HEWITTS CREEK FLOOD STUDY, FLOODPLAIN RISK MANAGEMENT STUDY AND PLAN

JUNE 2025

VOLUME 2
PUBLIC EXHIBITION DRAFT

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FIGURE 1

HEWITTS CREEK CATCHMENT STUDY AREA

FREEWAY F6
PRINCES HIGHWAY
MOUNT OUSLEY ROAD
FORDS ROAD
TREETOP GLEN
PHILLIP STREET
SEA FOAM AVENUE
LANE 50
KENNEDY ROAD
HILLCREST ROAD
MOUNTAIN ROAD
JONES LANE
HENLEY ROAD
REDMAN AVENUE
PALM GROVE
MOUNT GILEAD ROAD
THE WAVES
RAILWAY LANE
Flanagan's Creek
KANANGRA DRIVE
DEBORAH AVENUE
THIRROUL
VIRGINIA TERRACE
BATH STREET
CLIFF PARADE
GEORGE STREET
HEWITTS CREEK
STATION STREET
HARBORD STREET
THOMAS GIBSON CREEK
LANE 52
CRAIG STREET
HAMILTON ROAD
WOODLANDS CREEK
PANMILLS DRIVE
STURDEE AVENUE
GEORGE AVENUE
LANE 55
WILLIAM STREET
HOBART STREET
SANDON POINT
POINT STREET
HILL STREET
BLACKALL STREET
COPE PLACE
STURT PLACE
BULLI
SLACKY CREEK
BEACON AVENUE
BANK STREET
HUTTON AVENUE
STOKES LANE
PARK ROAD
ALANSON AVENUE
ORGANS ROAD
STEPHEN DRIVE
HOSPITAL ROAD
FRANKLIN AVENUE
URSULA R
100
200
300
400
0

N

Cadastre
Study Area Catchment
Surrounding Catchment
Creek
DEM Contours (100m Intervals)
DEM Contours (20m Intervals)

0 0.125 0.25 0.5 0.75 1 Kilometers

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FIGURE 2

HEWITTS CREEK CATCHMENT
LAND USE ZONING

FORDS ROAD
TREETOP GLEN
PHILLIP STREET
SEA FOAM AVENUE
LANE 50
KIRTON ROAD
MOUNT GILEAD ROAD
THE WAVES
PALM GROVE
KANANGRA DRIVE
DEBORAH AVENUE
THIRROUL
REDMAN AVENUE
VIRGINIA TERRACE
BATH STREET
CLIFF PARADE
GEORGE STREET
HEWITTS CREEK
STATION STREET
HARBORD STREET
THOMAS GIBSON CREEK
LANE 52
WOODLANDS CREEK
PANMILLS DRIVE
STURDEE AVENUE
GEORGE AVENUE
LANE 55
WILLIAM STREET
HOBART STREET
POINT STREET
SLACKY CREEK
COPE PLACE
STURT PLACE
BULLI
BEACON AVENUE
BEACH STREET
HUTTON AVENUE
PRINCES HIGHWAY
RAILWAY STREET
PARK ROAD
ALANSON AVENUE
ORGANS ROAD
FRANKLIN AVENUE
URSULA ROAD
STEPHEN DRIVE
HOSPITAL ROAD

N

Study Area
Cadastre

Zoning

- E1 Local Centre
- MU1 Mixed Use
- C1 National Parks and Nature Reserves
- C2 Environmental Conservation
- C3 Environmental Management
- C4 Environmental Living
- E4 General Industrial
- R2 Low Density Residential
- R3 Medium Density Residential
- RE1 Public Recreation
- RE2 Private Recreation
- RU1 Primary Production
- SP2 Infrastructure
- SP3 Tourist
- W1 Natural Waterways

0 0.125 0.25 0.5 0.75 1 Kilometers

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FIGURE 3

HEWITTS CREEK CATCHMENT
CENSUS DATA SUBURBS

THIRROUL
BULLI
SANDON POINT

FREEWAY F6
PRINCES HIGHWAY
MOUNT OUSLEY ROAD
FORDS ROAD
TREETOP GLEN
PHILLIP STREET
SEA FOAM AVENUE
MOUNT GILEAD ROAD
PALM GROVE
THE WAVES
RAILWAY LANE
LANE 50
KENNEDY ROAD
HILLCREST ROAD
MOUNTAIN ROAD
REDMAN AVENUE
HENLEY ROAD
JONES LANE
Flanagan's Creek
GEORGE STREET
MASON STREET
HEWITTS CREEK
BATH STREET
CLIFF PARADE
STATION STREET
HARBORD STREET
THOMAS GIBSON CREEK
LANE 52
CRAIG STREET
HAMILTON ROAD
WOODLANDS CREEK
PANMILLS DRIVE
STURDEE AVENUE
GEORGE AVENUE
LANE 55
WILLIAM STREET
HOBART STREET
SLACKY CREEK
POINT STREET
HILL STREET
BLACKALL STREET
BEACON AVENUE
COPE PLACE
STURT PLACE
BANK STREET
HUTTON AVENUE
STOKES LANE
PARK ROAD
ALANSON AVENUE
ORGANS ROAD
STEPHEN DRIVE
HOSPITAL ROAD
FRANKLIN AVENUE
URSULA R

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Cadastre
Suburb Boundary
Study Area Catchment

0 0.125 0.25 0.5 0.75 1
Kilometers

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FIGURE 4A

HEWITTS CREEK CATCHMENT
PEAK FLOOD DEPTH & LEVELS
DFE



Note: Defined Flood Event (DFE)
is defined as the extent of the 1% AEP
event plus an allowance for
future climatic conditions including projected
sea level rise (2090 ~ 0.9m) and
rainfall increases (RCP8.5 2090)

