

PATERSON RIVER FLOOD STUDY
VACY TO HINTON
APPENDIX C - DESIGN FLOOD MAPPING



FIGURE C1A
PEAK FLOOD DEPTHS AND LEVELS
PATERSON RIVER CATCHMENT
VACY TO TOTAL
20% AEP EVENT

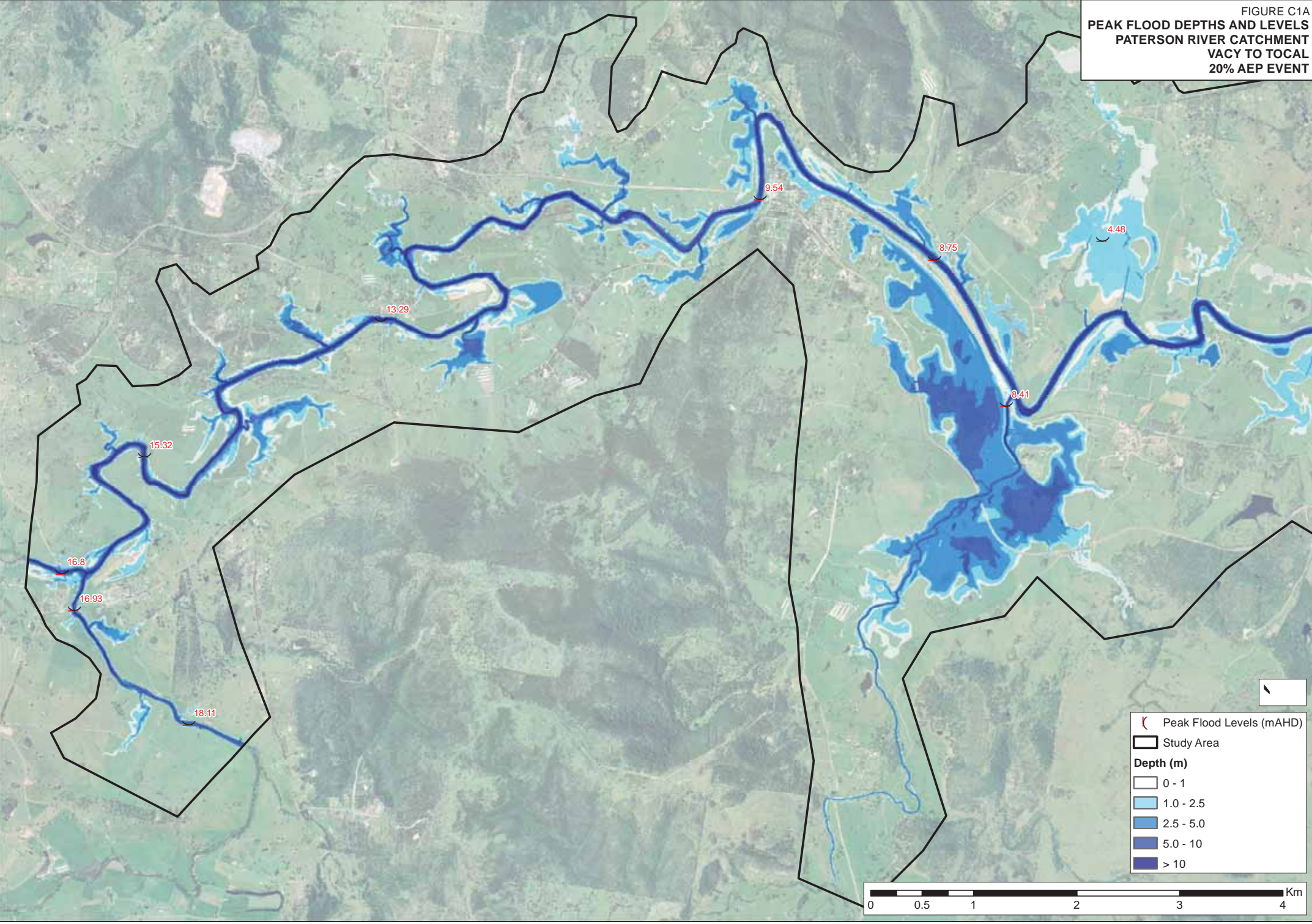
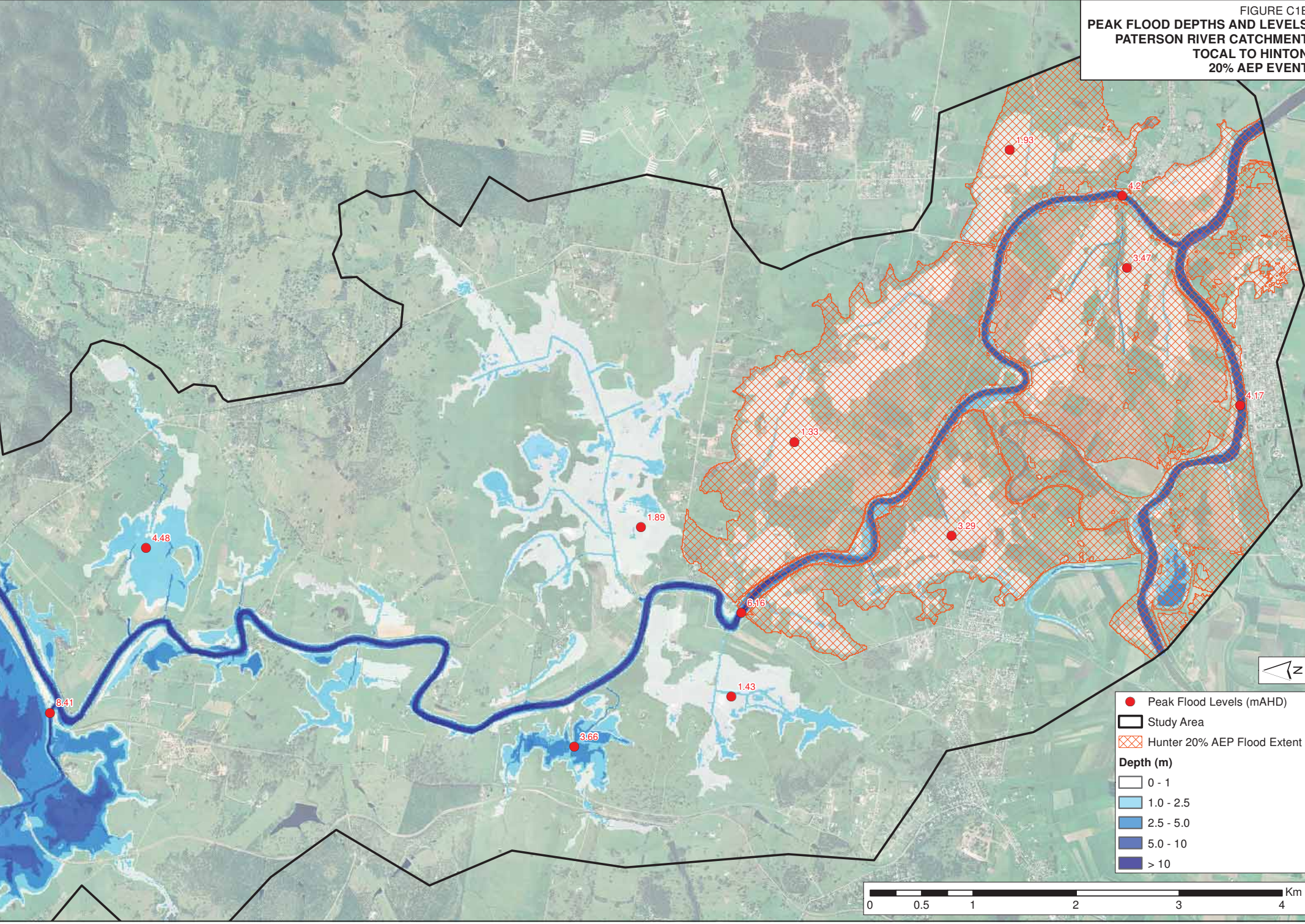


FIGURE C1B
**PEAK FLOOD DEPTHS AND LEVELS
 PATERSON RIVER CATCHMENT
 TOTAL TO HINTON
 20% AEP EVENT**

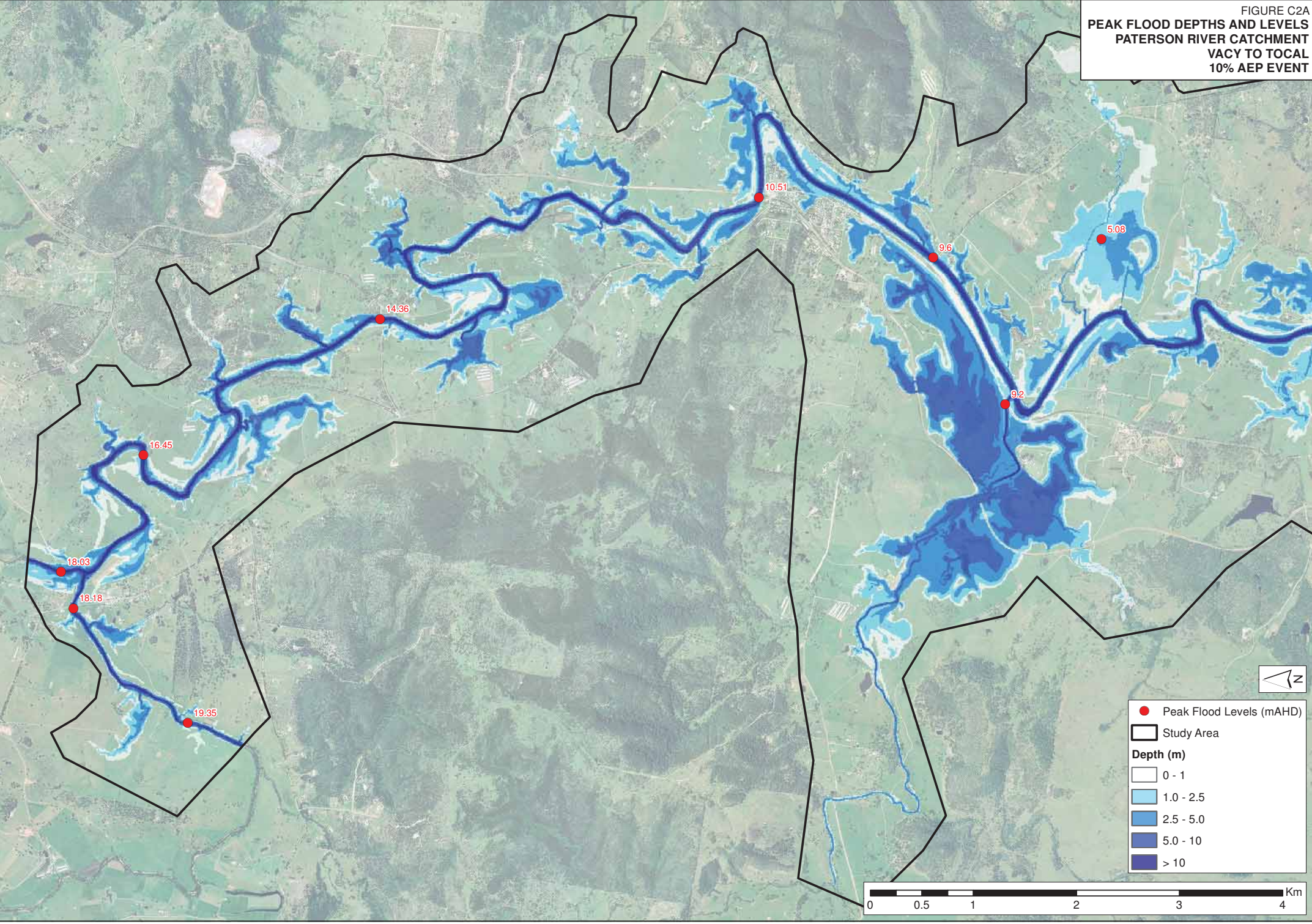


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- Peak Flood Levels (mAHd)
 - Study Area
 - Hunter 20% AEP Flood Extent
- Depth (m)**
- 0 - 1
 - 1.0 - 2.5
 - 2.5 - 5.0
 - 5.0 - 10
 - > 10

FIGURE C2A
PEAK FLOOD DEPTHS AND LEVELS
PATERSON RIVER CATCHMENT
VACY TO TOLCAL
10% AEP EVENT



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● Peak Flood Levels (mAHd)

▭ Study Area

Depth (m)

- 0 - 1
- 1.0 - 2.5
- 2.5 - 5.0
- 5.0 - 10
- > 10

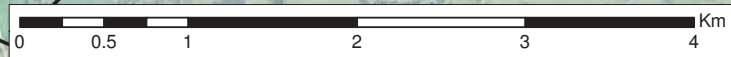
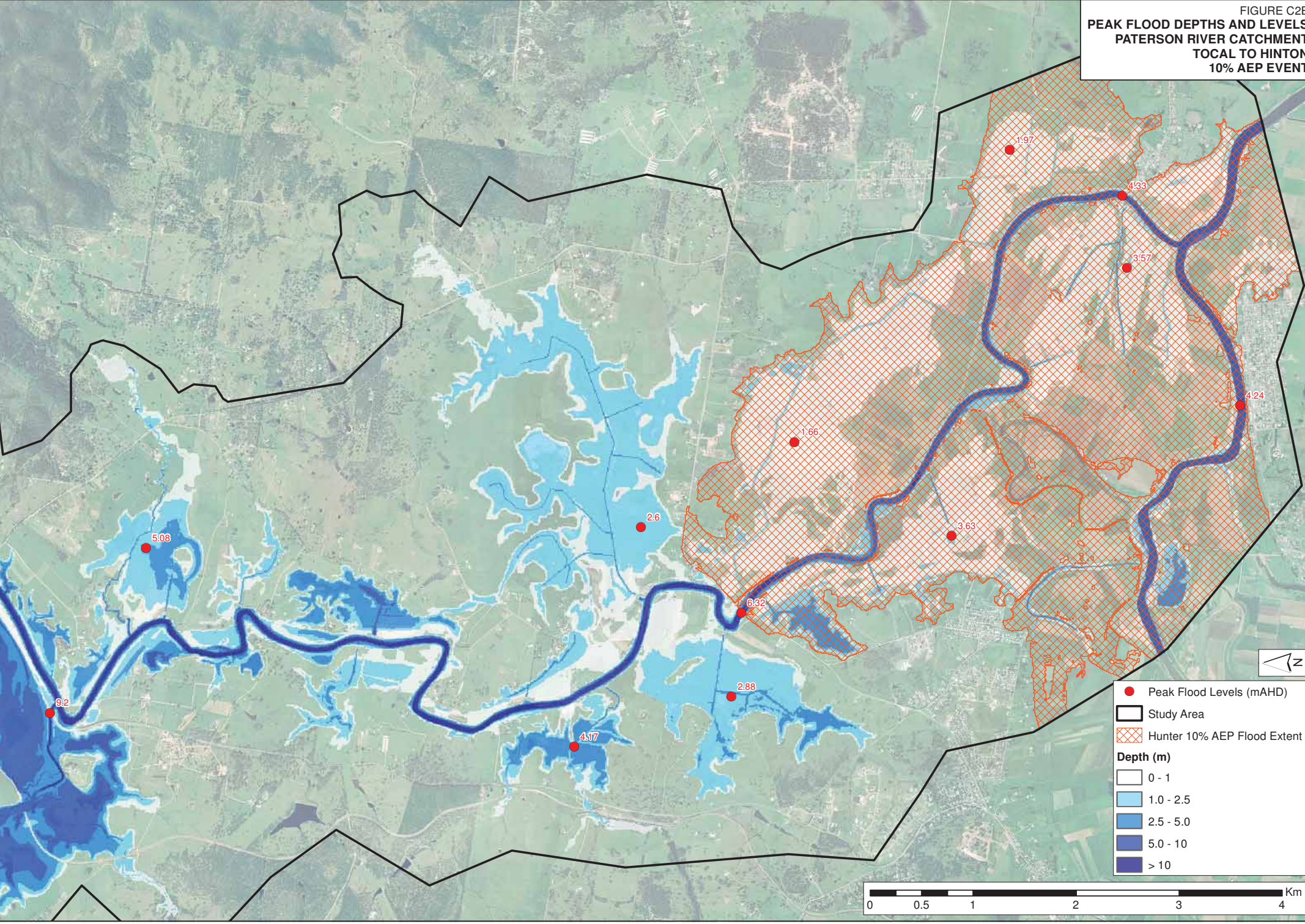
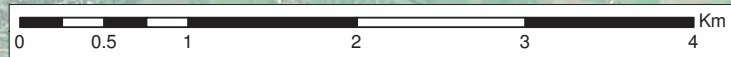


FIGURE C2B
 PEAK FLOOD DEPTHS AND LEVELS
 PATERSON RIVER CATCHMENT
 TOTAL TO HINTON
 10% AEP EVENT



J:\Jobs\114084\Arc\ArcMaps\Appendix\FigureC02B_PeakFloodDepthsLevels_010yr_Event.mxd



- Peak Flood Levels (mAHd)
 - Study Area
 - Hunter 10% AEP Flood Extent
- Depth (m)**
- 0 - 1
 - 1.0 - 2.5
 - 2.5 - 5.0
 - 5.0 - 10
 - > 10

FIGURE C3A
PEAK FLOOD DEPTHS AND LEVELS
PATERSON RIVER CATCHMENT
VACY TO TOTAL
5% AEP EVENT

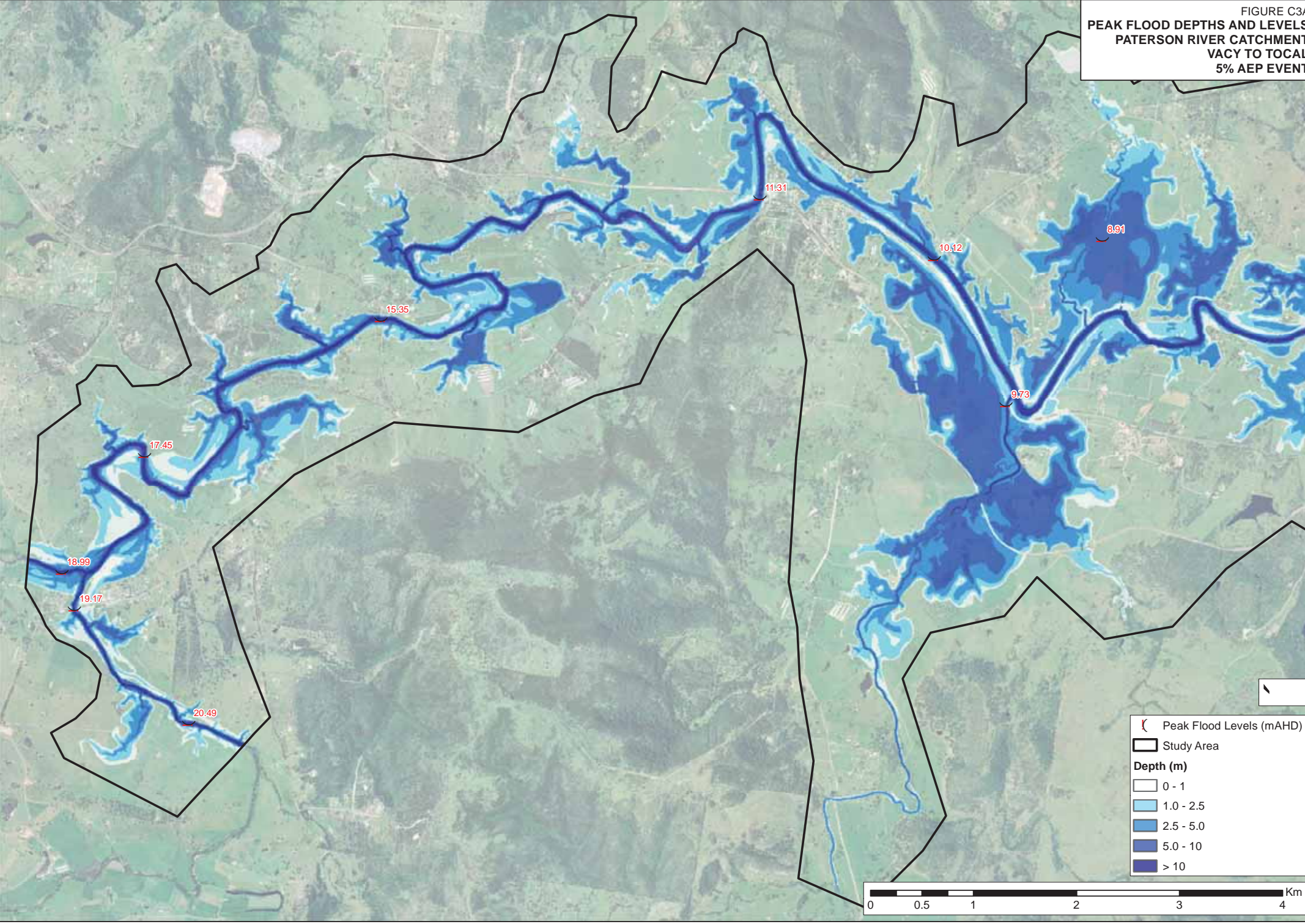
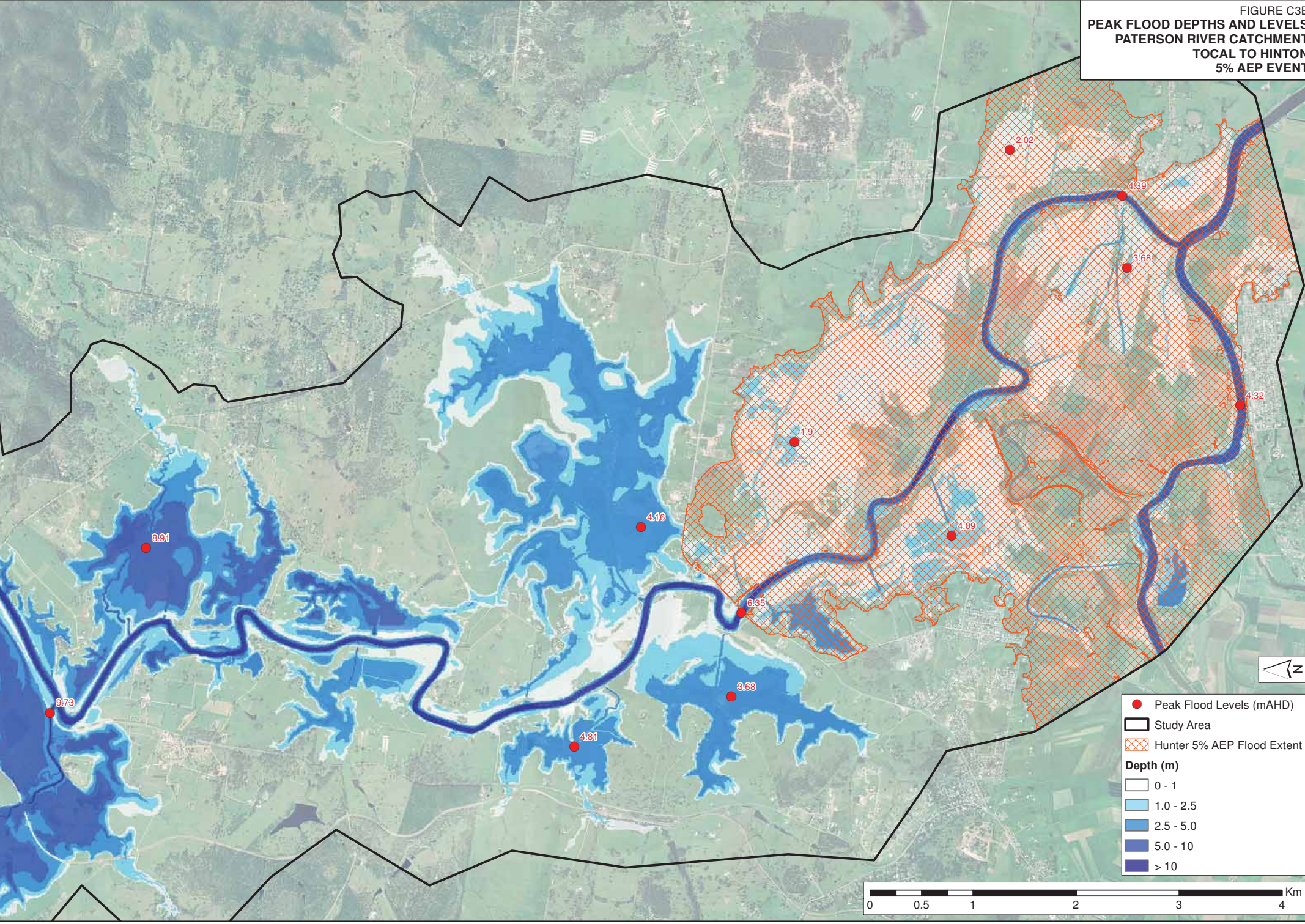
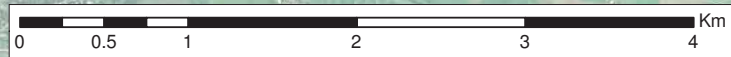


