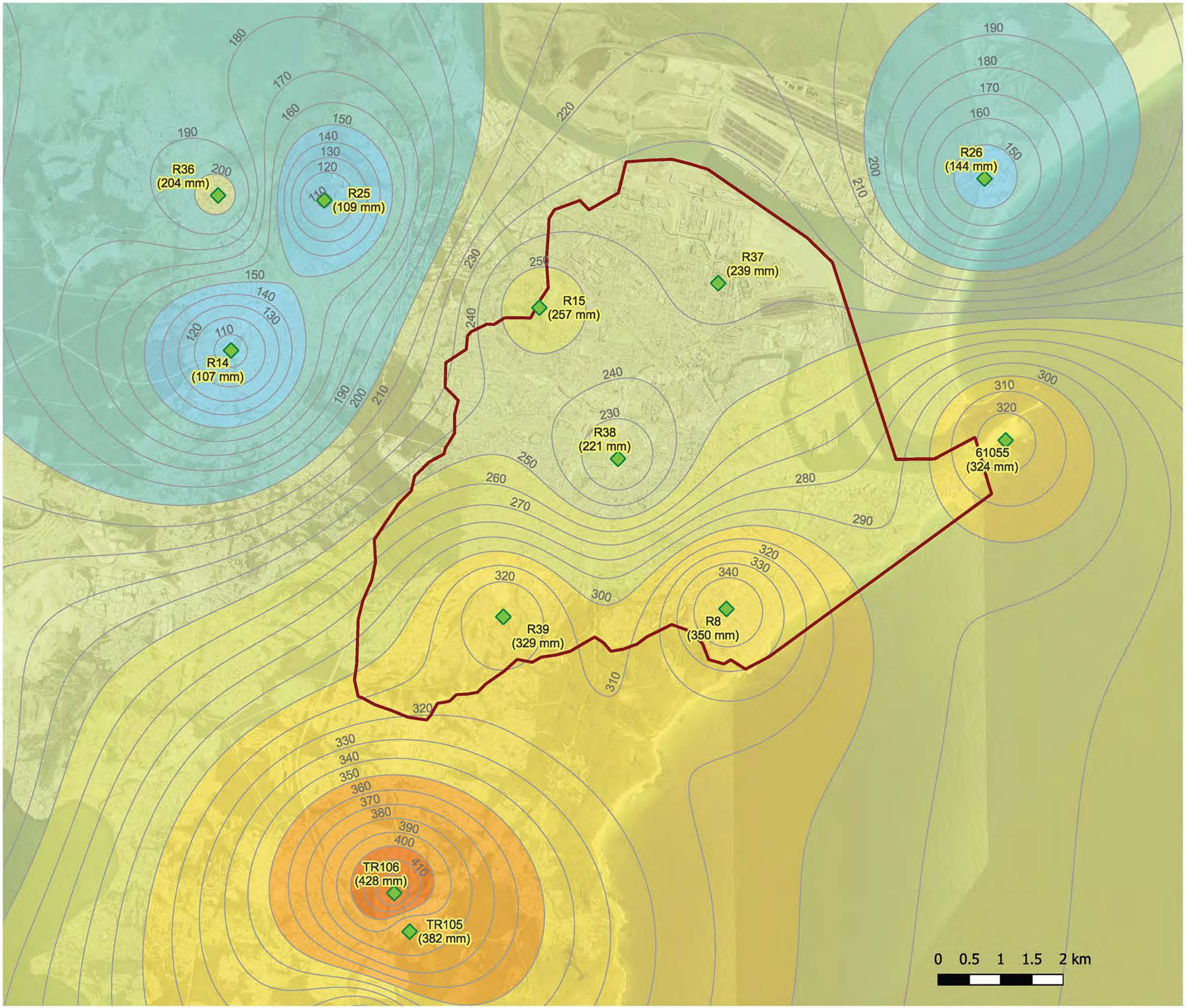

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Map G200

Throsby, Styx and Cottage Creek Flood Study

Isohyets
2007 Flood Event - Calibration

Legend

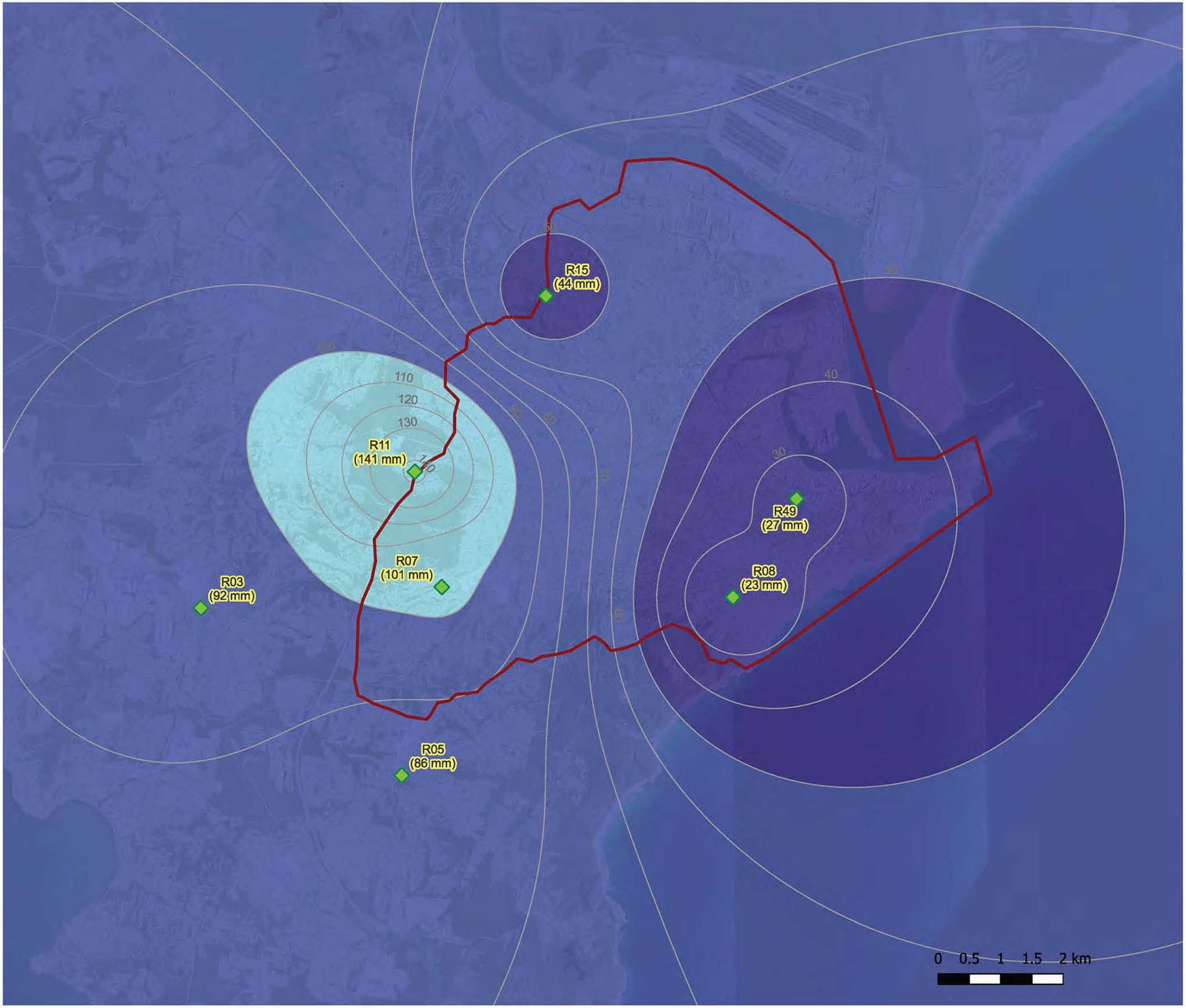
- Study Area
- Rainfall Gauges
- Isohyet Contours (10mm)

Isohyets (mm)

- <50
- 100
- 150
- 200
- 250
- 350
- 400
- 450
- 450
- >450

Scale : 1:55000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm



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Map G201

Throsby, Styx and Cottage Creek Flood Study

Isohyets
1988 Flood Event - Validation

Legend

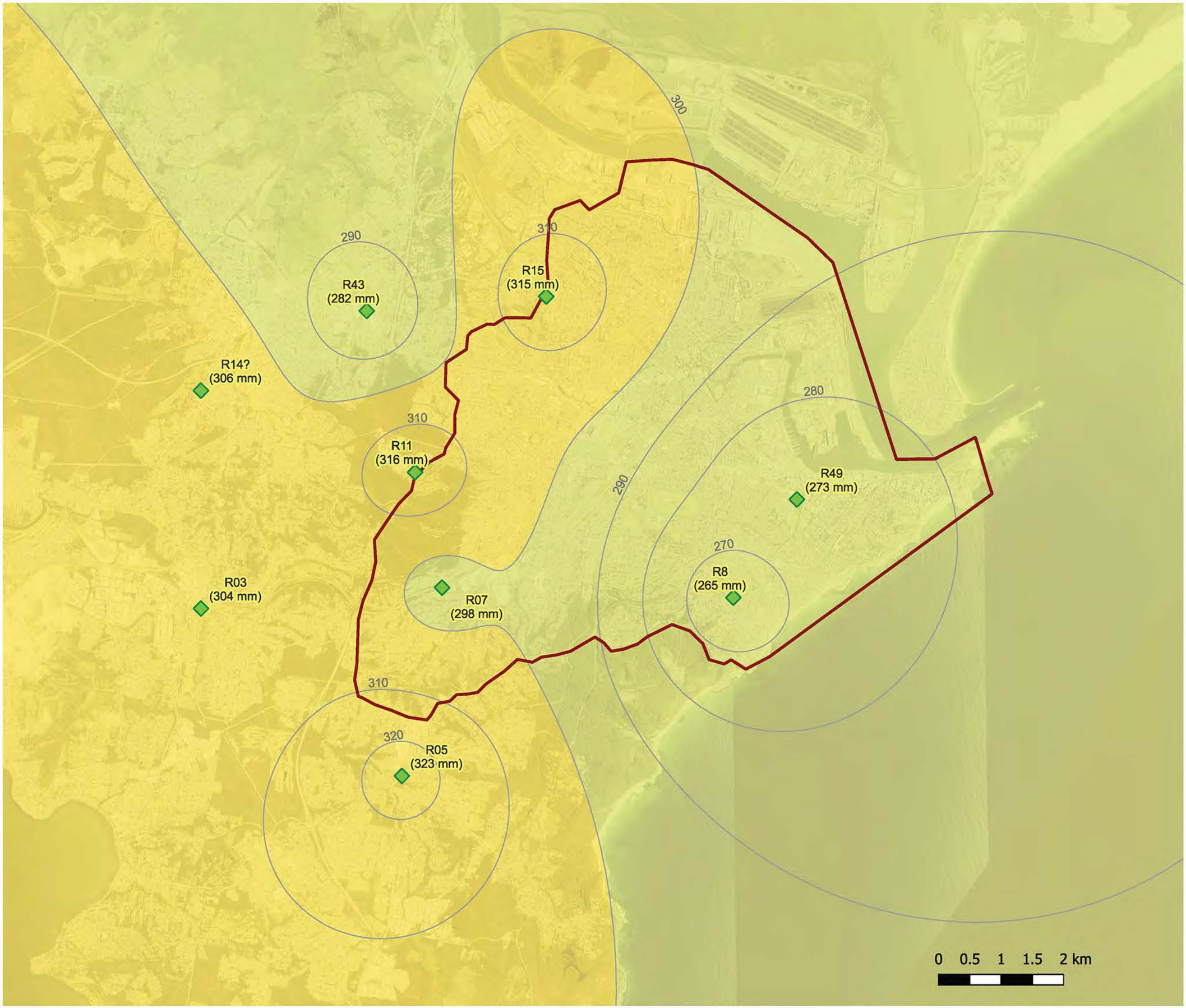
- Study Area
- Rainfall Gauges
- Isohyet Contours (10mm)