JARAGA CIRCUIT
TREETOP GLEN
PHILLIP STREET
SEA FOAM AVENUE
REDMAN AVENUE
HENLEY ROAD
JONES LANE
ARUNTA DRIVE
HICKS ROAD
PALM GROVE
THE WAVES
ARMAGH PARADE
KANANGRA DRIVE
DEBORAH AVENUE
SEAVIEW TERRACE
THE LOOKOUT
RAILWAY LANE
Flanagan's Creek
KING STREET
VIRGINIA TERRACE
SOUDAN STREET
MASON STREET
CHURCH STREET
THE ESPLANADE
BATH STREET
GEORGE STREET
RAYMOND ROAD
McCAULEY STREET
OCEAN STREET
CLIFF PARADE
HEWITTS CREEK
LACHLAN STREET
STATION STREET
HARBORD STREET
HIGH STREET
RAILWAY PARADE
THOMAS GIBSON CREEK
ANN STREET
WREXHAM ROAD
NEWBOLD CLOSE
SURFERS PARADE
LANE 52
CLYDE CLOSE
TASMAN PARADE
PASS AVENUE
MARION STREET
SAMUEL CLOSE
HAMILTON ROAD
HEWITTS AVENUE
PANMILLS DRIVE
WOODLANDS CREEK
STURDEE AVENUE
NATIONAL AVENUE
GEORGE AVENUE
UNNAMED
LANE 55
WILLIAM STREET
ALLENBY PARADE
HAIG ROAD
HOBART STREET
TRAMWAY CREEK
SANDON DRIVE
ARAGAN CIRCUIT
PRINCES HIGHWAY
O'BRIEN STREET
SOMERVILLE STREET

N

Cadastre
Model Extent
Flood Level Major Contours (5m Intervals)
Flood Level Minor Contours (1m Intervals)

Depth (m)
0.00 - 0.15
0.15 - 0.30
0.30 - 0.50
0.50 - 1.00
> 1.0

0 62.5 125 250 375 500 (m)

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FIGURE 4B

HEWITTS CREEK CATCHMENT
PEAK FLOOD DEPTH & LEVELS
DFE



GEORGE STREET
LACHLAN STREET
HIGH STREET
HEWITTS CREEK
RAILWAY PARADE
WREXHAM ROAD
LANE 52
STATION STREET
MCCAULEY STREET
OCEAN STREET
CLIFF PARADE
THOMAS GIBSON CREEK
ANN STREET
NEWBOLD CLOSE
SURFERS PARADE
TASMAN PARADE
HAMILTON ROAD
CLYDE CLOSE
SAMUEL CLOSE
PASS AVENUE
MARION STREET
HEWITTS AVENUE
WOODLANDS CREEK
PANMILLS DRIVE
STURDEE AVENUE
GEORGE AVENUE
NATIONAL AVENUE
UNNAMED
WILLIAM STREET
HAIG ROAD
ALLENBY PARADE
LANE 55
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
ARAGAN CIRCUIT
SANDON DRIVE
O'BRIEN STREET
SOMERVILLE STREET
POINT STREET
LANE 56
HILL STREET
COPE PLACE
STURT PLACE
SLACKY CREEK
RANGE PLACE
WESTMACOTT PARADE
BEACON AVENUE
BEACH STREET
QUILKEY PLACE
BANK STREET
HUTTON AVENUE
BLACKALL
PARK ROAD
COLEMANS LANE
ORGANS ROAD
FRANKLIN AVENUE
URSULA ROAD

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Cadastre
Model Extent
Flood Level Major Contours (5m Intervals)
Flood Level Minor Contours (1m Intervals)

Depth (m)
0.00 - 0.15
0.15 - 0.30
0.30 - 0.50
0.50 - 1.00
> 1.0

0 62.5 125 250 375 500 (m)

Note: Defined Flood Event (DFE)
is defined as the extent of the 1% AEP
event plus an allowance for
future climatic conditions including projected
sea level rise (2090 ~ 0.9m) and
rainfall increases (RCP8.5 2090)

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FIGURE 5A
HEWITTS CREEK CATCHMENT FLOOD PLANING AREA



JARAGA CIRCUIT
TREETOP GLEN
PHILLIP STREET
SEA FOAM AVENUE
KIRRA ROAD
REDMAN AVENUE
HENLEY ROAD
JONES LANE
ARUNTA DRIVE
HICKS ROAD
PALM GROVE
THE WAVES
THE LOOKOUT
RAILWAY LANE
ARMAGH PARADE
KANANGRA DRIVE
DEBORAH AVENUE
SEAVIEW TERRACE
Flanagan's Creek
VIRGINIA TERRACE
SOUDAN STREET
MASON STREET
CHURCH STREET
KING STREET
THE ESPLANADE
BATH STREET
GEORGE STREET
RAYMOND ROAD
McCAULEY STREET
OCEAN STREET
CLIFF PARADE
HEWITTS CREEK
LACHLAN STREET
STATION STREET
HARBORD STREET
HIGH STREET
RAILWAY PARADE
THOMAS GIBSON CREEK
ANN STREET
WREXHAM ROAD
NEWBOLD CLOSE
SURFERS PARADE
LANE 52
CLYDE CLOSE
TASMAN PARADE
PASS AVENUE
MARION STREET
HEWITTS AVENUE
SAMUEL CLOSE
HAMILTON ROAD
PANMILLS DRIVE
WOODLANDS CREEK
NATIONAL AVENUE
STURDEE AVENUE
UNNAMED
GEORGE AVENUE
LANE 55
WILLIAM STREET
ALLENBY PARADE
HAIG ROAD
HOBART STREET
TRAMWAY CREEK
SANDON DRIVE
ARAGAN CIRCUIT
PRINCES HIGHWAY
O'BRIEN STREET
SOMERVILLE STREET

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Cadastre
Model Extent
Flood Planning Area

0 62.5 125 250 375 500 (m)

