SOUTHAMPTON
CITY COUNCIL

Southampton Level 2 Strategic Flood Risk Assessment

Appendix A: Mapping to Accompany Level 2 SFRA

Updated May 2017

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Introduction

This Appendix contains the mapping to accompany the Southampton Level 2 Strategic Flood Risk Assessment. The following maps are included:

Map 1: Southampton Overview

Map 2: Southampton Lidar Overview

Map 3: River Test and Itchen Wider Catchment Overview

Map 4: Hydrological Features Overview

Map 5: Geological Overview – Bedrock Permeability

Map 6: Geological Overview – Superficial Deposits and Bedrock Composition

Map 7: Flood and Coastal Erosion Defence Overview

Map 8: Environment Agency Flood Zones (Present Day)

Map 9 – 9.4: Present Day and Future Tidal Flood Risk

Map 10 – 10.4: Present Day Tidal Flood Hazard (2015)

Map 11 – 11.4: Future Tidal Flood Hazard (2115)

Map 12: Recorded Flood Incidents in Southampton

Map 13 – 13.4: Surface Water Flood Risk (Present Day)

Map 14: Areas Susceptible to Groundwater Flooding

Map 15: Environment Agency Flood Alert Areas

Map 16: Environment Agency Flood Warning Areas

Map 17: Critical Infrastructure Overview

The data used in this SFRA have come from a number of sources under licence agreement and cannot be passed to external sources without the permission from the owner.

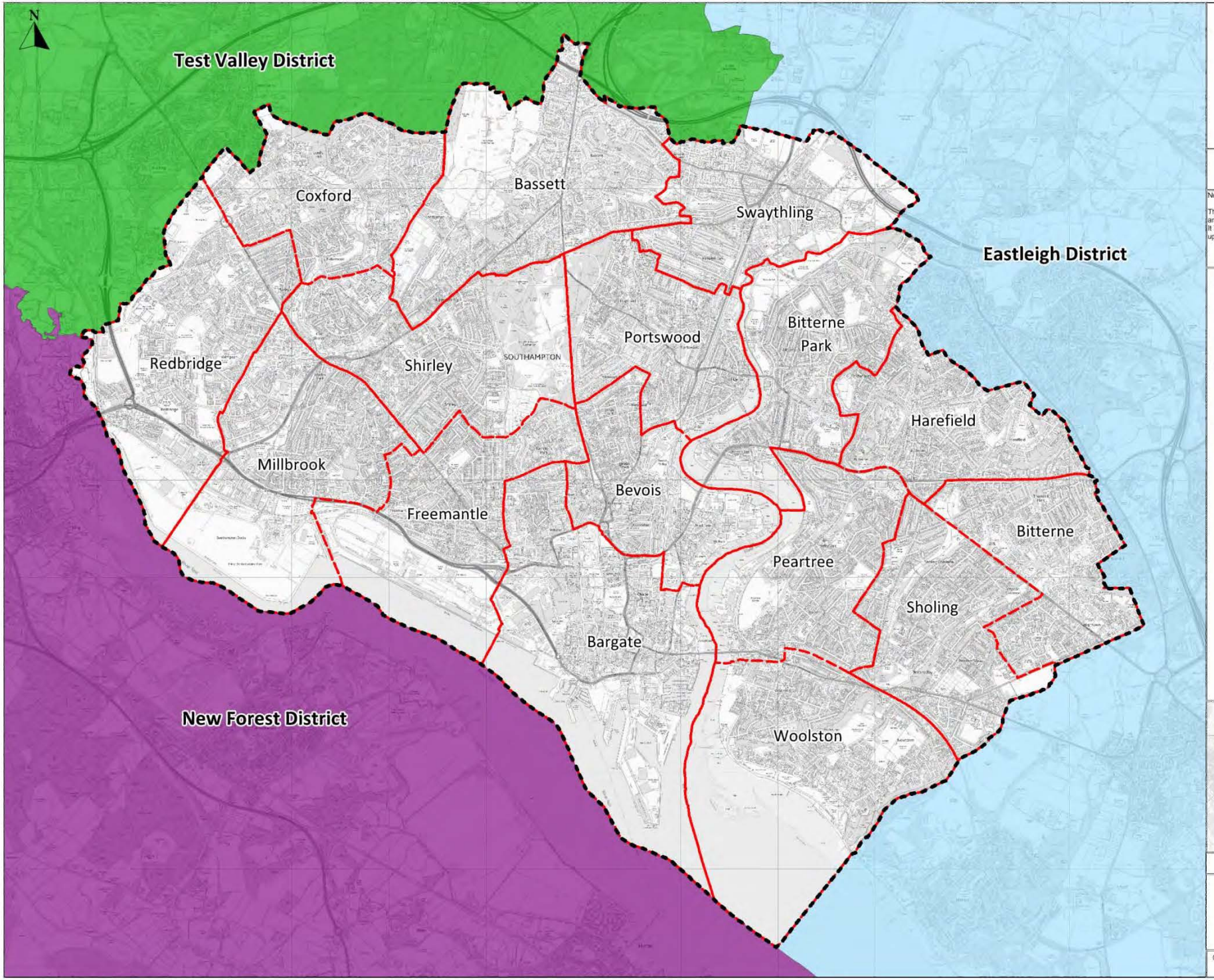
Data used to inform the Level 2 SFRA

Data	Date of Data	Owner
LiDAR	June/July 2011	SCC
Detailed River Network	June 2013	Environment Agency
Environment Agency Classified Main Rivers	June 2015	Environment Agency
Bedrock Geology	August 2015	Environment Agency
Superficial Deposits and Bedrock Composition	August 2015	Environment Agency
Flood and Erosion Defence Overview	July 2016	SCC / Environment Agency
Flood Zones 2 and 3	July 2016	Environment Agency
Tidal Flood Risk	2016	Environment Agency
Recorded Flood Incidents	April 2017	SCC / Southern Water / Environment Agency
Surface Water Flood Risk (Complex)	May 2016	Environment Agency
Areas Susceptible to Groundwater Flooding	May 2011	Environment Agency
Flood Alert Areas	June 2016	Environment Agency
Flood Warning Areas	October 2016	Environment Agency
Critical Infrastructure	August 2015	SCC / SSE

It is possible that, as a result of any future changes to legislation, data, policy, baseline flooding situations or revised Government guidance, the outputs of the SFRA may become invalid. This SFRA is intended to be a live document and effort will be made to update it as and when new information, data or guidance becomes available. Timescales for updates will depend on factors including the impact of the change and availability of staff resources. It is the responsibility of the user to check whether more up to date information is available when using the outputs.

Record of Amendments

Date of Publication	Record of Amendments
January 2017	First publication
May 2017	Map 12 (Record of Flood Incidents) updated to include SCC flood records to 01 April 2017



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Southampton Level 2 SFRA
January 2017

Note:

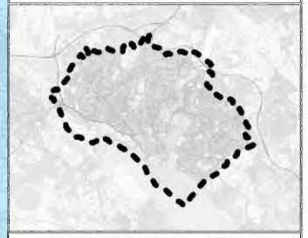
This map shows the city divided into the 16 ward areas, along with the neighbouring district authorities. It is the responsibility of the user to check whether more up to date information is available.