Isohyets (mm)

- <50
- 100
- 150
- 200
- 250
- 350
- 400
- 450
- 450
- >450

Scale : 1:55000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm



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Map G202

Throsby, Styx and Cottage Creek Flood Study

Isohyets
1990 Flood Event - Validation

Legend

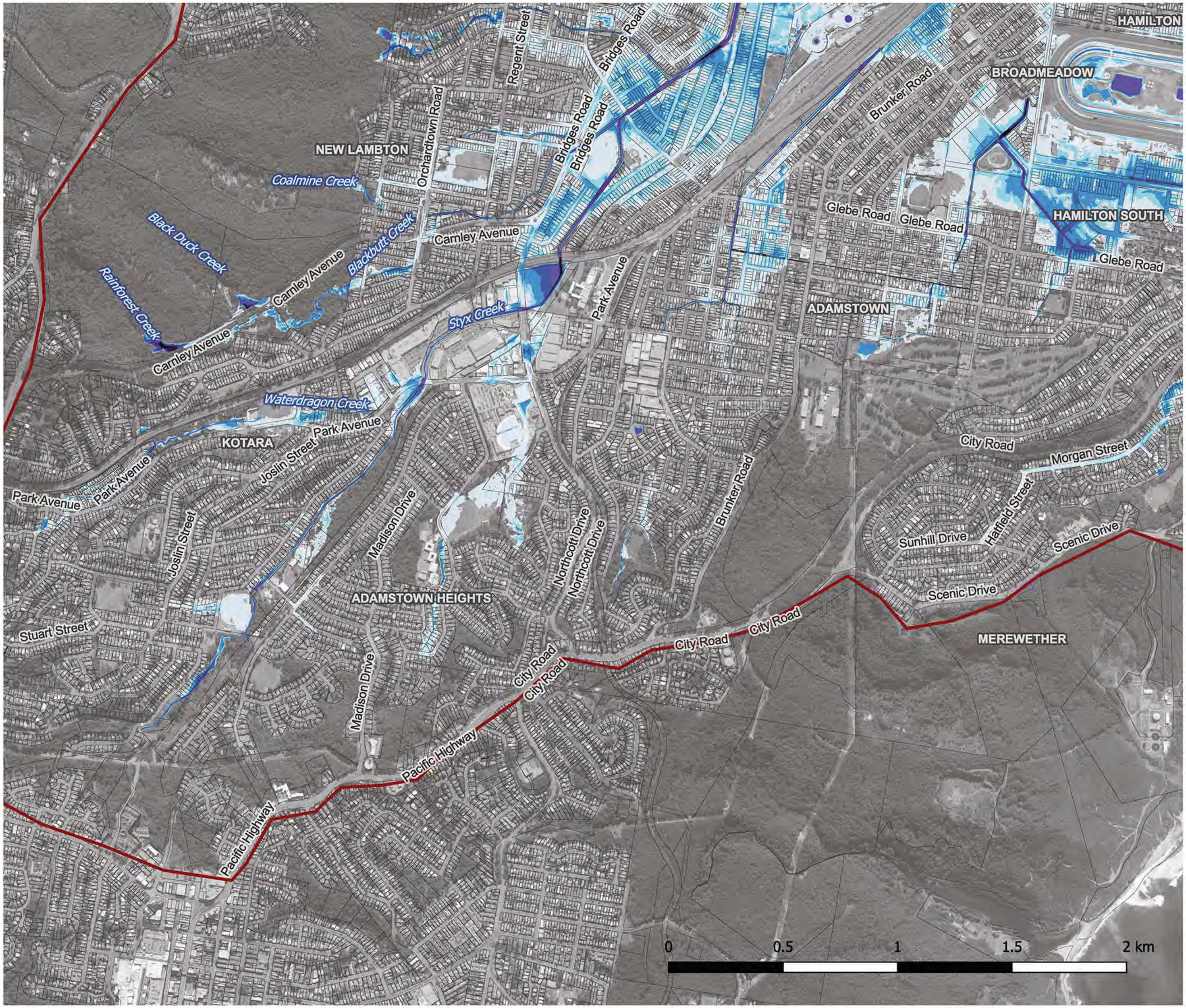
- Study Area
- Rainfall Gauges
- Isohyet Contours (10mm)

Isohyets (mm)

- <50
- 100
- 150
- 200
- 250
- 350
- 400
- 450
- 450
- >450

Scale : 1:55000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm



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Map G203a

Throsby, Styx and Cottage Creek Flood Study

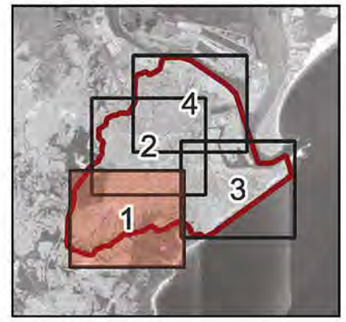
Modelled Flood Depth and Elevation
2007 Flood Event - Calibration
Map 1 of 4

Legend

- Study Area
- Cadastre

Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

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Map G203b

Throsby, Styx and Cottage Creek Flood Study

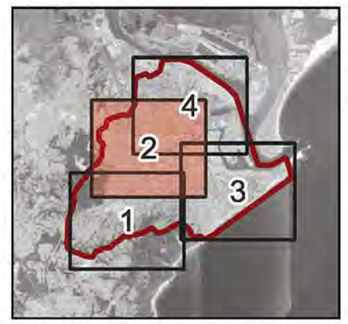
Modelled Flood Depth and Elevation
2007 Flood Event - Calibration
Map 2 of 4

Legend

- Study Area
- Cadastre

Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



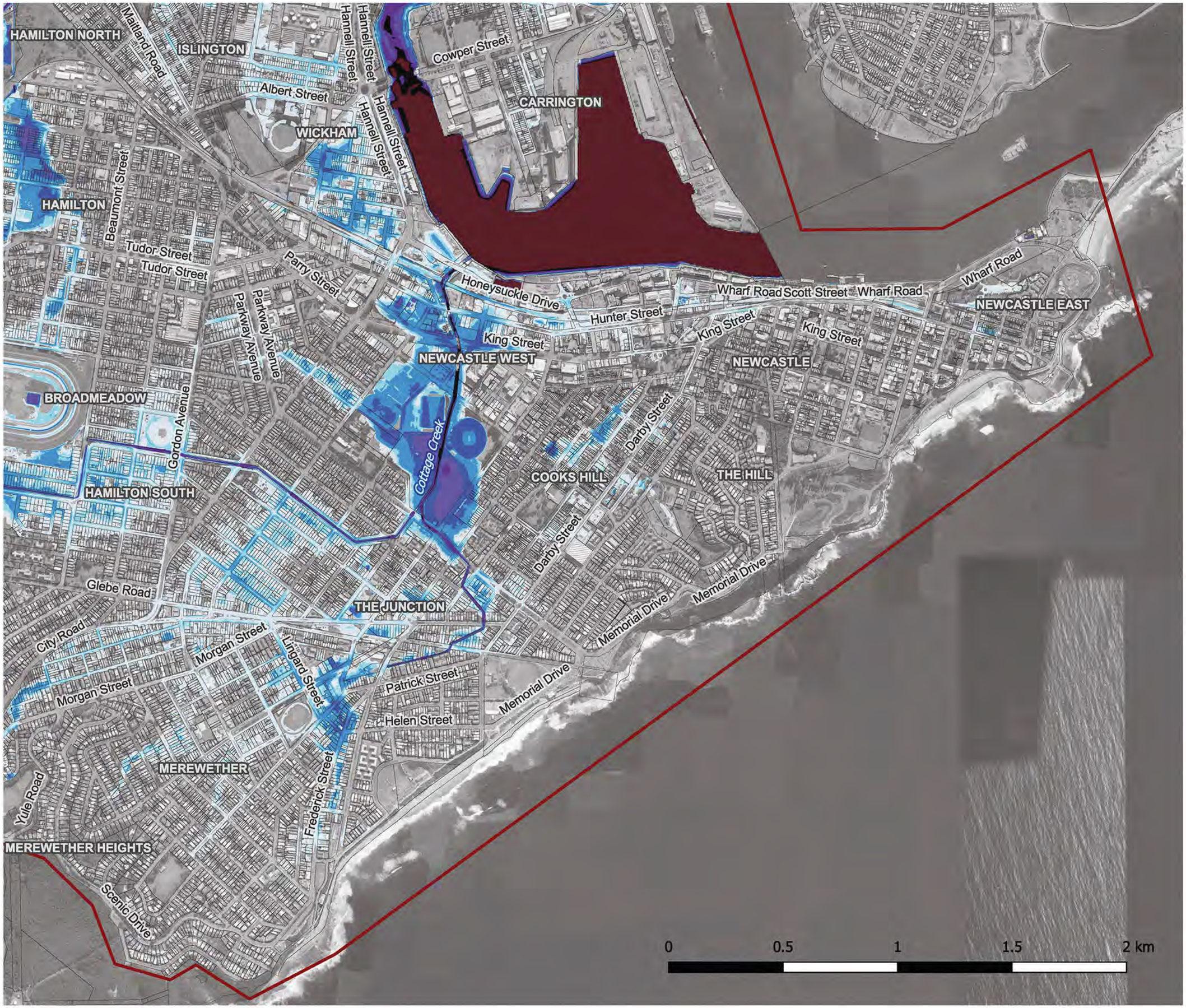
Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

0 0.5 1 1.5 2 km

MAYFIELD WEST
MAYFIELD NORTH
MAYFIELD
MAYFIELD EAST
WARATAH WEST
NORTH LAMBTON
WARATAH
GEORGETOWN
MARYVILLE
ISLINGTON
LAMBTON
HAMILTON NORTH
WICKHAM
HAMILTON
NEWCASTLE WEST
BROADMEADOW
NEW LAMBTON
HAMILTON EAST
ADAMSTOWN
HAMILTON SOUTH
KOTARA
HER

Hanbury Street
Ingall Street
Maitland Road
Throsby Creek
Elizabeth Street
Edith Street
Acacia Avenue
Turton Road
Young Road
Karoola Road
Newcastle Road
Griffiths Road
Clyde Street
Ker-rai Creek
Lambton Road
Styx Creek
Curley Road
Russell Road
Bridges Road
Belford Street
Tudor Street
Beaumont Street
Regent Street
Orchardtown Road
Brunker Road
Gordon Avenue
Coalmine Creek
Carnley Avenue
Glebe Road



N

W E

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Map G203c

Throsby, Styx and Cottage Creek Flood Study

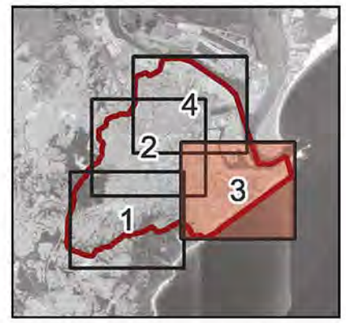
Modelled Flood Depth and Elevation
2007 Flood Event - Calibration
Map 3 of 4