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FIGURE 5B

HEWITTS CREEK CATCHMENT FLOOD PLANING AREA

GEORGE STREET
LACHLAN STREET
HIGH STREET
HEWITTS CREEK
RAILWAY PARADE
STATION STREET
McCAULEY STREET
OCEAN STREET
CLIFF PARADE
THOMAS GIBSON CREEK
ANN STREET
NEWBOLD CLOSE
SURFERS PARADE
TASMAN PARADE
HAMILTON ROAD
WREXHAM ROAD
LANE 52
CLYDE CLOSE
SAMUEL CLOSE
PASS AVENUE
MARION STREET
HEWITTS AVENUE
PANMILLS DRIVE
WOODLANDS CREEK
NATIONAL AVENUE
UNNAMED
GEORGE AVENUE
STURDEE AVENUE
LANE 55
WILLIAM STREET
ALLENBY PARADE
HAIG ROAD
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
ARAGAN CIRCUIT
SANDON DRIVE
O'BRIEN STREET
SOMERVILLE STREET
POINT STREET
LANE 56
HILL STREET
COPE PLACE
SLACKY CREEK
RANGE PLACE
WESTMACOTT PARADE
BEACON AVENUE
BEACH STREET
BLACKALL STREET
STURT PLACE
QUILKEY PLACE
BANK STREET
HUTTON AVENUE
PARK ROAD
ALANSON AVENUE
HOSPITAL ROAD
ORGANS ROAD
COLEMANS LANE
FRANKLIN AVENUE
URSULA ROAD

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Cadastre
Model Extent
Flood Planning Area

0 62.5 125 250 375 500 (m)

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FIGURE 6

HEWITTS CREEK CATCHMENT
OVERLAND FLOW AREA

THIRROUL
BULLI
SANDON POINT

FREEWAY F6
MOUNT OUSLEY ROAD
KENNEDY ROAD
HILLCREST ROAD
LANE 50
MOUNTAIN ROAD
JONES LANE
HENLEY ROAD
REDMAN AVENUE
SEA FOAM AVENUE
PHILLIP STREET
THE WAVES
HICKS ROAD
KANANGRA DRIVE
DEBORAH AVENUE
VIRGINIA TERRACE
GEORGE STREET
LACHLAN STREET
CHURCH STREET
BATH STREET
CLIFF PARADE
RAILWAY PARADE
STATION STREET
HARBORD STREET
HEWITTS CREEK
THOMAS GIBSON CREEK
LANE 52
CRAIG STREET
HAMILTON ROAD
MARION STREET
WOODLANDS CREEK
NATIONAL AVENUE
UNNAMED
GEORGE AVENUE
STURDEE AVENUE
LANE 55
WILLIAM STREET
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
SLACKY CREEK
POINT STREET
SOUTHVIEW STREET
HILL STREET
BLACKALL STREET
BEACON AVENUE
COPE PLACE
STURT PLACE
BANK STREET
HUTTON AVENUE
PARK ROAD
ALANSON AVENUE
ORGANS ROAD
STEPHEN DRIVE
HOSPITAL ROAD
FRANKLIN AVENUE
URSULA ROAD
ALROY STREET

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Model Extent
Mainstream
Major Overland Flowpath
Minor Overland Flowpath

0 0.125 0.25 0.5 0.75 1 Kilometers

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FIGURE 7A

HEWITTS CREEK CATCHMENT HYDRAULIC HAZARD DFE



Note: Defined Flood Event (DFE) is defined as the extent of the 1% AEP event plus an allowance for future climatic conditions including projected sea level rise (2090 ~ 0.9m) and rainfall increases (RCP8.5 2090)

JARAGA CIRCUIT
TREETOP GLEN
PHILLIP STREET
SEA FOAM AVENUE
ARUNTA DRIVE
HICKS ROAD
PALM GROVE
THE WAVES
REDMAN AVENUE
HENLEY ROAD
JONES LANE
ARMAGH PARADE
KANANGRA DRIVE
DEBORAH AVENUE
SEAVIEW TERRACE
THE LOOKOUT
RAILWAY LANE
Flanagan's Creek
VIRGINIA TERRACE
SOUDAN STREET
MASON STREET
CHURCH STREET
KING STREET
THE ESPLANADE
BATH STREET
CLIFF PARADE
GEORGE STREET
RAYMOND ROAD
McCAULEY STREET
OCEAN STREET
HEWITTS CREEK
LACHLAN STREET
STATION STREET
HARBORD STREET
HIGH STREET
RAILWAY PARADE
THOMAS GIBSON CREEK
ANN STREET
WREXHAM ROAD
NEWBOLD CLOSE
SURFERS PARADE
LANE 52
CLYDE CLOSE
TASMAN PARADE
PASS AVENUE
MARION STREET
HEWITTS AVENUE
SAMUEL CLOSE
HAMILTON ROAD
WOODLANDS CREEK
PANMILLS DRIVE
NATIONAL AVENUE
STURDEE AVENUE
GEORGE AVENUE
UNNAMED
LANE 55
WILLIAM STREET
ALLENBY PARADE
HAIG ROAD
HOBART STREET
TRAMWAY CREEK
SANDON DRIVE
ARAGAN CIRCUIT
PRINCES HIGHWAY
O'BRIEN STREET
SOMERVILLE STREET

N

Cadastre
Model Extent

Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. All Buildings Vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All Building Types considered vulnerable to failure

0 62.5 125 250 375 500 (m)

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FIGURE 7B

HEWITTS CREEK CATCHMENT HYDRAULIC HAZARD DFE



GEORGE STREET
LACHLAN STREET
HIGH STREET
HEWITTS CREEK
RAILWAY PARADE
WREXHAM ROAD
LANE 52
STATION STREET
McCAULEY STREET
OCEAN STREET
CLIFF PARADE
THOMAS GIBSON CREEK
ANN STREET
NEWBOLD CLOSE
SURFERS PARADE
TASMAN PARADE
CLYDE CLOSE
HAMILTON ROAD
SAMUEL CLOSE
PASS AVENUE
MARION STREET
HEWITTS AVENUE
WOODLANDS CREEK
PANMILLS DRIVE
STURDEE AVENUE
NATIONAL AVENUE
UNNAMED
GEORGE AVENUE
LANE 53
WILLIAM STREET
HAIG ROAD
ALLENBY PARADE
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
ARAGAN CIRCUIT
SANDON DRIVE
O'BRIEN STREET
SOMERVILLE STREET
POINT STREET
LANE 56
HILL STREET
COPE PLACE
SLACKY CREEK
RANGE PLACE
WESTMACOTT PARADE
BEACON AVENUE
BEACH STREET
BLACKALL STREET
STURT PLACE
QUILKEY PLACE
BANK STREET
HUTTON AVENUE
PARK ROAD
COLEMANS LANE
ORGANS ROAD
FRANKLIN AVENUE
URSULA ROAD