Legend

- Southampton City Council Administrative Boundary
- Ward Boundary

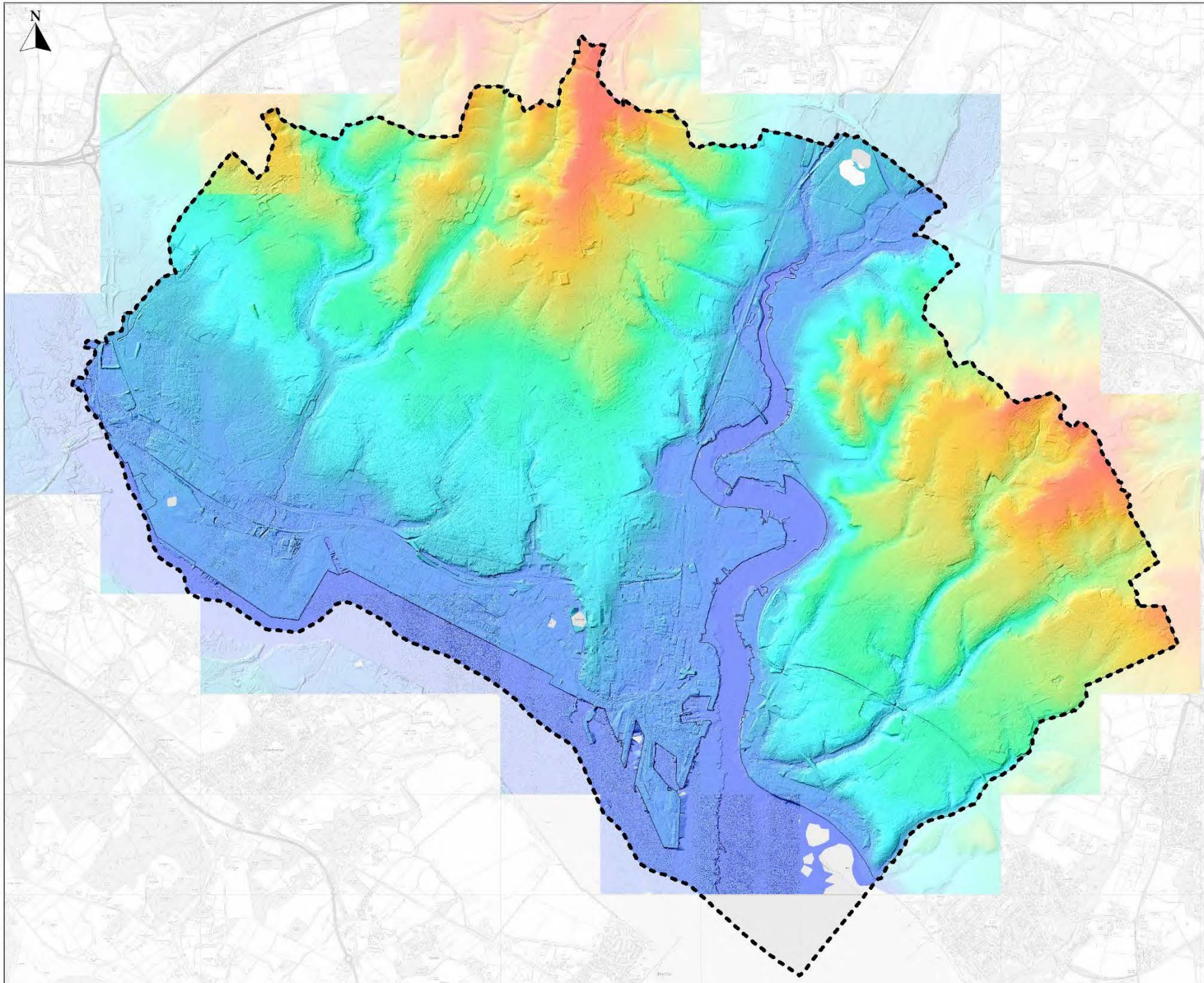
Neighbouring Authorities

- Eastleigh District
- New Forest District
- Test Valley District



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 1:
Southampton Overview



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Southampton Level 2 SFRA
January 2017

Note:

Southampton City Council Digital Terrain Model at 1m resolution. Ground terrain heights at 1m intervals. Captured by aerial Lidar survey in the summer of 2011.

Legend

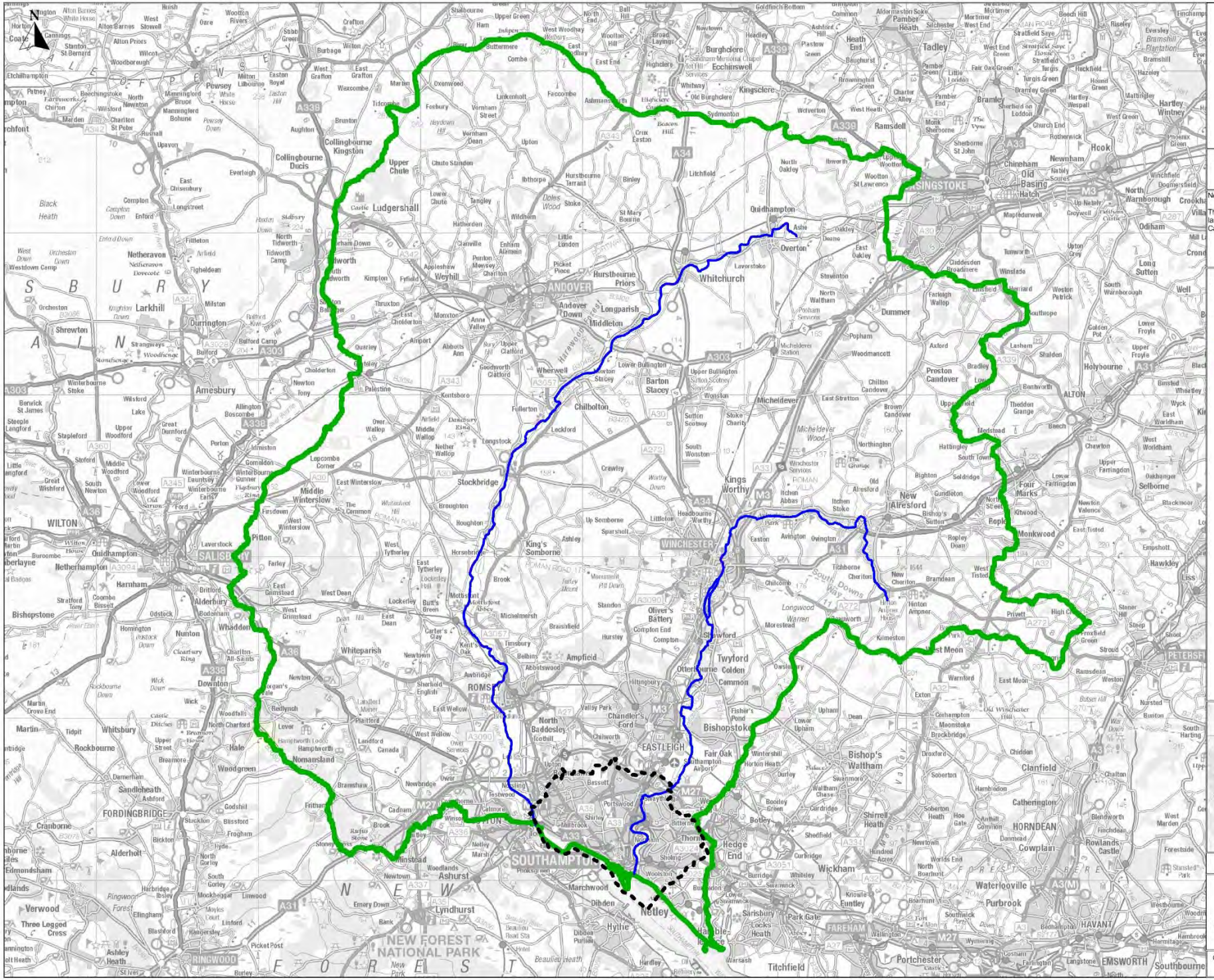
Southampton City Council Administrative Boundary

Digital Terrain Model (m)

- >80
- 70
- 60
- 50
- 40
- 30
- 20
- 10
- 0
- <10

Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 2:
Southampton Lidar Overview



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

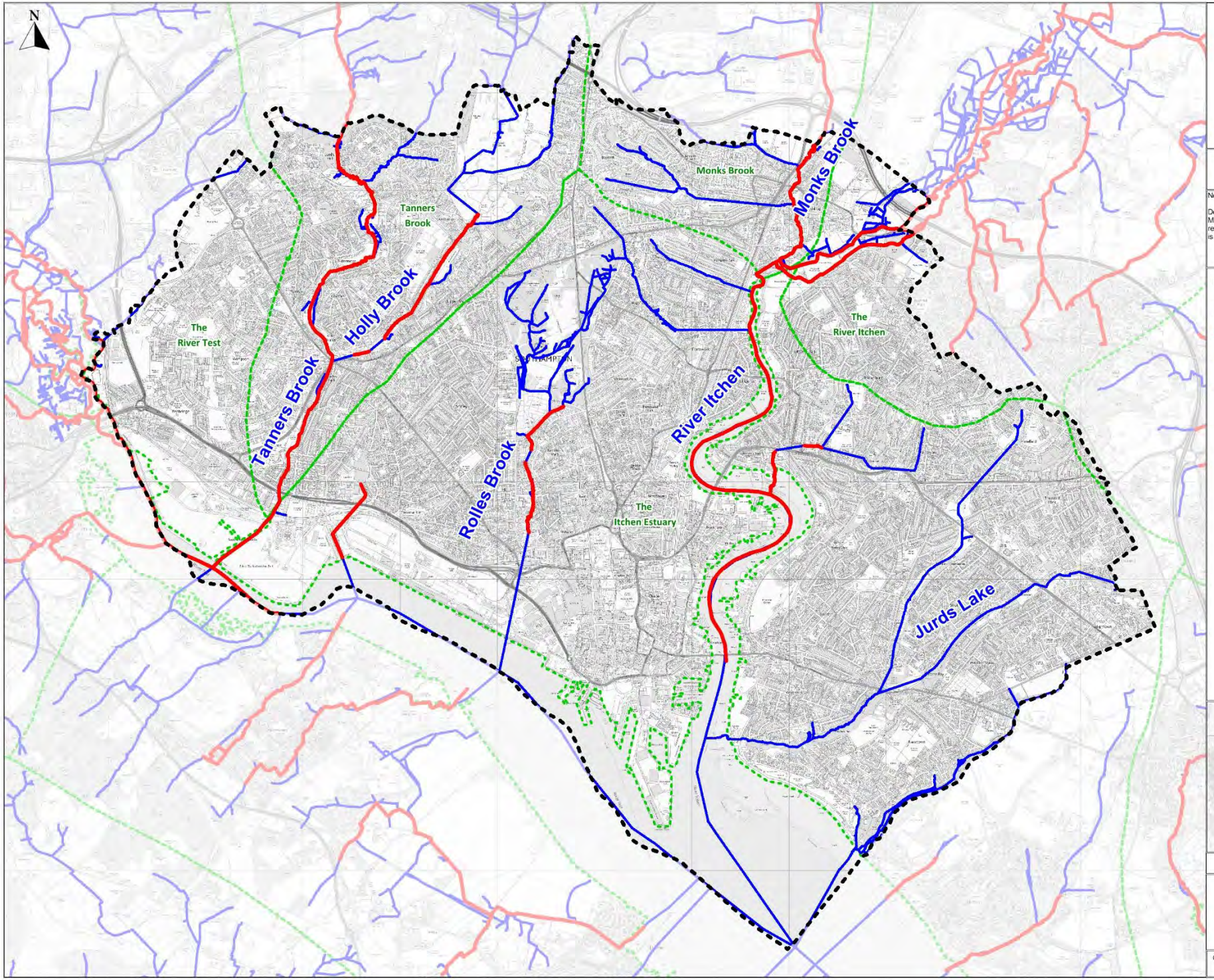
Note:
This map shows the wider catchment of Southampton's two largest rivers, based upon the Envrionment Agency Catchment Flood Management Plan 2011.

