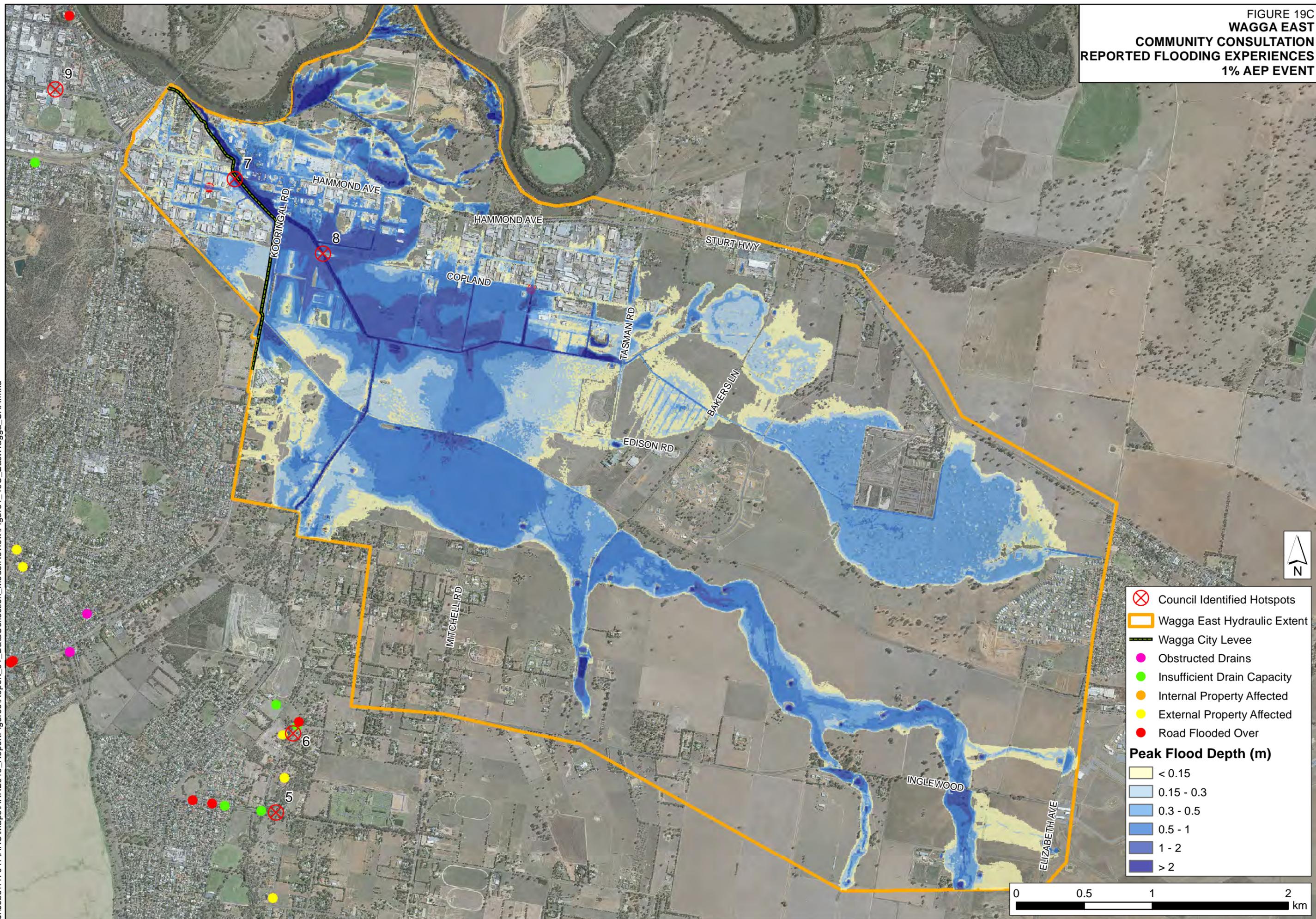


- Council Identified Hotspots
  - Lake Albert Hydraulic Extent
  - Obstructed Drains
  - Insufficient Drain Capacity
  - Internal Property Affected
  - External Property Affected
  - Road Flooded Over
- Peak Flood Depth (m)**
- < 0.15
  - 0.15 - 0.3
  - 0.3 - 0.5
  - 0.5 - 1
  - 1 - 2
  - > 2



FIGURE 19C  
**WAGGA EAST**  
**COMMUNITY CONSULTATION**  
**REPORTED FLOODING EXPERIENCES**  
**1% AEP EVENT**

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- Council Identified Hotspots
  - Wagga East Hydraulic Extent
  - Wagga City Levee
  - Obstructed Drains
  - Insufficient Drain Capacity
  - Internal Property Affected
  - External Property Affected
  - Road Flooded Over
- Peak Flood Depth (m)**
- < 0.15
  - 0.15 - 0.3
  - 0.3 - 0.5
  - 0.5 - 1
  - 1 - 2
  - > 2