N

Cadastre

Model Extent

Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. All Buildings Vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All Building Types considered vulnerable to failure

0 62.5 125 250 375 500 (m)

Note: Defined Flood Event (DFE) is defined as the extent of the 1% AEP event plus an allowance for future climatic conditions including projected sea level rise (2090 ~ 0.9m) and rainfall increases (RCP8.5 2090)

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FIGURE 8A

HEWITTS CREEK CATCHMENT
HYDRAULIC CATEGORIES
DFE



Note: Defined Flood Event (DFE)
is defined as the extent of the 1% AEP
event plus an allowance for
future climatic conditions including projected
sea level rise (2090 ~ 0.9m) and
rainfall increases (RCP8.5 2090)

JARAGA CIRCUIT
TREETOP GLEN
PHILLIP STREET
SEA FOAM AVENUE
REDMAN AVENUE
HENLEY ROAD
JONES LANE
ARUNTA DRIVE
HICKS ROAD
PALM GROVE
THE WAVES
ARMAGH PARADE
KANANGRA DRIVE
DEBORAH AVENUE
SEAVIEW TERRACE
THE LOOKOUT
RAILWAY LANE
Flanagan's Creek
KING STREET
VIRGINIA TERRACE
SOUDAN STREET
MASON STREET
CHURCH STREET
THE ESPLANADE
BATH STREET
RAYMOND ROAD
McCAULEY STREET
CLIFF PARADE
OCEAN STREET
GEORGE STREET
HEWITTS CREEK
LACHLAN STREET
STATION STREET
HARBORD STREET
HIGH STREET
RAILWAY PARADE
THOMAS GIBSON CREEK
ANN STREET
WREXHAM ROAD
NEWBOLD CLOSE
SURFERS PARADE
LANE 52
CLYDE CLOSE
TASMAN PARADE
PASS AVENUE
MARION STREET
SAMUEL CLOSE
HAMILTON ROAD
HEWITTS AVENUE
WOODLANDS CREEK
PANMILLS DRIVE
NATIONAL AVENUE
STURDEE AVENUE
UNNAMED
GEORGE AVENUE
LANE 55
WILLIAM STREET
ALLENBY PARADE
HAIG ROAD
HOBART STREET
TRAMWAY CREEK
SANDON DRIVE
ARAGAN CIRCUIT
PRINCES HIGHWAY
O'BRIEN STREET
SOMERVILLE STREET

N

Cadastre
Model Extent
Hydraulic Categorisation
Flood Fringe
Flood Storage
Floodway

0 62.5 125 250 375 500 (m)

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FIGURE 8B

HEWITTS CREEK CATCHMENT
HYDRAULIC CATEGORIES
DFE



GEORGE STREET
LACHLAN STREET
HIGH STREET
HEWITTS CREEK
RAILWAY PARADE
STATION STREET
MCCAULEY STREET
OCEAN STREET
CLIFF PARADE
THOMAS GIBSON CREEK
ANN STREET
NEWBOLD CLOSE
SURFERS PARADE
TASMAN PARADE
WREXHAM ROAD
LANE 52
CLYDE CLOSE
HAMILTON ROAD
PASS AVENUE
MARION STREET
HEWITTS AVENUE
SAMUEL CLOSE
WOODLANDS CREEK
PANMILLS DRIVE
STURDEE AVENUE
NATIONAL AVENUE
UNNAMED
GEORGE AVENUE
LANE 53
WILLIAM STREET
HAIG ROAD
ALLENBY PARADE
HOBART STREET
TRAMWAY CREEK
ARAGAN CIRCUIT
PRINCES HIGHWAY
SANDON DRIVE
O'BRIEN STREET
SOMERVILLE STREET
POINT STREET
LANE 56
HILL STREET
COPE PLACE
SLACKY CREEK
RANGE PLACE
WESTMACOTT PARADE
BEACON AVENUE
BEACH STREET
STURT PLACE
QUILKEY PLACE
BANK STREET
HUTTON AVENUE
BLACKALL STREET
COLEMANS LANE
PARK ROAD
ORGANS ROAD
FRANKLIN AVENUE
URSULA ROAD

N

Cadastre
Model Extent

Hydraulic Categorisation
Flood Fringe
Flood Storage
Floodway

0 62.5 125 250 375 500 (m)

Note: Defined Flood Event (DFE)
is defined as the extent of the 1% AEP
event plus an allowance for
future climatic conditions including projected
sea level rise (2090 ~ 0.9m) and
rainfall increases (RCP8.5 2090)

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FIGURE 9A
HEWITTS CREEK CATCHMENT
FIRST EVENT FLOODING ABOVE FLOOR



Cadastre
Model Extent

First Flooded Over Floor

- Estimate, 20% AEP Event
- Estimate, 10% AEP Event
- Estimate, 5% AEP Event
- Estimate, 2% AEP Event
- Estimate, 1% AEP Event
- Estimate, 0.5% AEP Event
- Estimate, 0.2% AEP Event
- Estimate, PMF Event
- Survey, 20% AEP Event
- Survey, 10% AEP Event
- Survey, 5% AEP Event
- Survey, 2% AEP Event
- Survey, 1% AEP Event
- Survey, 0.5% AEP Event
- Survey, 0.2% AEP Event
- Survey, PMF Event

1% AEP Event Depth (m)

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 1.00
- > 1.0

N

0 62.5 125 250 375 500 (m)

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FIGURE 9B

HEWITTS CREEK CATCHMENT

FIRST EVENT FLOODING ABOVE FLOOR



Cadastre

Model Extent

First Flooded Over Floor

- Estimate, 20% AEP Event
- Estimate, 10% AEP Event
- Estimate, 5% AEP Event
- Estimate, 2% AEP Event
- Estimate, 1% AEP Event
- Estimate, 0.5% AEP Event
- Estimate, 0.2% AEP Event
- Estimate, PMF Event
- Survey, 20% AEP Event
- Survey, 10% AEP Event
- Survey, 5% AEP Event
- Survey, 2% AEP Event
- Survey, 1% AEP Event
- Survey, 0.5% AEP Event
- Survey, 0.2% AEP Event
- Survey, PMF Event