Legend

- Study Area
- Cadastre

Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

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Map G203d

Throsby, Styx and Cottage Creek Flood Study

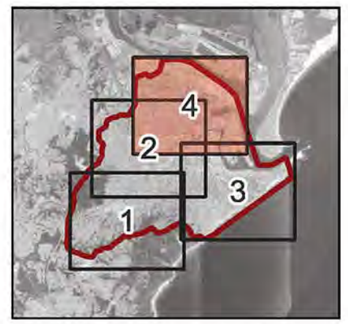
Modelled Flood Depth and Elevation
2007 Flood Event - Calibration
Map 4 of 4

Legend

- Study Area
- Cadastre

Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

0 0.5 1.5 2 km

MAYFIELD WEST
WARABROOK
MAYFIELD NORTH
MAYFIELD
MAYFIELD EAST
WARATAH WEST
WARATAH
TIGHES HILL
GEORGETOWN
MARYVILLE
CARRINGTON
ISLINGTON
HAMILTON NORTH
LAMBTON
NEW LAMBTON
HAMILTON
WICKHAM
Industrial Drive
Maud Street
Maitland Road
Vine Street
Hanbury Street
Ingall Street
Throsby Creek
Edith Street
Turton Road
Elizabeth Street
Hannell Street
Young Street
Cowper Street
Albert Street
Clyde Street
Newcastle Road
Griffiths Road
Young Road
Styx Creek

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Map G204a

Throsby, Styx and Cottage Creek Flood Study

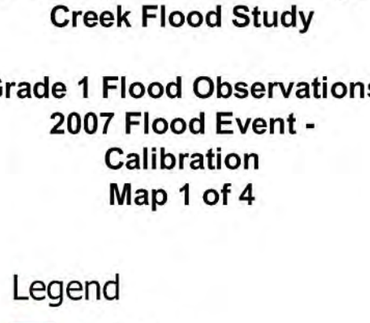
Grade 1 Flood Observations 2007 Flood Event - Calibration Map 1 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

Calibration Points (Modelled Levels Less Observed Levels)[m]

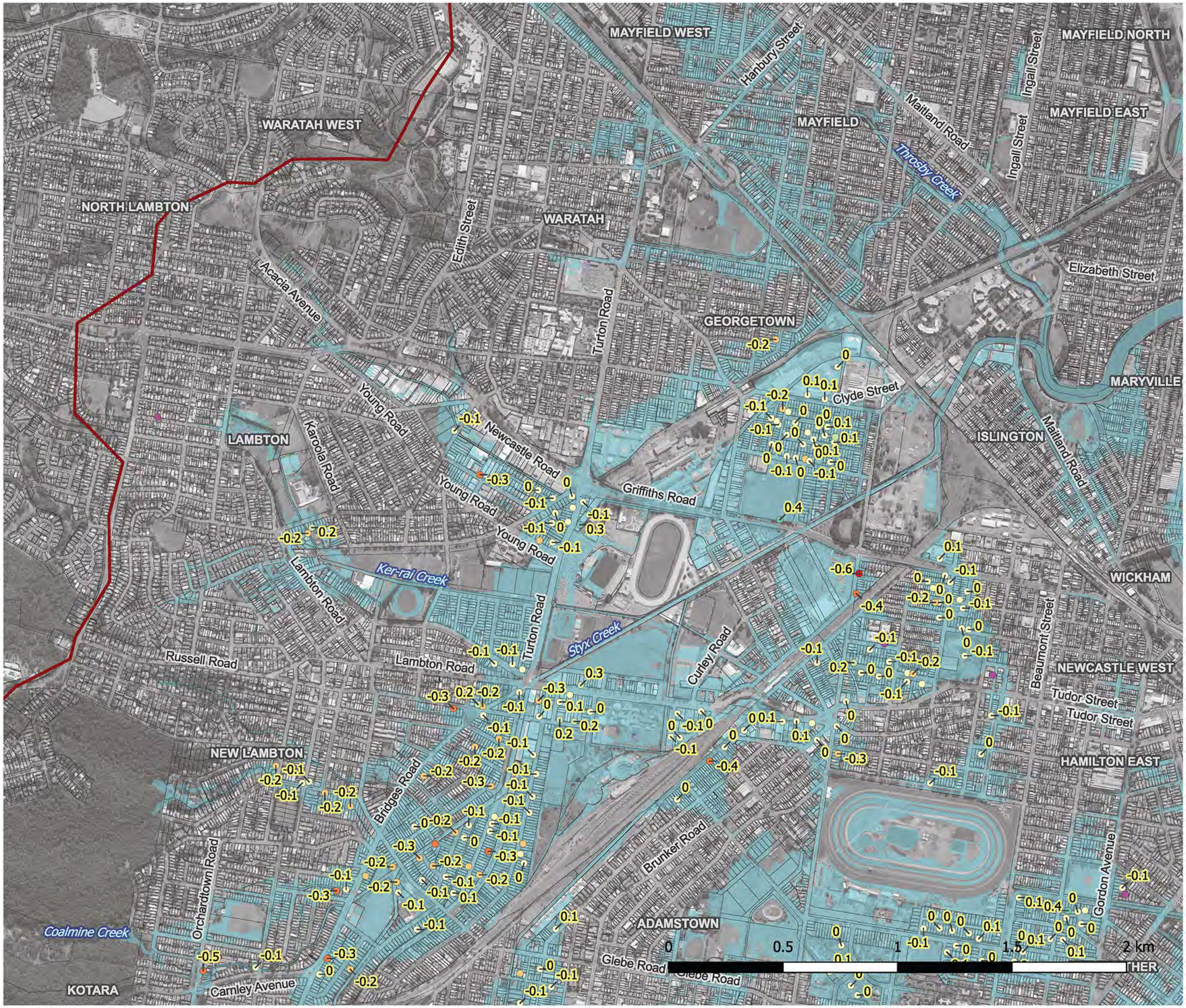
- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

0 0.5 1 1.5 2 km



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Map G204b

Throsby, Styx and Cottage Creek Flood Study

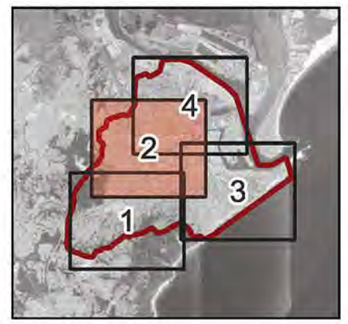
Grade 1 Flood Observations 2007 Flood Event - Calibration Map 2 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

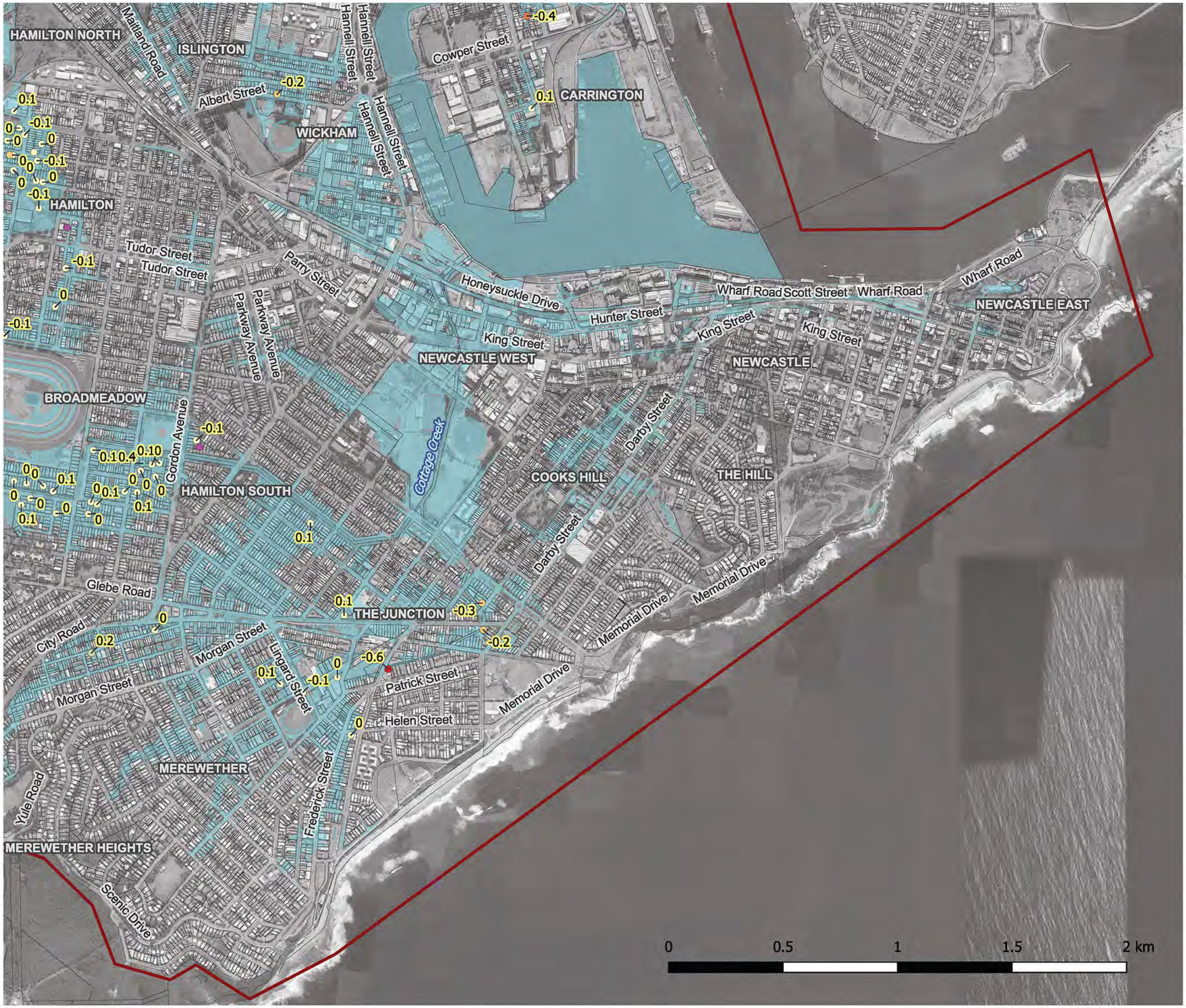
Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm



N

W E

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Map G204c

Throsby, Styx and Cottage Creek Flood Study

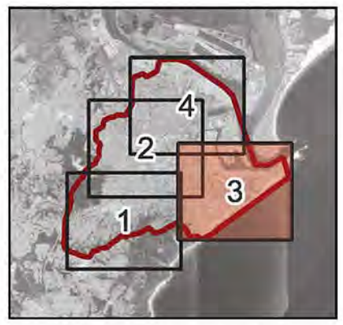
Grade 1 Flood Observations 2007 Flood Event - Calibration Map 3 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

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Map G204d

Throsby, Styx and Cottage Creek Flood Study

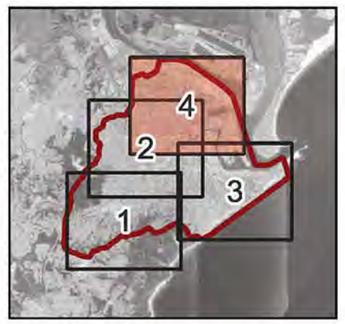
Grade 1 Flood Observations 2007 Flood Event - Calibration Map 4 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents

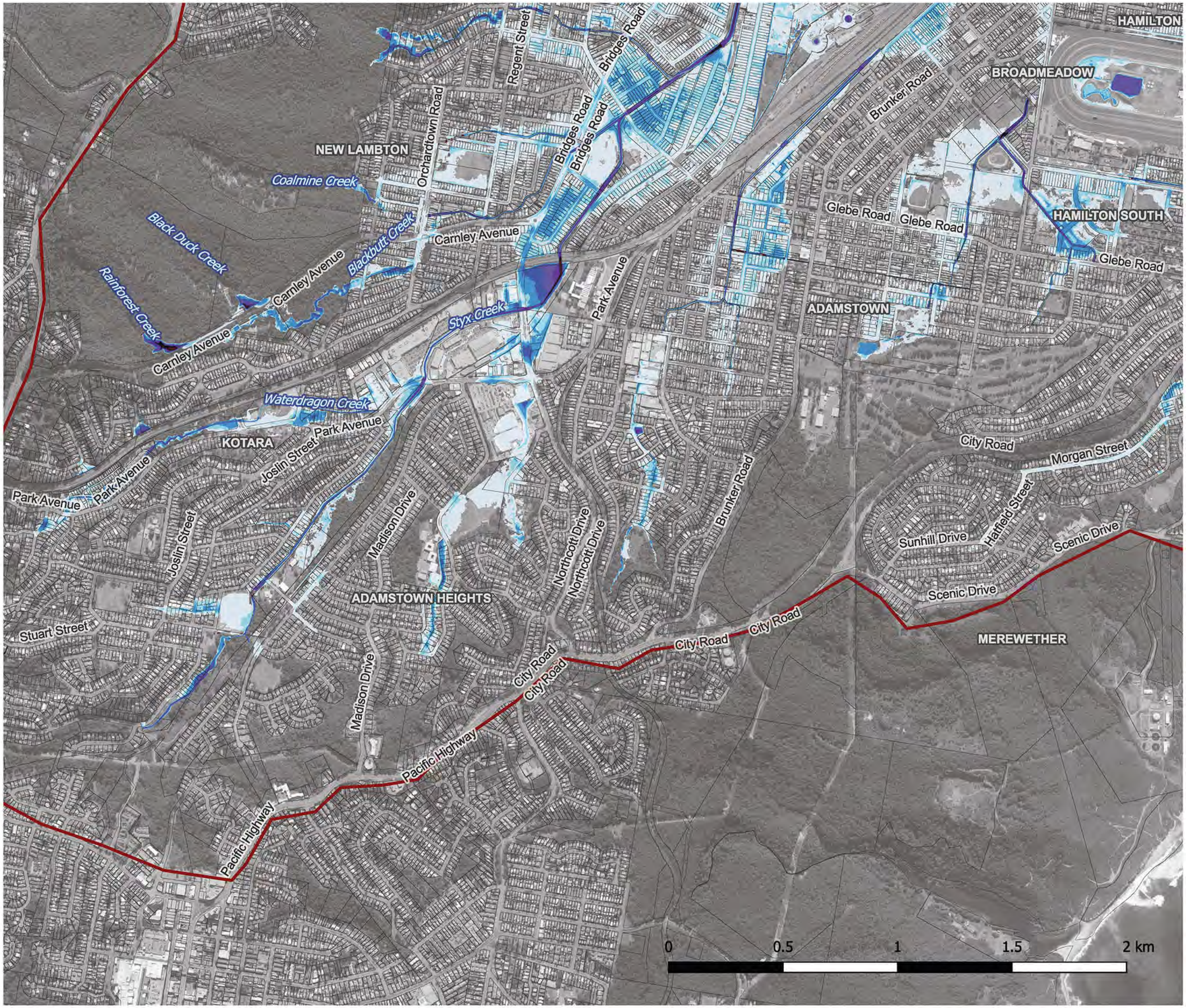


Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

0 0.5 1 1.5 2 km

MAYFIELD WEST
WARABROOK
MAYFIELD NORTH
MAYFIELD
MAYFIELD EAST
WARATAH WEST
WARATAH
TIGHES HILL
GEORGETOWN
ISLINGTON
MARYVILLE
CARRINGTON
WICKHAM
HAMILTON
Industrial Drive
Maud Street
Maitland Road
Vine Street
Hanbury Street
Ingall Street
Throsby Creek
Edith Street
Turton Road
Elizabeth Street
Hannell Street
Young Street
Cowper Street
Albert Street
Clyde Street
Newcastle Road
Young Road
Griffiths Road
Styx Creek



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Map G206a

Throsby, Styx and Cottage Creek Flood Study

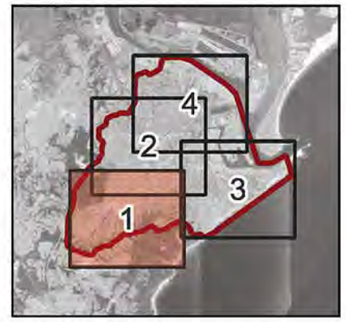
Modelled Flood Depth and Elevation 1990 Flood Event - Validation Map 1 of 4

Legend

- Study Area
- Cadastre

Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

N

W E

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Map G206b

Throsby, Styx and Cottage Creek Flood Study

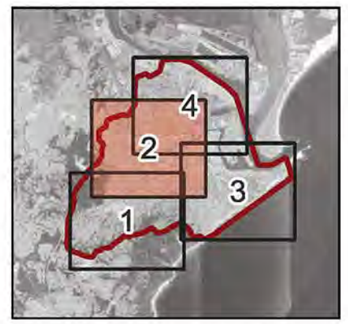
Modelled Flood Depth and Elevation
1990 Flood Event - Validation
Map 2 of 4

Legend

- Study Area
- Cadastre

Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4

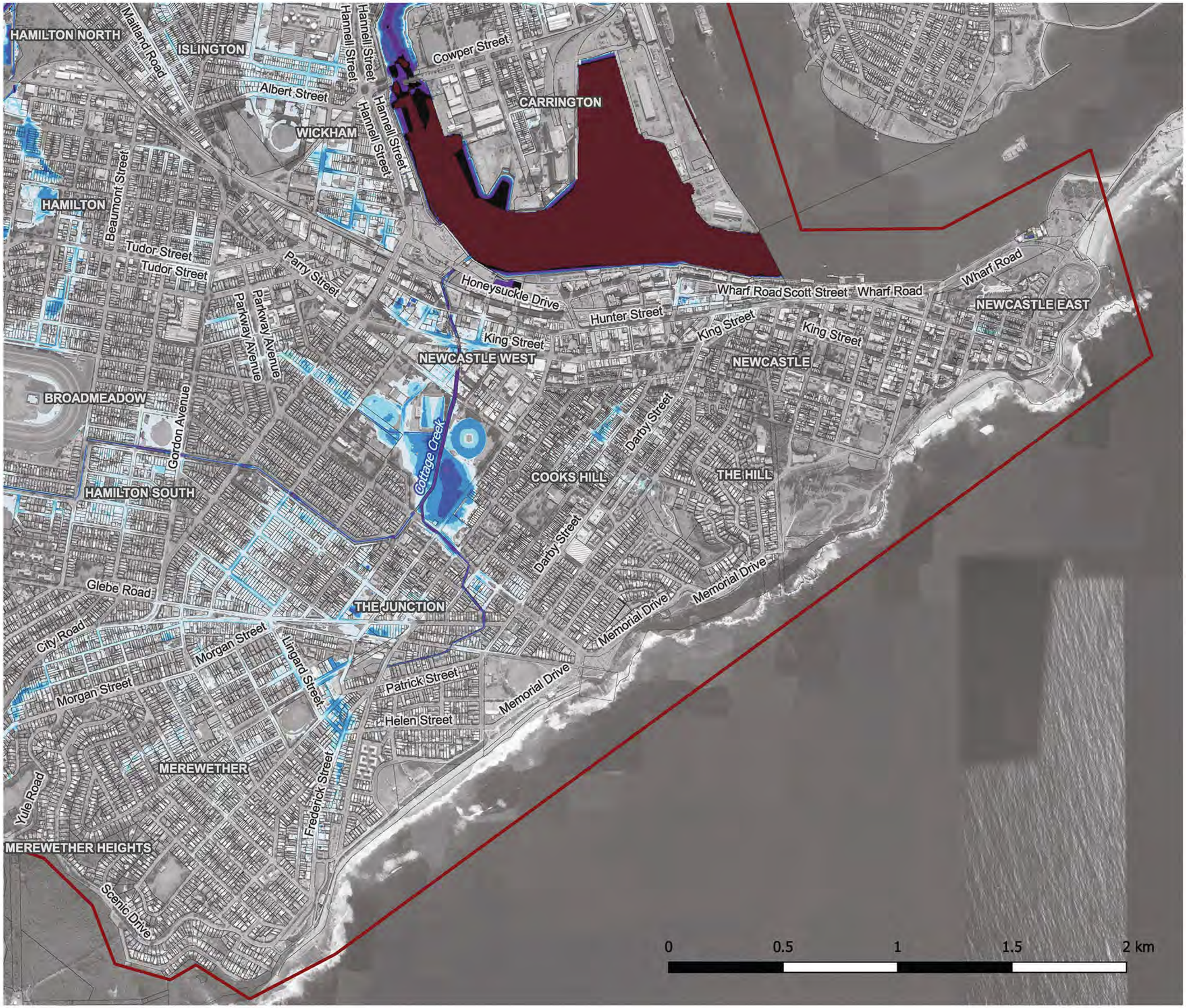


Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

0 0.5 1 1.5 2 km

MAYFIELD WEST
MAYFIELD NORTH
MAYFIELD EAST
MAYFIELD
WARATAH WEST
NORTH LAMBTON
WARATAH
GEORGETOWN
MARYVILLE
ISLINGTON
HAMILTON NORTH
LAMBTON
WICKHAM
HAMILTON
NEWCASTLE WEST
HAMILTON EAST
BROADMEADOW
NEW LAMBTON
ADAMSTOWN
HAMILTON SOUTH
KOTARA
Hanbury Street
Maitland Road
Ingall Street
Throsby Creek
Elizabeth Street
Edith Street
Acacia Avenue
Turton Road
Young Road
Karoola Road
Newcastle Road
Griffiths Road
Clyde Street
Ker-rai Creek
Lambton Road
Styx Creek
Curley Road
Russell Road
Bridges Road
Belford Street
Tudor Street
Beaumont Street
Regent Street
Orchardtown Road
Brunker Road
Gordon Avenue
Coalmine Creek
Carnley Avenue
Glebe Road



N

W E

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Map G206c

Throsby, Styx and Cottage Creek Flood Study

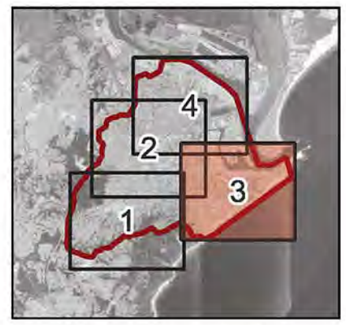
Modelled Flood Depth and Elevation 1990 Flood Event - Validation Map 3 of 4