FIGURE C3B
 PEAK FLOOD DEPTHS AND LEVELS
 PATERSON RIVER CATCHMENT
 TOTAL TO HINTON
 5% AEP EVENT



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- Peak Flood Levels (mAHd)
 - Study Area
 - Hunter 5% AEP Flood Extent
- Depth (m)**
- 0 - 1
 - 1.0 - 2.5
 - 2.5 - 5.0
 - 5.0 - 10
 - > 10

FIGURE C4A
PEAK FLOOD DEPTHS AND LEVELS
PATERSON RIVER CATCHMENT
VACY TO TOLCAL
2% AEP EVENT

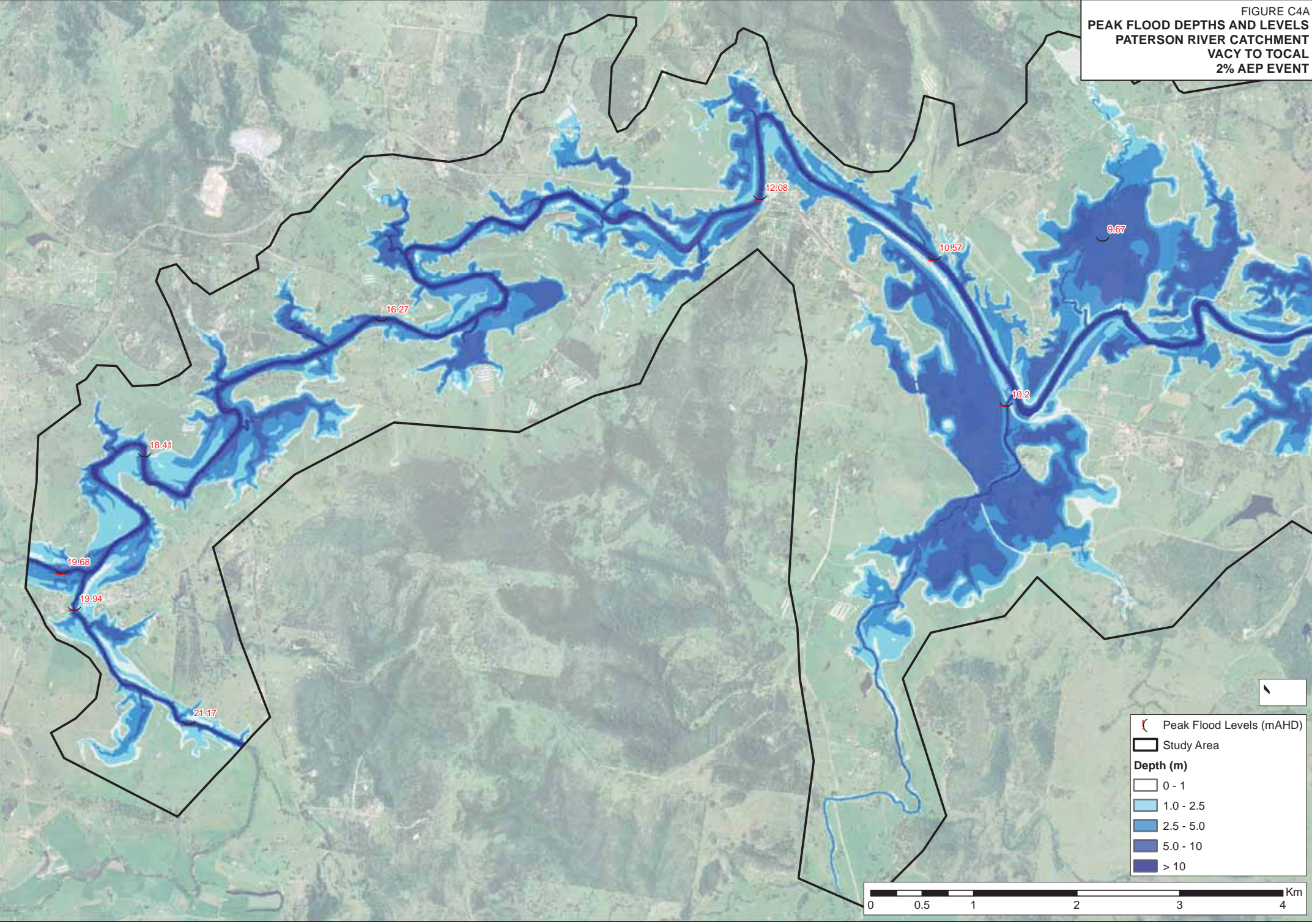
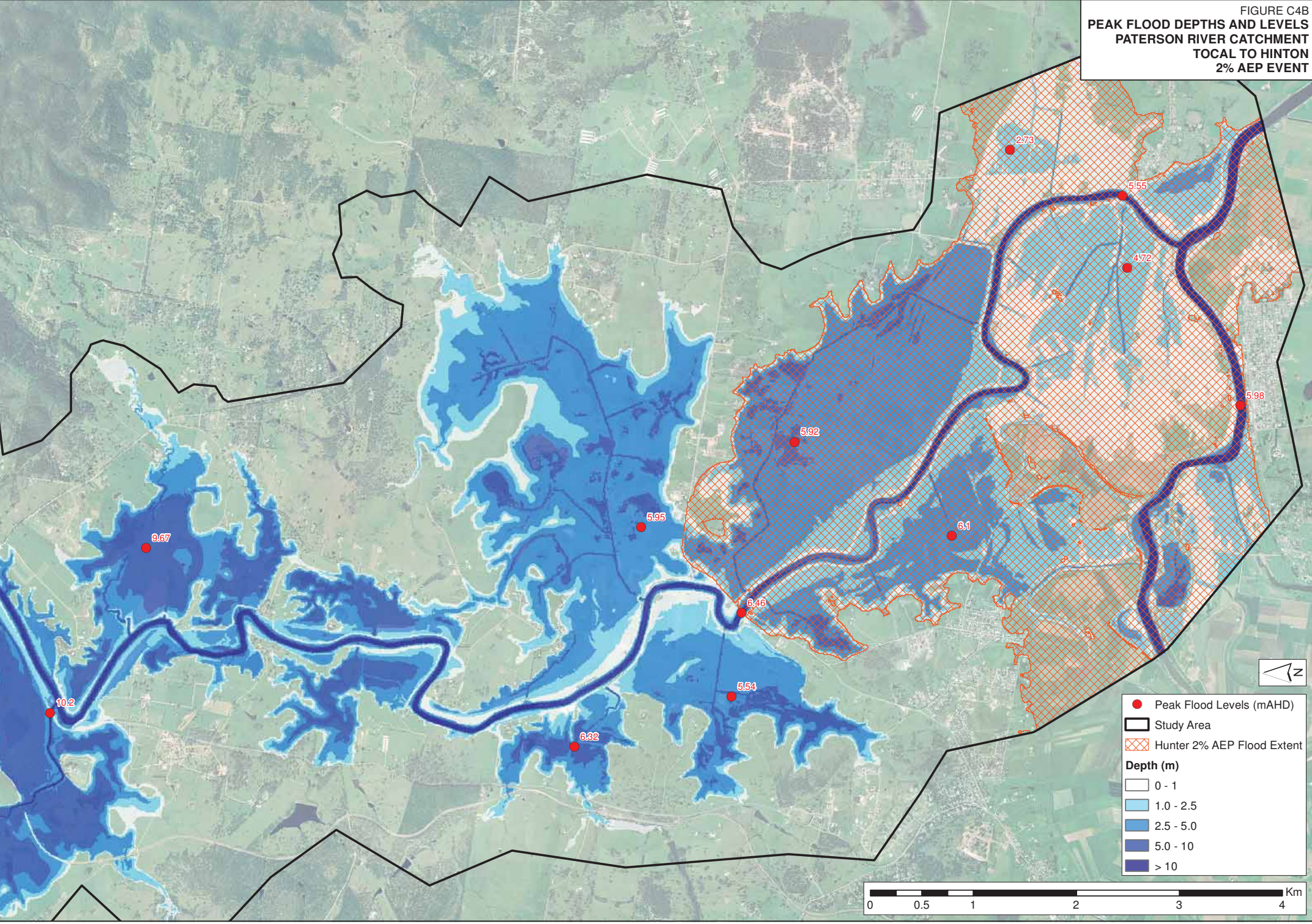
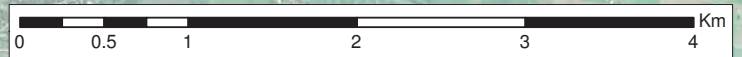


FIGURE C4B
PEAK FLOOD DEPTHS AND LEVELS
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
2% AEP EVENT



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- Peak Flood Levels (mAHD)
 - Study Area
 - Hunter 2% AEP Flood Extent
- Depth (m)**
- 0 - 1
 - 1.0 - 2.5
 - 2.5 - 5.0
 - 5.0 - 10
 - > 10

FIGURE C5A
PEAK FLOOD DEPTHS AND LEVELS
PATERSON RIVER CATCHMENT
VACY TO TOTAL
1% AEP EVENT

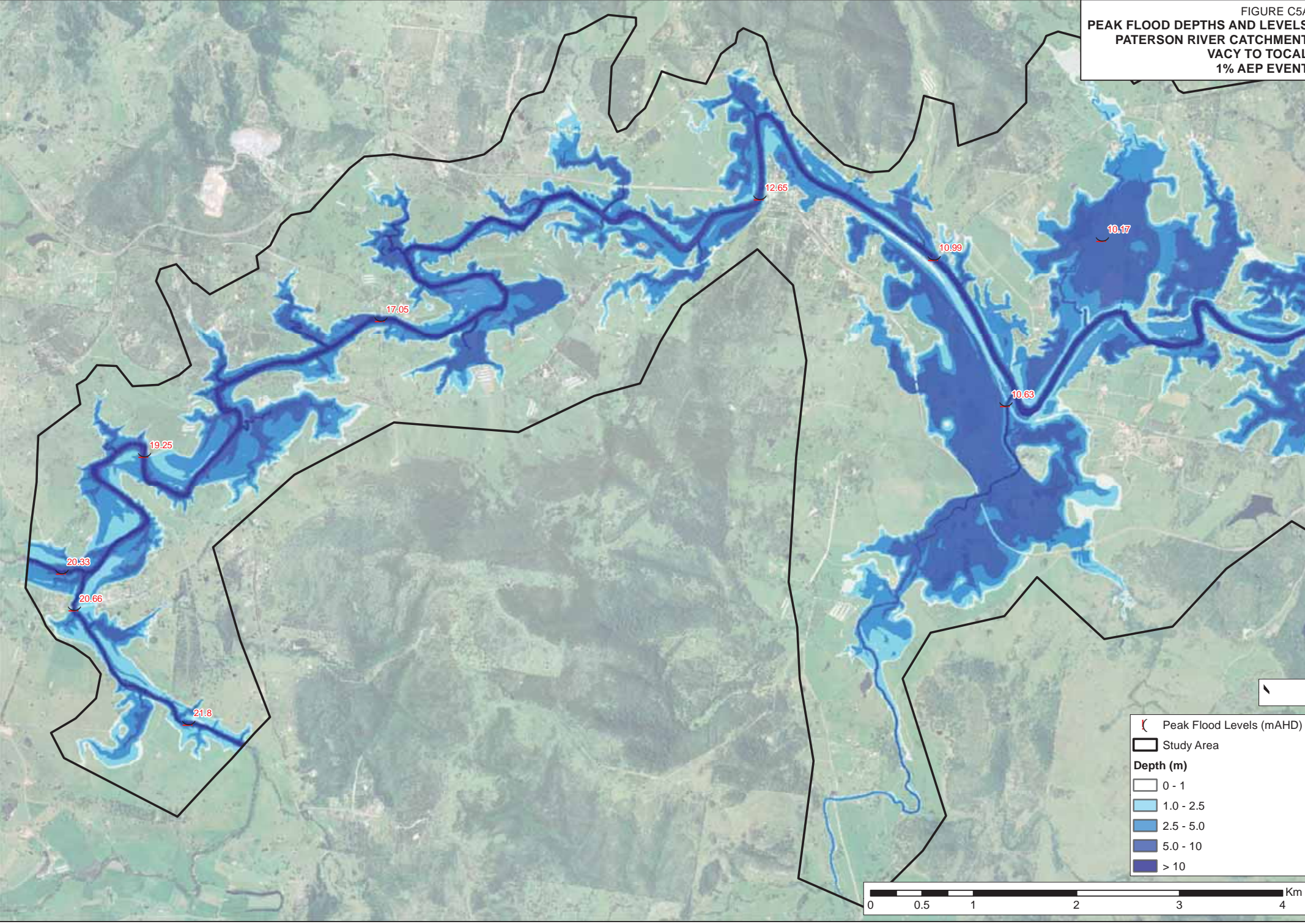
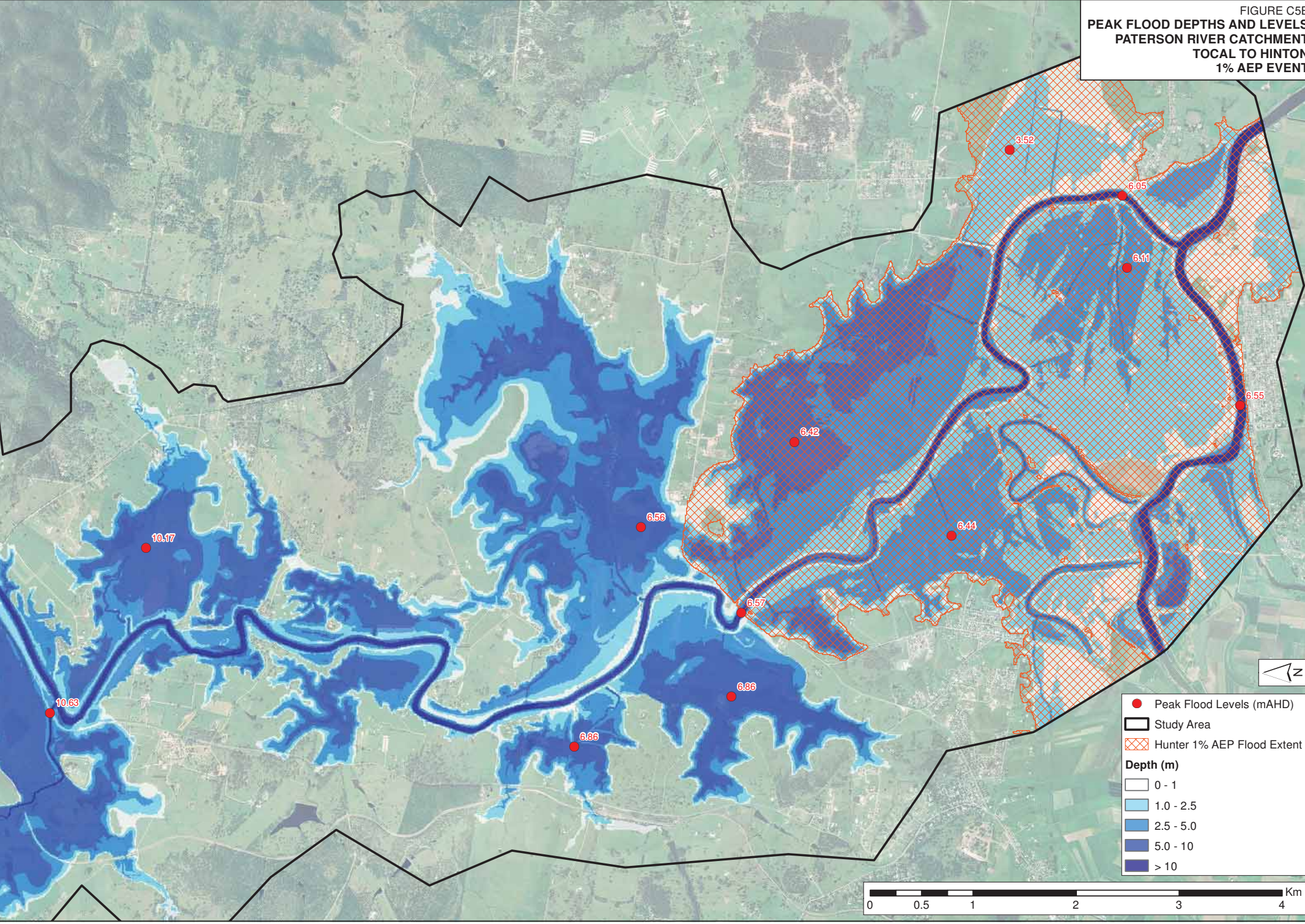
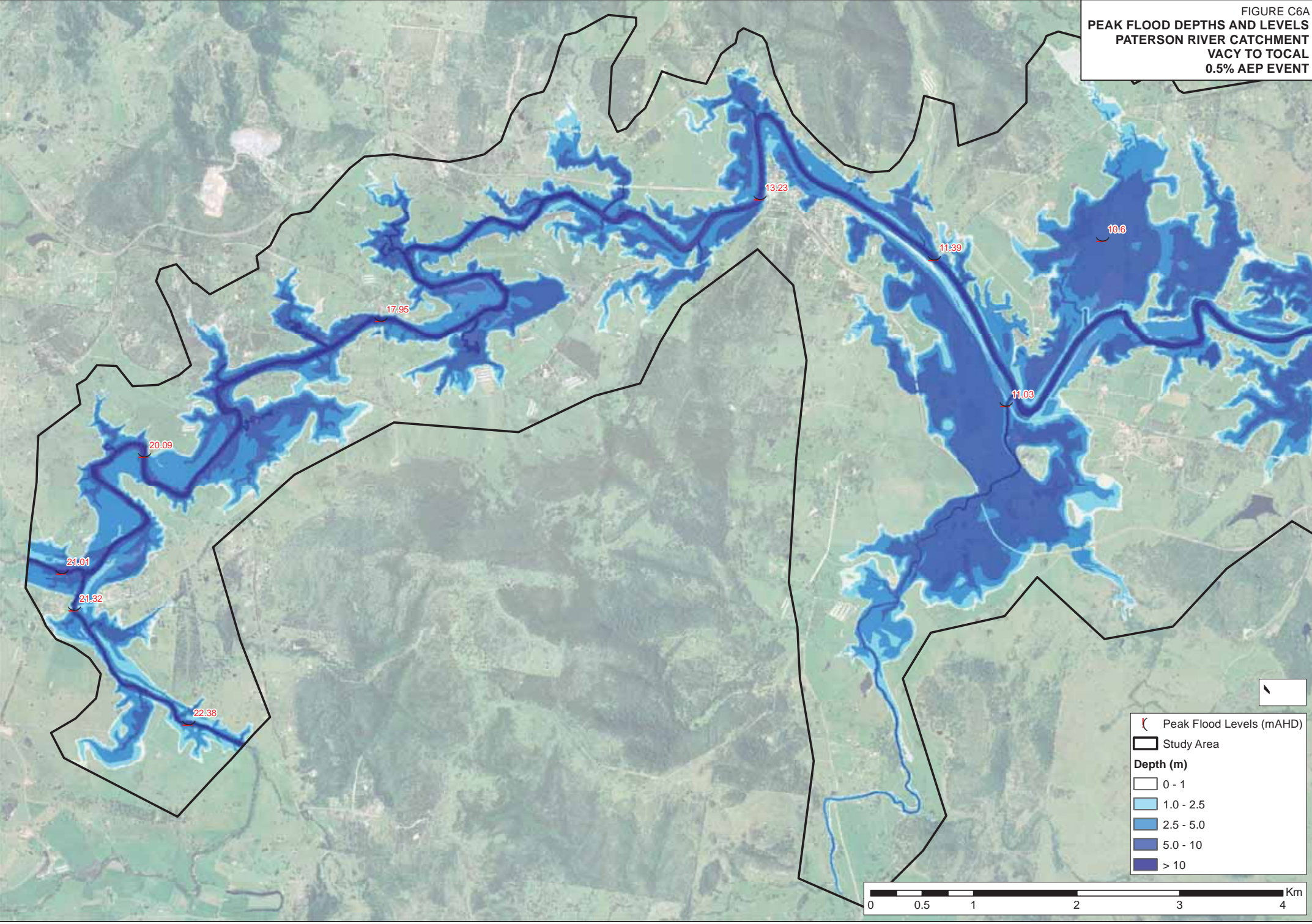


FIGURE C5B
 PEAK FLOOD DEPTHS AND LEVELS
 PATERSON RIVER CATCHMENT
 TOTAL TO HINTON
 1% AEP EVENT



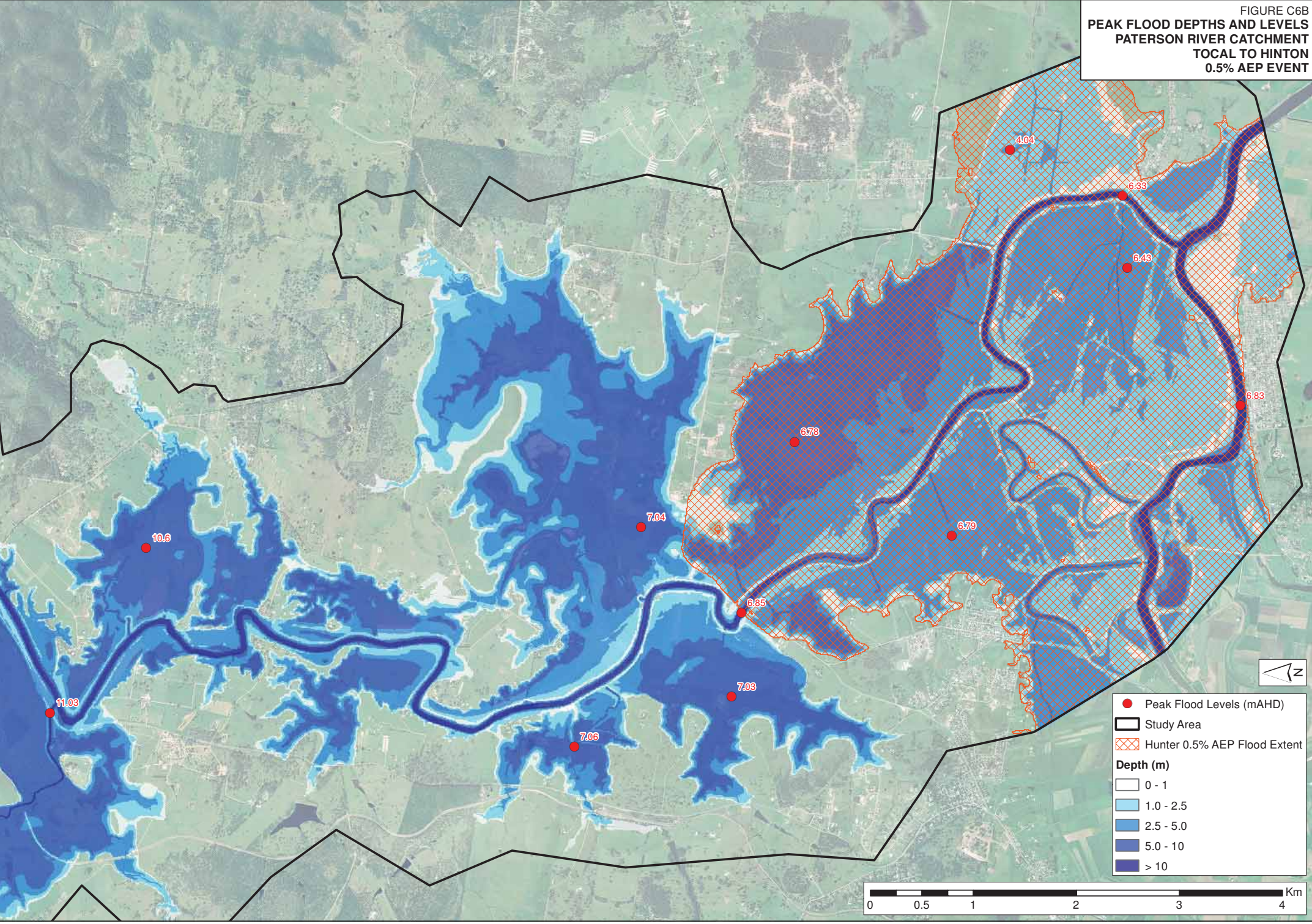
J:\Jobs\114084\Arc\Map\AppendixC\FigureC05B_PeakFloodDepthsLevels_100yr_Event.mxd