1% AEP Event Depth (m)

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 1.00
- > 1.0

N

0 62.5 125 250 375 500 (m)

GEORGE STREET
LACHLAN STREET
HEWITTS CREEK
HIGH STREET
RAILWAY PARADE
McCAULEY STREET
OCEAN STREET
STATION STREET
THOMAS GIBSON CREEK
ANN STREET
NEWBOLD CLOSE
SURFERS PARADE
WREXHAM ROAD
LANE 52
TASMAN PARADE
CLYDE CLOSE
SAMUEL CLOSE
HAMILTON ROAD
PASS AVENUE
MARION STREET
HEWITTS AVENUE
PANMILLS DRIVE
WOODLANDS CREEK
NATIONAL AVENUE
UNNAMED
STURDEE AVENUE
GEORGE AVENUE
LANE 55
WILLIAM STREET
ALLENBY PARADE
HAIG ROAD
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
ARAGAN CIRCUIT
SANDON DRIVE
O'BRIEN STREET
SOMERVILLE STREET
POINT STREET
LANE 56
HILL STREET
SLACKY CREEK
RANGE PLACE
WESTMACOTT PARADE
BEACON AVENUE
BEACH STREET
BLACKALL STREET
QUILKEY PLACE
BANK STREET
HUTTON AVENUE
PARK ROAD
COLEMANS LANE
FRANKLIN AVENUE
ORGANS ROAD
HOSPITAL ROAD
URSULA ROAD
COPE PLACE

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FIGURE 10

HEWITTS CREEK CATCHMENT
FLOOD EMERGENCY RESPONSE CLASSIFICATION
5% AEP EVENT

THIRROUL
SANDON POINT
BULLI
FREEWAY F6
MOUNT OUSLEY ROAD
KANANGRA DRIVE
DEBORAH AVENUE
VIRGINIA TERRACE
GEORGE STREET
LACHLAN STREET
HICKS ROAD
PHILLIP STREET
SEA FOAM AVENUE
THE WAVES
LANE 50
MOUNTAIN ROAD
REDMAN AVENUE
HENLEY ROAD
JONES LANE
CHURCH STREET
RAILWAY PARADE
BATH STREET
CLIFF PARADE
STATION STREET
HARBORD STREET
HEWITTS CREEK
THOMAS GIBSON CREEK
LANE 52
CRAIG STREET
HAMILTON ROAD
MARION STREET
WOODLANDS CREEK
STURDEE AVENUE
GEORGE AVENUE
NATIONAL AVENUE
UNNAMED
WILLIAM STREET
LANE 55
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
POINT STREET
SOUTHVIEW STREET
HILL STREET
BLACKALL STREET
SLACKY CREEK
BEACON AVENUE
COPE PLACE
STURT PLACE
BANK STREET
HUTTON AVENUE
PARK ROAD
ALANSON AVENUE
ORGANS ROAD
STEPHEN DRIVE
HOSPITAL ROAD
FRANKLIN AVENUE
URSULA ROAD
ALROY STREET

N

Model Extent
5% AEP Flood Event
Not Impacted
Flooded Exit Road
Flooded Isolated Elevated
Flooded Isolated Submerged

0 0.125 0.25 0.5 0.75 1 Kilometers

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FIGURE 11

HEWITTS CREEK CATCHMENT
FLOOD EMERGENCY RESPONSE CLASSIFICATION
1% AEP EVENT

THIRROUL
SANDON POINT
BULLI
FREEWAY F6
MOUNT OUSLEY ROAD
KAWANGRA DRIVE
DEBORAH AVENUE
VIRGINIA TERRACE
GEORGE STREET
LACHLAN STREET
HICKS ROAD
PHILLIP STREET
SEA FOAM AVENUE
THE WAVES
LANE 50
MOUNTAIN ROAD
REDMAN AVENUE
HENLEY ROAD
JONES LANE
CHURCH STREET
RAILWAY PARADE
BATH STREET
CLIFF PARADE
STATION STREET
HARBORD STREET
THOMAS GIBSON CREEK
HEWITTS CREEK
LANE 52
CRAIG STREET
HAMILTON ROAD
MARION STREET
WOODLANDS CREEK
STURDEE AVENUE
LANE 55
GEORGE AVENUE
WILLIAM STREET
NATIONAL AVENUE
UNNAMED
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
POINT STREET
SOUTHVIEW STREET
HILL STREET
BLACKALL STREET
SLACKY CREEK
BEACON AVENUE
BANK STREET
HUTTON AVENUE
PARK ROAD
COPE PLACE
STURT PLACE
ALANSON AVENUE
STEPHEN DRIVE
ORGANS ROAD
HOSPITAL ROAD
FRANKLIN AVENUE
URSULA ROAD
ALROY STREET

N

Model Extent
1% AEP Flood Event
Not Impacted
Flooded Exit Road
Flooded Isolated Elevated
Flooded Isolated Submerged

0 0.125 0.25 0.5 0.75 1 Kilometers

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FIGURE 12

HEWITTS CREEK CATCHMENT
FLOOD EMERGENCY RESPONSE CLASSIFICATION
PMF EVENT

THIRROUL
SANDON POINT
BULLI
FREEWAY F6
MOUNT OUSLEY ROAD
LANE 50
MOUNTAIN ROAD
PHILLIP STREET
SEA FOAM AVENUE
HICKS ROAD
THE WAVES
REDMAN AVENUE
HENLEY ROAD
JONES LANE
KANANGRA DRIVE
DEBORAH AVENUE
VIRGINIA TERRACE
CHURCH STREET
BATH STREET
CLIFF PARADE
GEORGE STREET
HEWITTS CREEK
RAILWAY PARADE
LACHLAN STREET
STATION STREET
HARBORD STREET
THOMAS GIBSON CREEK
LANE 52
CRAIG STREET
HAMILTON ROAD
MARION STREET
WOODLANDS CREEK
NATIONAL AVENUE
UNNAMED
GEORGE AVENUE
STURDEE AVENUE
LANE 55
WILLIAM STREET
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
POINT STREET
SOUTHVIEW STREET
HILL STREET
BLACKALL STREET
COPE PLACE
SLACKY CREEK
BEACON AVENUE
STURT PLACE
BANK STREET
HUTTON AVENUE
PARK ROAD
ALANSON AVENUE
ORGANS ROAD
STEPHEN DRIVE
HOSPITAL ROAD
FRANKLIN AVENUE
URSULA ROAD
ALROY STREET