Legend

- Study Area
- Cadastre

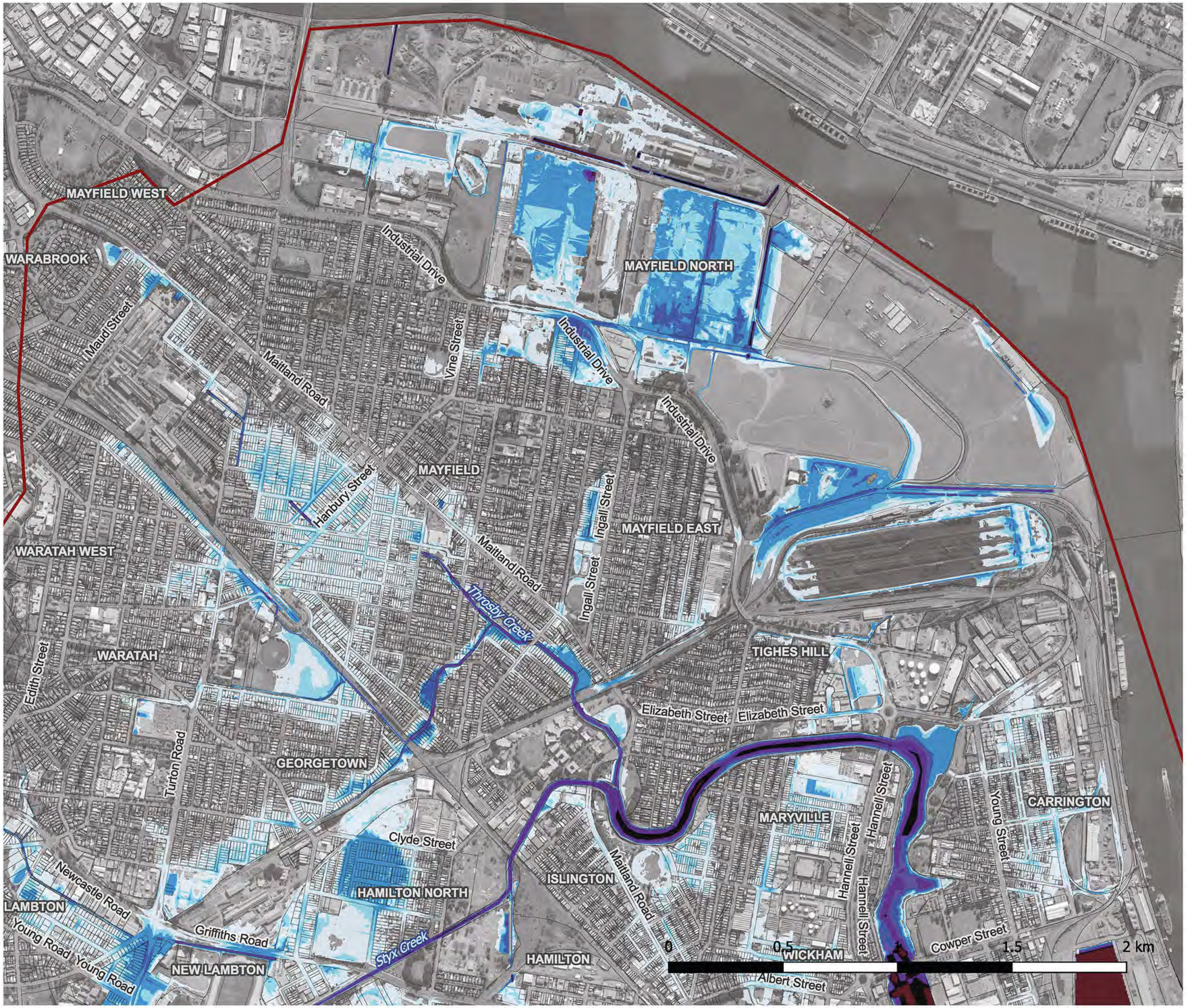
Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm



N

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Map G206d

Throsby, Styx and Cottage Creek Flood Study

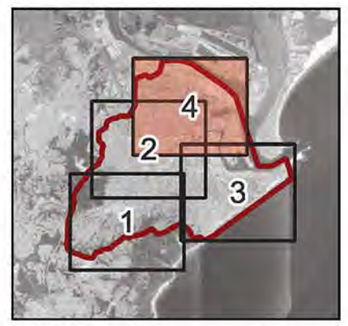
Modelled Flood Depth and Elevation
1990 Flood Event - Validation
Map 4 of 4

Legend

- Study Area
- Cadastre

Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

N

W E

S

Map G207a

Throsby, Styx and Cottage Creek Flood Study

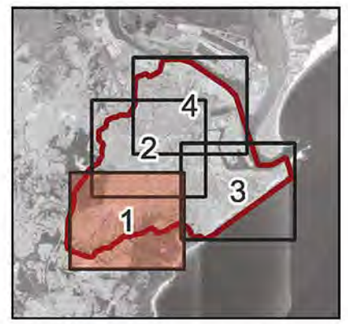
Flood Observations 1990 Flood Event - Validation Map 1 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

0 0.5 1 1.5 2 km

N

W E

S

Map G207b

Throsby, Styx and Cottage Creek Flood Study

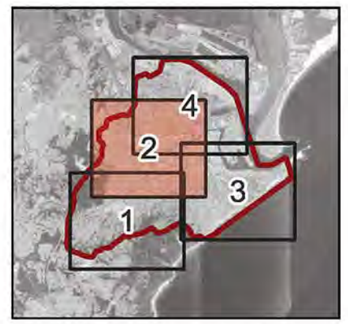
Flood Observations 1990 Flood Event - Validation Map 2 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents

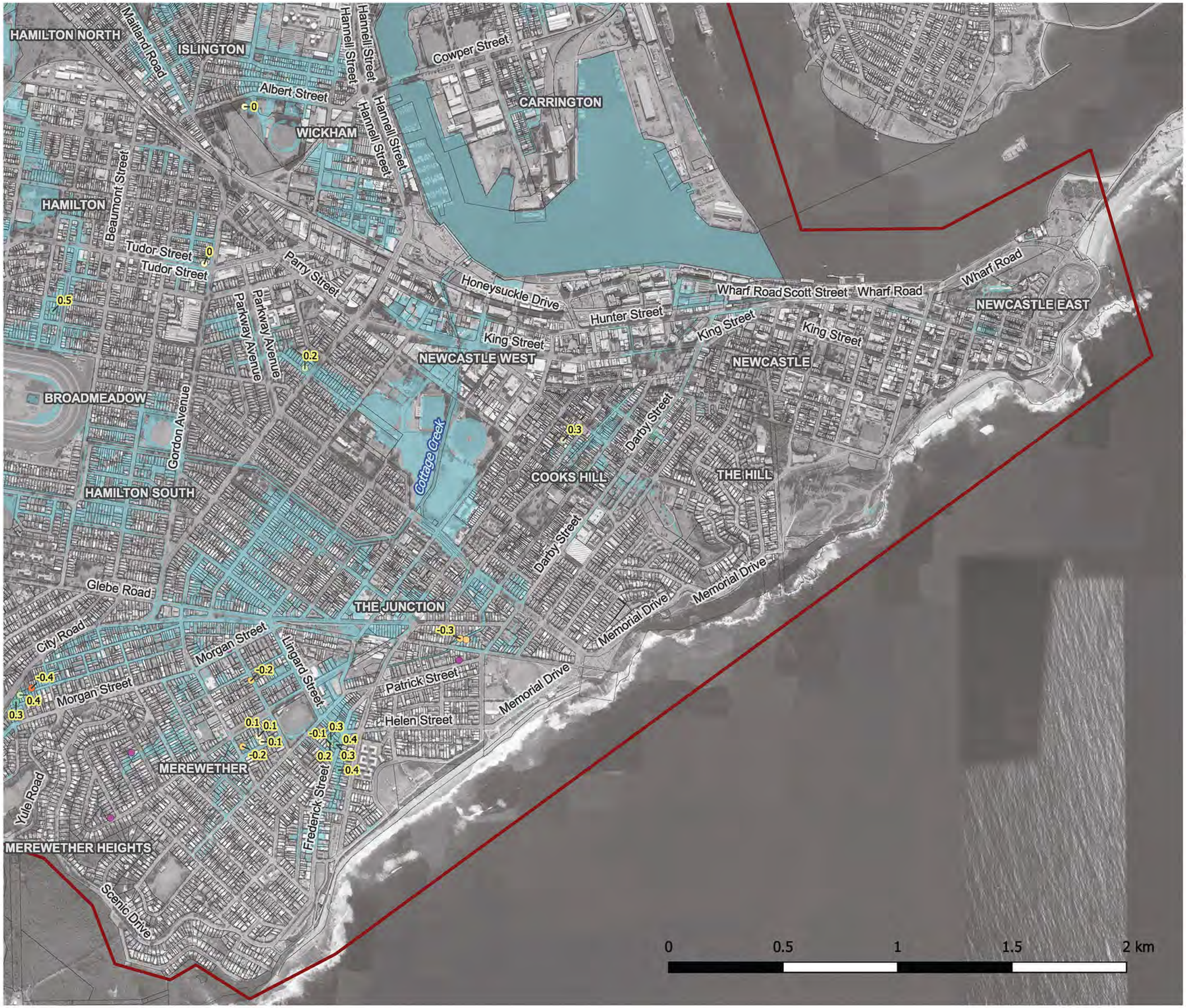


Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

0 0.5 1 1.5 2 km

MAYFIELD WEST
MAYFIELD NORTH
MAYFIELD
MAYFIELD EAST
WARATAH WEST
NORTH LAMBTON
WARATAH
GEORGETOWN
MARYVILLE
ISLINGTON
HAMILTON NORTH
LAMBTON
WICKHAM
HAMILTON
NEWCASTLE WEST
BROADMEADOW
NEW LAMBTON
HAMILTON EAST
ADAMSTOWN
HAMILTON SOUTH
KOTARA
ETHER
Hanbury Street
Maitland Road
Ingall Street
Throsby Creek
Elizabeth Street
Edith Street
Acacia Avenue
Turton Road
Young Road
Newcastle Road
Karoola Road
Griffiths Road
Ker-rai Creek
Lambton Road
Styx Creek
Curley Road
Russell Road
Bridges Road
Regent Street
Orchardtown Road
Coalmine Creek
Carnley Avenue
Clyde Street
Brunker Road
Belford Street
Tudor Street
Beaumont Street
Gordon Avenue
Glebe Road



N

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Map G207c

Throsby, Styx and Cottage Creek Flood Study

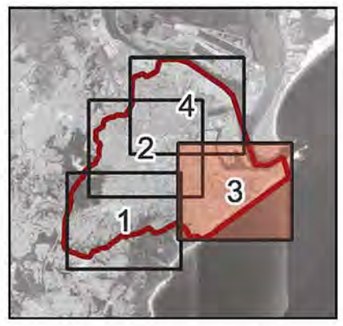
Flood Observations 1990 Flood Event - Validation Map 3 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

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Map G207d

Throsby, Styx and Cottage Creek Flood Study

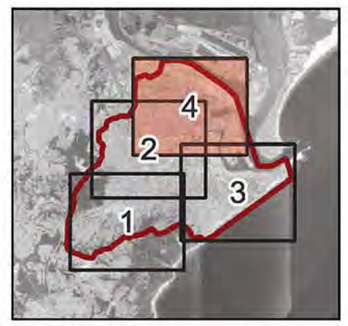
Flood Observations 1990 Flood Event - Validation Map 4 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

0 0.5 1 1.5 2 km

MAYFIELD WEST
WARABROOK
MAYFIELD NORTH
MAYFIELD
MAYFIELD EAST
WARATAH WEST
WARATAH
GEORGETOWN
TIGHES HILL
CARRINGTON
MARYVILLE
ISLINGTON
HAMILTON NORTH
HAMILTON
WICKHAM
LAMBTON
NEW LAMBTON
Industrial Drive
Maud Street
Maitland Road
Vine Street
Hanbury Street
Ingall Street
Throsby Creek
Edith Street
Turton Road
Elizabeth Street
Hannell Street
Young Street
Clyde Street
Newcastle Road
Griffiths Road
Young Road
Styx Creek
Albert Street
Cowper Street
0.2 0.1 0.1
0.2 -0.2
0.9
0
0.4
0.3
-0.1
0.6 0.4
0.1
-0.4
0