Legend

- Southampton City Council Administrative Boundary
- Main River
- River Test and Itchen Catchment Flood Management Plan Boundary

Scale @ A4: 1 Centimetre = 0.3 kilometre

Map 3: River Test and Itchen Wider Catchment Overview



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Southampton Level 2 SFRA
January 2017

Notes:

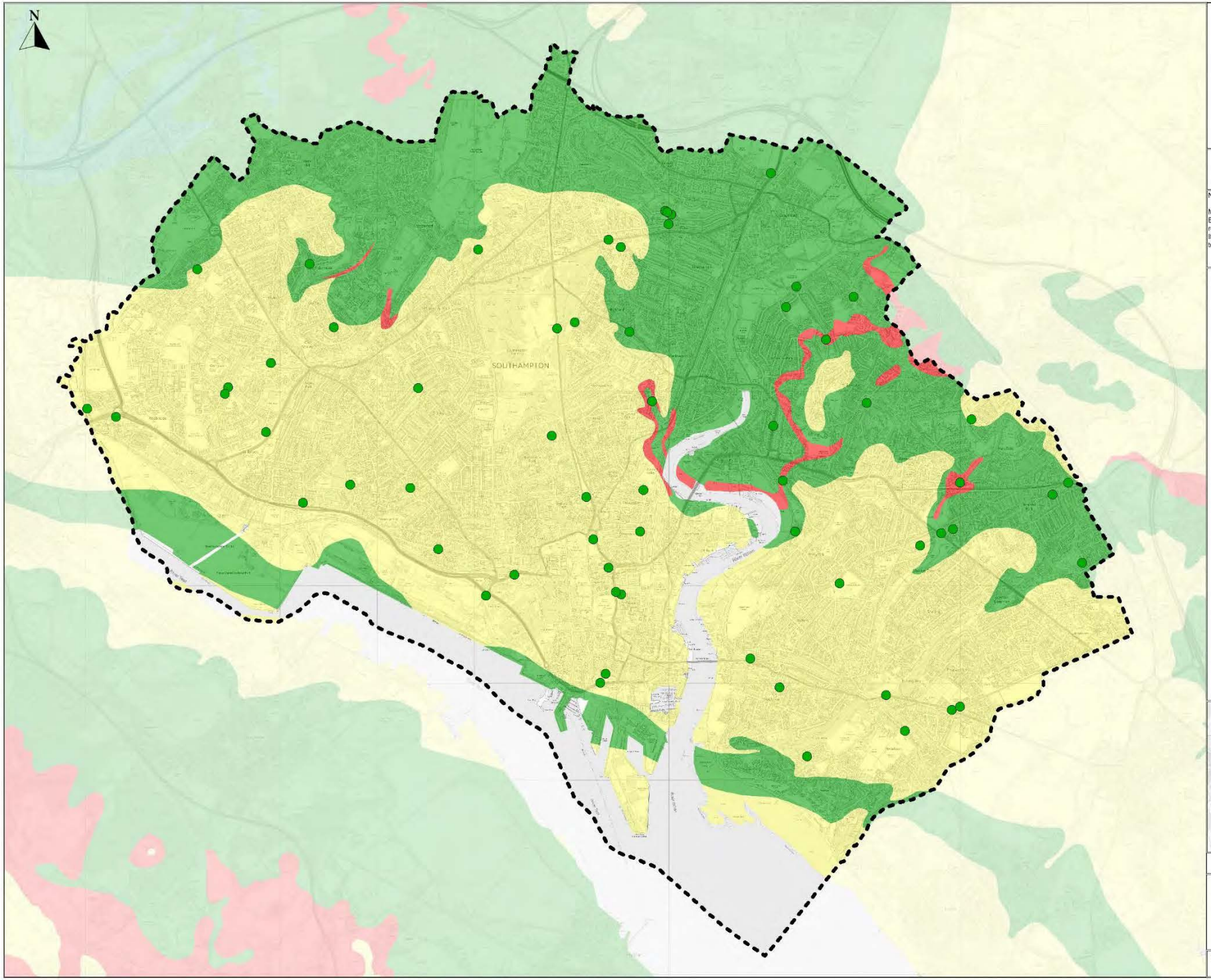
Detailed River Network data produced June 2013
Main River Map data produced July 2016. It is the responsibility of the user to check whether more information is available.

Legend

- Southampton City Council Administrative Boundary
- Environment Agency Main River
- Ordinary Watercourse
- River Catchment Boundary

Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 4:
Hydrological Features Overview



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Southampton Level 2 SFRA
January 2017

Note:

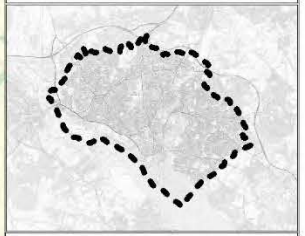
Map overview of bedrock geology and permeability using Environment Agency data released August 2015 and SCC reported groundwater flood records up to December 2015. It is the responsibility of the user to check whether more up to date information is available.

Legend

- Southampton City Council Administrative Boundary
- Recorded Groundwater Flood

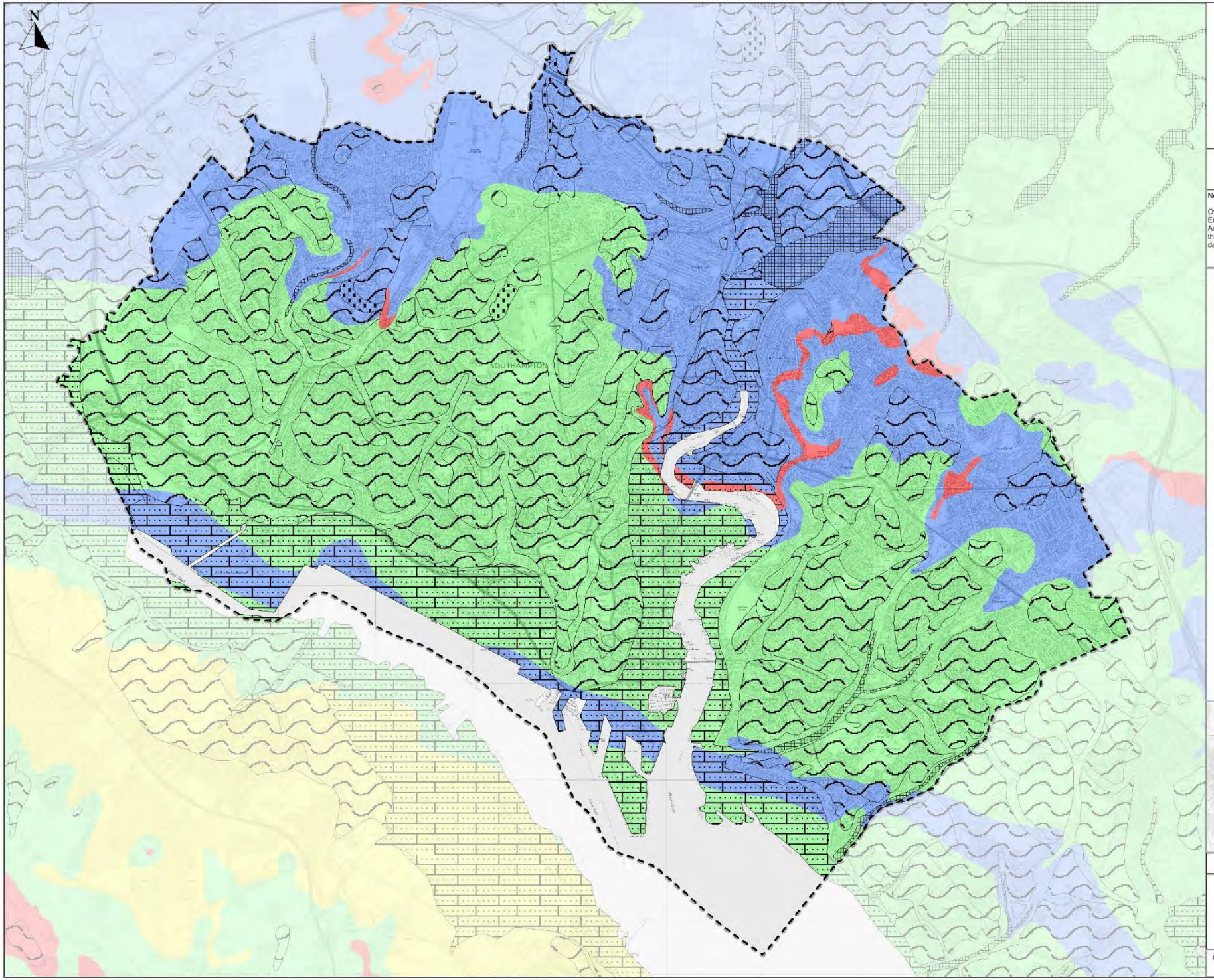
Bedrock Permeability

- High
- Moderate
- Low



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 5:
Geological Overview - Bedrock Permeability



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Southampton Level 2 SFRA
January 2017

Note:

Overview of bedrock and superficial geology using Environment Agency data for superficial deposits released August 2015 and bedrock geology data August 2015. It is the responsibility of the user to check whether m0ore up to date information is available.