N

Model Extent
PMF Flood Event
Not Impacted
Flooded Exit Road
Flooded Isolated Elevated
Flooded Isolated Submerged

0 0.125 0.25 0.5 0.75 1 Kilometers

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FIGURE 13

HEWITTS CREEK CATCHMENT
FLOOD RISK PRECINCT
DFE

Note: Defined Flood Event (DFE)
is defined as the extent of the 1% AEP
event plus an allowance for
future climatic conditions including projected
sea level rise (2090 ~ 0.9m) and
rainfall increases (RCP8.5 2090)

THIRROUL
SANDON POINT
BULLI

MOUNT OUSLEY ROAD
KANANGRA DRIVE
DEBORAH AVENUE
VIRGINIA TERRACE
HICKS ROAD
PHILLIP STREET
SEA FOAM AVENUE
THE WAVES
LANE 50
KENNEDY ROAD
HILLCREST ROAD
MOUNTAIN ROAD
REDMAN AVENUE
HENLEY ROAD
JONES LANE
CHURCH STREET
BATH STREET
CLIFF PARADE
GEORGE STREET
LACHLAN STREET
HEWITTS CREEK
RAILWAY PARADE
STATION STREET
HARBORD STREET
THOMAS GIBSON CREEK
LANE 52
CRAIG STREET
HAMILTON ROAD
MARION STREET
WOODLANDS CREEK
NATIONAL AVENUE
UNNAMED
GEORGE AVENUE
STURDEE AVENUE
LANE 55
WILLIAM STREET
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
POINT STREET
SOUTHVIEW STREET
HILL STREET
BLACKALL STREET
COPE PLACE
SLACKY CREEK
BEACON AVENUE
BANK STREET
HUTTON AVENUE
PARK ROAD
FRANKLIN AVENUE
URSULA ROAD
ALROY STREET

High FRP includes:
i) Areas greater than H3 hazard conditions during a DFE;
ii) DFE Floodways.

Medium FRP includes:
i) Includes land in the flood planning area that is not within High FRP area

Low FRP.
i) All areas within the floodplain (i.e. within the extent of the PMF) but not identified within either High FRP or Medium FRP

Model Extent
High Flood Risk Precinct
Meduim Flood Risk Precinct
Low Flood Risk Precinct

0 0.125 0.25 0.5 0.75 1 Kilometers

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FIGURE 14

HEWITTS CREEK CATCHMENT
CURRENT PROPOSED DEVELOPMENTS

THIRROUL
SANDON POINT
BULLI
FREEWAY F6
PRINCES HIGHWAY
MOUNT OUSLEY ROAD
FORDS ROAD
TREETOP GLEN
PHILLIP STREET
SEA FOAM AVENUE
MOUNT GILEAD ROAD
PALM GROVE
THE WAVES
SEAVIEW TERRACE
THE LOOKOUT
KANANGRA DRIVE
DEBORAH AVENUE
VIRGINIA TERRACE
GEORGE STREET
CHURCH STREET
RAILWAY LANE
LANE 50
KENNEDY ROAD
HILLCREST ROAD
MOUNTAIN ROAD
REDMAN AVENUE
HENLEY ROAD
JONES LANE
Flanagan's Creek
BATH STREET
CLIFF PARADE
HEWITTS CREEK
STATION STREET
HARBORD STREET
THOMAS GIBSON CREEK
LANE 52
CRAIG STREET
HAMILTON ROAD
MARION STREET
WOODLANDS CREEK
PANMILLS DRIVE
STURDEE AVENUE
GEORGE AVENUE
LANE 55
WILLIAM STREET
HOBART STREET
TRAMWAY CREEK
SOMERVILLE STREET
POINT STREET
HILL STREET
BLACKALL STREET
COPE PLACE
STURT PLACE
SLACKY CREEK
BEACON AVENUE
GWYTHER AVENUE
BANK STREET
HUTTON AVENUE
PARK ROAD
ALANSON AVENUE
ORGANS ROAD
STEPHEN DRIVE
HOSPITAL ROAD
FRANKLIN AVENUE
URSULA R

N

- Study Area Catchment
- Bulli Brickworks
- Proposed Bridge Across Tramway
- Bulli and Thirroul Road Improvements
- Anglicare Development
- Bulli Showground
- Bulli Bowling Club

0 0.125 0.25 0.5 0.75 1 Kilometers

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FIGURE 15A

HEWITTS CREEK CATCHMENT
DESIGN EVENTS
VULNERABLE FACILITIES

Lawrence Hargrave Private Hospital
Southern IML Pathology
Fire and Rescue NSW Thirroul Fire Station
Thirroul Central Chemist
Thirroul Public School
Thirroul Pharmacy
St Michael's Catholic Parish Primary School
Thirroul District Community Centre
Southern Cross Care Thirroul Village
Seacliff Healthcare Medical Centre
Thirroul Preschool Centre
Thirroul Preschool Centre
Physical edge healthcare
Fresh Hope Care McCauley Lodge
Fresh Hope Care Tasman Court Retirement Village