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Map G208a

Throsby, Styx and Cottage Creek Flood Study

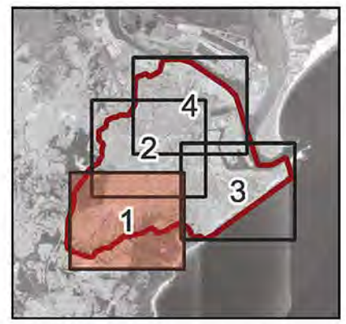
Modelled Flood Depth and Elevation
1988 Flood Event - Validation
Map 1 of 4

Legend

- Study Area
- Cadastre

Peak Flood Depth (m)

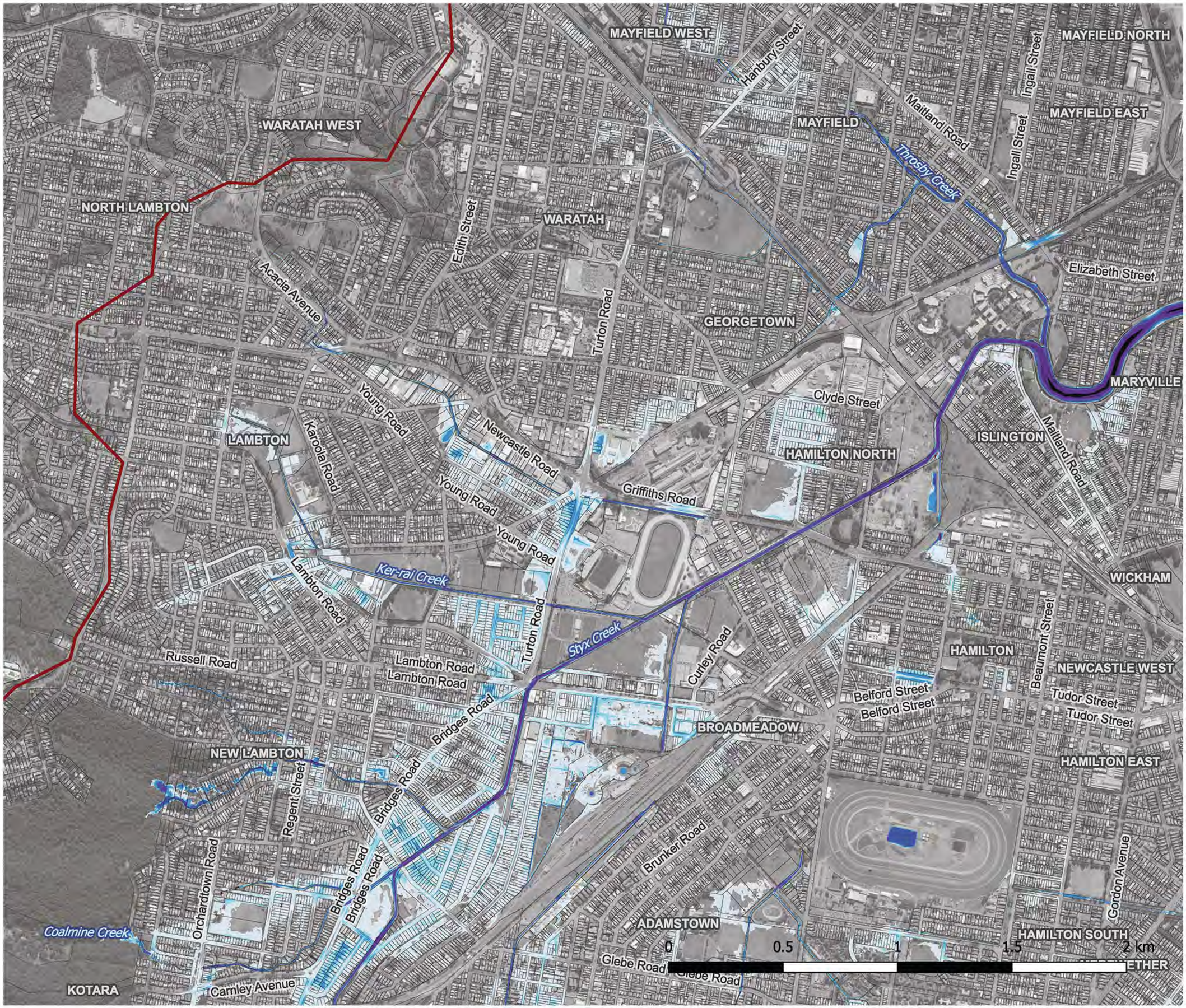
- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

0 0.5 1 1.5 2 km



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Map G208b

Throsby, Styx and Cottage Creek Flood Study

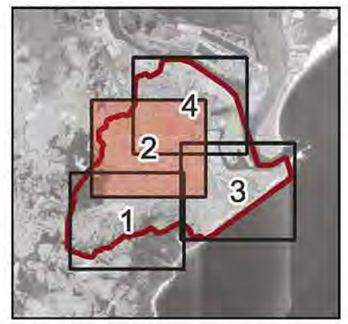
Modelled Flood Depth and Elevation
1988 Flood Event - Validation
Map 2 of 4

Legend

- Study Area
- Cadastre

Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

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Map G208c

Throsby, Styx and Cottage Creek Flood Study

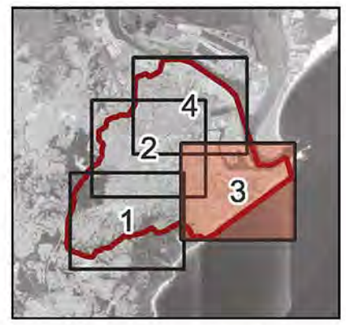
Modelled Flood Depth and Elevation 1988 Flood Event - Validation Map 3 of 4

Legend

- Study Area
- Cadastre

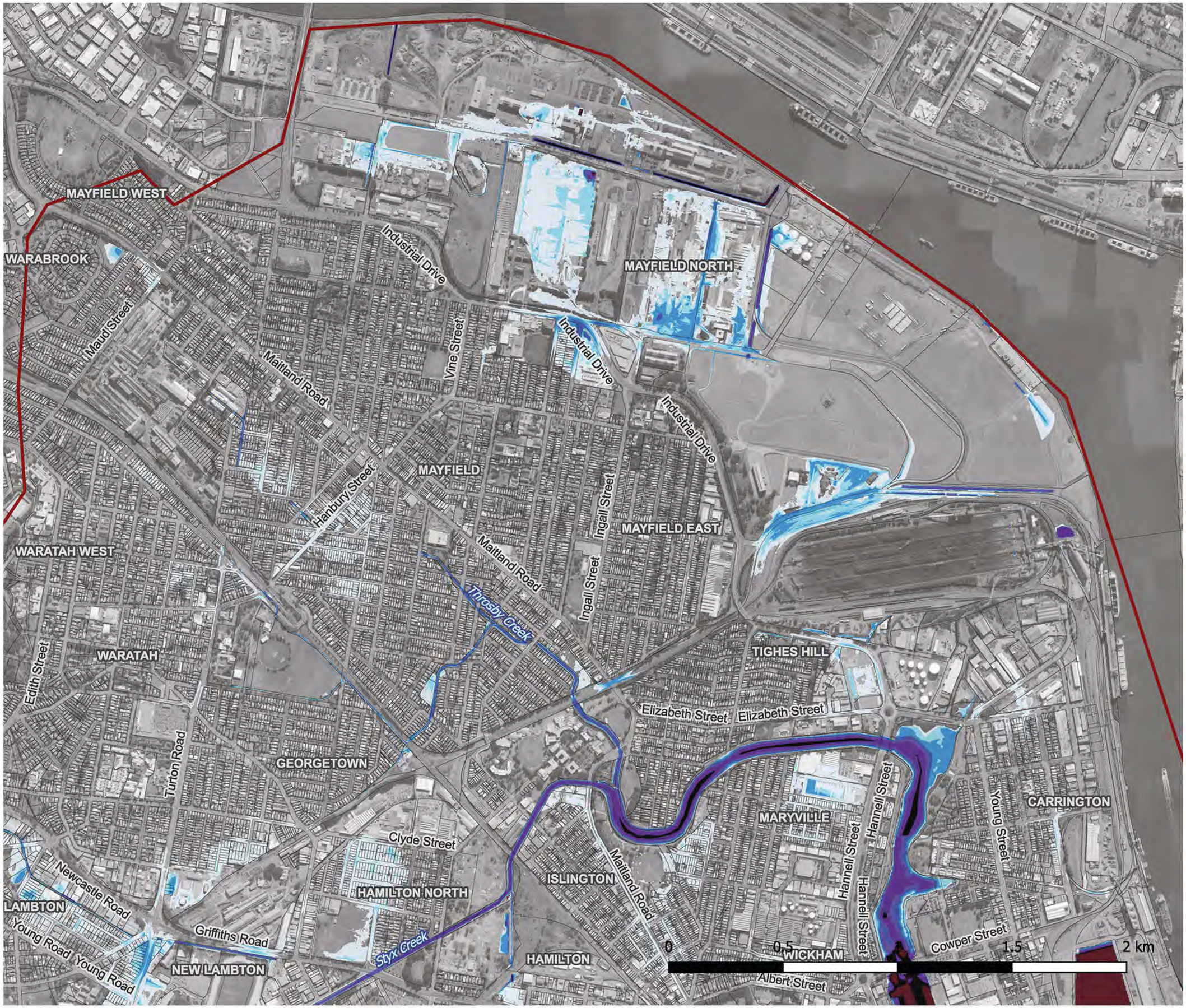
Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm



N

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Map G208d

Throsby, Styx and Cottage Creek Flood Study

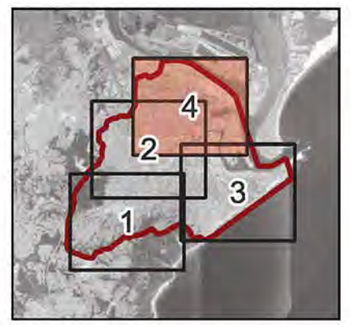
Modelled Flood Depth and Elevation
1988 Flood Event - Validation
Map 4 of 4