Legend

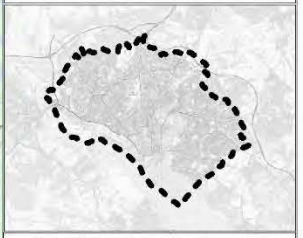
Southampton City Council Administrative Boundary

Superficial Deposits

- Alluvium
- Head
- River Terrace Deposits
- Tidal Flat Depositis
- TUFA

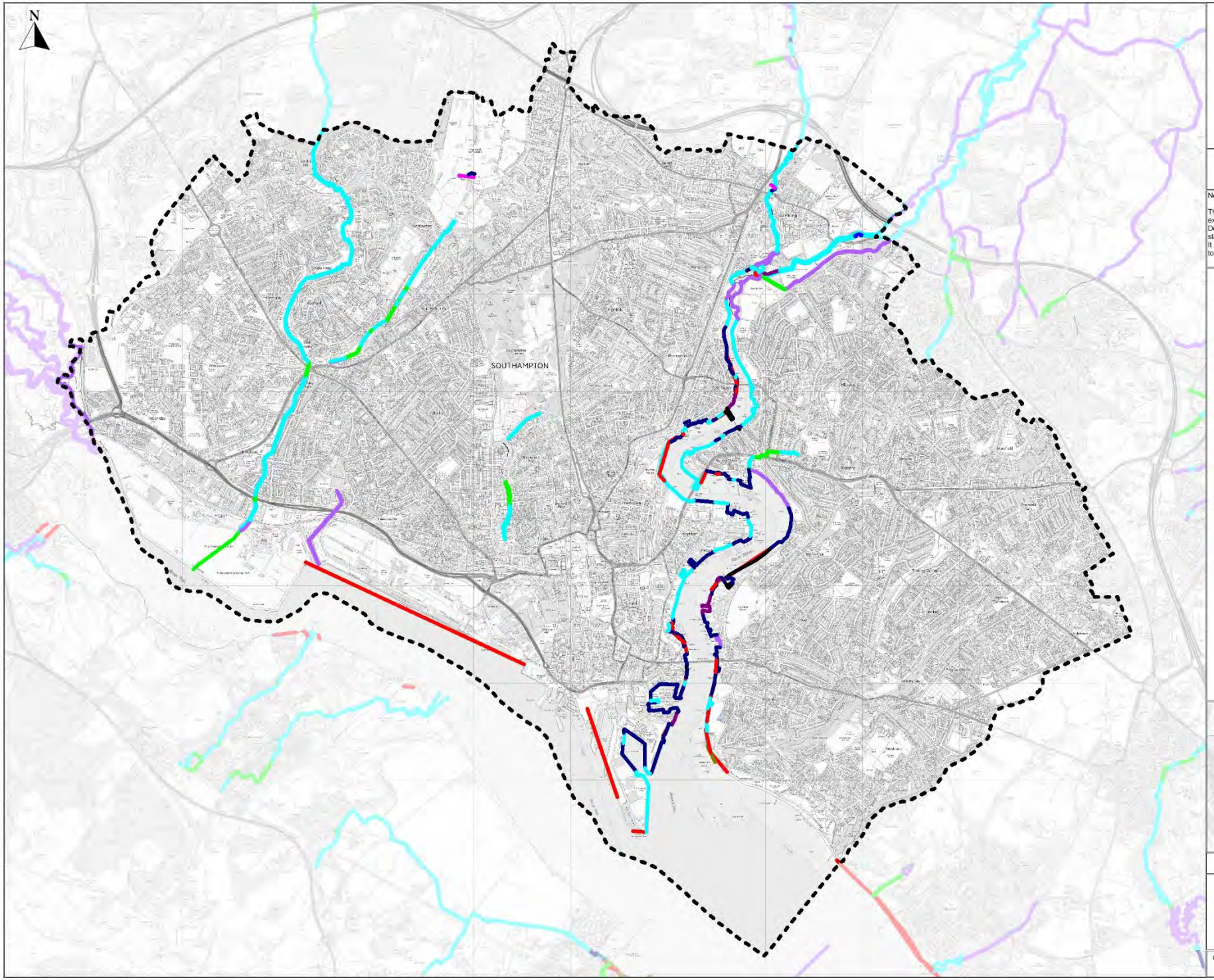
Bedrock Composition

- Clay
- Sand, Silt and Clay
- Sand
- Clay, Silt and Sand



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 6:
Geological Overview - Superficial Deposits and Bedrock Composition



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Southampton Level 2 SFRA January 2017

Note:

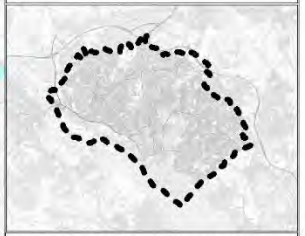
This map provides an overview of the defence types that exist in Southampton usin Environment Agency Spatial Defence data released July 2016. The condition and standard of protection provided varies between defences. It is the responsibility of the user to check whether more up to date information is available.

Legend

Southampton City Council Administrative Boundary

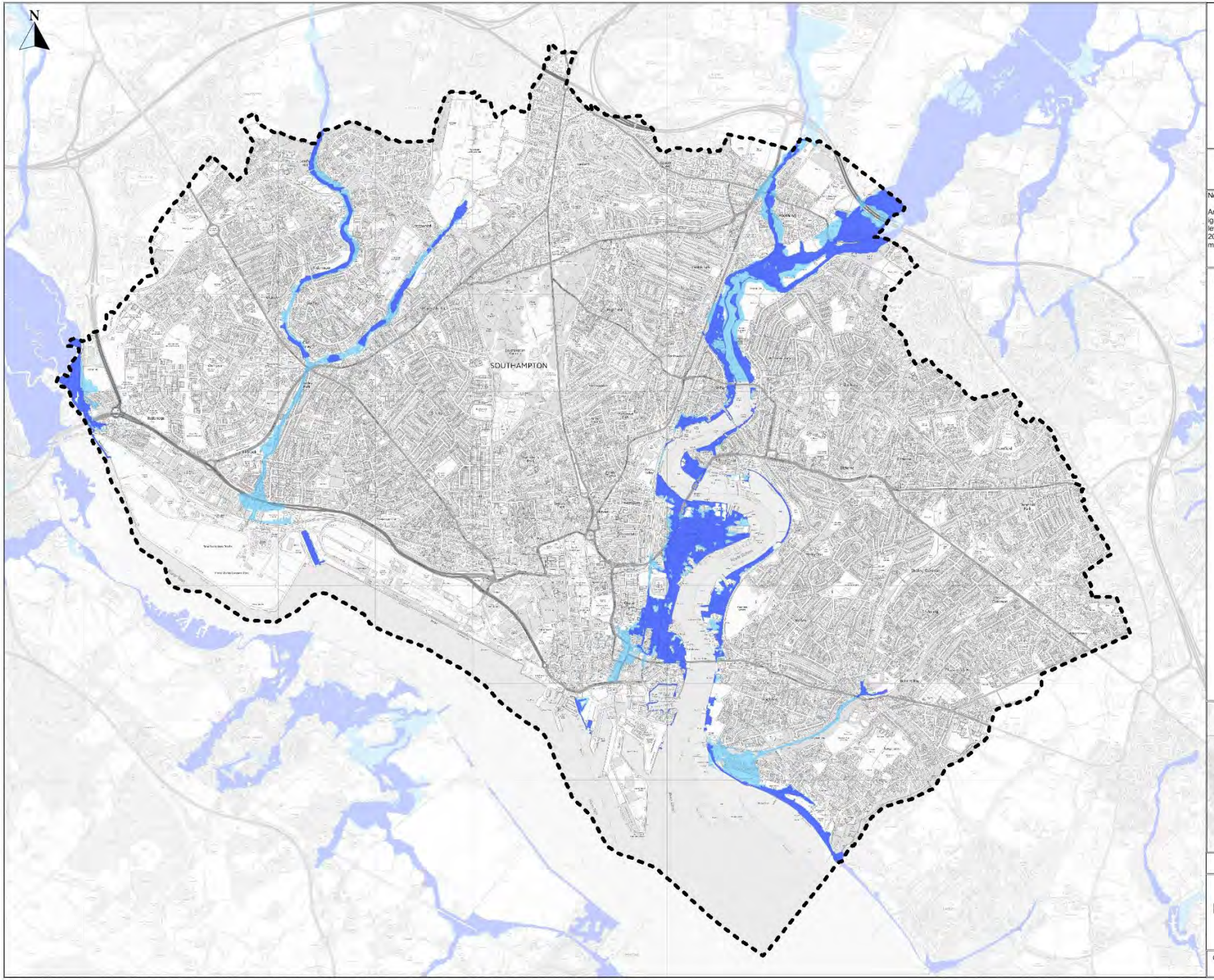
Defence Type

- Coastal protection (man-made)
- Culverted channel
- Demountable defence
- Embankment
- Flood defence structure
- Maintained channel
- Natural channel
- Non-flood defence structure
- Raised defence (man-made)
- Raised defence (natural)
- Sea defence (man-made)
- Sea defence (natural)



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 7: Flood and Coastal Erosion Defence Overview



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Southampton Level 2 SFRA January 2017

Note:

Areas at risk of present day fluvial or coastal flooding, ignoring the presence of defences and climate change/sea level rise. Using Environment Agency data released July 2016. It is the responsibility of the user to check whether more up to date information is available.