PHILLIP STREET
COAST STREET
KIRTON ROAD
COCHRANE ROAD
REDMAN AVENUE
HENLEY ROAD
JONES LANE
BEAN STREET
THE WAVES
MOUNT GILEAD ROAD
HICKS ROAD
ARUNTA DRIVE
CORNOCK AVENUE
PALM GROVE
SEAVIEW TERRACE
THE LOOKOUT
SEA FOAM AVENUE
DEBORAH AVENUE
KANANGRA DRIVE
ROBINSVILLE CRESCENT
ARMAGH PARADE
VIRGINIA TERRACE
JENNIFER CRESCENT
GEORGE STREET
SOUDAN STREET
MASON STREET
CHURCH STREET
LAWRENCE HARGRAVE DRIVE
Flanagan's Creek
THE ESPLANADE
BATH STREET
CLIFF PARADE
OCEAN STREET
RAYMOND ROAD
MCCAULEY STREET
HARBORD STREET
STATION STREET
LACHLAN STREET
HEWITTS CREEK
RAILWAY PARADE
HIGH STREET
GLASS AVENUE
THOMAS GIBSON CREEK
SPRAY STREET
ANN STREET
NEWBOLD CLOSE
WREXHAM ROAD
LANE 52
TASMAN PARADE
CLYDE CLOSE
SAMUEL CLOSE
BRICKWORKS AVENUE
HAMILTON ROAD
PRINCES HIGHWAY
GUM TREE LANE
MARION STREET
HEWITTS AVENUE
WOODLANDS CREEK
PANMILLS DRIVE
STURDEE AVENUE
GEORGE AVENUE

N

Aged Care
Childcare
Emergency
Health
School
Model Extent
Cadastre
20% AEP Flood Extent
5% AEP Flood Extent
1% AEP Flood Extent
PMF Flood Extent

0 62.5 125 250 375 500 (m)

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FIGURE 15B

HEWITTS CREEK CATCHMENT
DESIGN EVENTS
VULNERABLE FACILITIES

WOODLANDS CREEK
WOODLANDS CREEK
PANMILLS DRIVE
CRAVEN STREET
YENDA AVENUE
STURDEE AVENUE
ILLAWARRA RAILWAY
UNNAMED
GEORGE AVENUE
LANE 54
TYRWHITT AVENUE
LANE 55
WILLIAM STREET
HAIG ROAD
Bulli Public School
ALLENBY PARADE
HOBART STREET
TRAMWAY CREEK
TRAMWAY COURT
ARAGAN CIRCUIT
GARABAN COURT
PRINCES HIGHWAY
Sandon Point Children's Centre
O'BRIEN STREET
SOMERVILLE STREET
Point Street Early Learning Centre
BLACKBUTT PLACE
POINT STREET
LANE 56
RANGE PLACE
WESTMACOTT PARADE
HILL STREET
BLACKALL STREET
SLACKY CREEK
BEACON AVENUE
BEACH STREET
Bulli Childrens Centre
QUILKEY PLACE
BANK STREET
HUTTON AVENUE
GWYTHER AVENUE
STOKES LANE
RAILWAY STREET
PARK ROAD
COLEMANS LANE
FOWLER STREET
STATION STREET
ORGANS ROAD
FRANKLIN AVENUE
URSULA ROAD

N

- Aged Care
- Childcare
- Emergency
- Health
- School
- Model Extent
- Cadastre
- 20% AEP Flood Extent
- 5% AEP Flood Extent
- 1% AEP Flood Extent
- PMF Flood Extent

0 62.5 125 250 375 500 (m)

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FIGURE 16A
HEWITTS CREEK CATCHMENT
DESIGN EVENTS
ROADS INUNDATIONS



JARAGA CIRCUIT
TREETOP GLEN
PHILLIP STREET
SEA FOAM AVENUE
REDMAN AVENUE
HENLEY ROAD
JONES LANE
ARUNTA DRIVE
PALM GROVE
MOUNT GILEAD ROAD
THE WAVES
THE LOOKOUT
SEAVIEW TERRACE
RAILWAY LANE
ARMAGH PARADE
KANANGRA DRIVE
VIRGINIA TERRACE
CHURCH STREET
KING STREET
Flanagan's Creek
BATH STREET
McCAULEY STREET
OCEAN STREET
HARBORD STREET
GEORGE STREET
LACHLAN STREET
STATION STREET
RAILWAY PARADE
WREXHAM ROAD
LANE 52
NEWBOLD CLOSE
ANN STREET
CLIFF PARADE
TASMAN PARADE
CLYDE CLOSE
SAMUEL CLOSE
HAMILTON ROAD
PRINCES HIGHWAY
PASS AVENUE
MARION STREET
HEWITTS AVENUE
WOODLANDS CREEK
PANMILLS DRIVE
STURDEE AVENUE
GEORGE AVENUE
UNNAMED
LANE 54
LANE 55
WILLIAM STREET
HAIG ROAD
ALLENBY PARADE
HOBART STREET
TRAMWAY CREEK
SANDON DRIVE
O'BRIEN STREET
SOMERVILLE STREET

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

N

Model Extent
Cadastre
20% AEP Flood Extent
5% AEP Flood Extent
1% AEP Flood Extent
PMF Flood Extent

Road Inundation (first flooded)
Not_flooded
20% AEP Event
2% AEP Event

0 62.5 125 250 375 500 (m)

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FIGURE 16B

HEWITTS CREEK CATCHMENT
DESIGN EVENTS
ROADS INUNDATIONS



6 7 8 9 10 12 13 14 15 16 17 18 21 22 23 24 25 26 27 28 29 30 32

GEORGE STREET
LACHLAN STREET
RAILWAY PARADE
OCEAN STREET
STATION STREET
HARBORD STREET
ANN STREET
CLIFF PARADE
NEWBOLD CLOSE
WREXHAM ROAD
LANE 52
TASMAN PARADE
CLYDE CLOSE
HAMILTON ROAD
SAMUEL CLOSE
PASS AVENUE
MARION STREET
HEWITTS AVENUE
WOODLANDS CREEK
PANMILLS DRIVE
STURDEE AVENUE
GEORGE AVENUE
UNNAMED
LANE 54
LANE 55
WILLIAM STREET
HAIG ROAD
ALLENBY PARADE
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
ARAGAN CIRCUIT
SANDON DRIVE
O'BRIEN STREET
SOMERVILLE STREET
POINT STREET
LANE 56
HILL STREET
COPE PLACE
SLACKY CREEK
BEACON AVENUE
WESTMACOTT PARADE
BEACH STREET
STURT PLACE
QUILKEY PLACE
BANK STREET
HUTTON AVENUE
ALANSON AVENUE
HOSPITAL ROAD
ORGANS ROAD
FRANKLIN AVENUE
COLEMANS LANE
URSULA ROAD