FIGURE C6A
PEAK FLOOD DEPTHS AND LEVELS
PATERSON RIVER CATCHMENT
VACY TO TOTAL
0.5% AEP EVENT



J:\Jobs\114084\ArcMap\Appendix\FigureC06A_PeakFloodDepthsLevels_200yr_Event.mxd

FIGURE C6B
 PEAK FLOOD DEPTHS AND LEVELS
 PATERSON RIVER CATCHMENT
 TOTAL TO HINTON
 0.5% AEP EVENT



J:\Jobs\114084\Arc\ArchMaps\AppendixC\FigureC6B_PeakFloodDepthsLevels_200yr_Event.mxd

- Peak Flood Levels (mAHd)
- Study Area
- Hunter 0.5% AEP Flood Extent
- Depth (m)**
- 0 - 1
- 1.0 - 2.5
- 2.5 - 5.0
- 5.0 - 10
- > 10

0 0.5 1 2 3 4 Km

FIGURE C7A
PEAK FLOOD DEPTHS AND LEVELS
PATERSON RIVER CATCHMENT
VACY TO TICAL
0.2% AEP EVENT

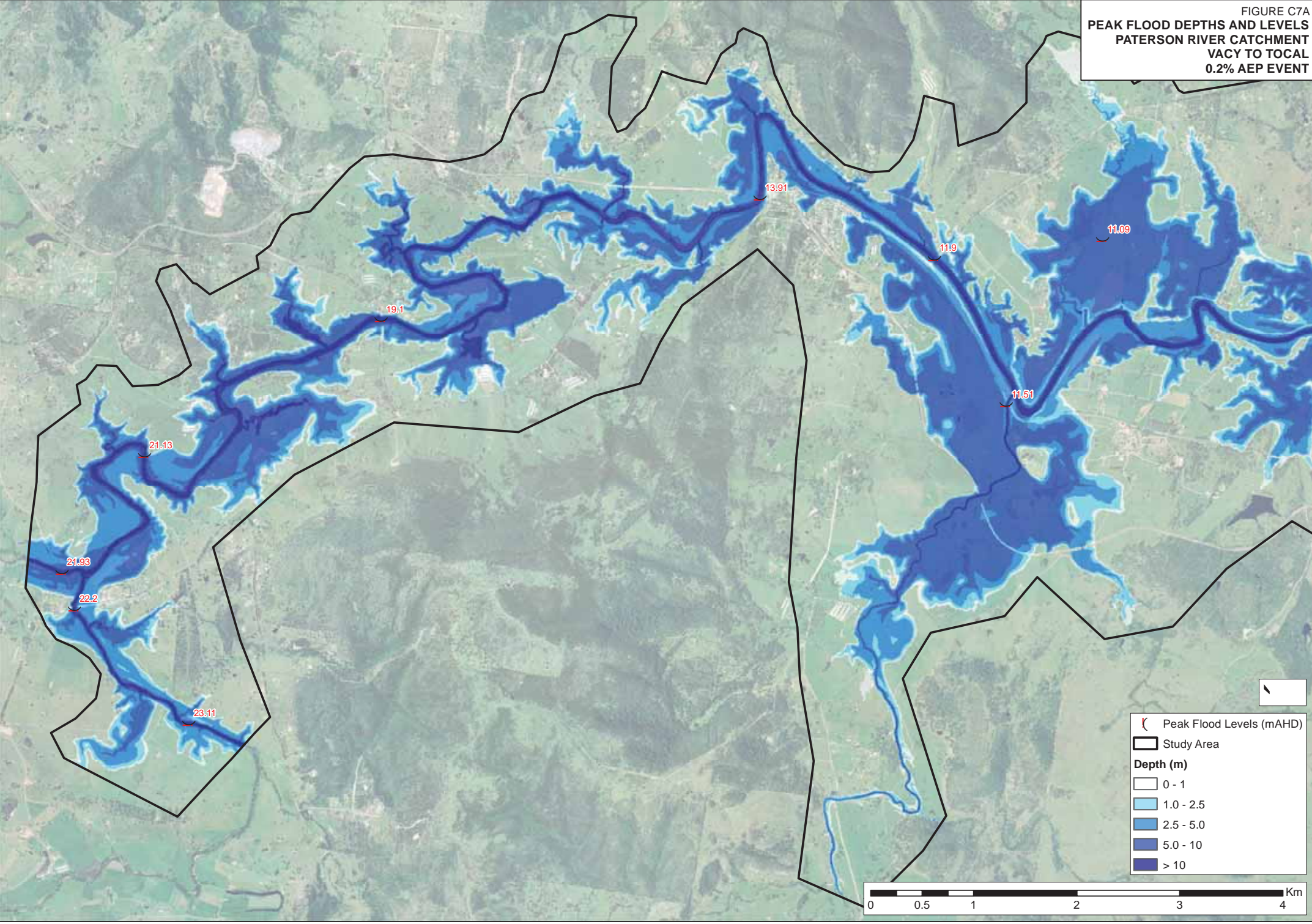
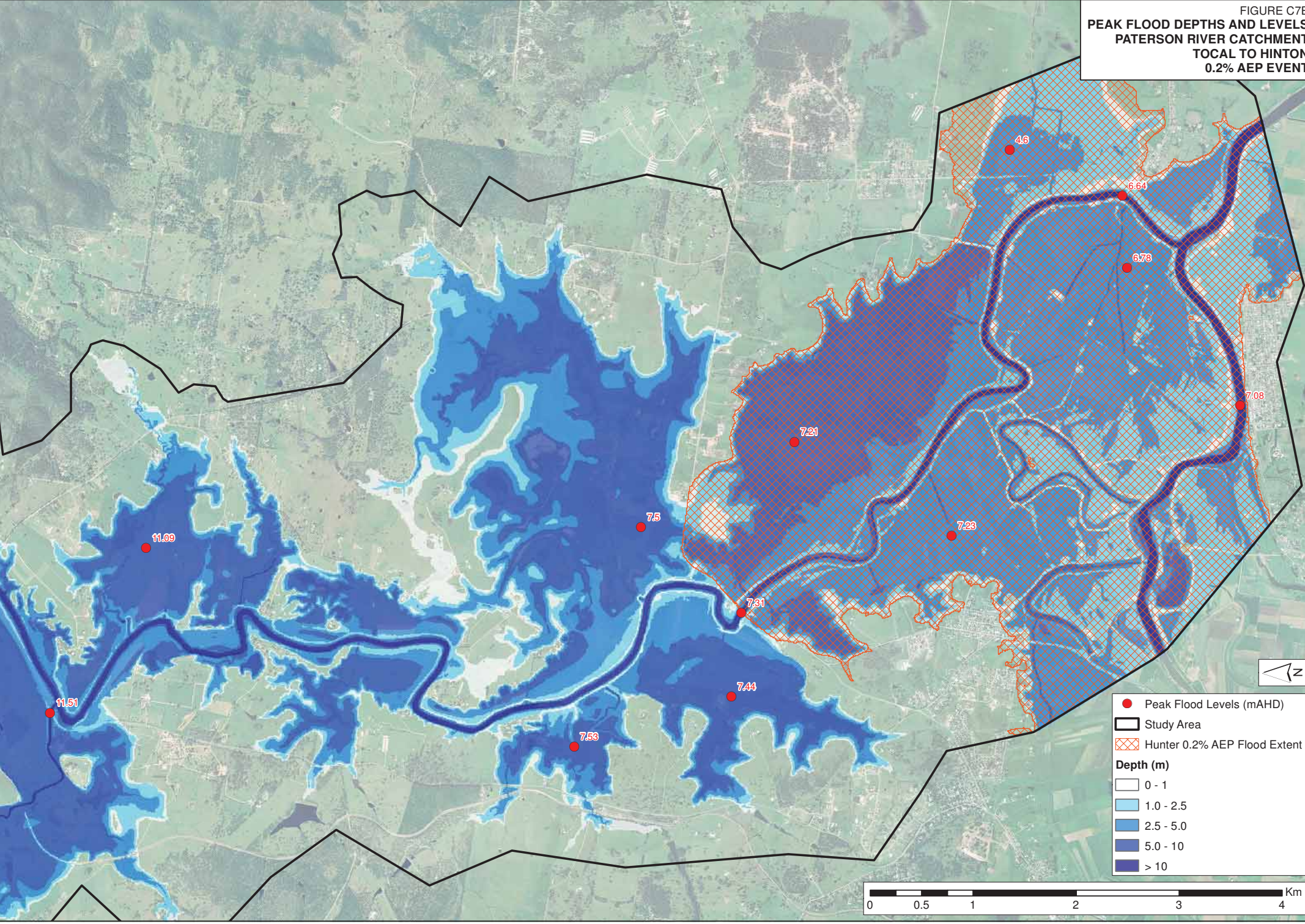


FIGURE C7B
 PEAK FLOOD DEPTHS AND LEVELS
 PATERSON RIVER CATCHMENT
 TOTAL TO HINTON
 0.2% AEP EVENT



J:\Jobs\114084\Arc\ArchMaps\AppendixC\FigureC07B_PeakFloodDepthsLevels_500yr_Event.mxd

- Peak Flood Levels (mAHd)
 - Study Area
 - Hunter 0.2% AEP Flood Extent
- Depth (m)**
- 0 - 1
 - 1.0 - 2.5
 - 2.5 - 5.0
 - 5.0 - 10
 - > 10

0 0.5 1 2 3 4 Km

FIGURE C8A
PEAK FLOOD DEPTHS AND LEVELS
PATERSON RIVER CATCHMENT
VACY TO TOTAL
PMF EVENT

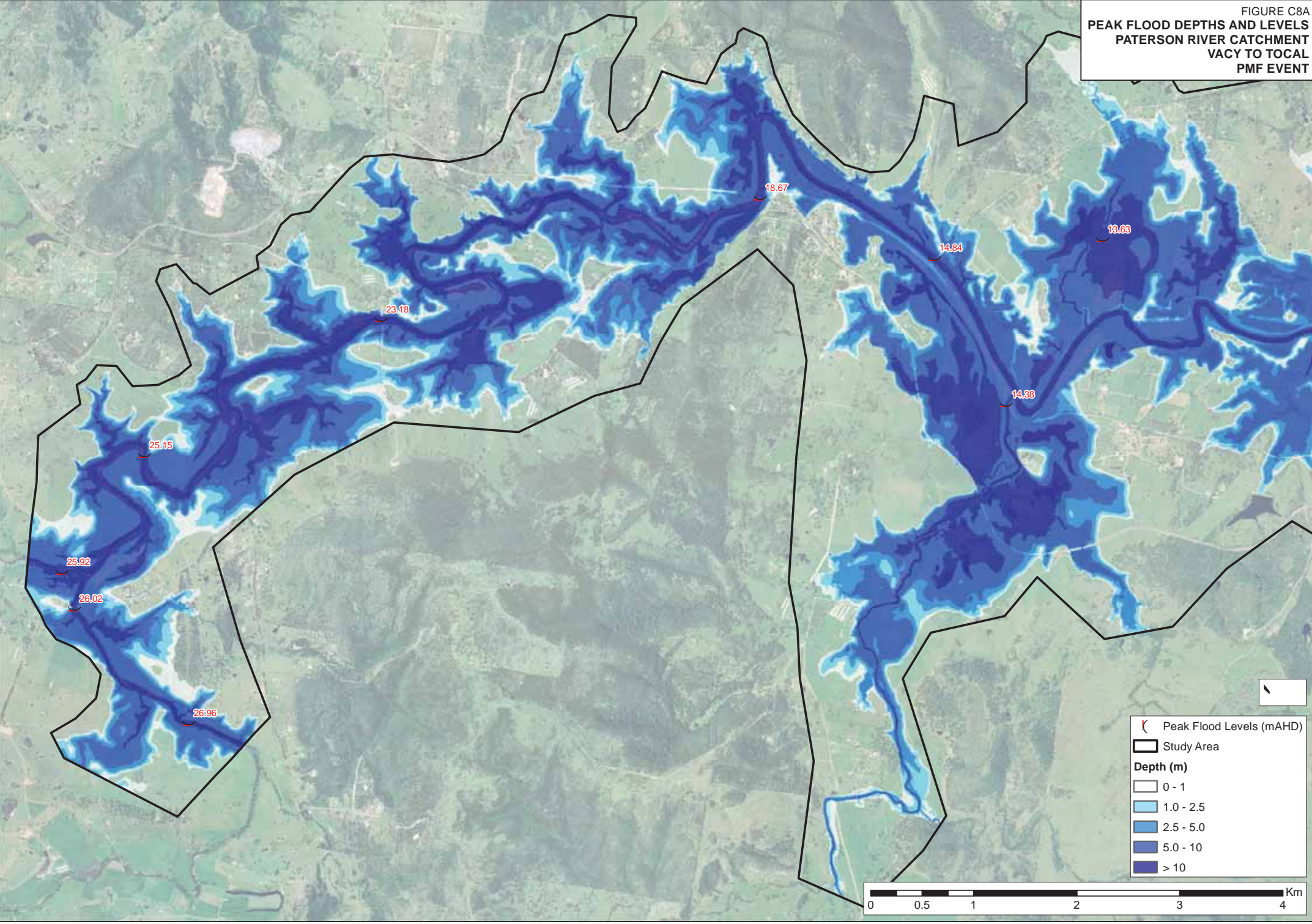
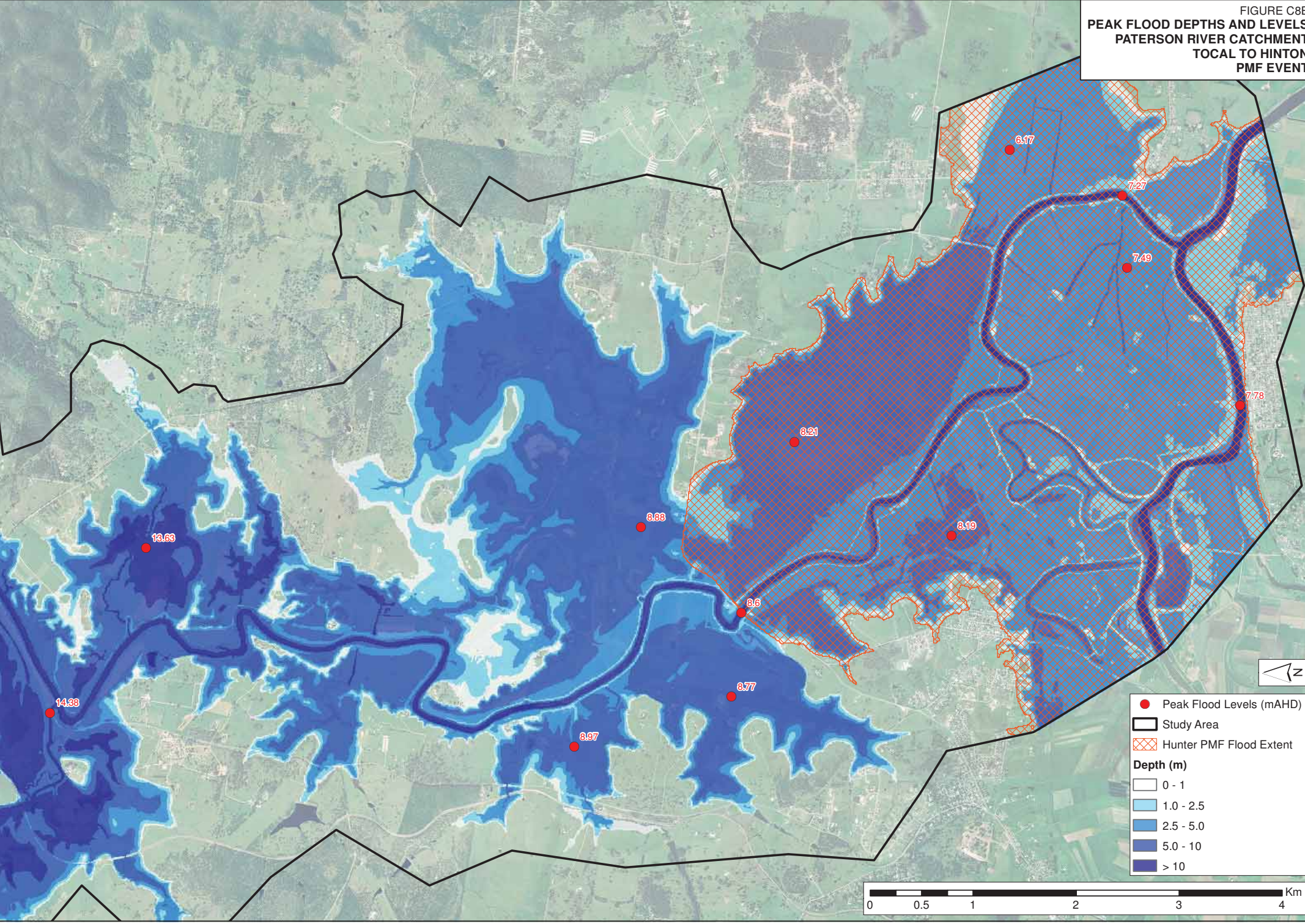


FIGURE C8B
 PEAK FLOOD DEPTHS AND LEVELS
 PATERSON RIVER CATCHMENT
 TOTAL TO HINTON
 PMF EVENT

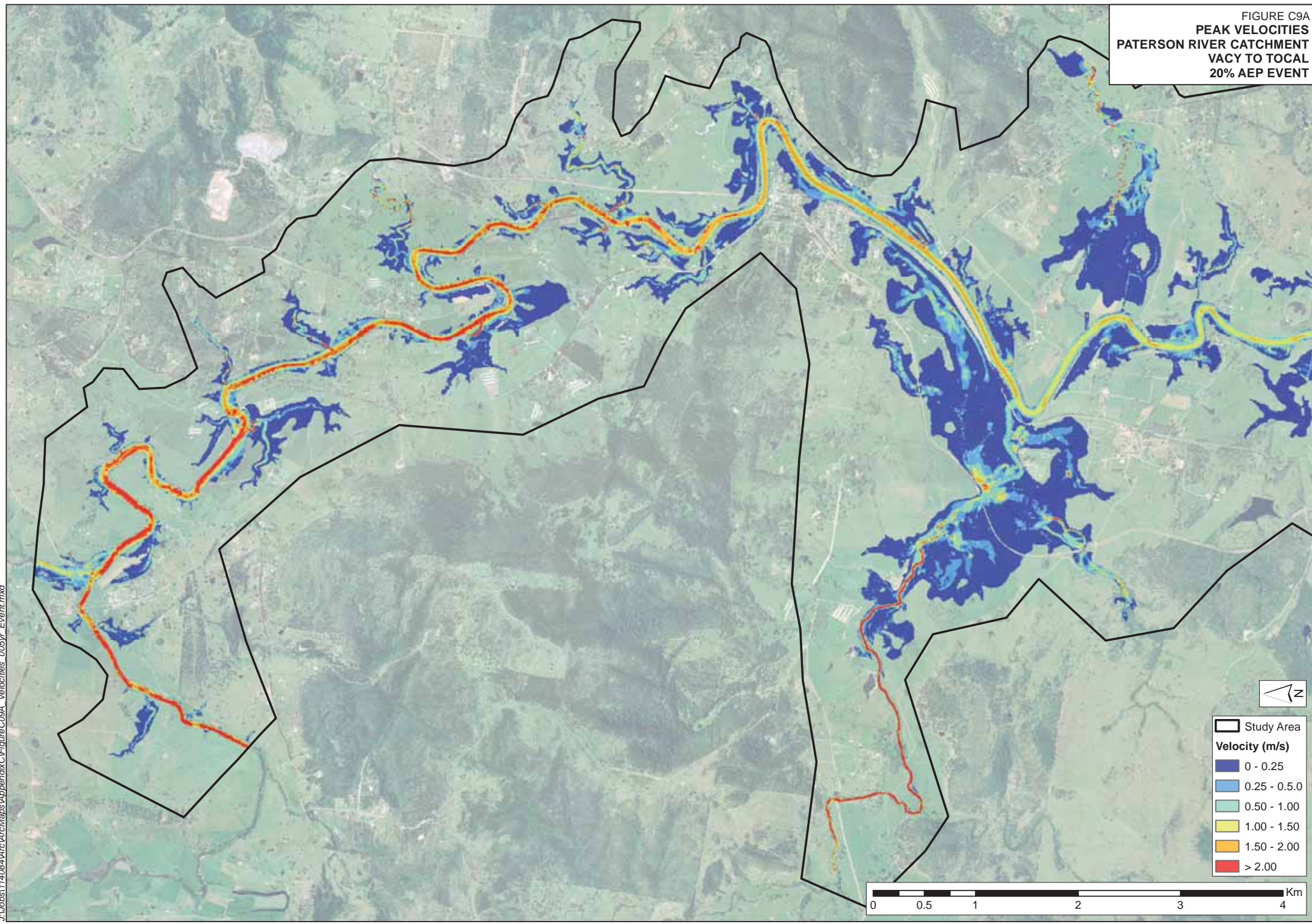


J:\Jobs\114084\Arc\ArchMaps\AppendixC\FigureC08B_PeakFloodDepthsLevels_PMF_Event.mxd

- Peak Flood Levels (mAHD)
 - ▭ Study Area
 - ▨ Hunter PMF Flood Extent
- Depth (m)**
- 0 - 1
 - 1.0 - 2.5
 - 2.5 - 5.0
 - 5.0 - 10
 - > 10

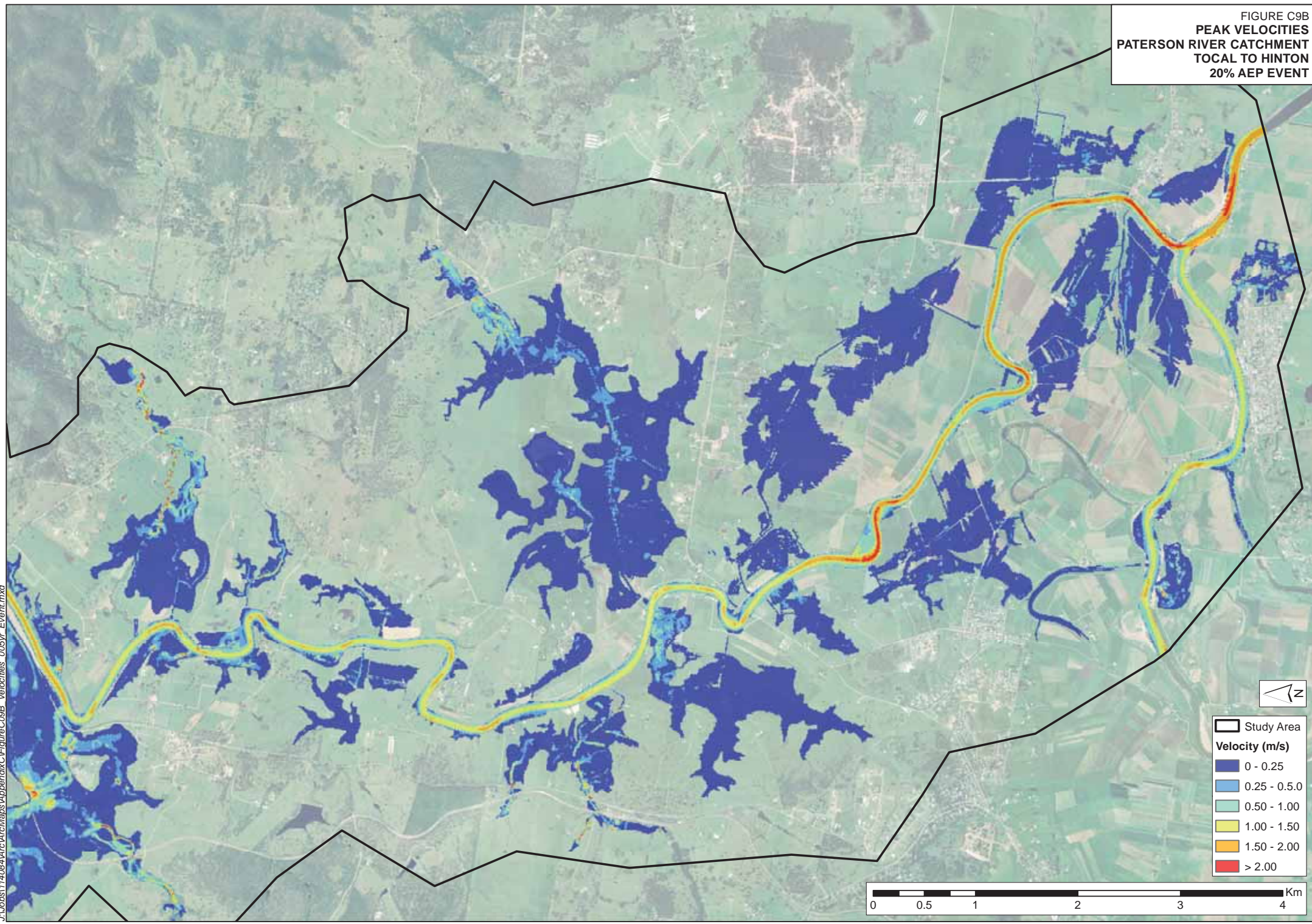
0 0.5 1 2 3 4 Km

FIGURE C9A
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
VACY TO TOTAL
20% AEP EVENT