Legend

- Study Area
- Cadastre

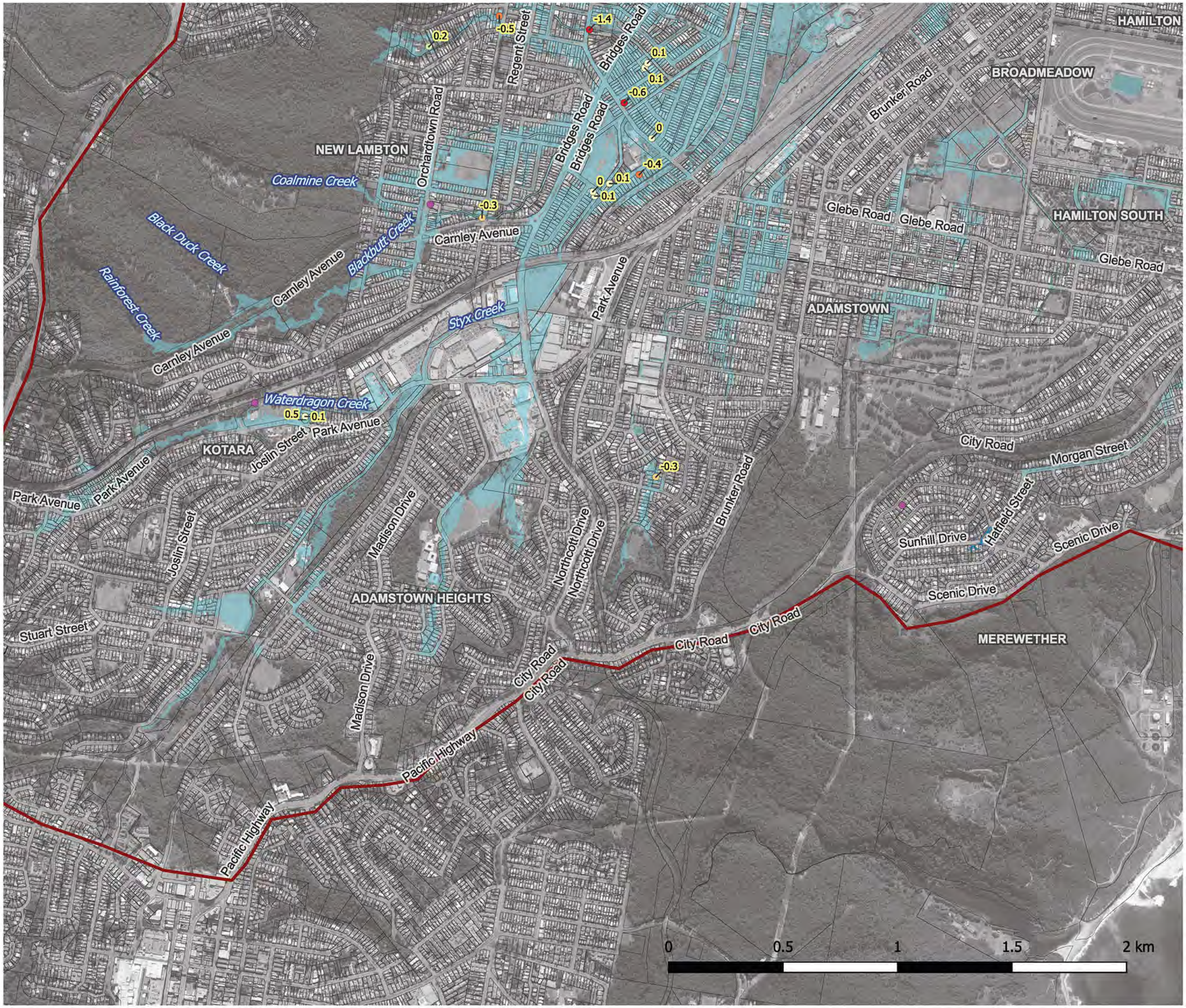
Peak Flood Depth (m)

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm



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Map G209a

Throsby, Styx and Cottage Creek Flood Study

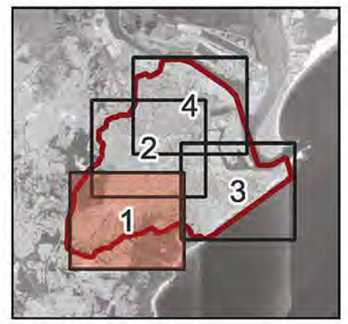
Flood Observations 1988 Flood Event - Validation Map 1 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

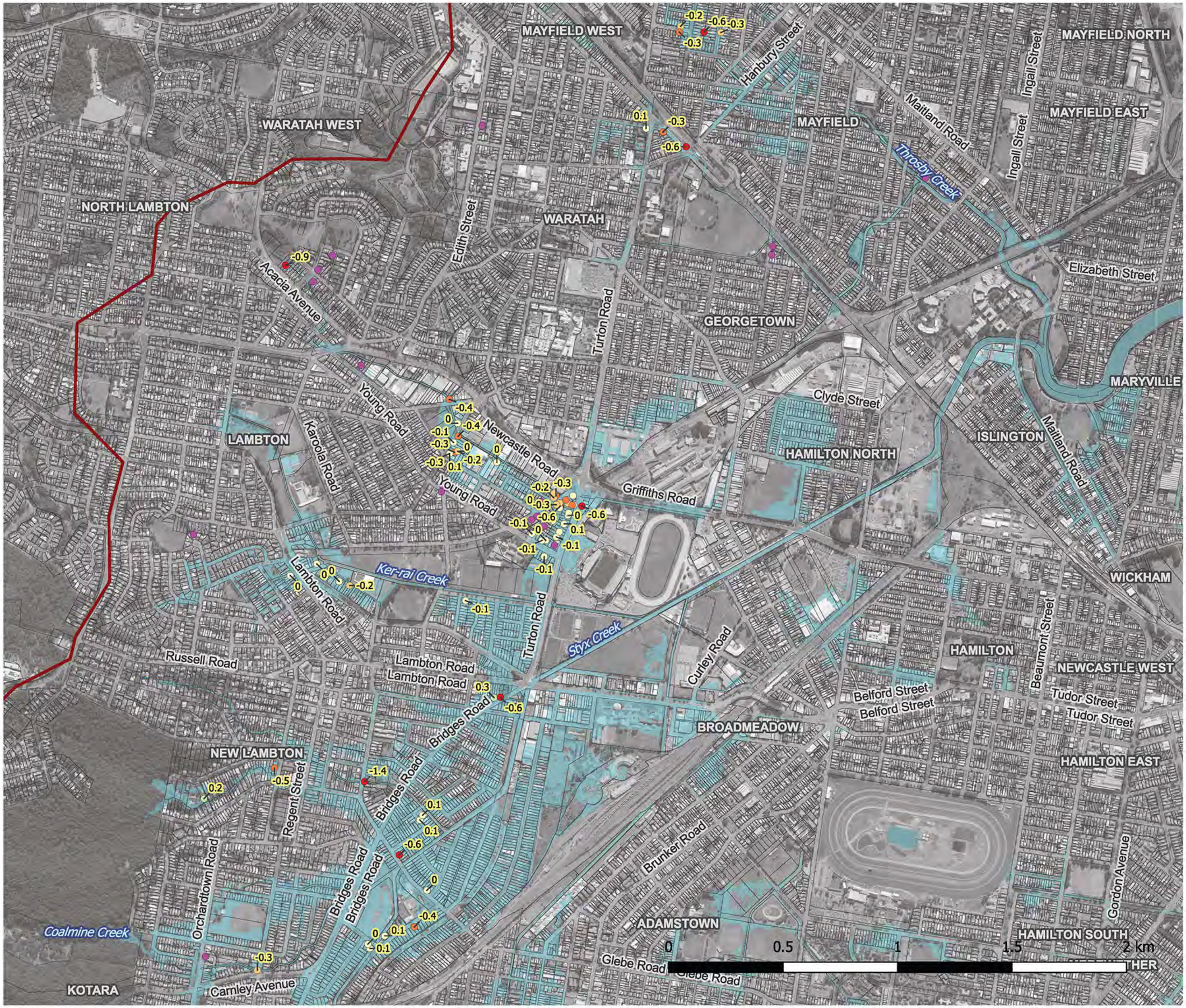
Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm



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Map G209b

Throsby, Styx and Cottage Creek Flood Study

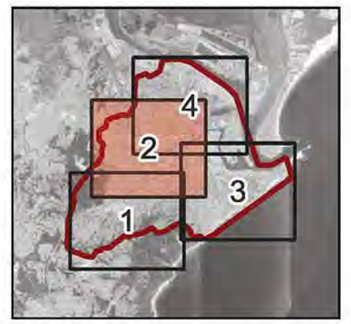
Flood Observations 1988 Flood Event - Validation Map 2 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

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Map G209c

Throsby, Styx and Cottage Creek Flood Study

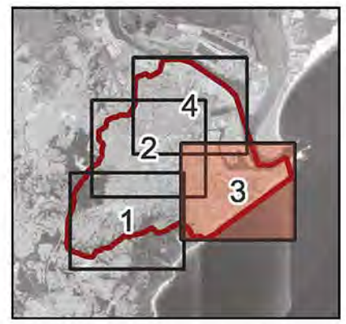
Flood Observations 1988 Flood Event - Validation Map 3 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents



Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

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W E

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Map G209d

Throsby, Styx and Cottage Creek Flood Study

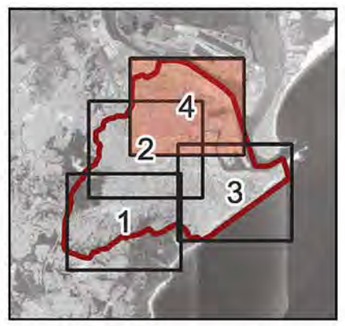
Flood Observations 1988 Flood Event - Validation Map 4 of 4

Legend

- Study Area
- Cadastre
- Flood Extents

Calibration Points (Modelled Levels Less Observed Levels)[m]

- < -0.5
- -0.5 - -0.3
- -0.3 - -0.15
- -0.15 - 0.15
- 0.15 - 0.3
- 0.3 - 0.5
- > 0.5
- Out of Extents