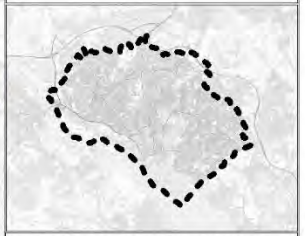
Legend

Southampton City Council Administrative Boundary

Environment Agency Flood Zones

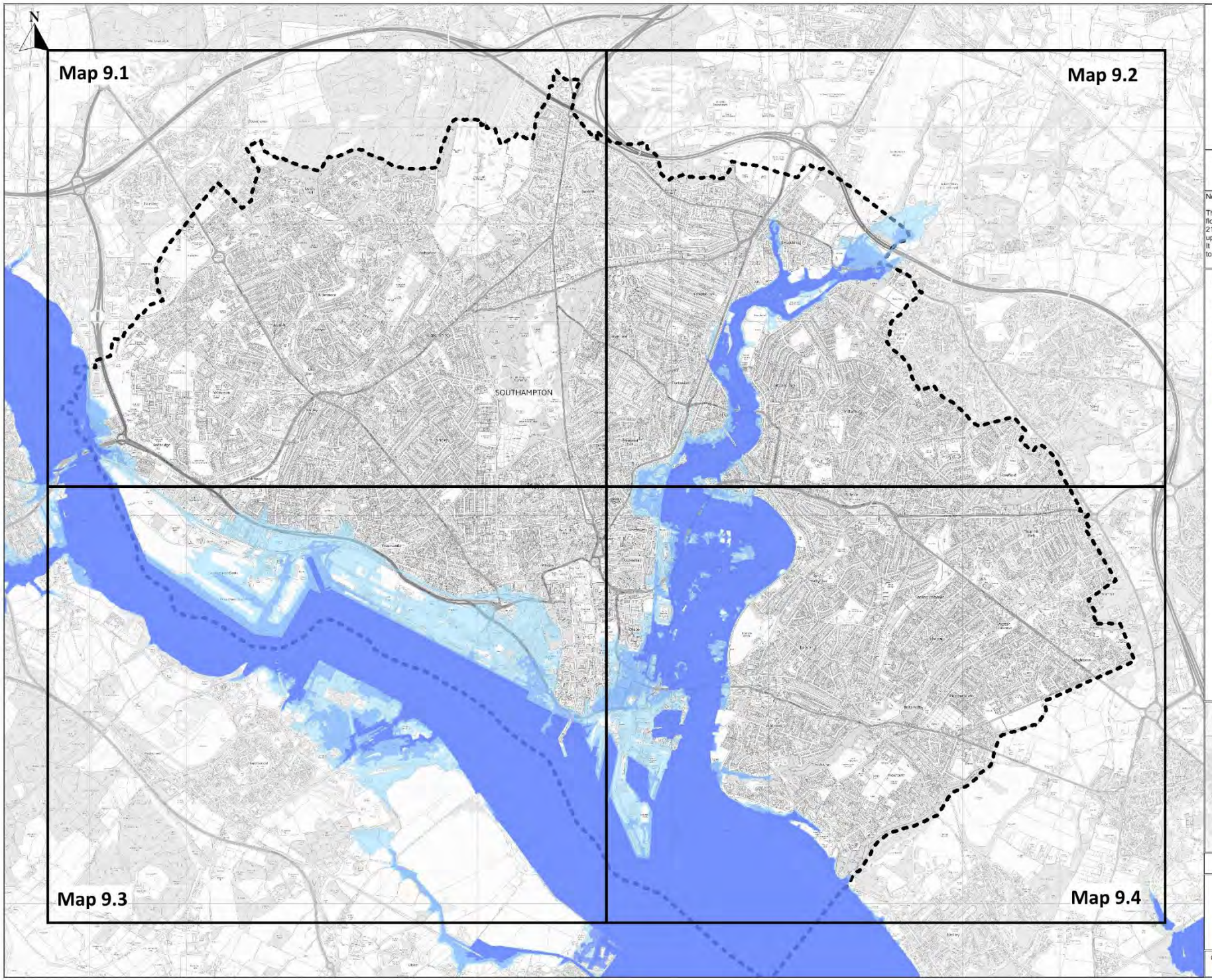
Flood Zone 2

Flood Zone 3



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 8: Environment Agency Flood Zones (Present Day)



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Southampton Level 2 SFRA
January 2017

Note:

This map shows the areas likely to be at risk from tidal flooding under present day conditions, and future 2075 and 2115 with allowance for climate change. The map is based upon Environment Agency Coastal Modelling data 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

Southampton City Council Administrative Boundary

Tidal Flood Risk

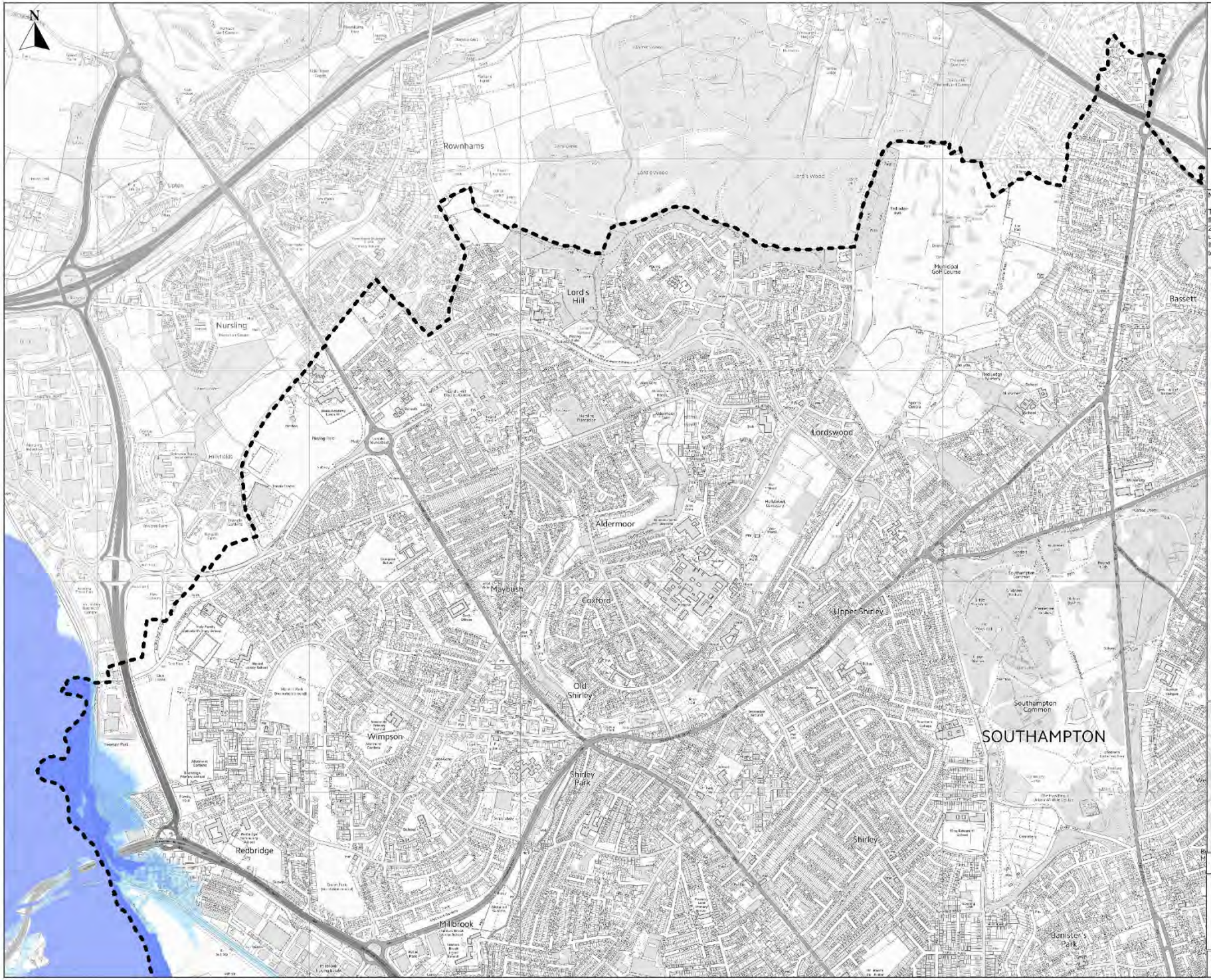
Present Day (2015)

2075 (Incl Climate Change Allowance)

2115 (Incl Climate Change Allowance)

Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 9:
Present Day and Future Tidal Flood Risk



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Southampton Level 2 SFRA
January 2017

Note:

This map shows the areas likely to be at risk from tidal flooding under present day conditions, and future 2075 and 2115 with allowance for climate change. The map is based upon Environment Agency Coastal Modelling data 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