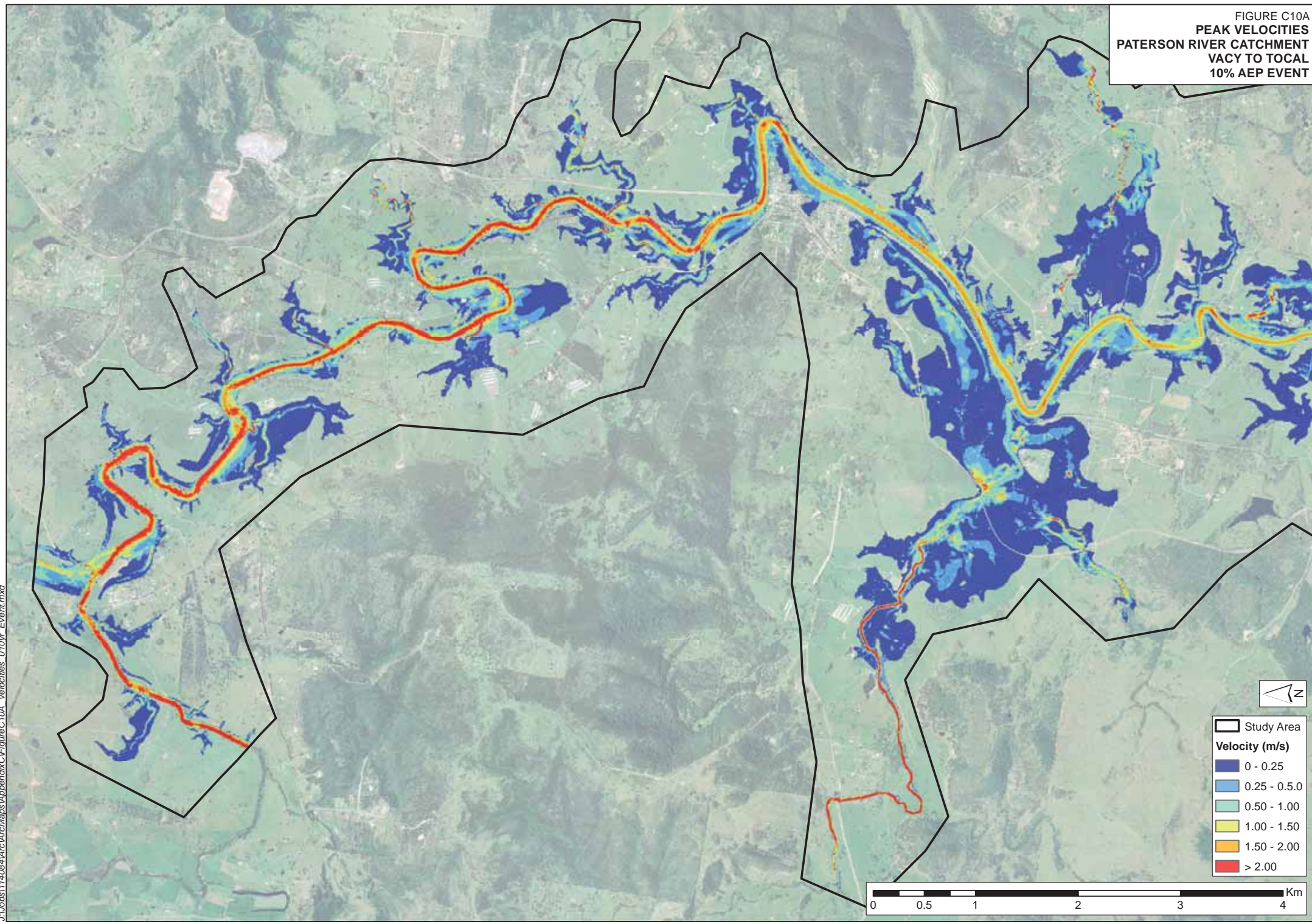
J:\Jobs\114084\ArcMap\Map\AppendixC\FigureC9A_Velocities_005yr_Event.mxd

FIGURE C9B
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
20% AEP EVENT



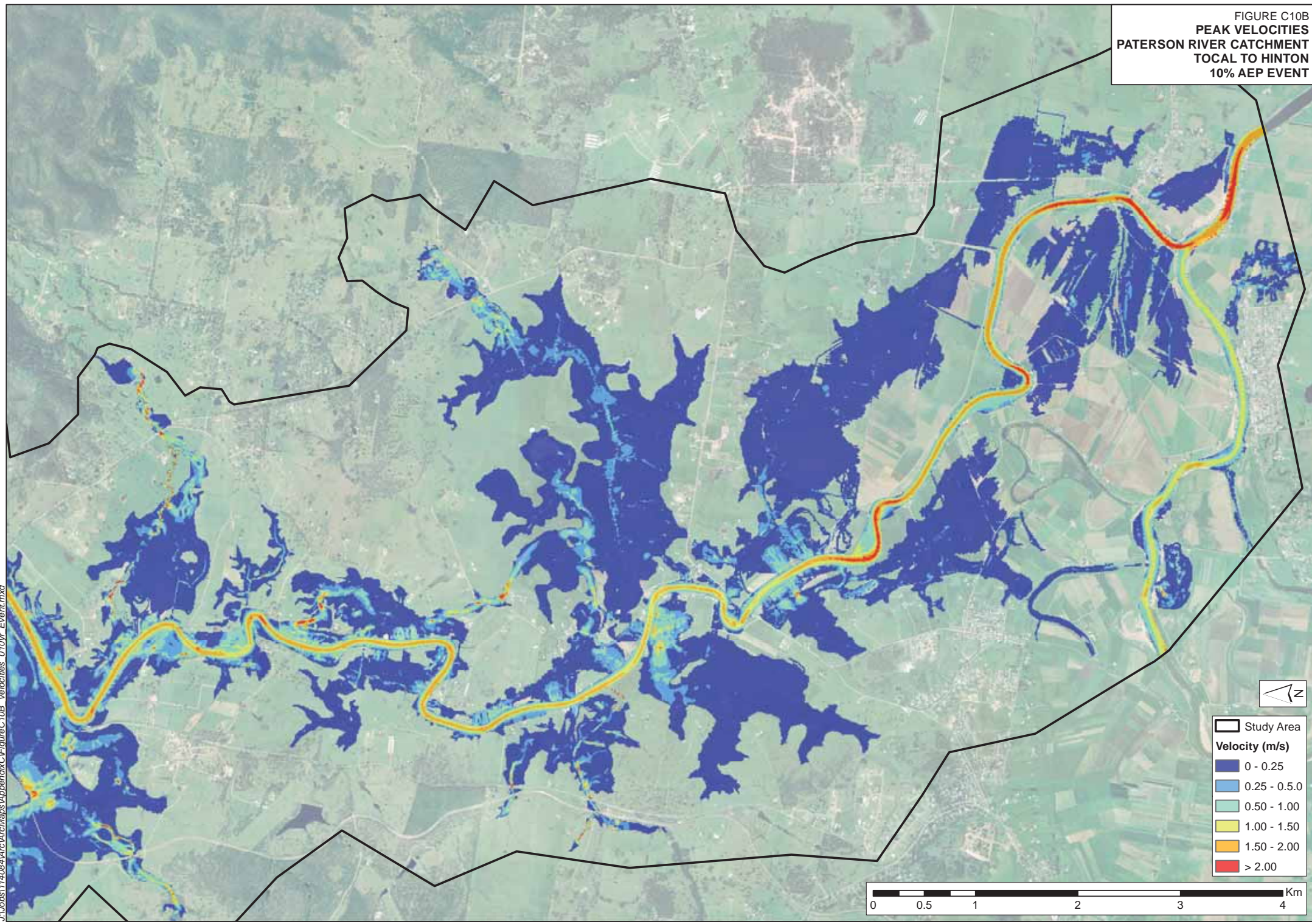
J:\Jobs\114084\ArcMap\Appendix\FigureC9B_Velocities_005yr_Event.mxd

FIGURE C10A
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
VACY TO TOTAL
10% AEP EVENT



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FIGURE C10B
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
10% AEP EVENT



J:\jobs\114084\ArcMap\AppendixC\FigureC10B_Velocities_010yr_Event.mxd

FIGURE C11A
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
VACY TO TOTAL
5% AEP EVENT

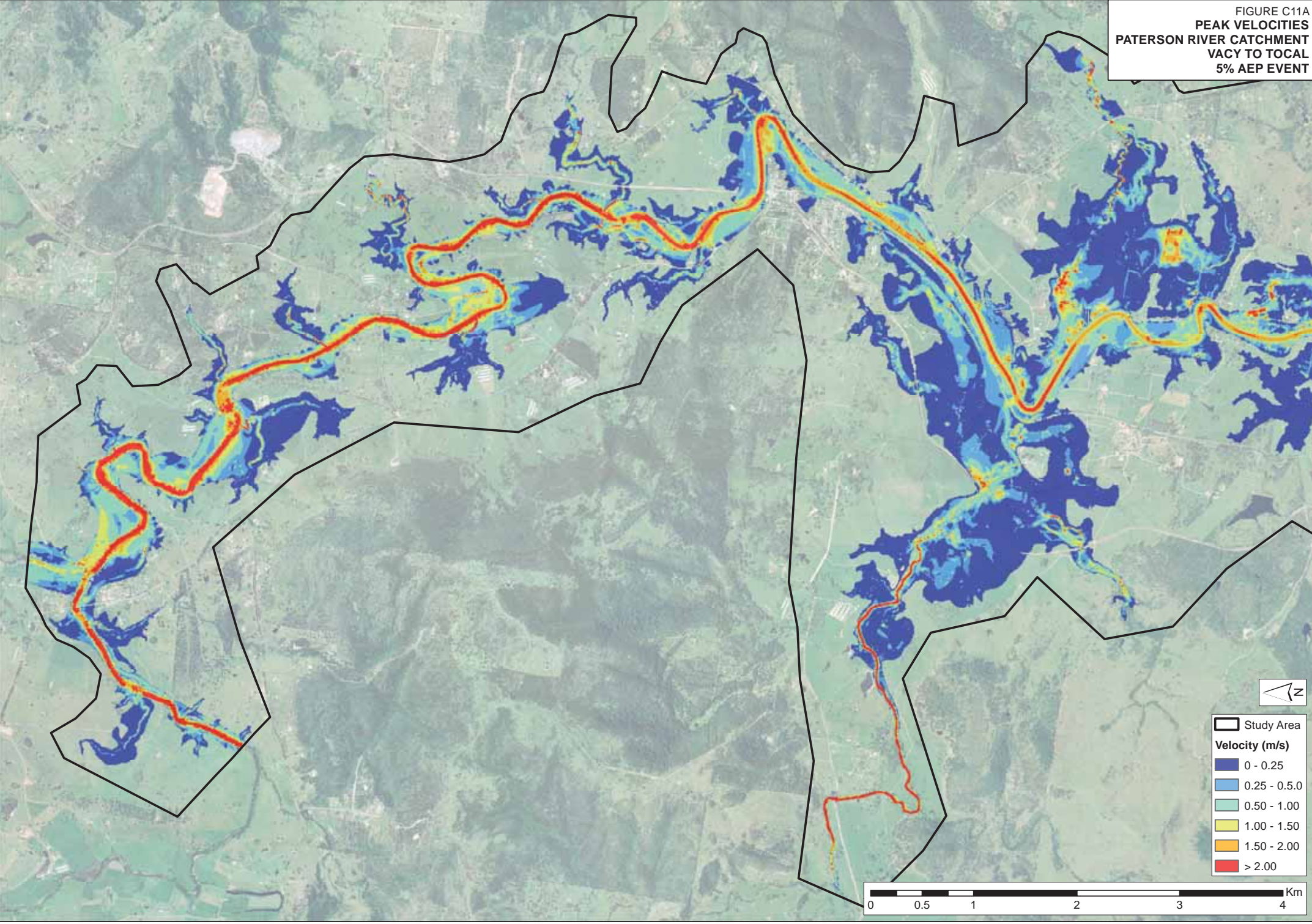
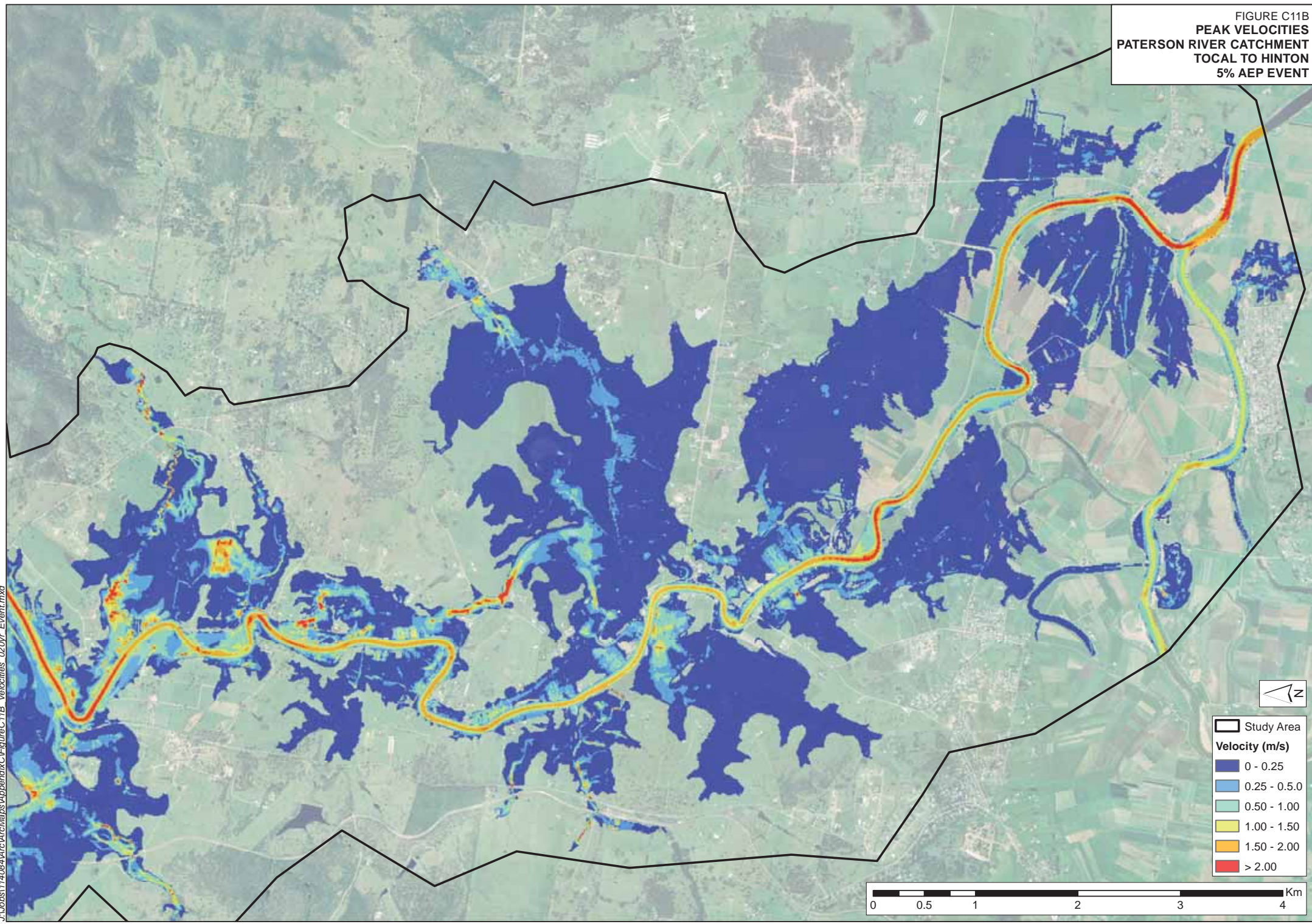


FIGURE C11B
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
5% AEP EVENT



J:\jobs\114084\ArcMap\maps\AppendixC\FigureC11B_Velocities_020yr_Event.mxd

Study Area

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.5.0
- 0.50 - 1.00
- 1.00 - 1.5.0
- 1.50 - 2.0.0
- > 2.00

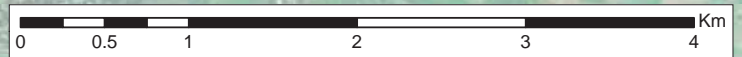


FIGURE C12A
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
VACY TO TOTAL
2% AEP EVENT

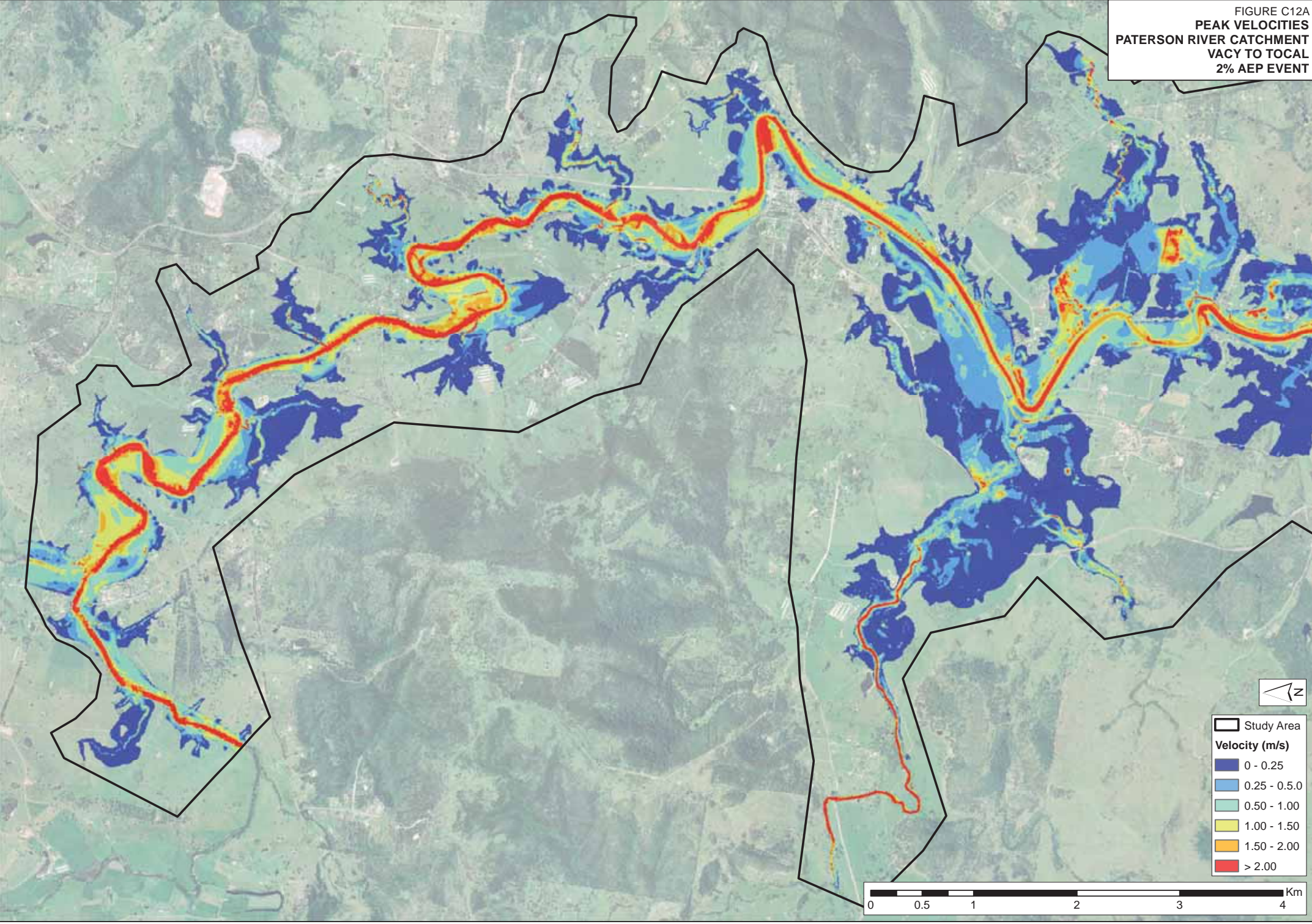
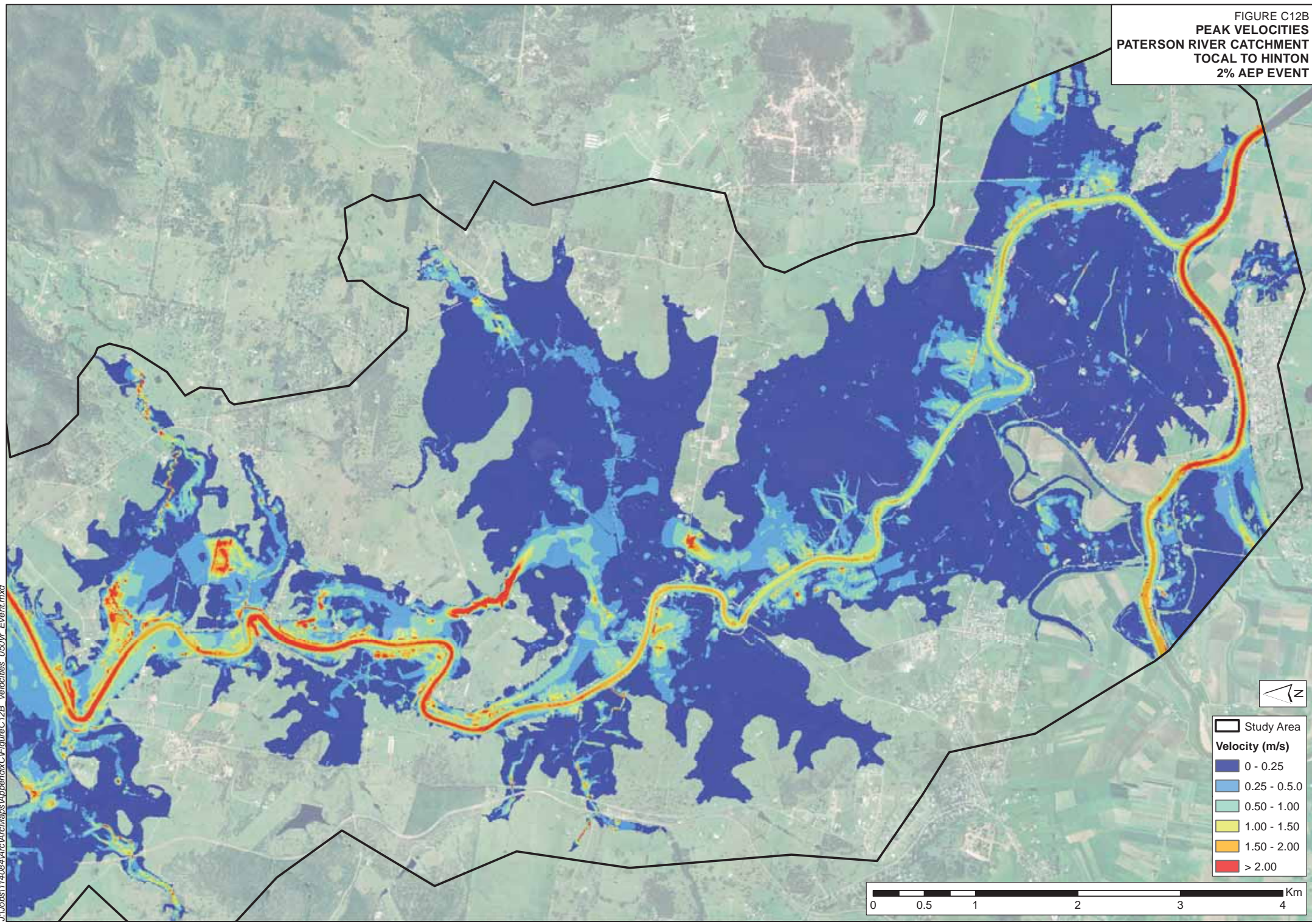