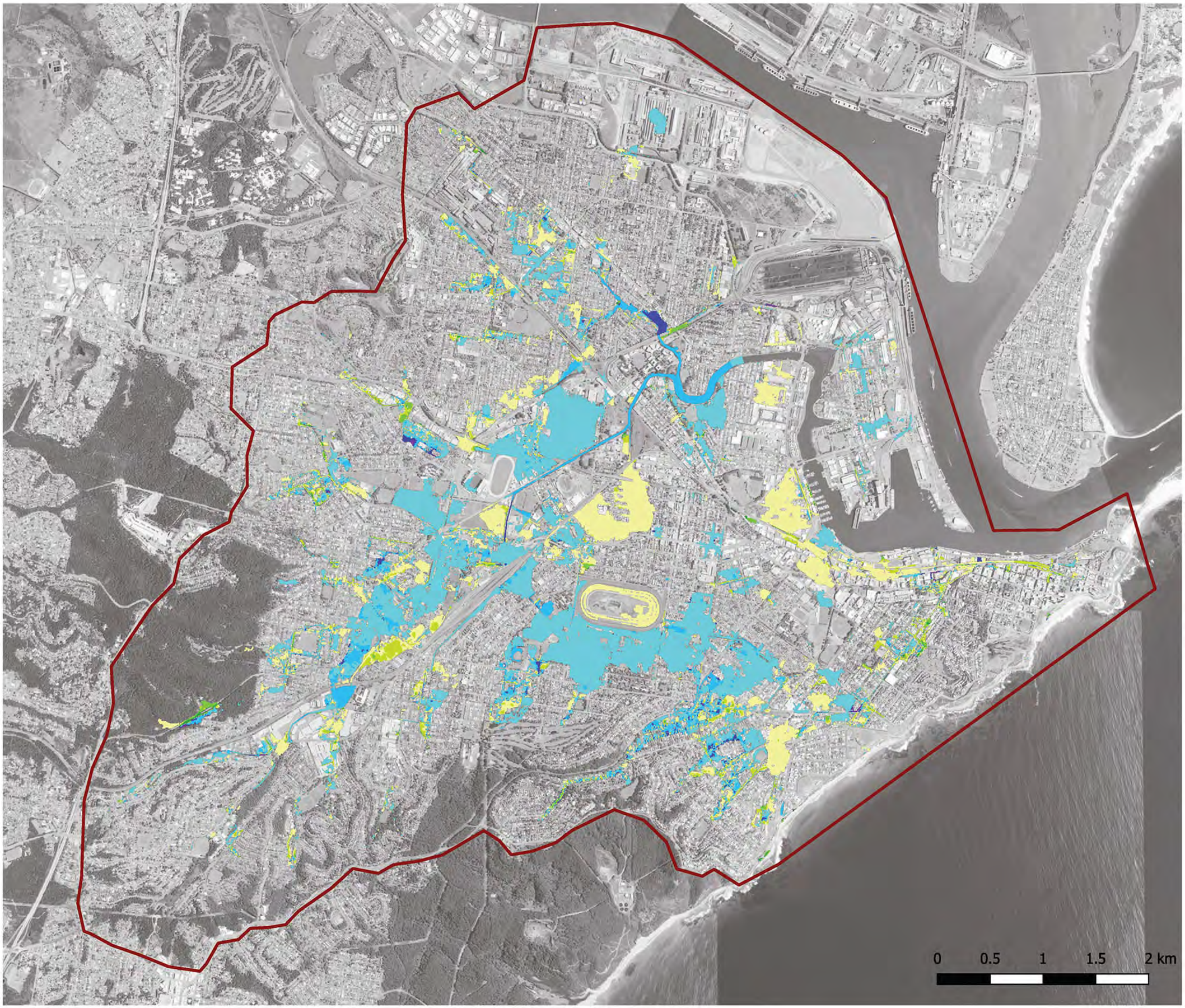


Scale : 1:15000@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

0 0.5 1 1.5 2 km

MAYFIELD WEST
WARABROOK
MAYFIELD NORTH
MAYFIELD
MAYFIELD EAST
WARATAH WEST
WARATAH
TIGHES HILL
GEORGETOWN
MARYVILLE
CARRINGTON
ISLINGTON
HAMILTON NORTH
HAMILTON
NEW LAMBTON
WICKHAM
Industrial Drive
Maud Street
Maitland Road
Vine Street
Hanbury Street
Ingall Street
Throsby Creek
Edith Street
Turton Road
Elizabeth Street
Hannell Street
Young Street
Clyde Street
Newcastle Road
Griffiths Road
Young Road
Styx Creek
Cowper Street
Albert Street
-0.6
-0.2
-0.6
-0.3
-0.3
0.1
-0.3
-0.6
-0.4
0
-0.4
-0.1
-0.3
0
-0.2
0.1
-0.2
0
0
-0.3
-0.6
0
-0.6
-0.1
0
0.1
-0.1
-0.1



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Map G230

Throsby, Styx and Cottage Creek Flood Study

2007 Modelled Flood Depth - Minimum Grid Size - 4m vs 8m

Legend

- Study Area

Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

N

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Map G250

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Increase in Catchment Lag, C=1.8

Legend

- Study Area

Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

0 0.5 1 1.5 2 km

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

N

W E

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Map G250

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Increase in Catchment Lag, C=1.8

Legend

- Study Area

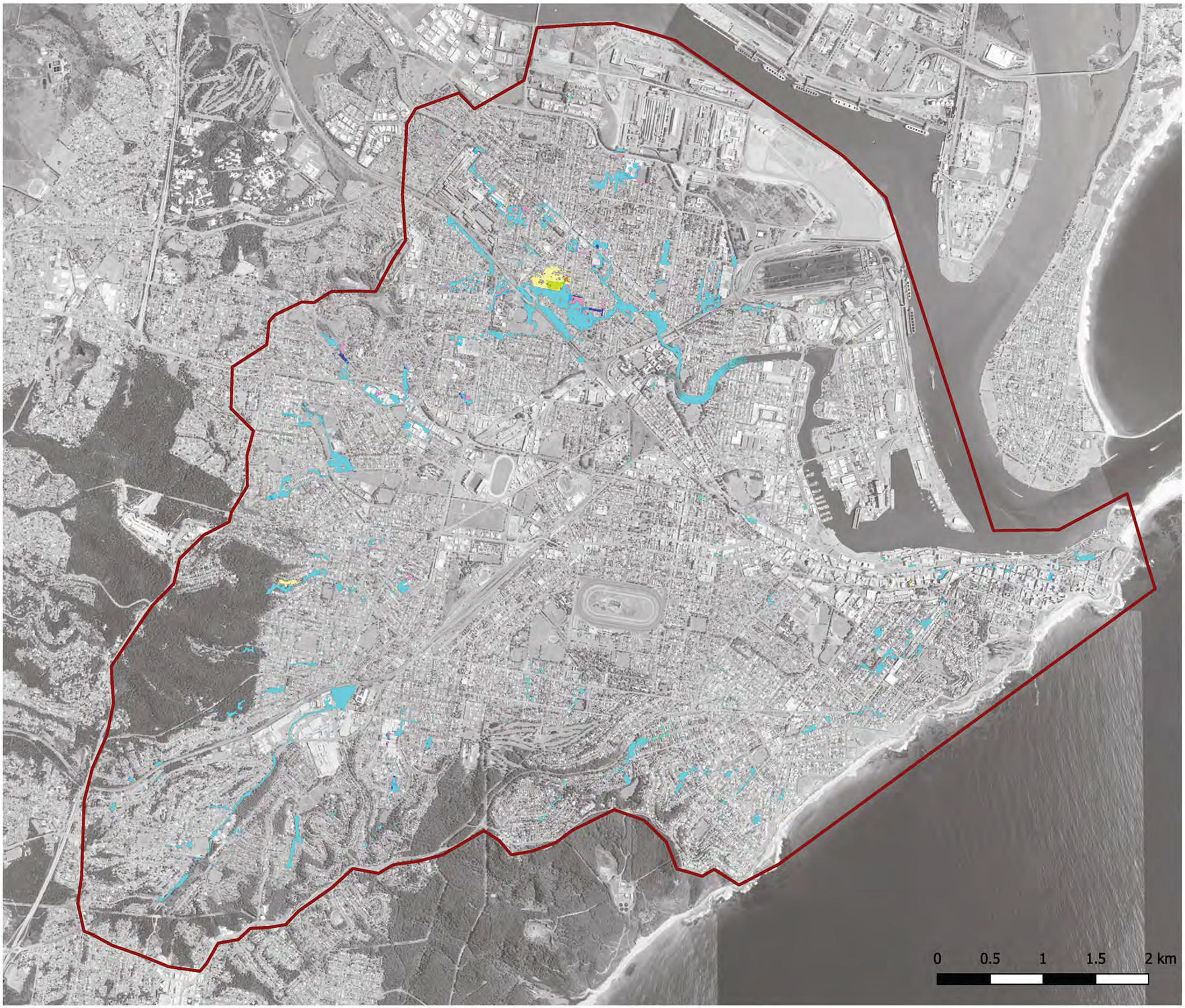
Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

0 0.5 1 1.5 2 km

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm



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Map G251

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Decrease in Catchment Lag, C=1.4

Legend

- Study Area

Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

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Map G252

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Increase in Initial and Continuing Losses +20%

Legend

- Study Area

Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

0 0.5 1 1.5 2 km

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

N
W
E
S

Map G253

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Decrease in Initial and Continuing Losses -20%

Legend

- Study Area

Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

N

W E

S

Map G254

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Blockage 90%

Legend

- Study Area

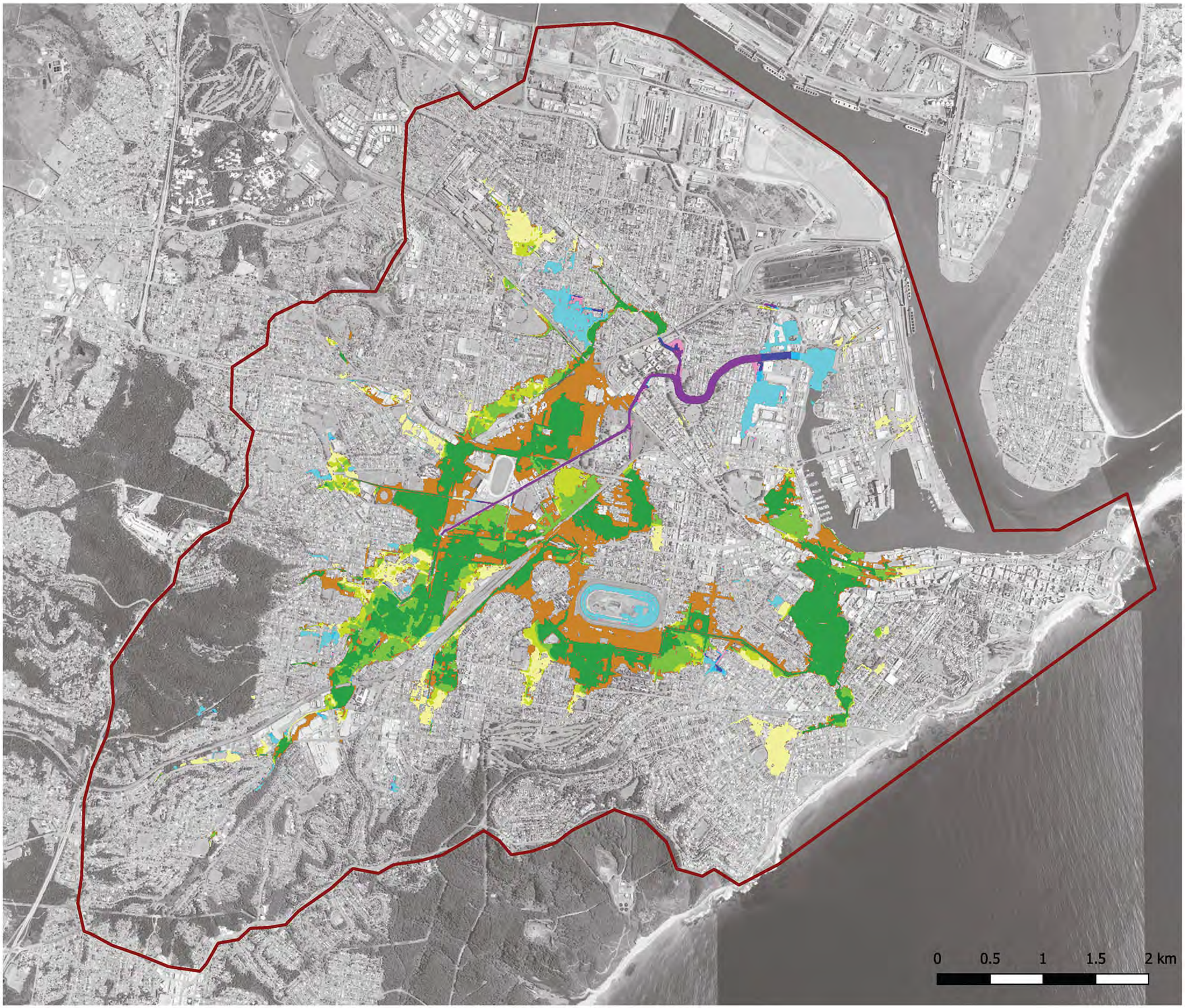
Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

0 0.5 1 1.5 2 km

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm



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Map G255

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Blockage 0%

Legend

- Study Area

Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

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W E

S

Map G256

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Increase in Bridge and Culvert Losses +20%

Legend

- Study Area

Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

0 0.5 1 1.5 2 km

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

N

W E

S

Map G257

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Decrease in Bridge and Culvert Losses -20%

Legend

- Study Area

Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

0 0.5 1 1.5 2 km

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

N

W E

S

Map G258

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Increase in Surface Roughness +20%

Legend

- Study Area

Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

0 0.5 1 1.5 2 km

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm

N

W E

S

Map G259

Throsby, Styx and Cottage Creek Flood Study

Sensitivity Analysis Decrease in Surface Roughness +20%

Legend

- Study Area

Level Difference (Sensitivity Scenario Less Base Case)[m]

- <= -0.2
- -0.2 - -0.1
- -0.1 - -0.05
- -0.05 - -0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2
- Was wet, now dry
- Was dry now wet

0 0.5 1 1.5 2 km

Scale : 1:32500@A3
Date : 01 Aug 2022
Revision : A
Created by : JMS
Coordinate System : GDA2020/ MGA56

Rhelm