Southampton City Council Administrative Boundary

Tidal Flood Risk

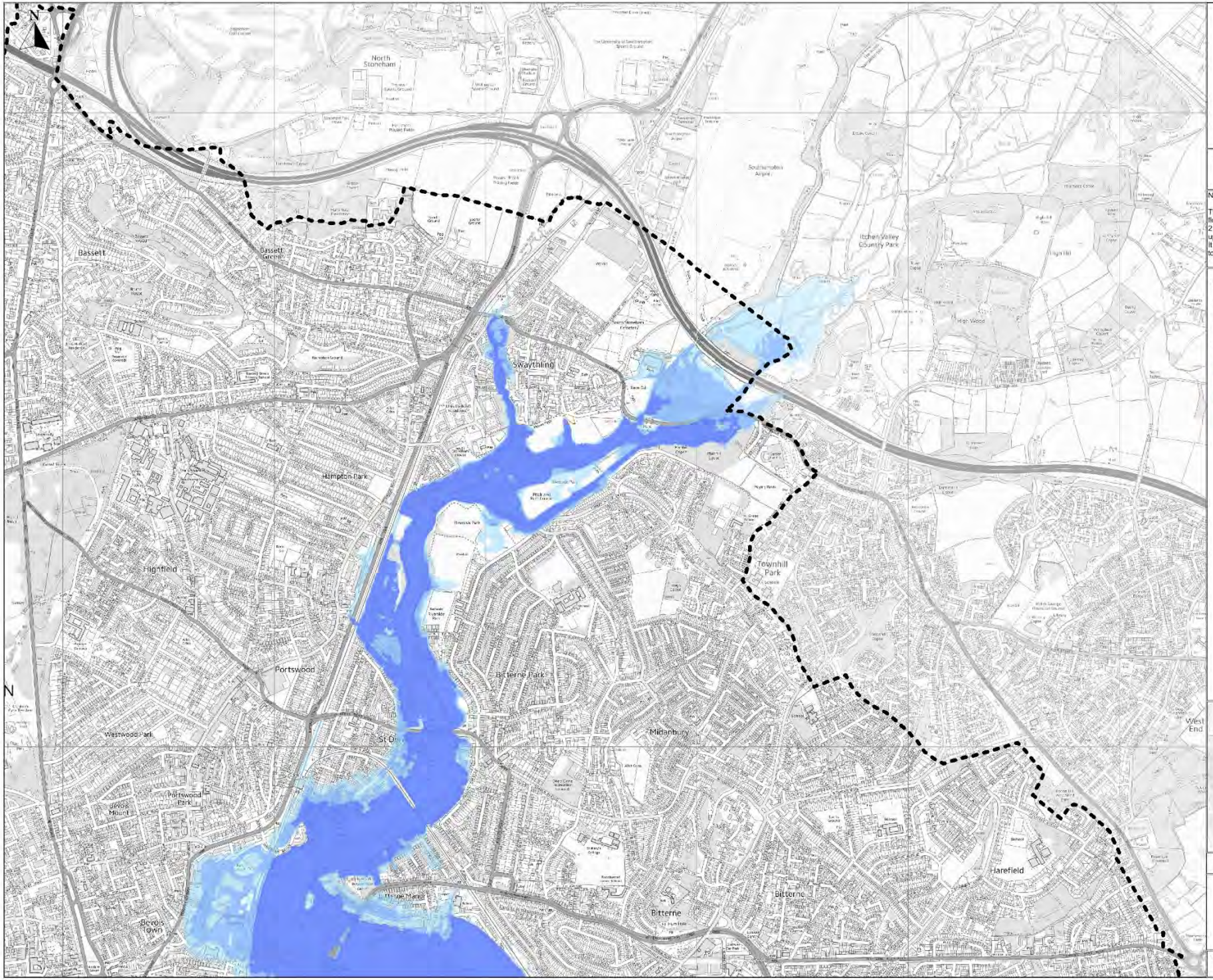
Present Day (2015)

2075 (Incl Climate Change Allowance)

2115 (Incl Climate Change Allowance)

Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 9.1:
Present Day and Future Tidal Flood Risk



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Southampton Level 2 SFRA January 2017

Note:

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Legend

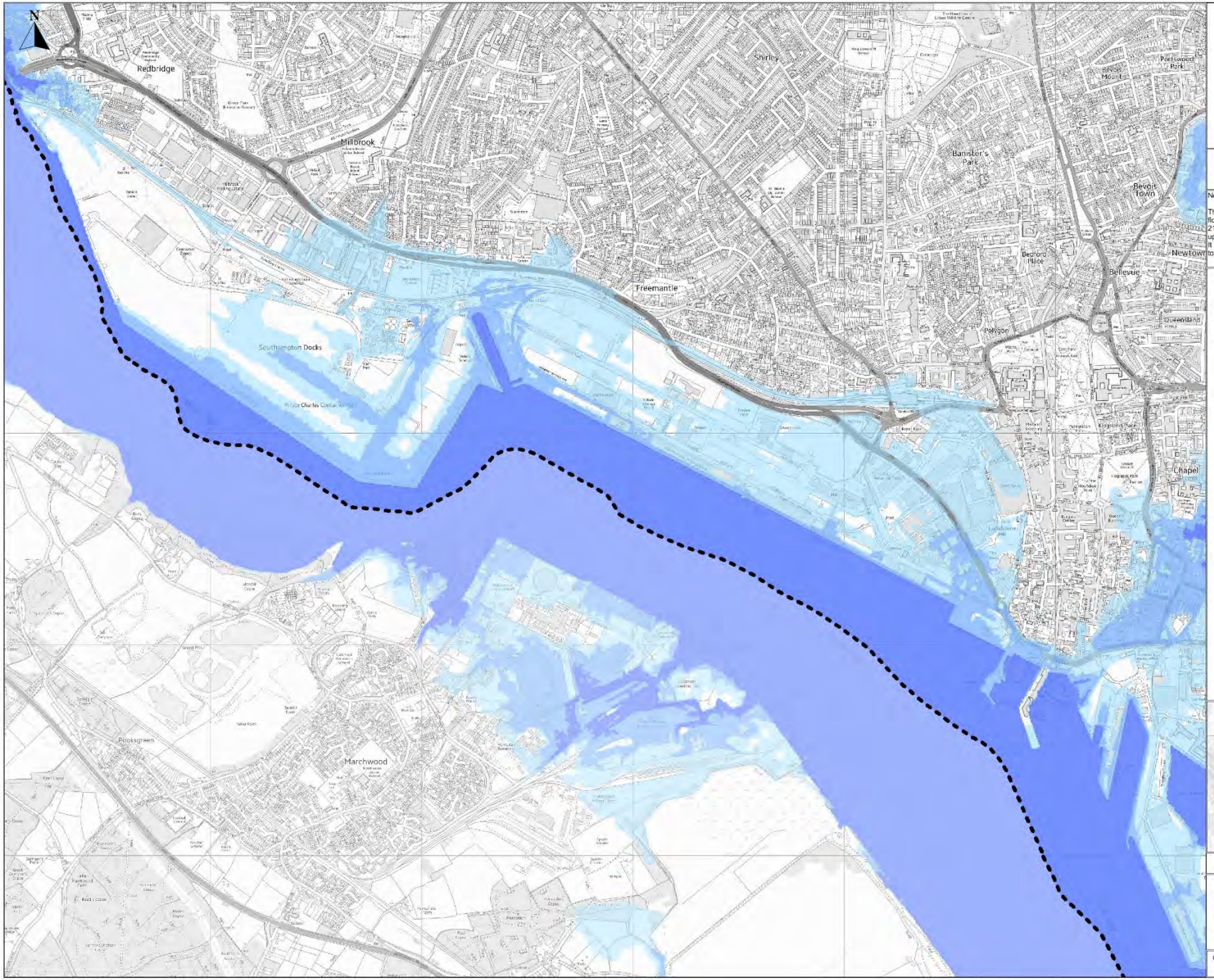
Southampton City Council Administrative Boundary

Tidal Flood Risk

- Present Day (2015)
- 2075 (Incl Climate Change Allowance)
- 2115 (Incl Climate Change Allowance)

Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 9.2: Present Day and Future Tidal Flood Risk



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Southampton Level 2 SFRA January 2017

Note:

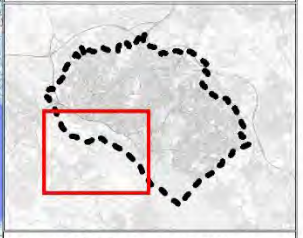
This map shows the areas likely to be at risk from tidal flooding under present day conditions, and future 2075 and 2115 with allowance for climate change. The map is based upon Environment Agency Coastal Modelling data 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