FIGURE C12B
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
2% AEP EVENT



J:\Jobs\114084\ArcMap\Map\AppendixC\FigureC12B_Velocities_050yr_Event.mxd

Study Area

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.5.0
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00

0 0.5 1 2 3 4 Km

FIGURE C13A
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
VACY TO TOLCAL
1% AEP EVENT

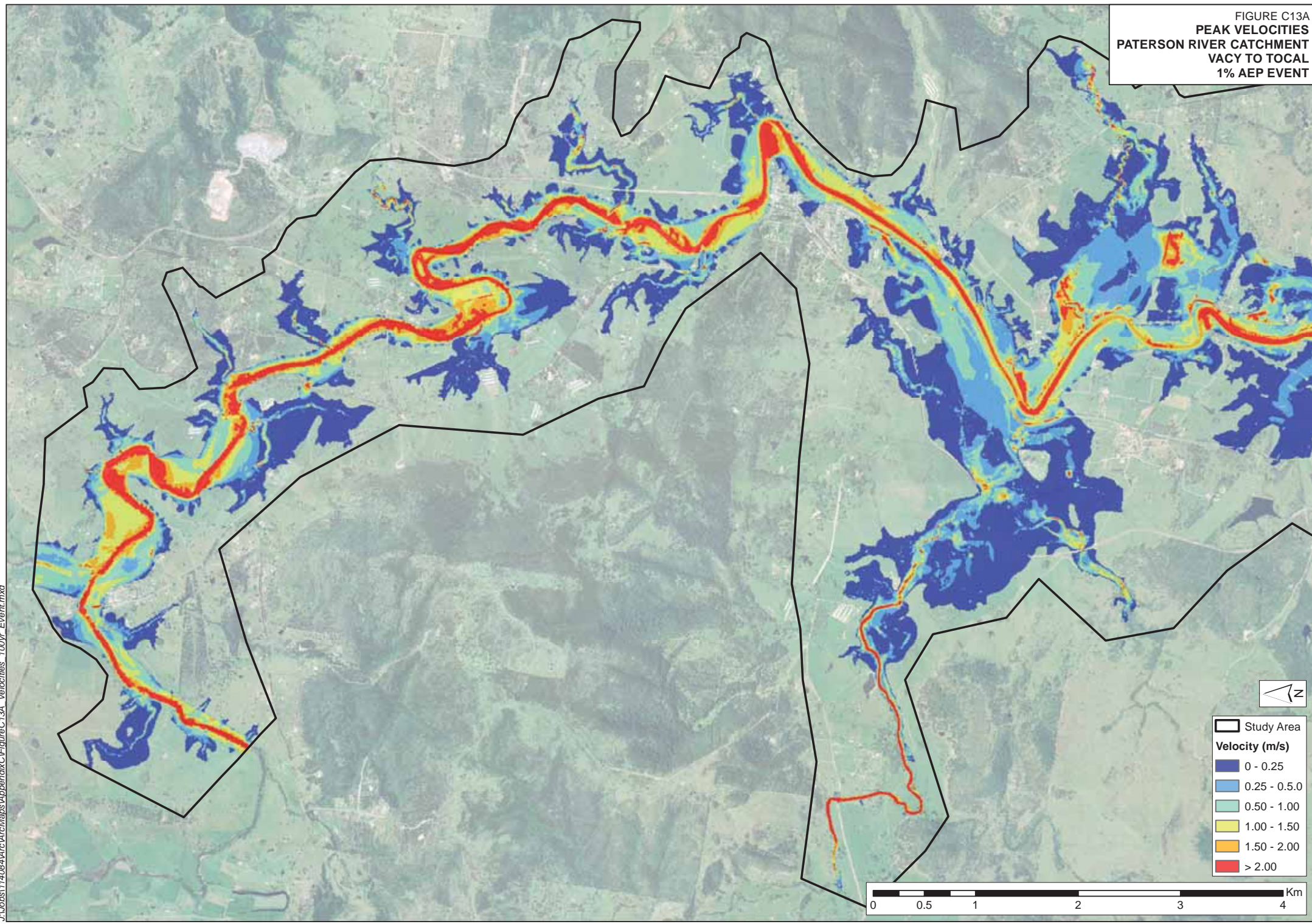
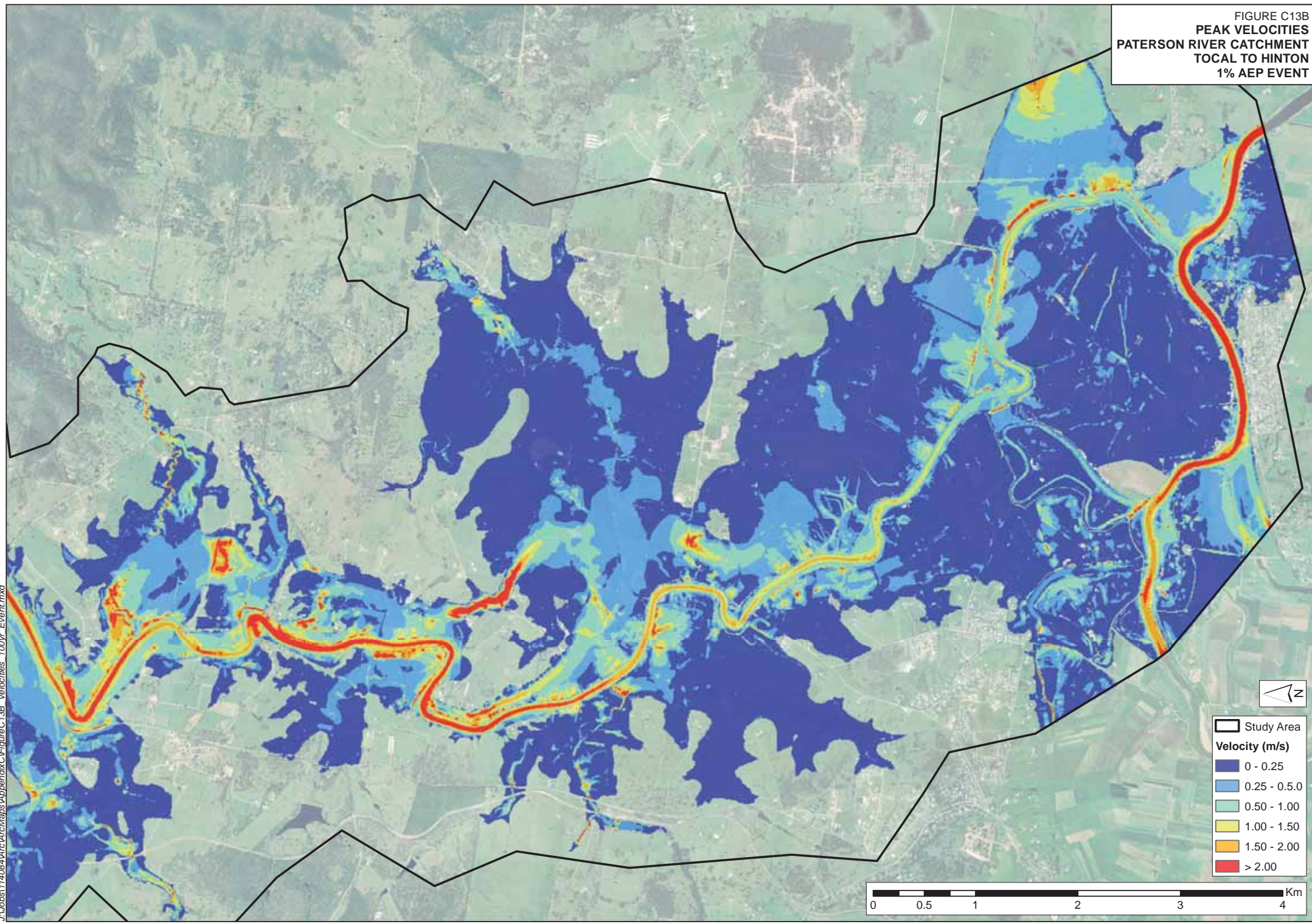


FIGURE C13B
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
1% AEP EVENT



J:\Jobs\114084\Arc\Map\Appendix\FigureC13B_Velocities_100yr_Event.mxd

Study Area

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.5.0
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00

0 0.5 1 2 3 4 Km

FIGURE C14A
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
VACY TO TOTAL
0.5% AEP EVENT

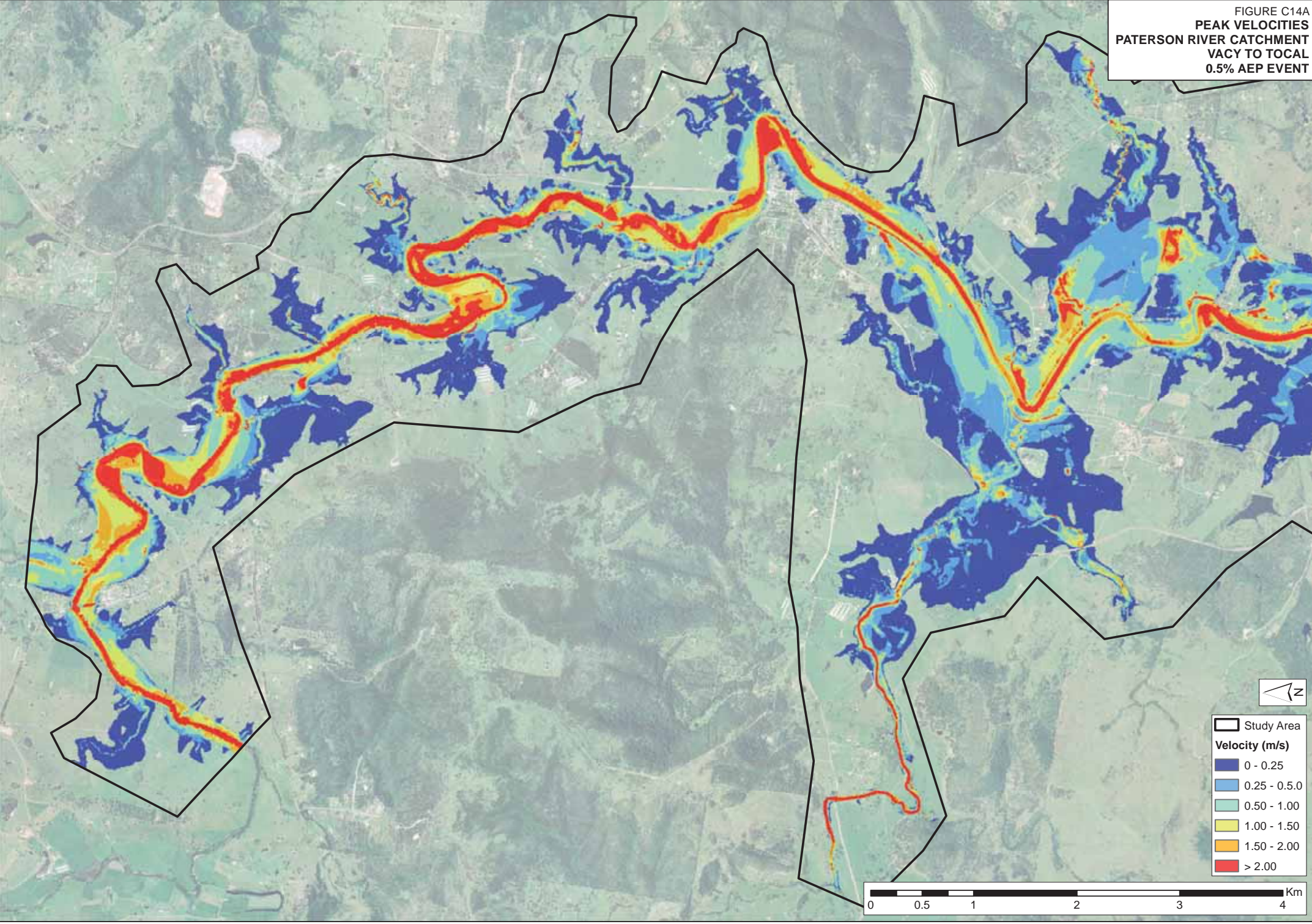
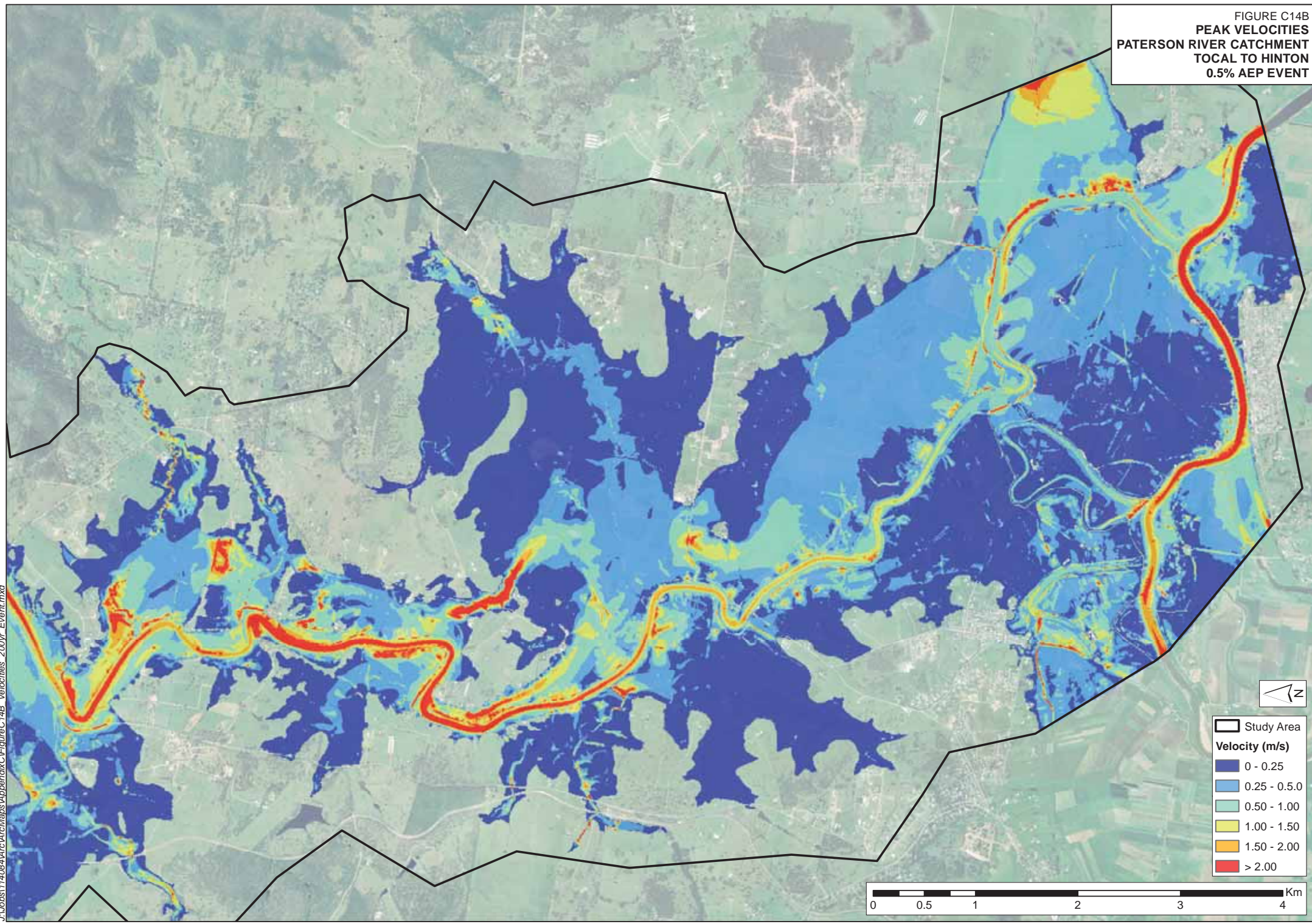


FIGURE C14B
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
0.5% AEP EVENT



J:\Jobs\114084\Arc\Map\Appendix\FigureC14B_Velocities_200yr_Event.mxd

Study Area

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.5.0
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00



FIGURE C15A
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
VACY TO TOTAL
0.2% AEP EVENT

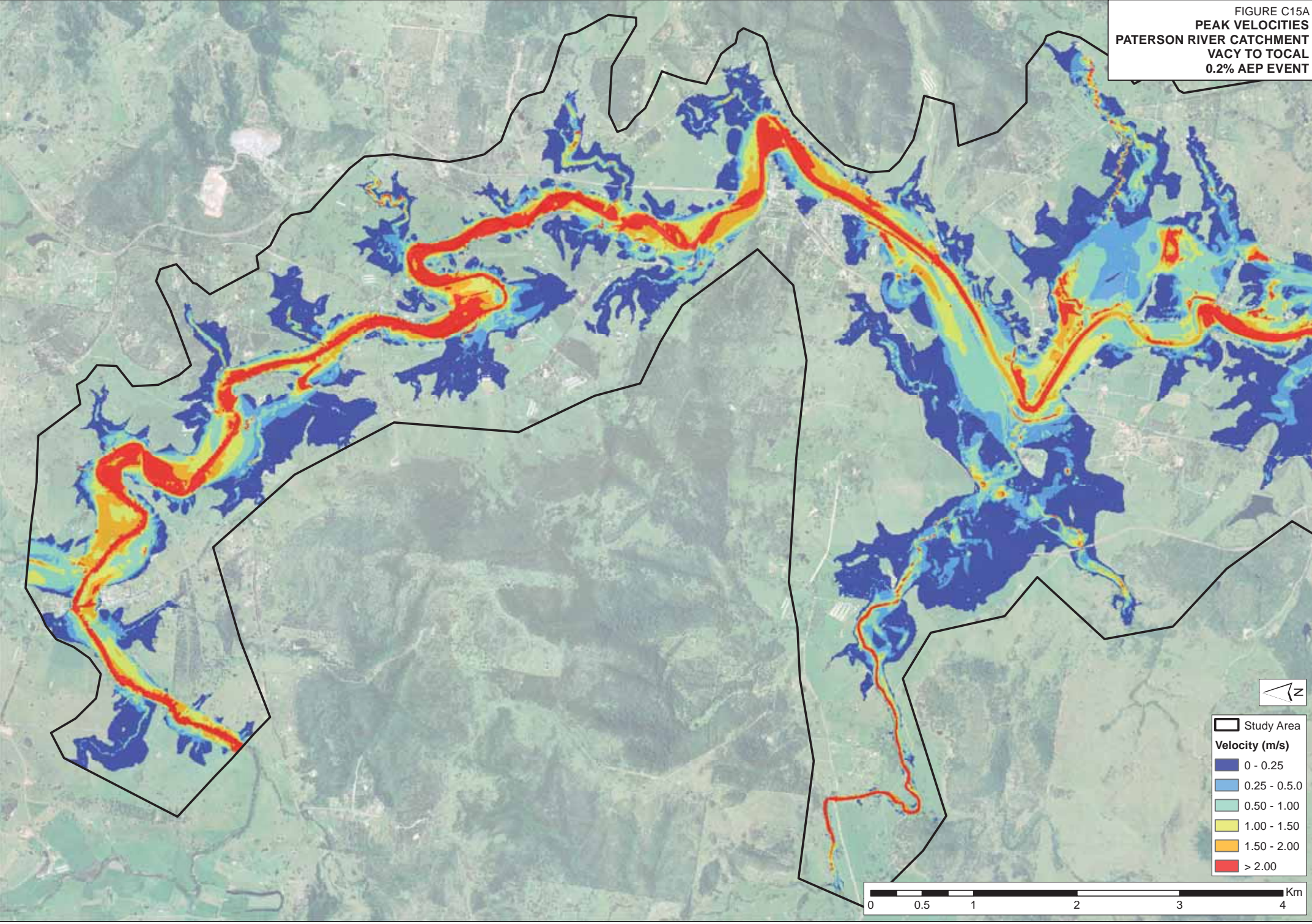
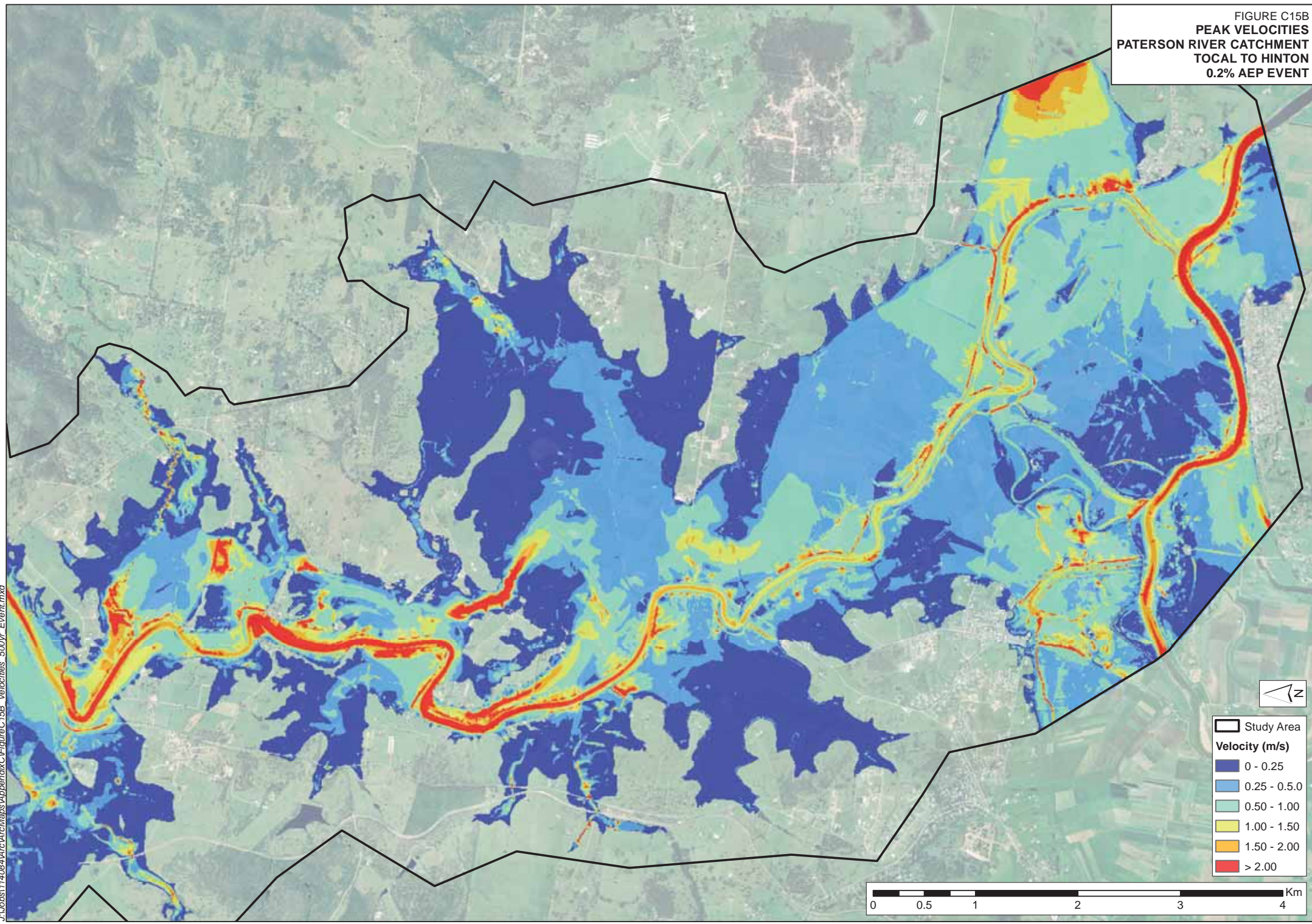