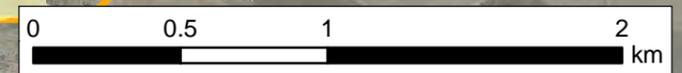
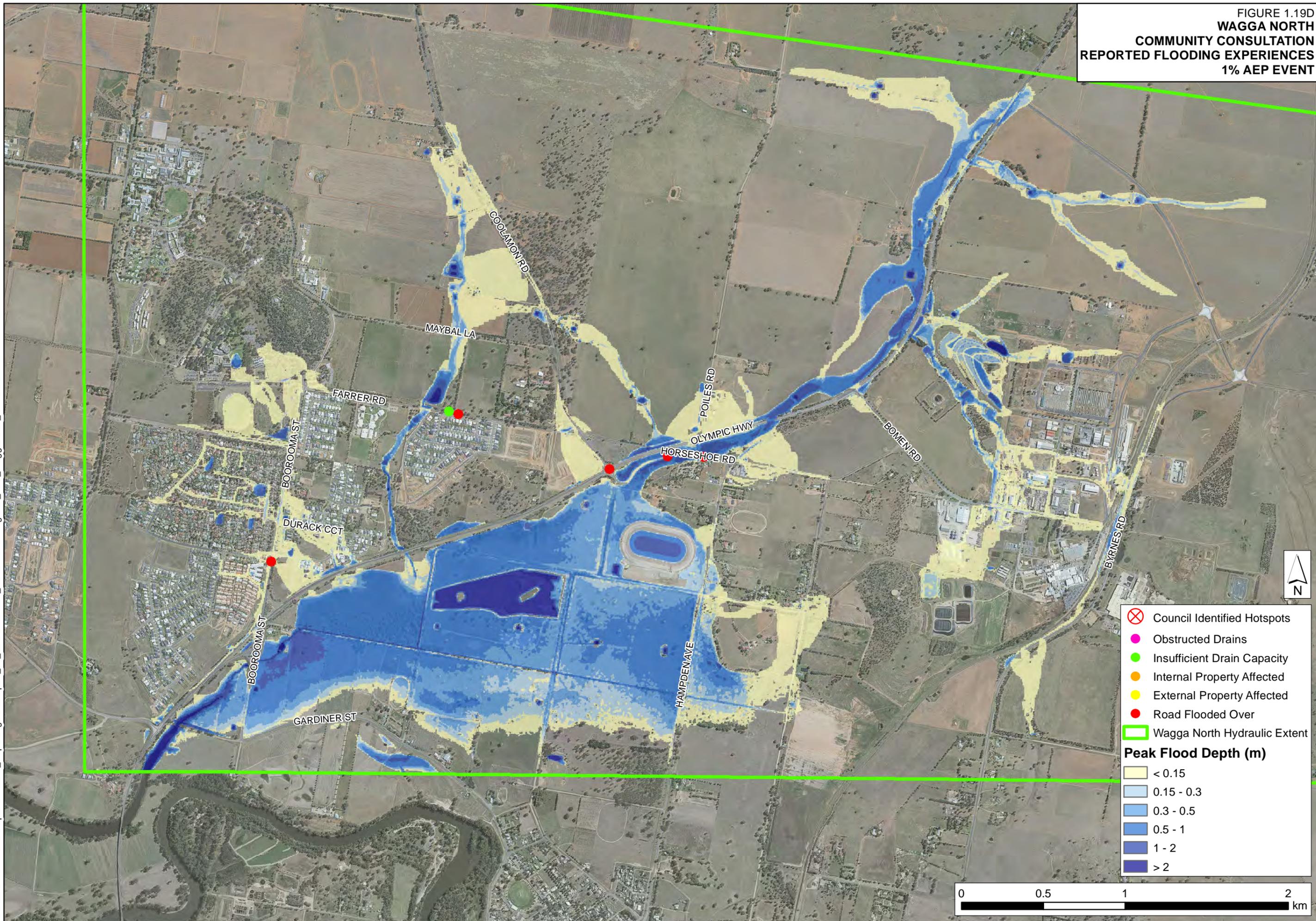


FIGURE 1.19D  
**WAGGA NORTH**  
**COMMUNITY CONSULTATION**  
**REPORTED FLOODING EXPERIENCES**  
**1% AEP EVENT**

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- Council Identified Hotspots
- Obstructed Drains
- Insufficient Drain Capacity
- Internal Property Affected
- External Property Affected
- Road Flooded Over
- Wagga North Hydraulic Extent

**Peak Flood Depth (m)**

	< 0.15
	0.15 - 0.3
	0.3 - 0.5
	0.5 - 1
	1 - 2
	> 2