- Southampton City Council Administrative Boundary

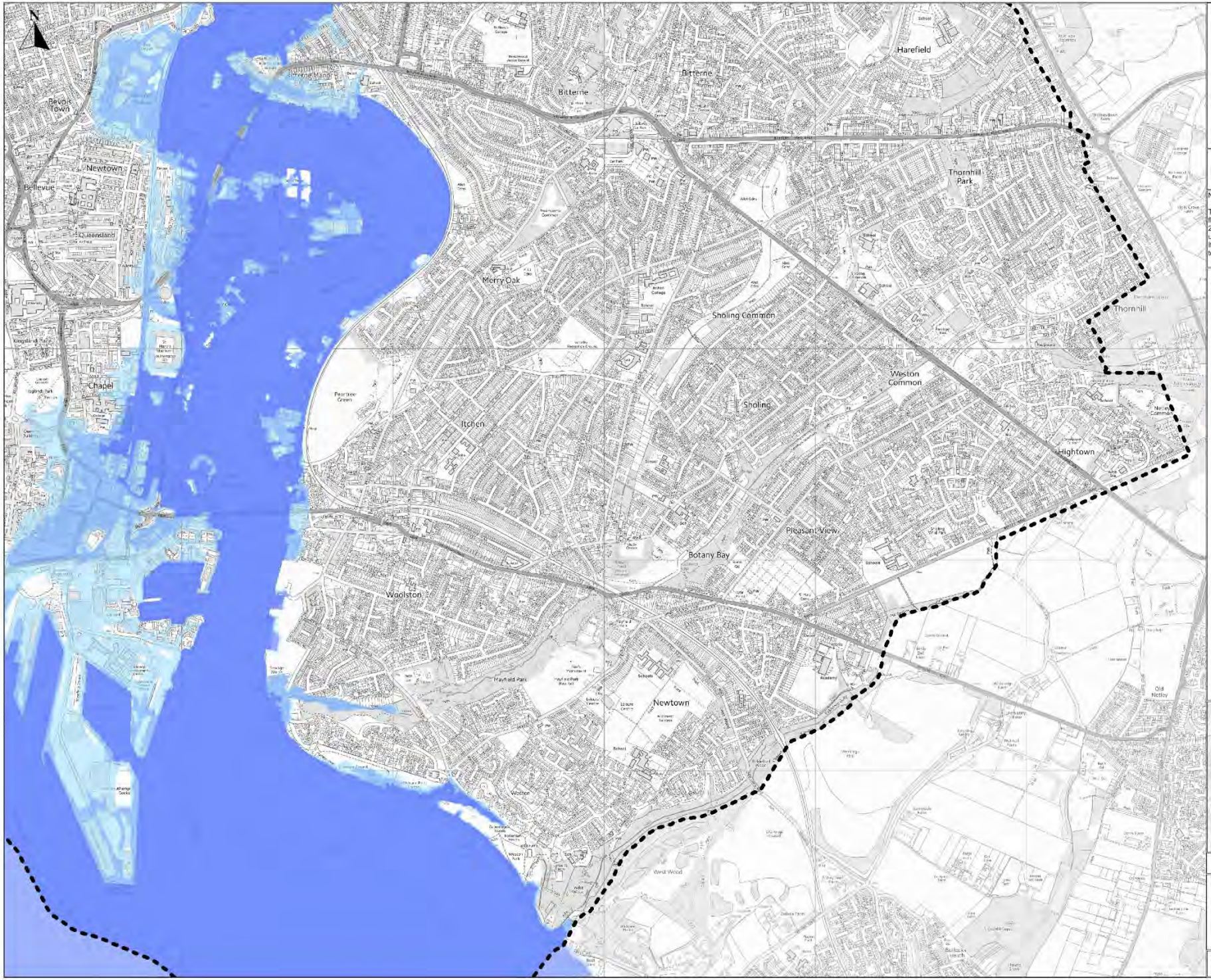
Tidal Flood Risk

- Present Day (2015)
- 2075 (Incl Climate Change Allowance)
- 2115 (Incl Climate Change Allowance)



Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 9.3: Present Day and Future Tidal Flood Risk



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Southampton Level 2 SFRA January 2017

Note:

This map shows the areas likely to be at risk from tidal flooding under present day conditions, and future 2075 and 2115 with allowance for climate change. The map is based upon Environment Agency Coastal Modelling data 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

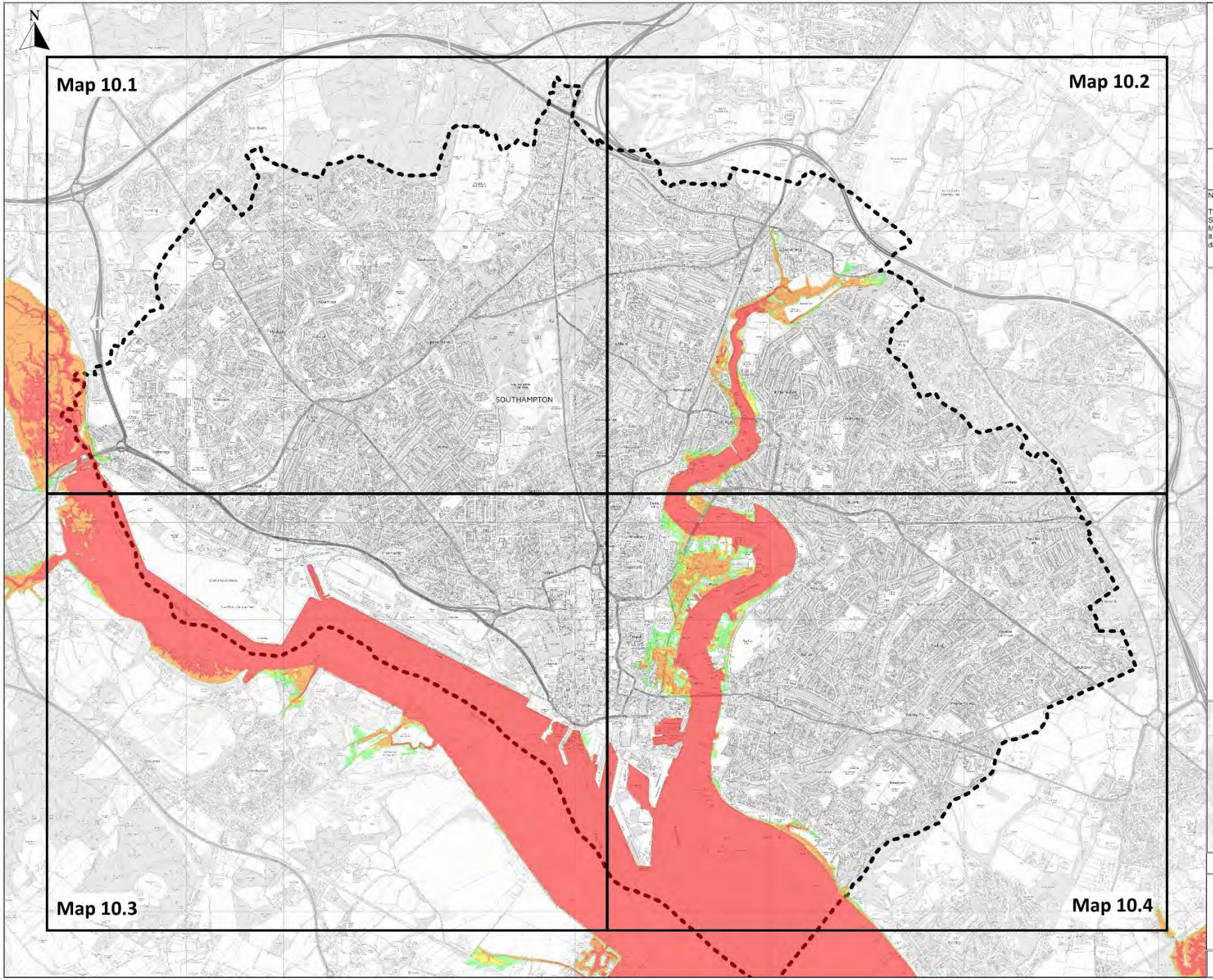
Southampton City Council Administrative Boundary

Tidal Flood Risk

- Present Day (2015)
- 2075 (Incl Climate Change Allowance)
- 2115 (Incl Climate Change Allowance)

Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 9.4: Present Day and Future Tidal Flood Risk



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Southampton Level 2 SFRA
January 2017

Note:

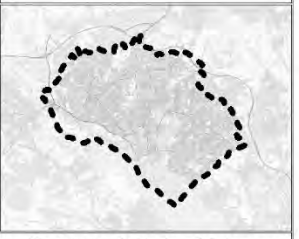
This map shows the present day (2015) tidal hazard for Southampton. It is based on Environment Agency Coastal Modelling data 2016.
It is the responsibility of the user to check whether more up to date information is available.

Legend

Southampton City Council Administrative Boundary

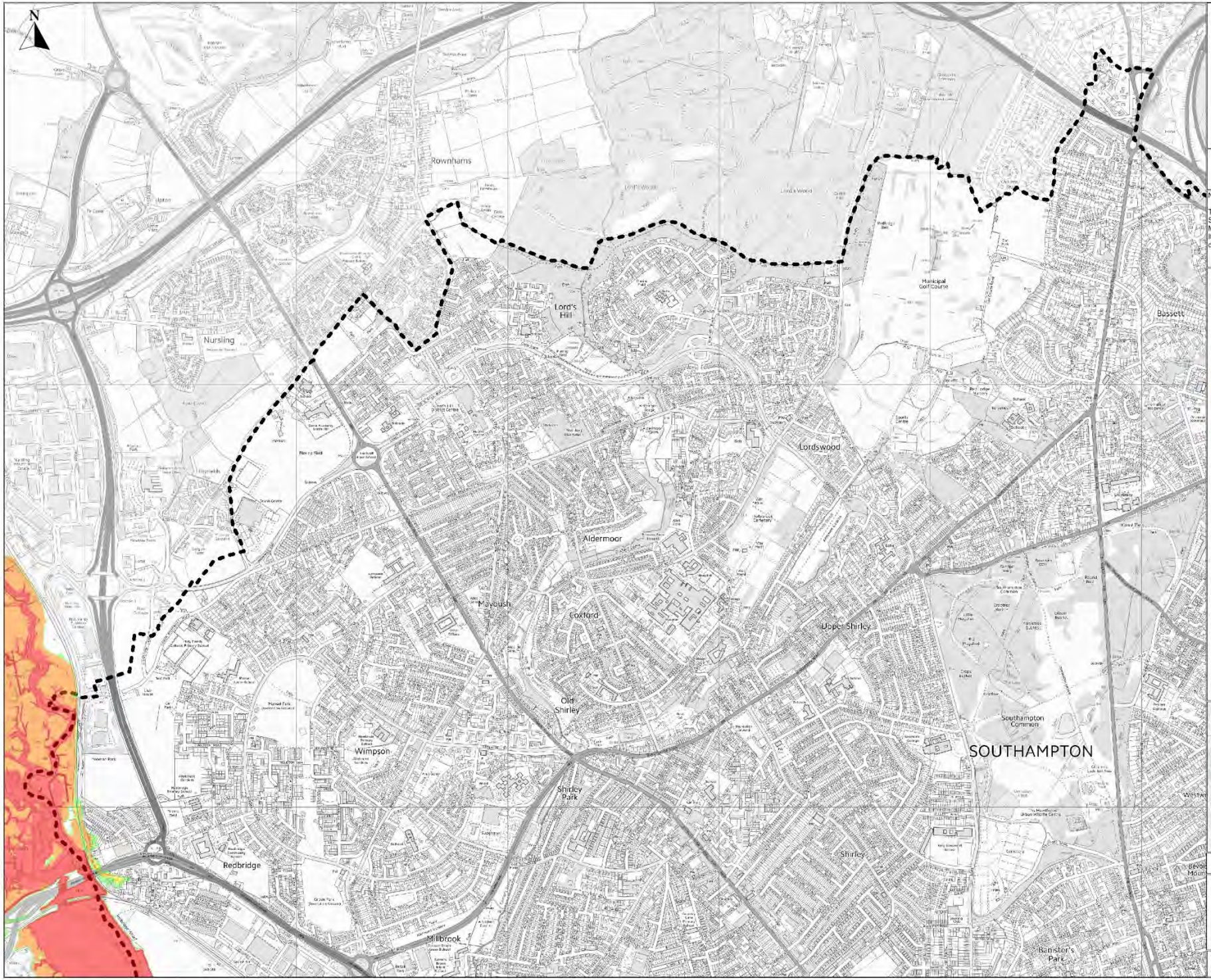
Tidal Flood Hazard 1 in 200 Year ARI (2015)