FIGURE C15B
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
0.2% AEP EVENT



J:\Jobs\114084\ArcMap\Map\Appendix\FigureC15B_Velocities_500yr_Event.mxd

FIGURE C16A
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
VACY TO TOTAL
PMF EVENT

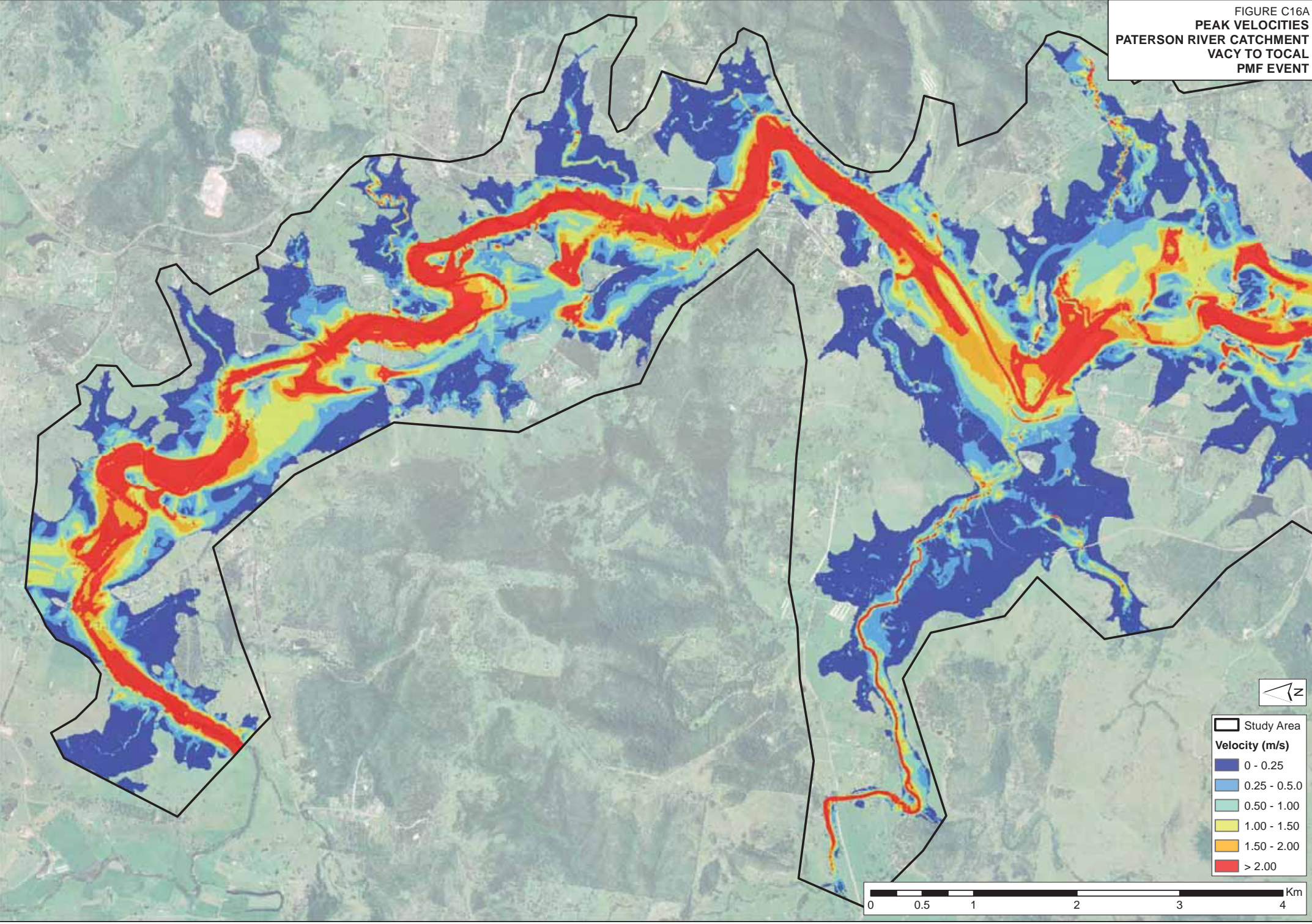
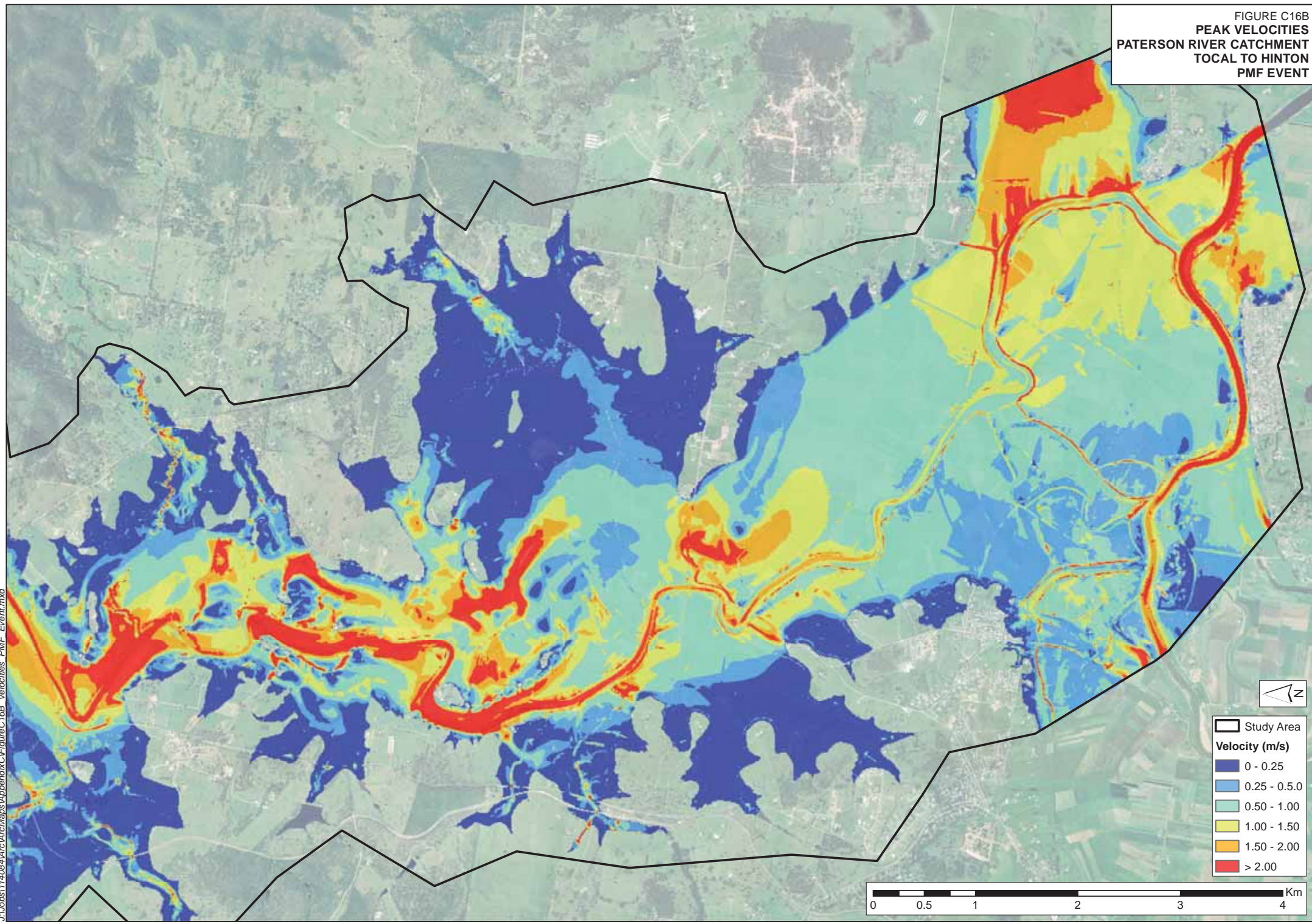
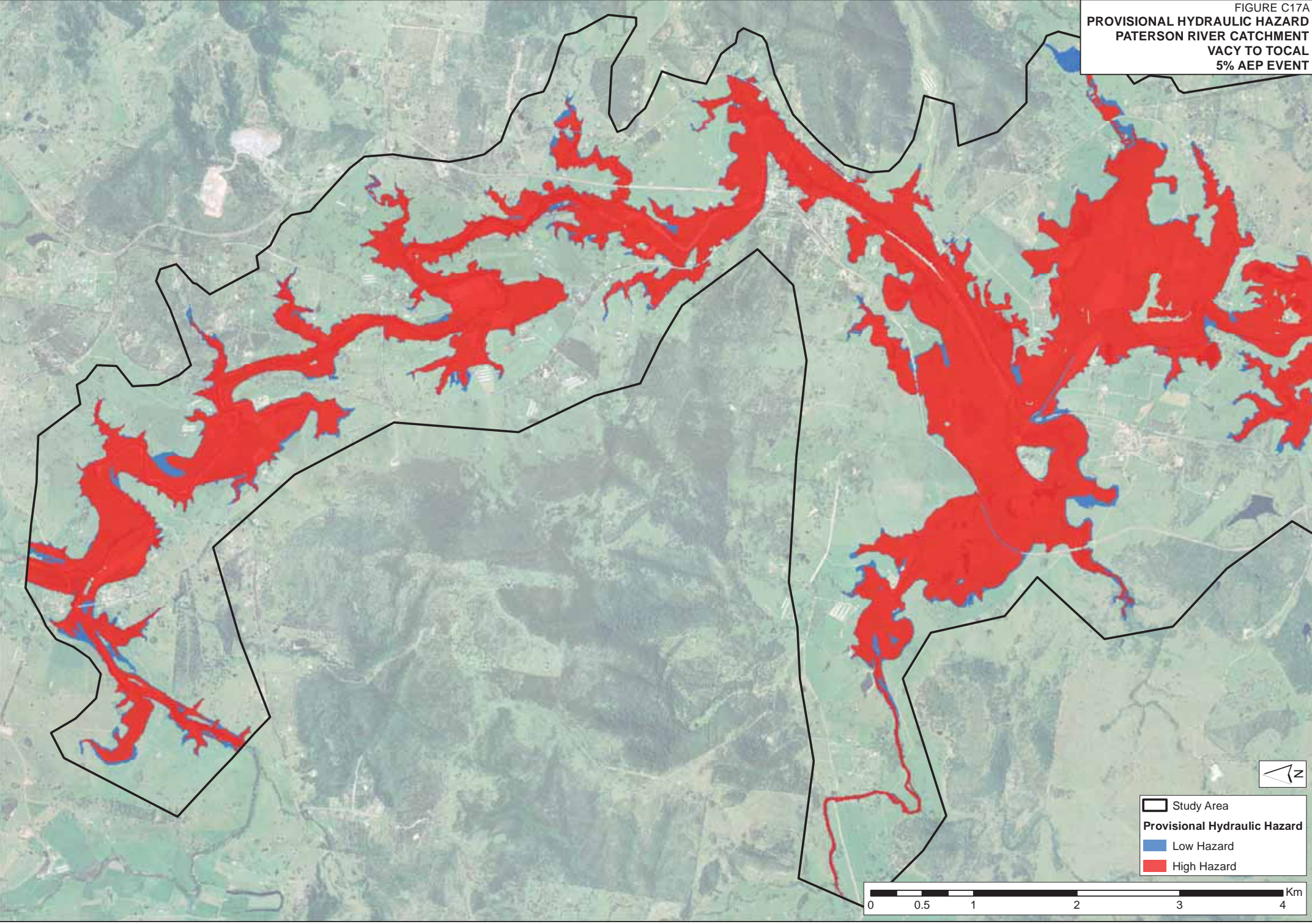


FIGURE C16B
PEAK VELOCITIES
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
PMF EVENT



J:\Jobs\114084\ArcMap\Appendix\FigureC16B_Velocities_PMF_Event.mxd

FIGURE C17A
PROVISIONAL HYDRAULIC HAZARD
PATERSON RIVER CATCHMENT
VACY TO TOTAL
5% AEP EVENT



J:\Jobs\114084\ArcMap\AppendixC\FigureC17A_Provisional_Hydraulic_Hazard_020yr_Event.mxd

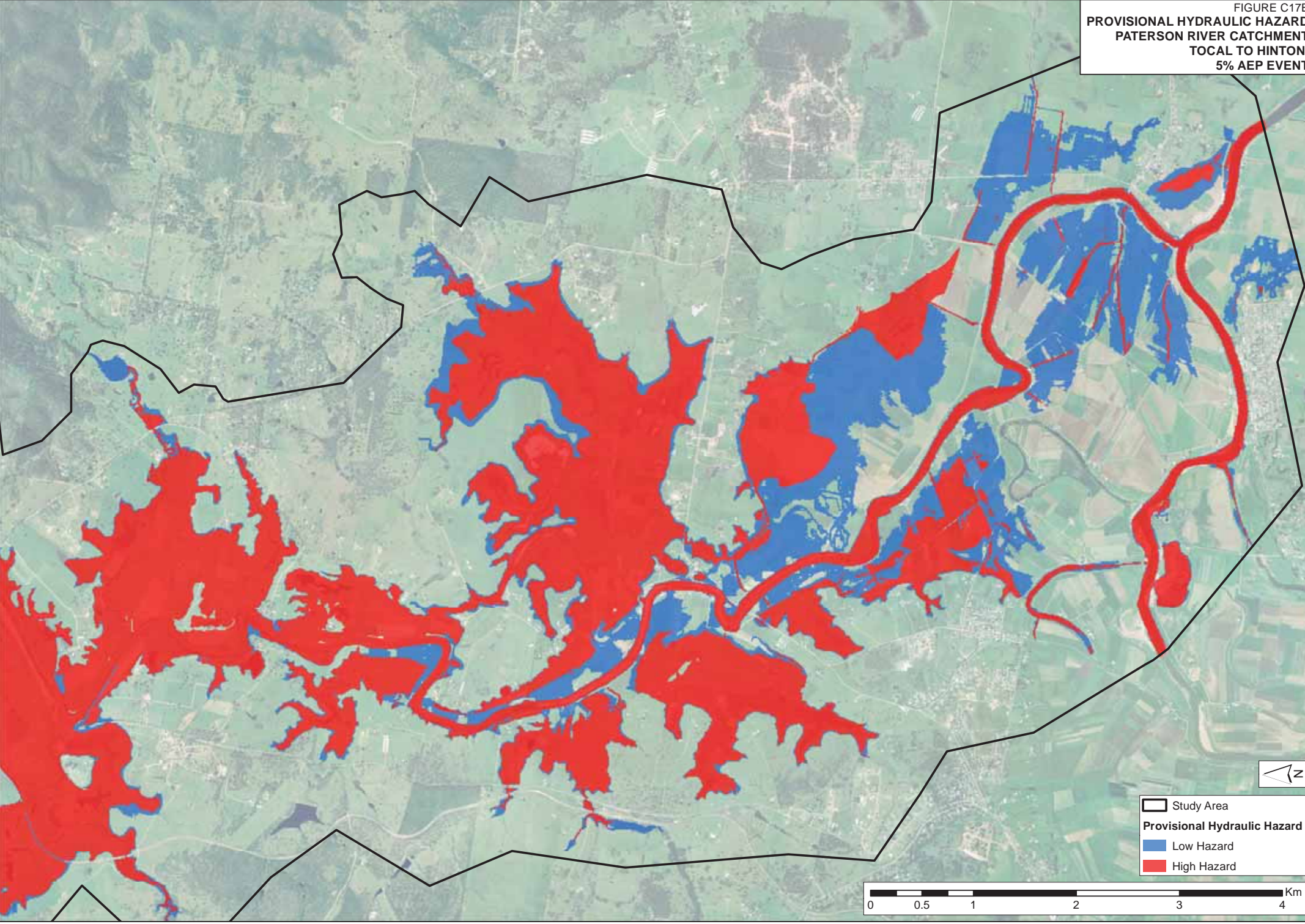
Study Area

Provisional Hydraulic Hazard

- Low Hazard
- High Hazard

0 0.5 1 2 3 4 Km

FIGURE C17B
PROVISIONAL HYDRAULIC HAZARD
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
5% AEP EVENT



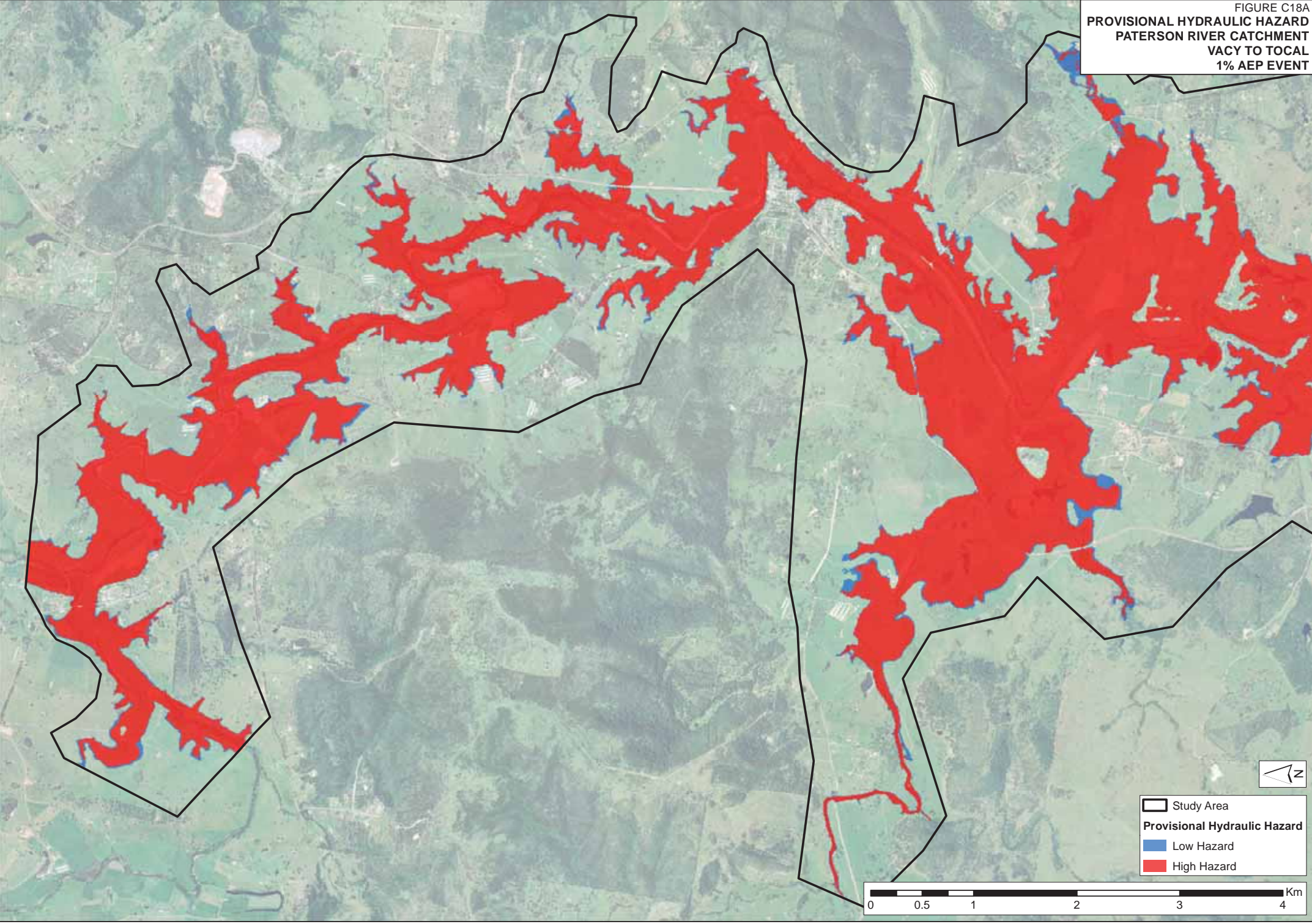
J:\Jobs\114084\ArcMap\maps\AppendixC\FigureC17B_Provisional_Hydraulic_Hazard_020yr_Event.mxd

Study Area
Provisional Hydraulic Hazard
Low Hazard
High Hazard

0 0.5 1 2 3 4 Km



FIGURE C18A
PROVISIONAL HYDRAULIC HAZARD
PATERSON RIVER CATCHMENT
VACY TO TOTAL
1% AEP EVENT

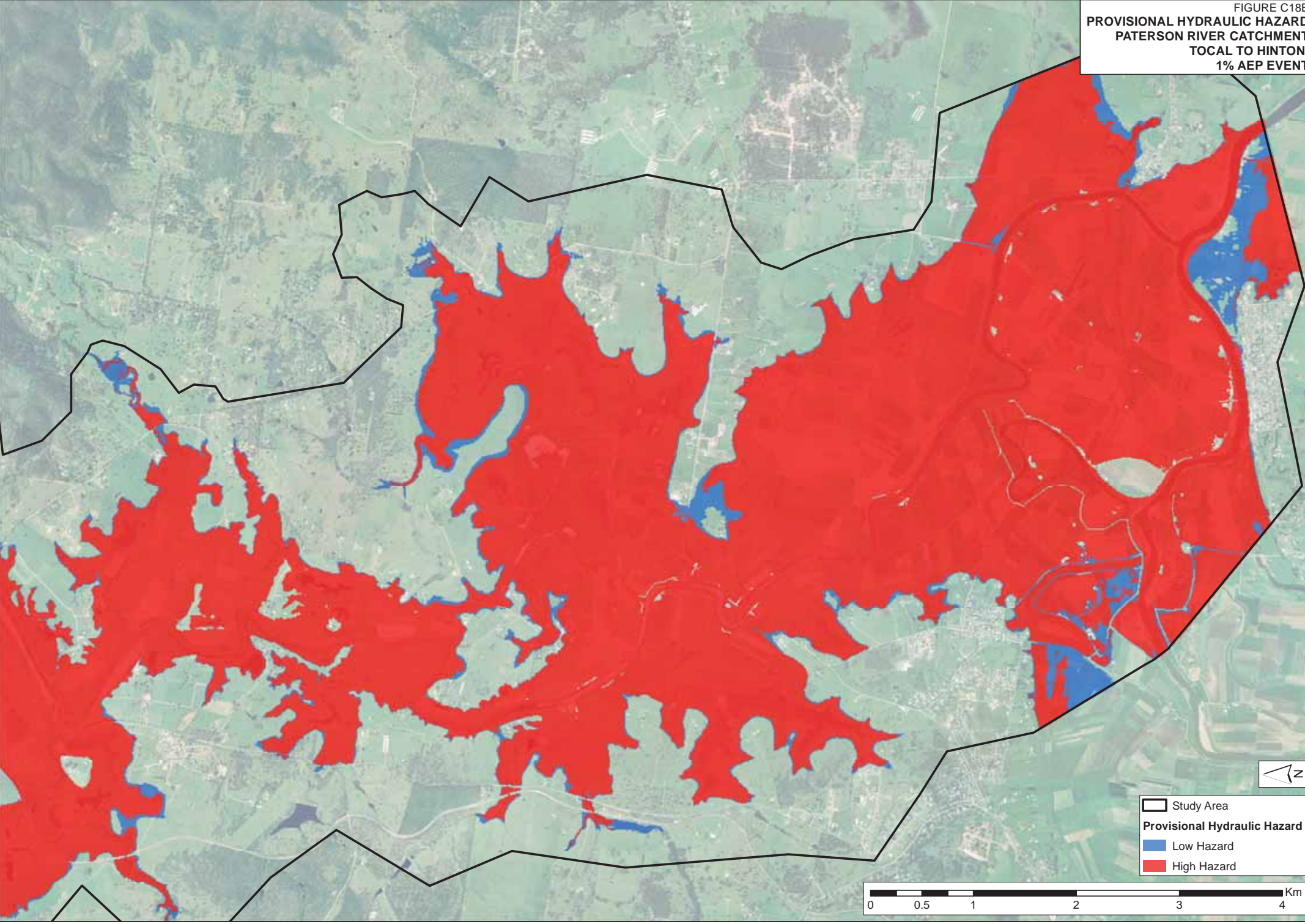





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Study Area
Provisional Hydraulic Hazard
Low Hazard
High Hazard