N

Model Extent
Cadastre
20% AEP Flood Extent
5% AEP Flood Extent
1% AEP Flood Extent
PMF Flood Extent

Road Inundation (first flooded)
Not_flooded
20% AEP Event
2% AEP Event

0 62.5 125 250 375 500 (m)

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FIGURE 17

HEWITTS CREEK CATCHMENT
RECOMMENDED OPTIONS

CM01 : Excavate 1,400m 3 to create a swale through Tingarra Park

DB02 : A 170m levee along the north bank of Woodlands Creek

THIRROUL
BULLI
SANDON POINT

FREEWAY F6
MOUNT OUSLEY ROAD
KENNEDY ROAD
HILLCREST ROAD
LANE 50
MOUNTAIN ROAD
JONES
REDMAN AVENUE
HENLEY ROAD
PHILLIP STREET
SEA FOAM AVENUE
HICKS ROAD
THE WAVES
KAWANGRA DRIVE
DEBORAH AVENUE
VIRGINIA TERRACE
CHURCH STREET
BATH STREET
CLIFF PARADE
GEORGE STREET
HEWITTS CREEK
LACHLAN STREET
RAILWAY PARADE
STATION STREET
HARBORD STREET
THOMAS GIBSON CREEK
LANE 52
CRAIG STREET
HAMILTON ROAD
MARION STREET
WOODLANDS CREEK
STURDEE AVENUE
GEORGE AVENUE
LANE 55
WILLIAM STREET
HOBART STREET
TRAMWAY CREEK
PRINCES HIGHWAY
POINT STREET
SOUTH VIEW STREET
HILL STREET
BLACKALL STREET
COPE PLACE
STURT PLACE
SLACKY CREEK
BEACON AVENUE
BANK STREET
HUTTON AVENUE
PARK ROAD
ALANSON AVENUE
ORGANS ROAD
STEPHEN DRIVE
HOSPITAL ROAD
FRANKLIN AVENUE
URSULA ROAD
ALROY STREET

N

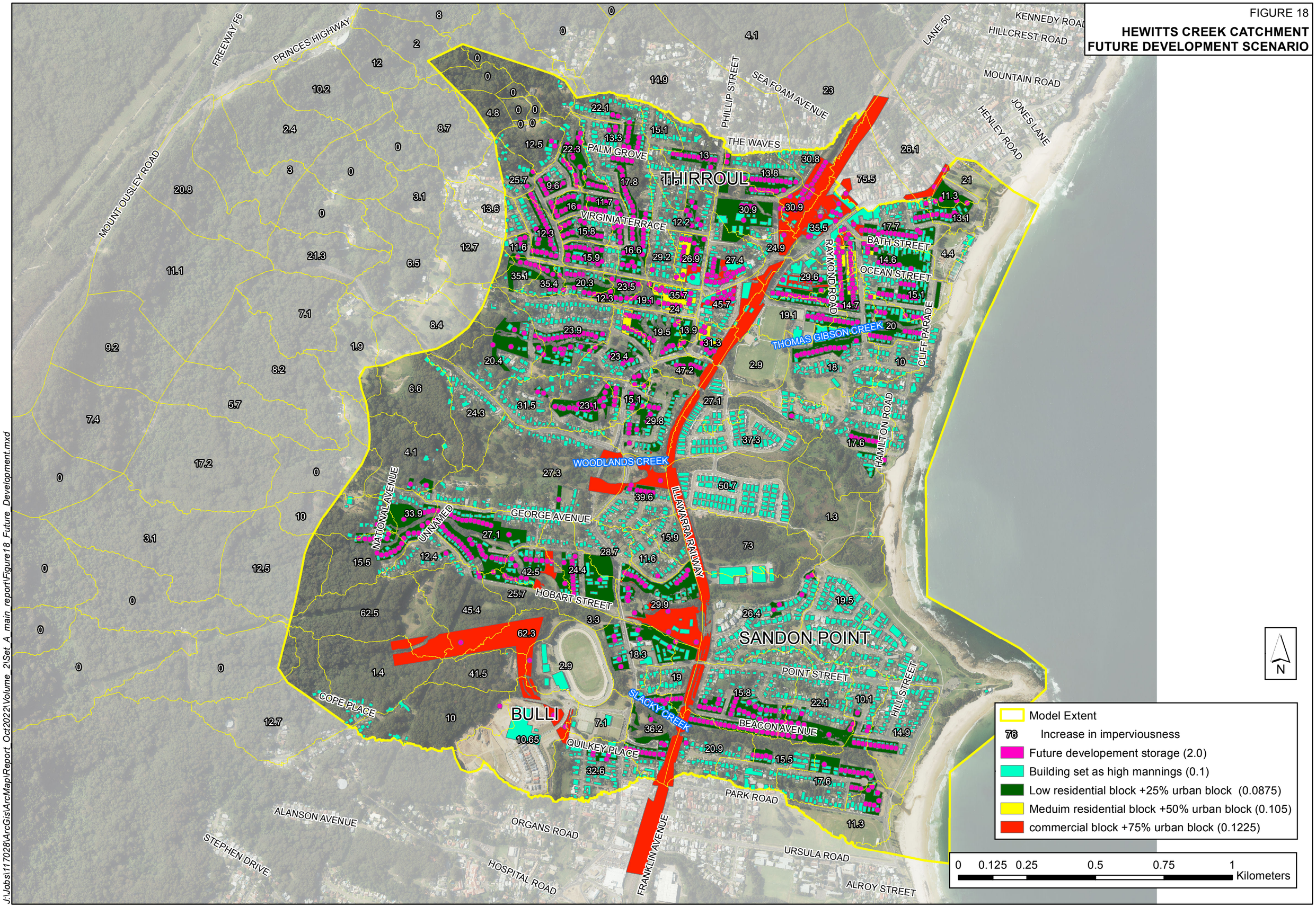
Cadastre
Model Extent

0 0.125 0.25 0.5 0.75 1 Kilometers

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FIGURE 18

HEWITTS CREEK CATCHMENT
FUTURE DEVELOPMENT SCENARIO



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