0 0.5 1 2 3 4 Km

FIGURE C18B
PROVISIONAL HYDRAULIC HAZARD
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
1% AEP EVENT

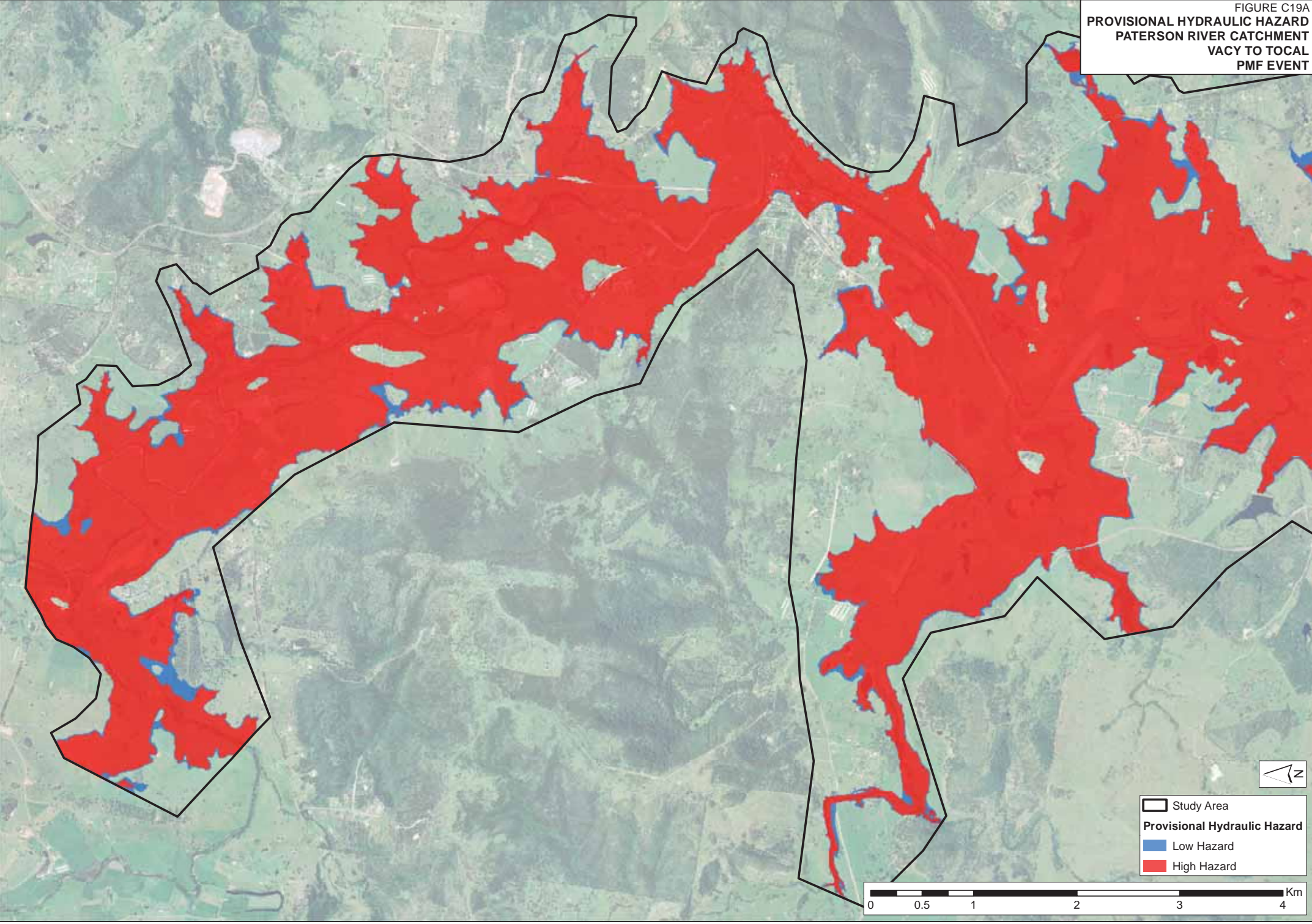


-  Study Area
- Provisional Hydraulic Hazard**
-  Low Hazard
-  High Hazard



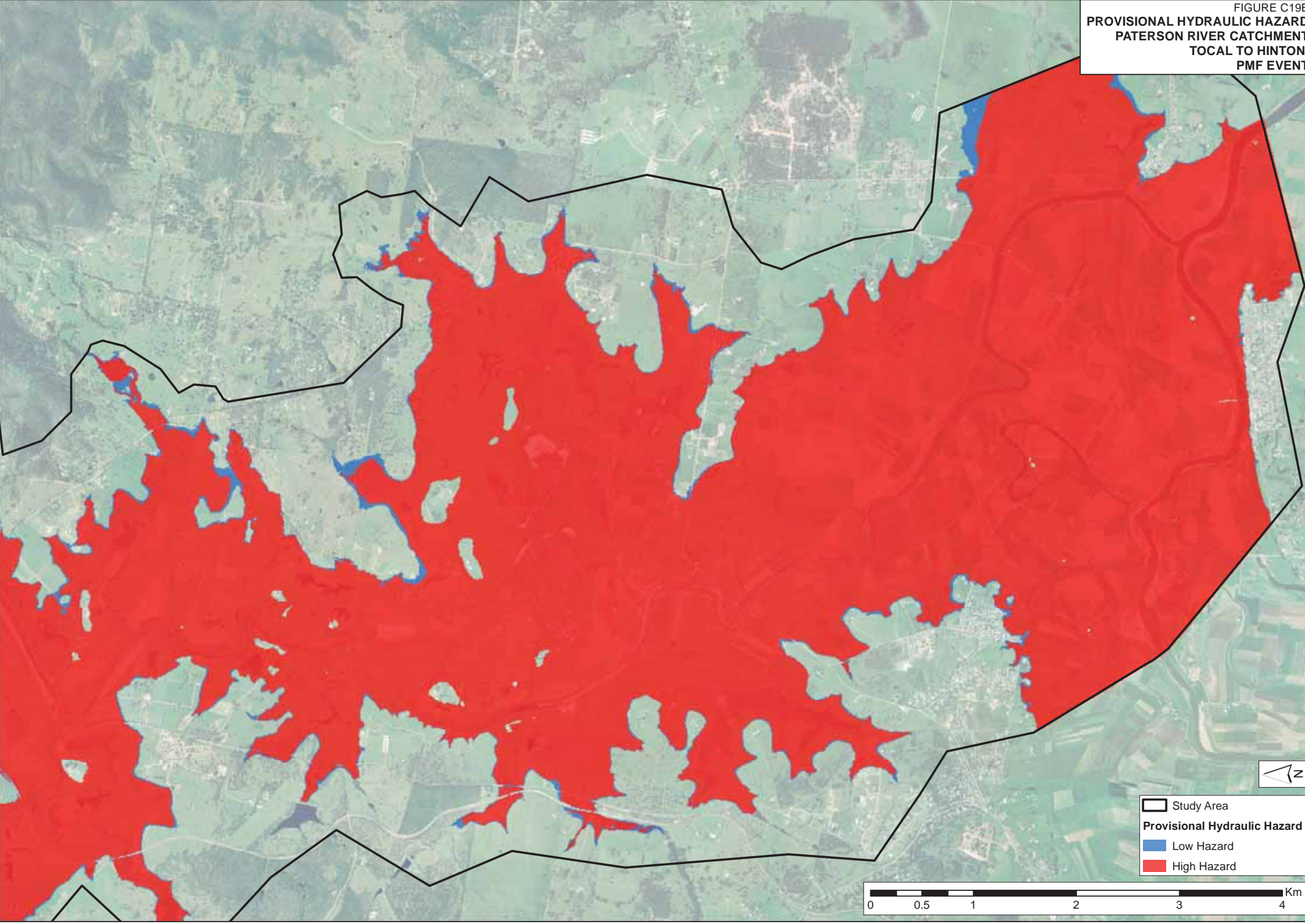
J:\Jobs\114084\ArcMap\Appendix\C18B_Provisional_Hydraulic_Hazard_100yr_Event.mxd

FIGURE C19A
PROVISIONAL HYDRAULIC HAZARD
PATERSON RIVER CATCHMENT
VACY TO TOCAL
PMF EVENT



J:\jobs\114084\Arc\maps\AppendixC\FigureC19A_Provisional_Hydraulic_Hazard_PMF_Event.mxd

FIGURE C19B
PROVISIONAL HYDRAULIC HAZARD
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
PMF EVENT



J:\Jobs\114084\Arc\maps\AppendixC\FigureC19B_Provisional_Hydraulic_Hazard_PMF_Event.mxd

Study Area

Provisional Hydraulic Hazard

- Low Hazard
- High Hazard

0 0.5 1 2 3 4 Km

FIGURE C20A
PROVISIONAL HYDRAULIC CATEGORISATION
PATERSON RIVER CATCHMENT
VACY TO TOLCAL
5% AEP EVENT

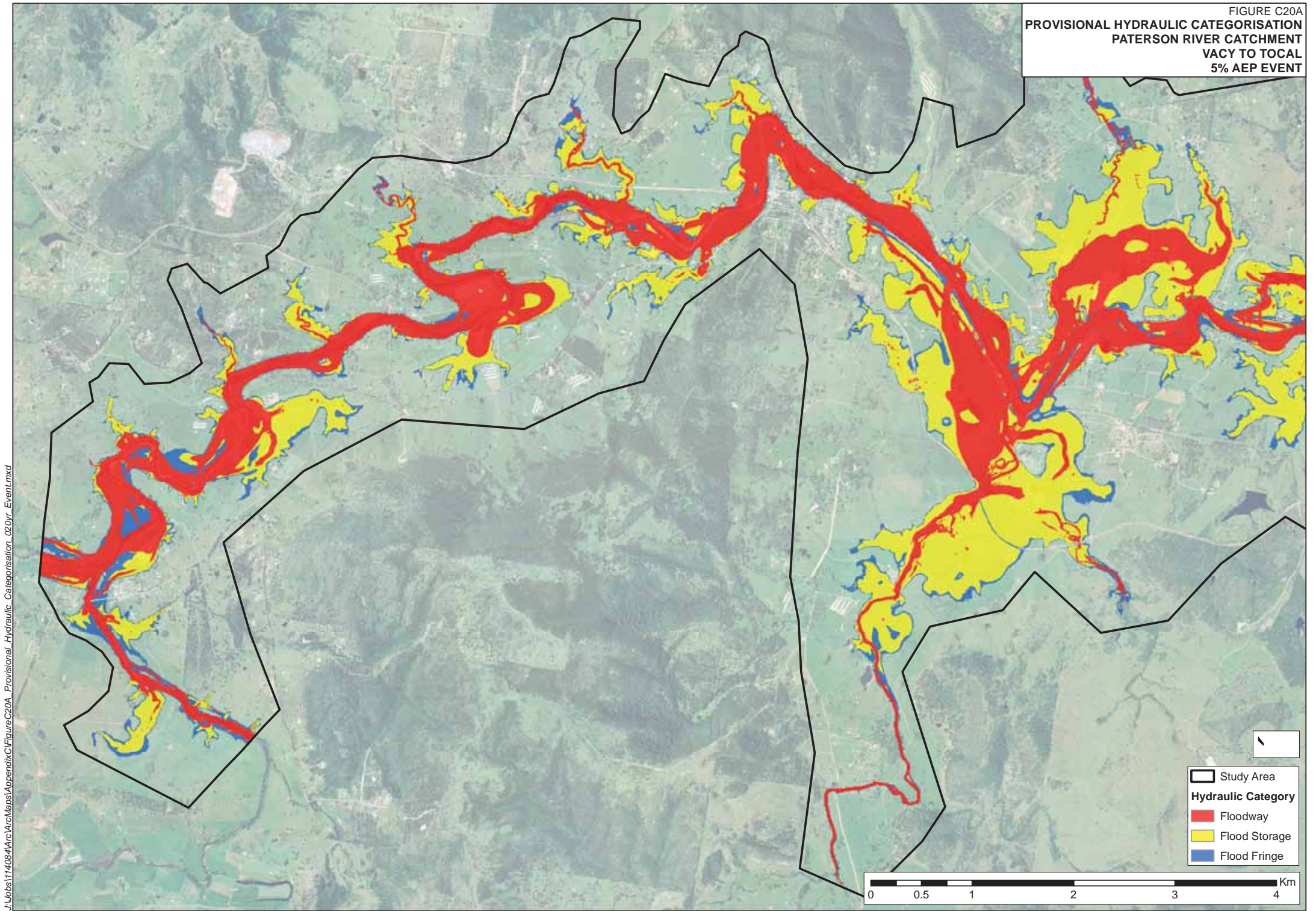
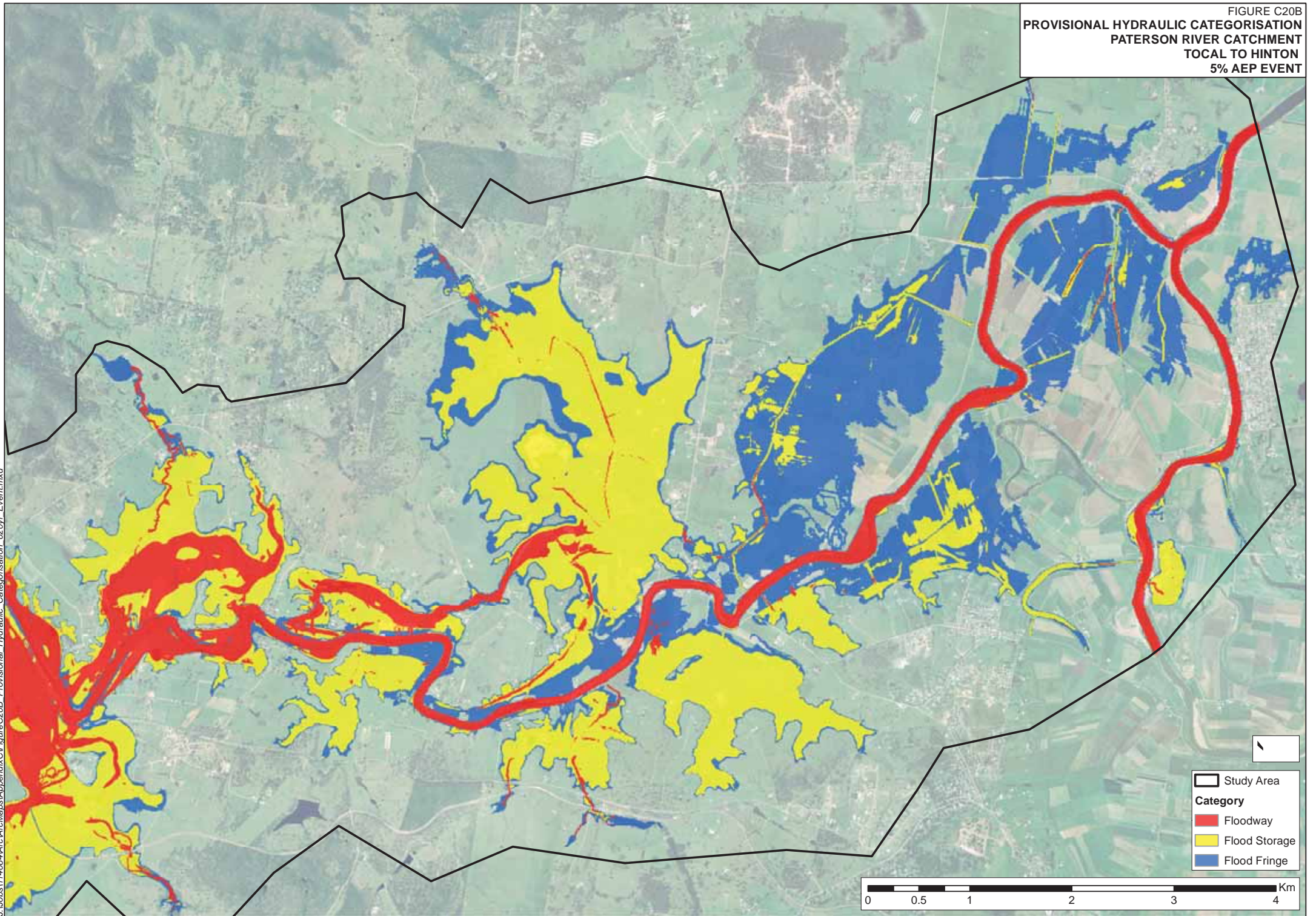


FIGURE C20B
PROVISIONAL HYDRAULIC CATEGORISATION
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
5% AEP EVENT



J:\Jobs\114084\ArcMap\AppendixC\FigureC20B_Provisional_Hydraulic_Categorisation_020yr_Event1.mxd

FIGURE C21A
PROVISIONAL HYDRAULIC CATEGORISATION
PATERSON RIVER CATCHMENT
VACY TO TOLCAL
1% AEP EVENT

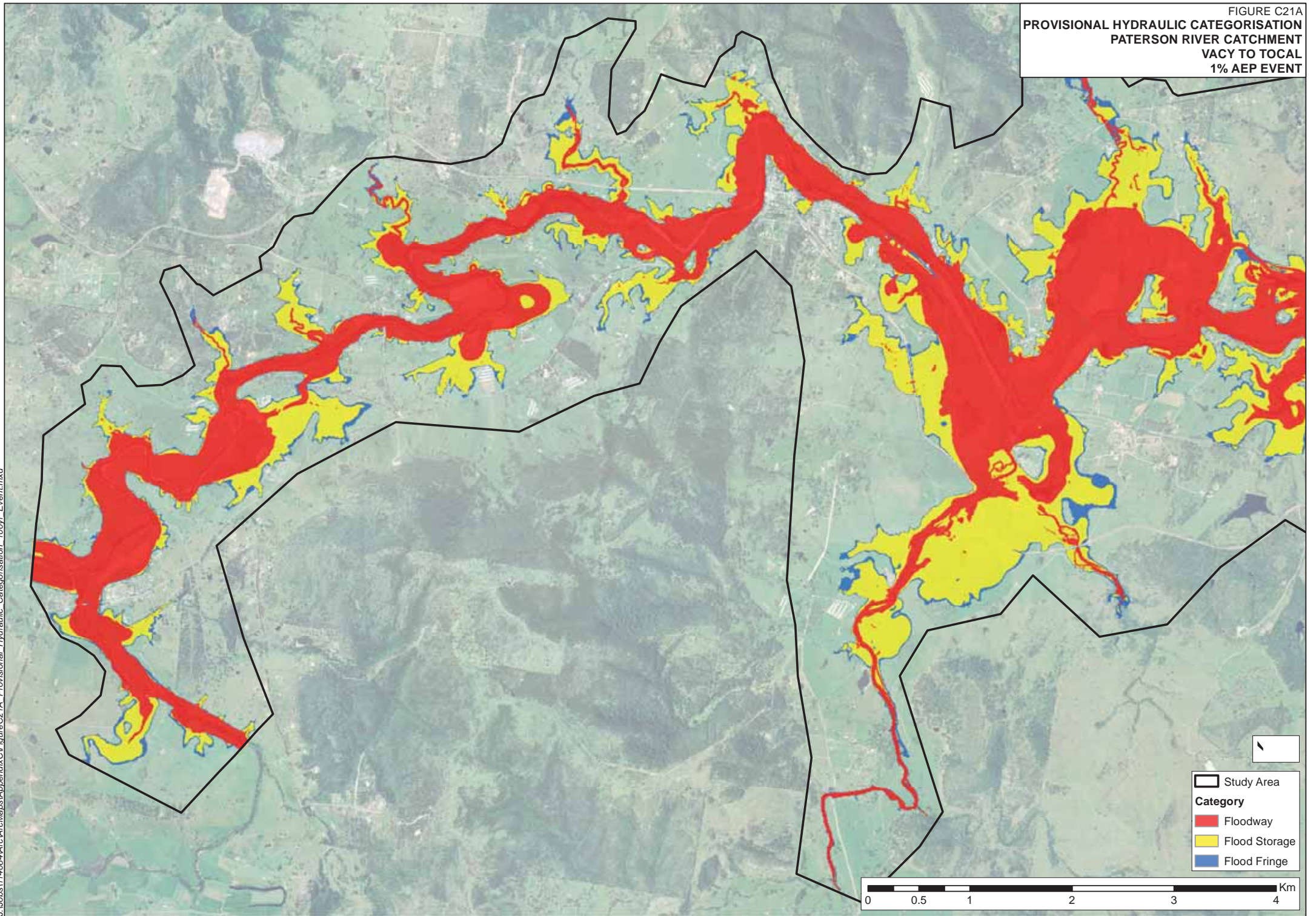


FIGURE C21B
PROVISIONAL HYDRAULIC CATEGORISATION
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
1% AEP EVENT

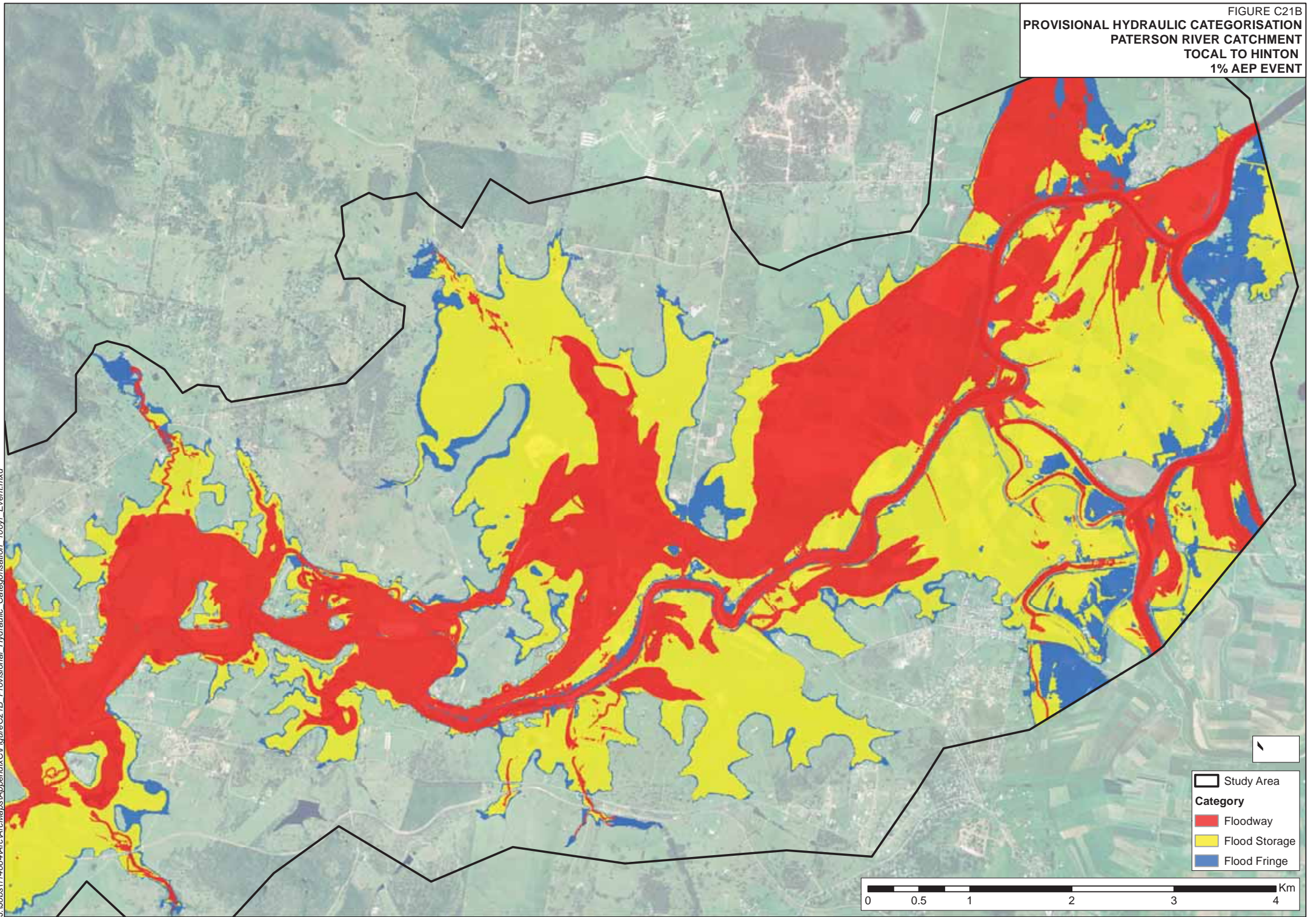


FIGURE C22A
PROVISIONAL HYDRAULIC CATEGORISATION
PATERSON RIVER CATCHMENT
VACY TO TOLCAL
PMF EVENT

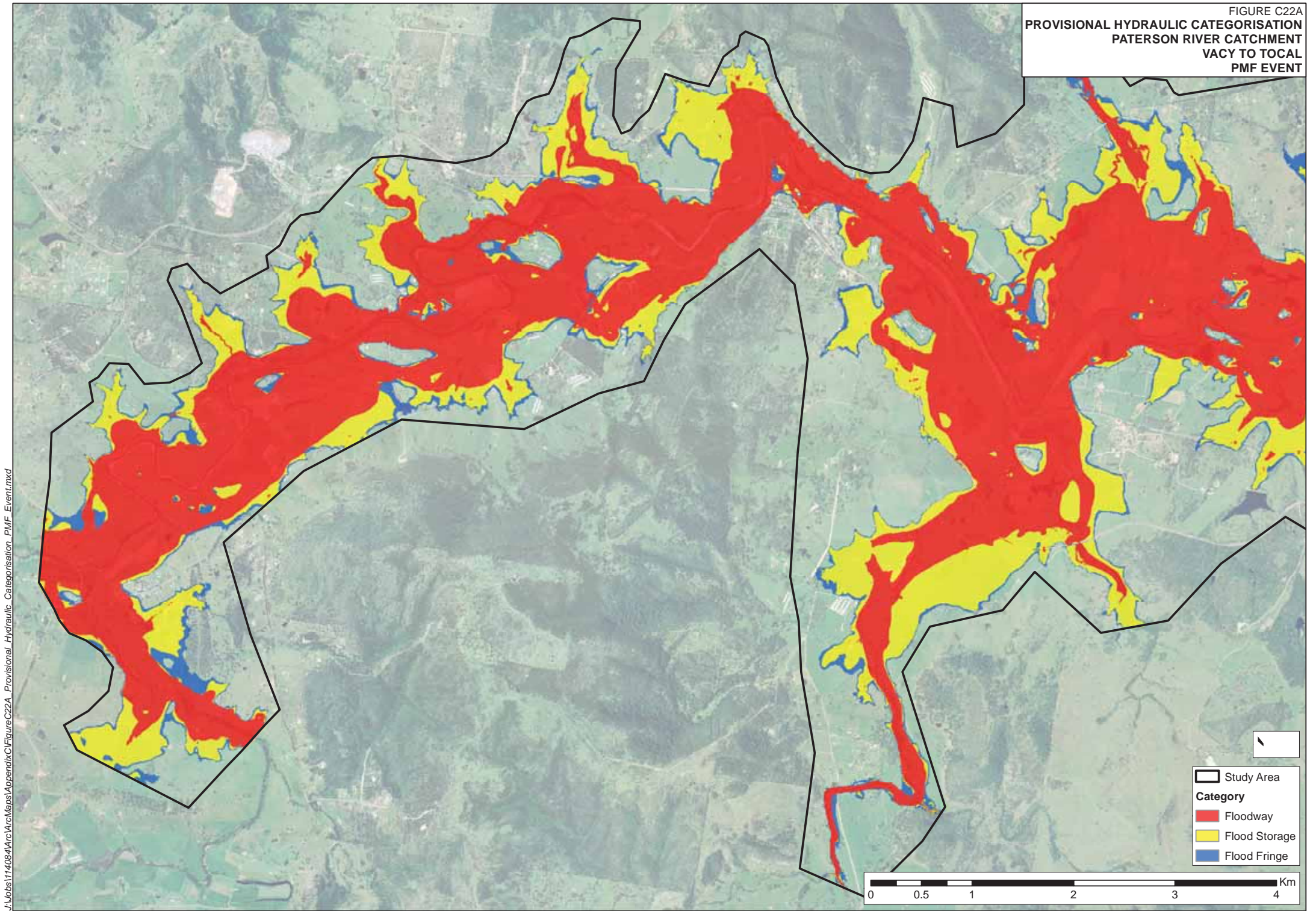


FIGURE C22B
PROVISIONAL HYDRAULIC CATEGORISATION
PATERSON RIVER CATCHMENT
TOTAL TO HINTON
PMF EVENT

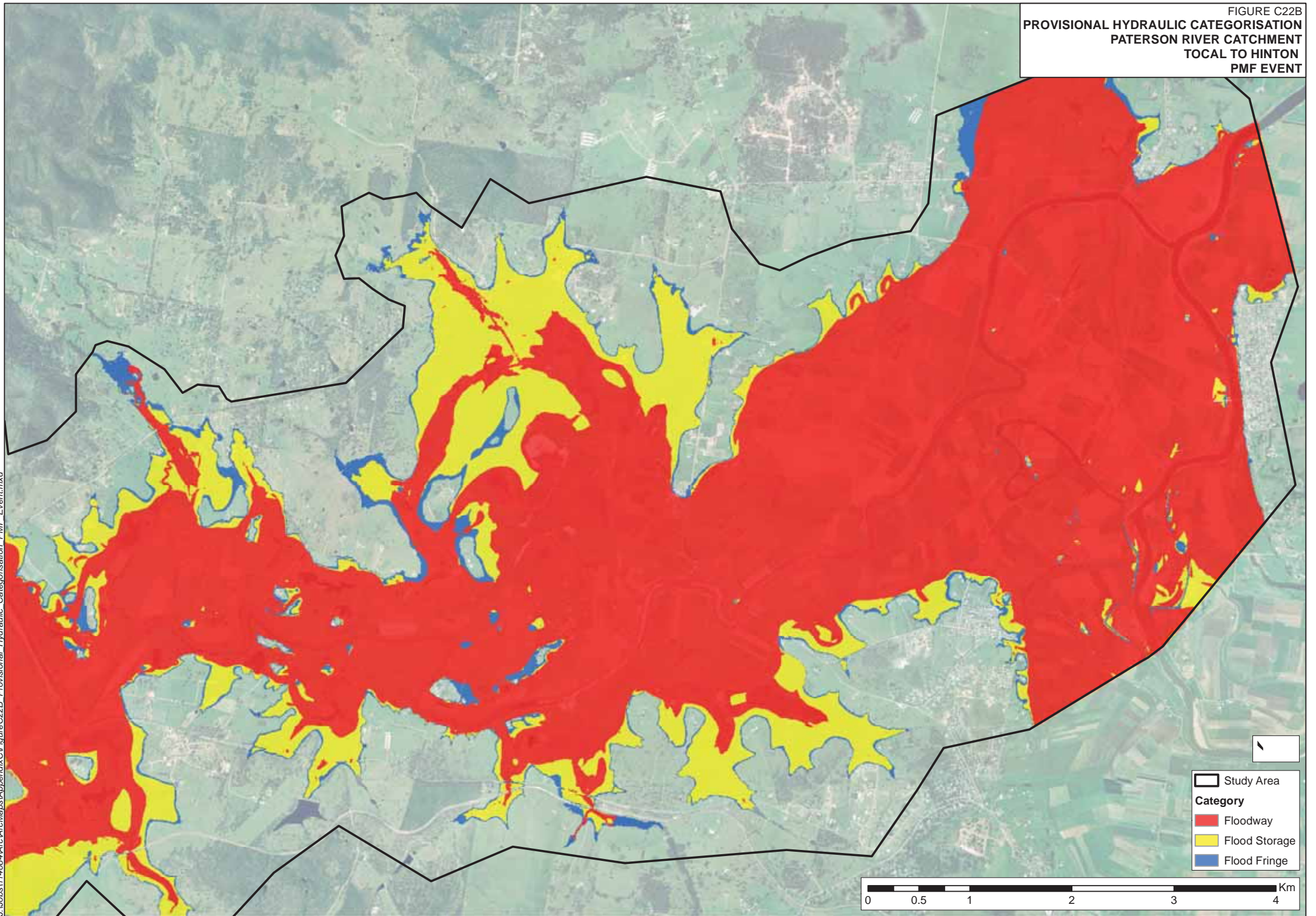


FIGURE C23A
PRELIMINARY FLOOD PLANNING AREA
PATERSON RIVER CATCHMENT
VACY TO TOTAL

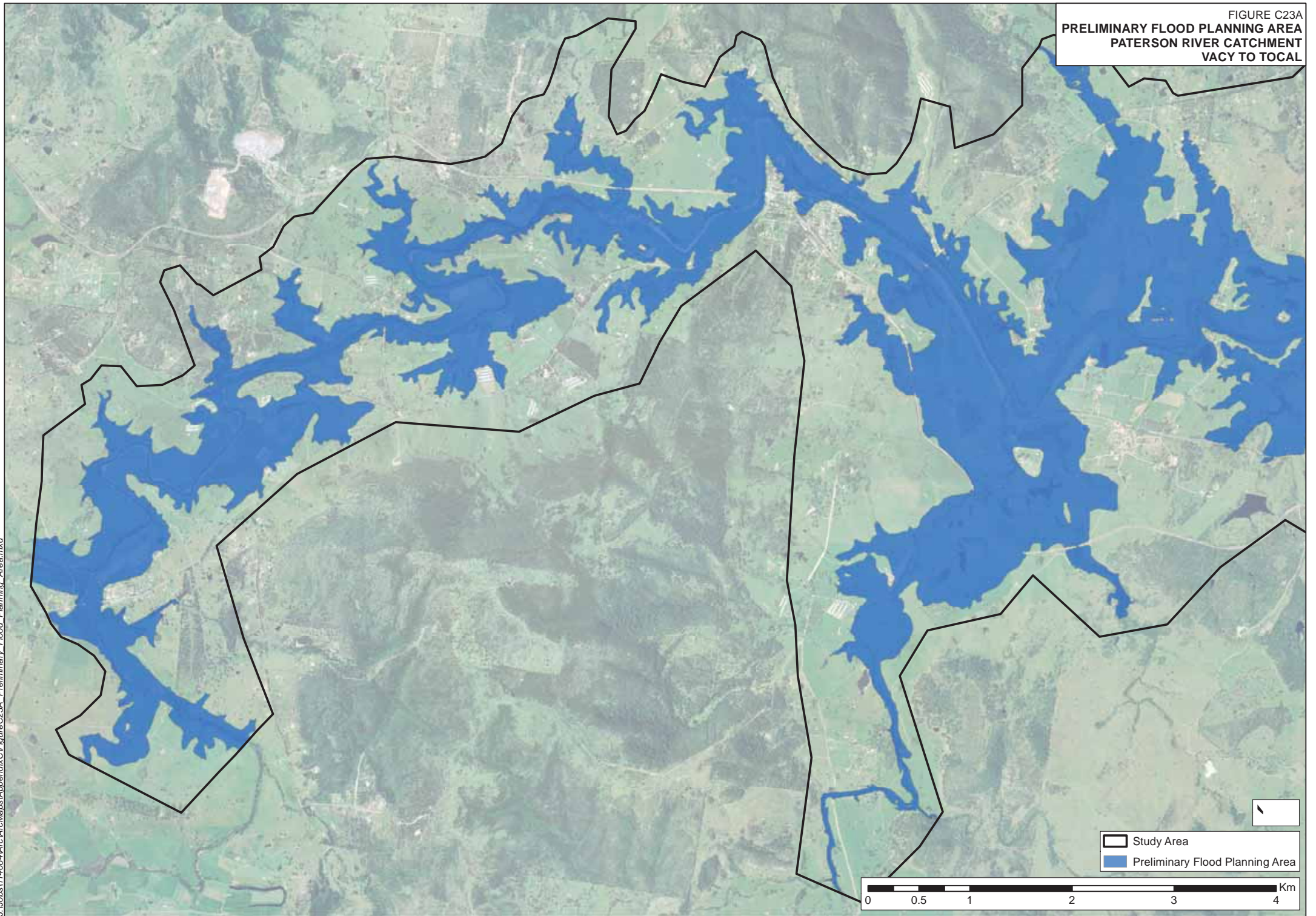
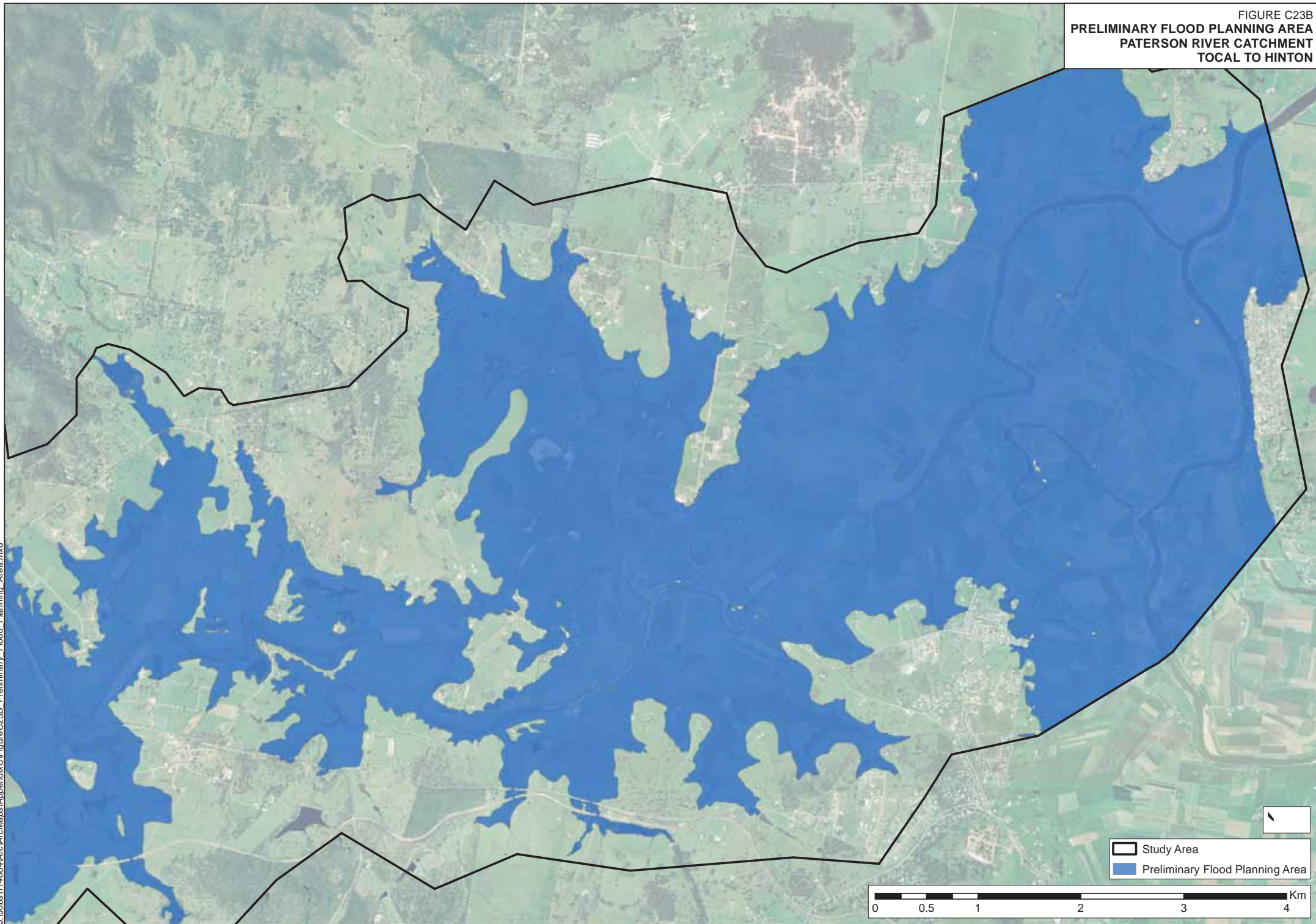


FIGURE C23B
PRELIMINARY FLOOD PLANNING AREA
PATERSON RIVER CATCHMENT
TOTAL TO HINTON



J:\jobs\114084\ArcMap\maps\AppendixC\FigureC23B_Preliminary_Flood_Planning_Area.mxd

FIGURE C24
PATERSON RIVER LEVEL PROFILE
5%, 1% AEP EVENT AND PMF

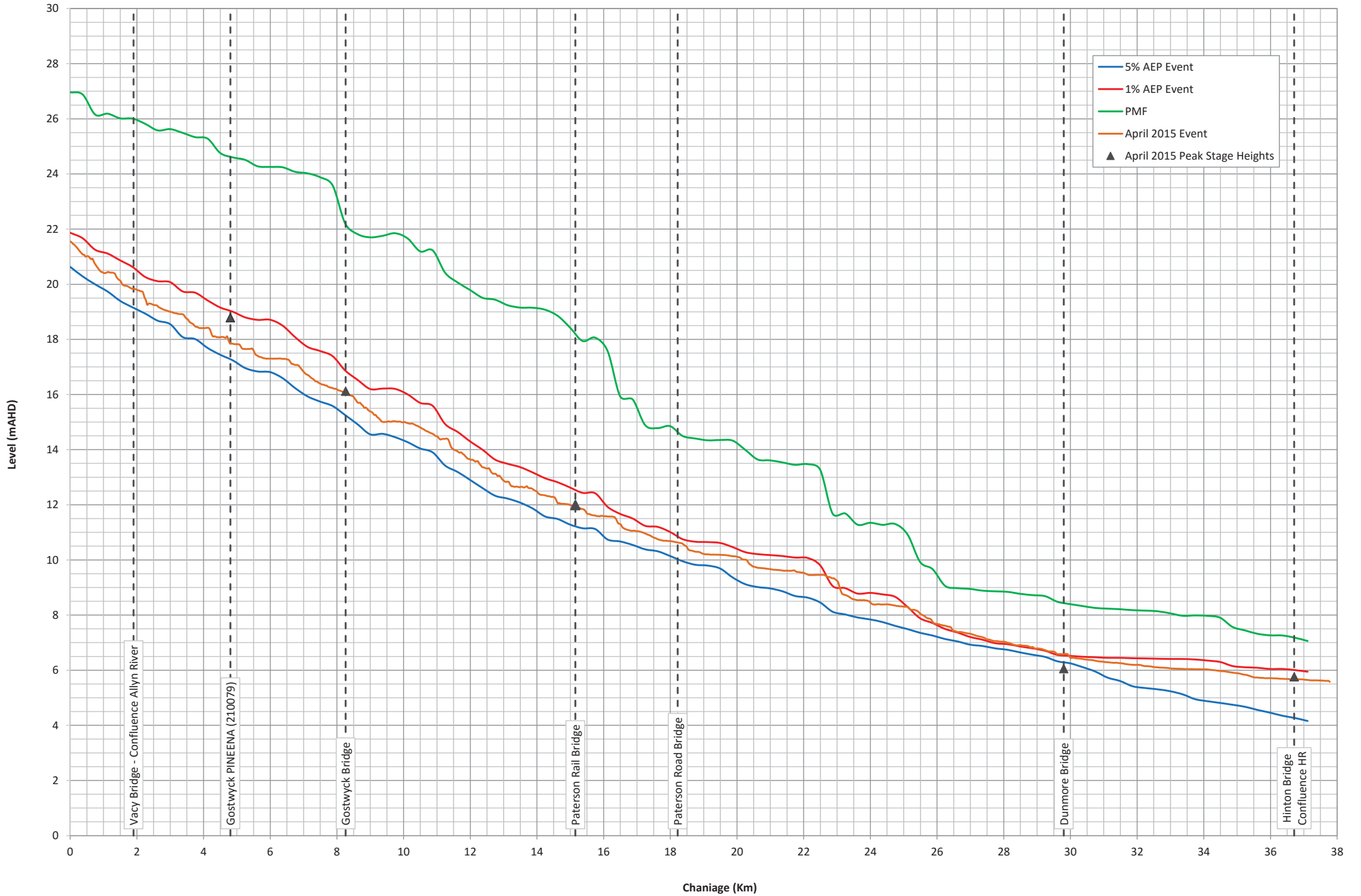
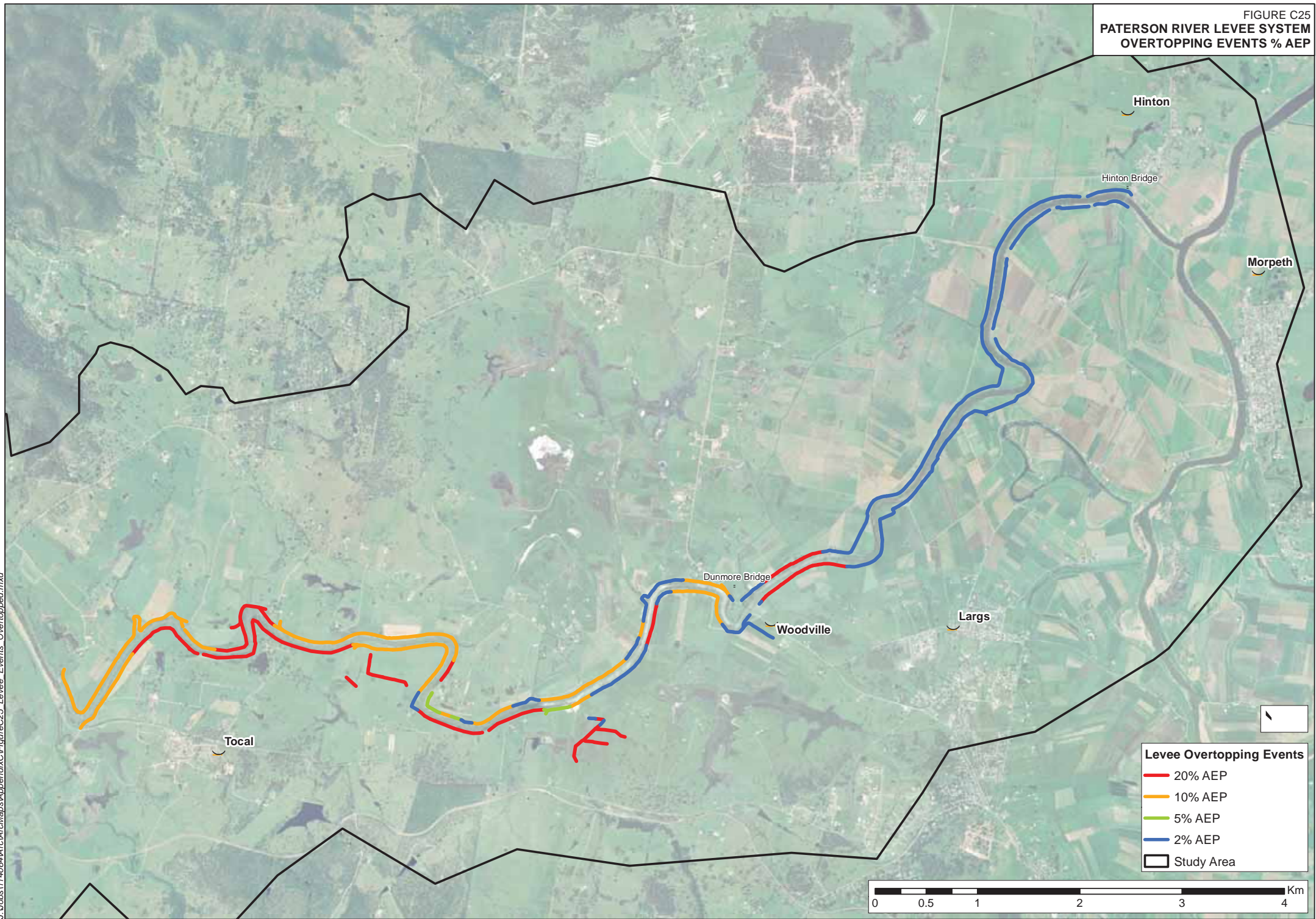


FIGURE C25
PATERSON RIVER LEVEE SYSTEM
OVERTOPPING EVENTS % AEP



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- Levee Overtopping Events**
- 20% AEP
 - 10% AEP
 - 5% AEP
 - 2% AEP
 - Study Area

0 0.5 1 2 3 4 Km