- Extreme
- Significant
- Moderate
- Low



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 10:
Present Day Tidal Flood Hazard (2015)



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Southampton Level 2 SFRA January 2017

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Legend

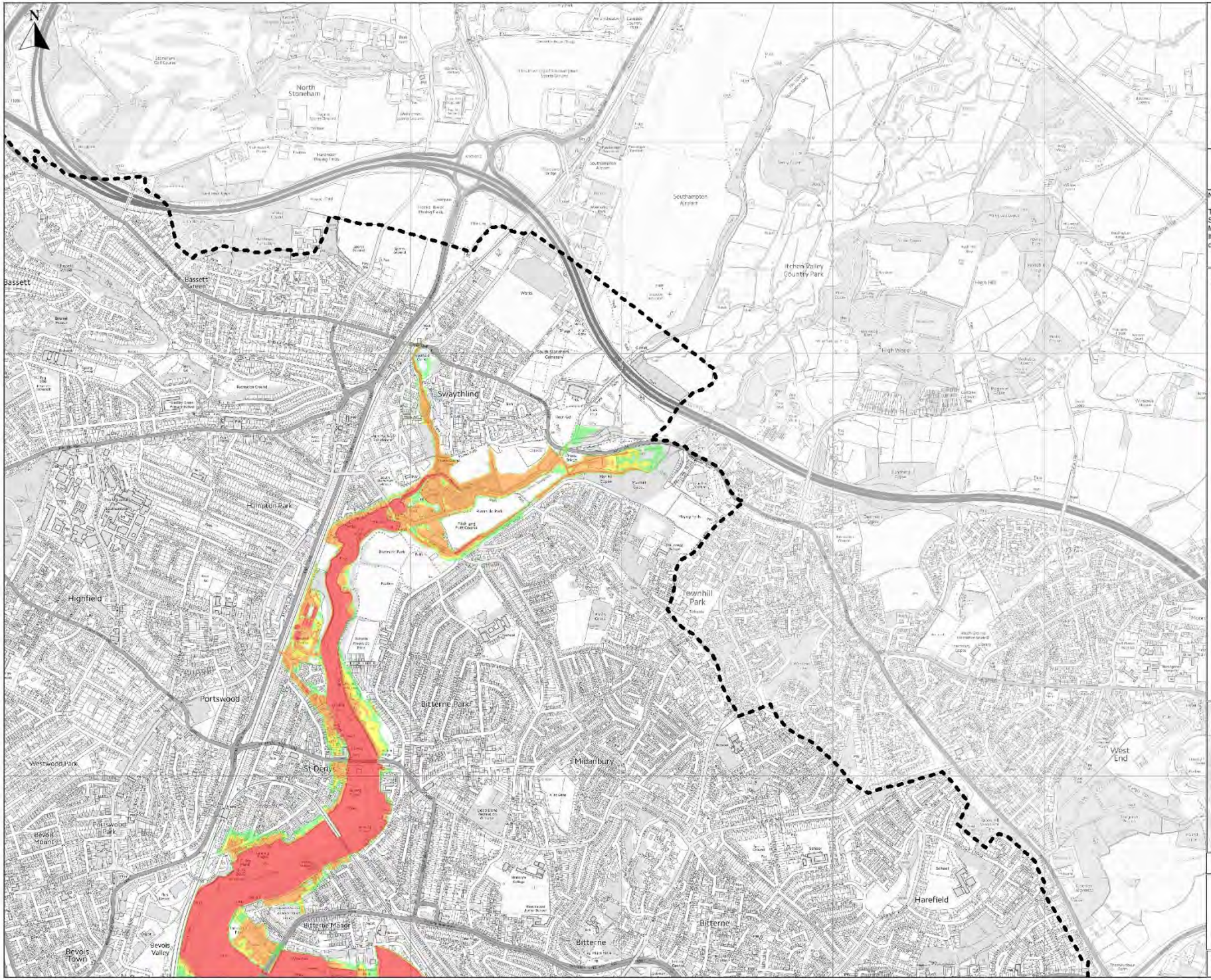
Southampton City Council Administrative Boundary

Tidal Flood Hazard 1 in 200 Year ARI (2015)

- Extreme
- Significant
- Moderate
- Low

Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 10.1: Present Day Tidal Flood Hazard (2015)



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Southampton Level 2 SFRA January 2017

Note:

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Legend

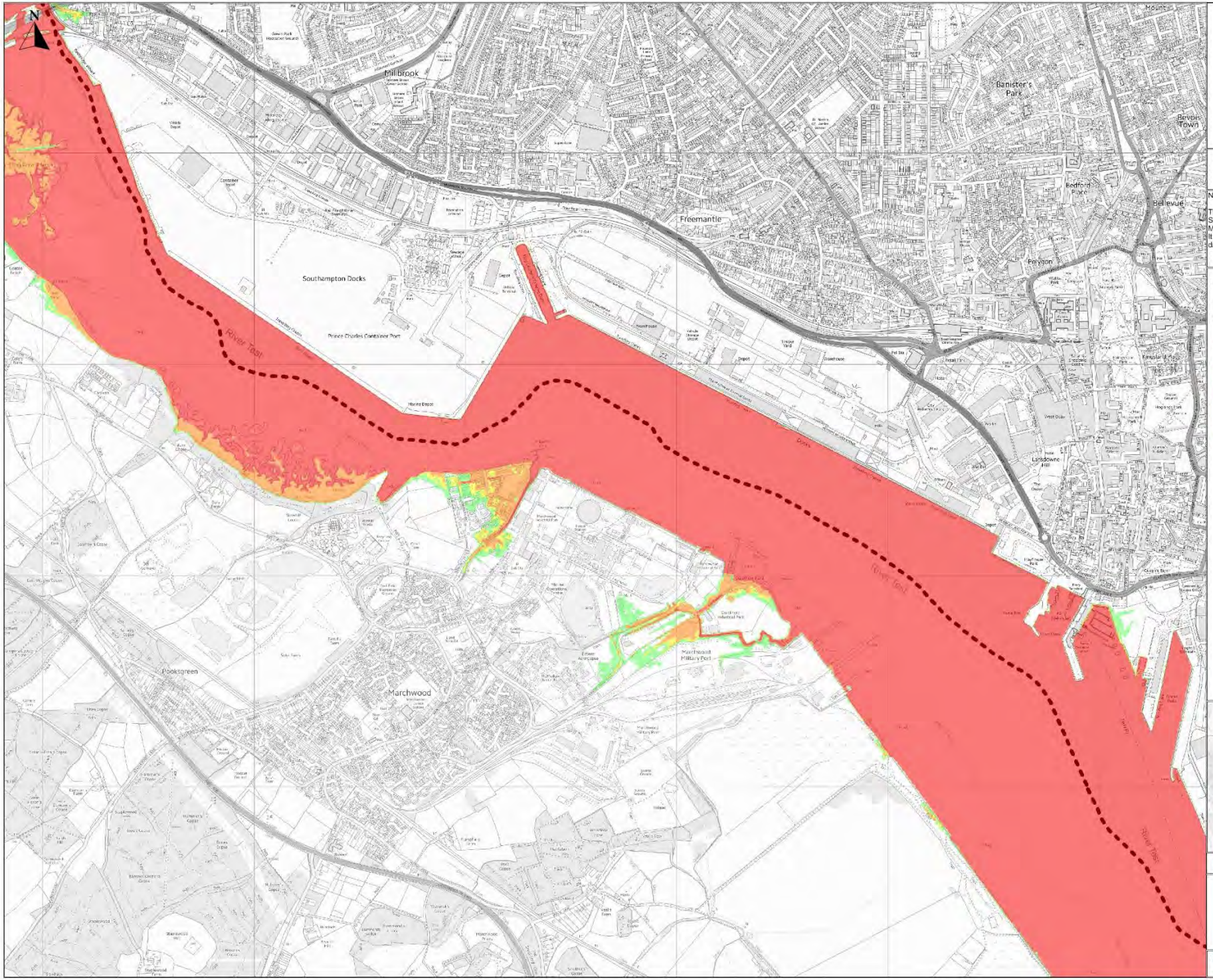
Southampton City Council Administrative Boundary

Tidal Flood Hazard 1 in 200 Year ARI (2015)

- Extreme
- Significant
- Moderate
- Low

Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 10.2: Present Day Tidal Flood Hazard (2015)



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Southampton Level 2 SFRA January 2017

Note:

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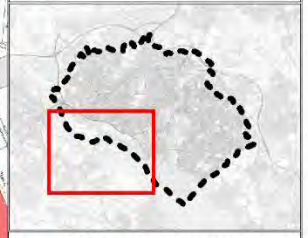
Legend

Southampton City Council Administrative Boundary

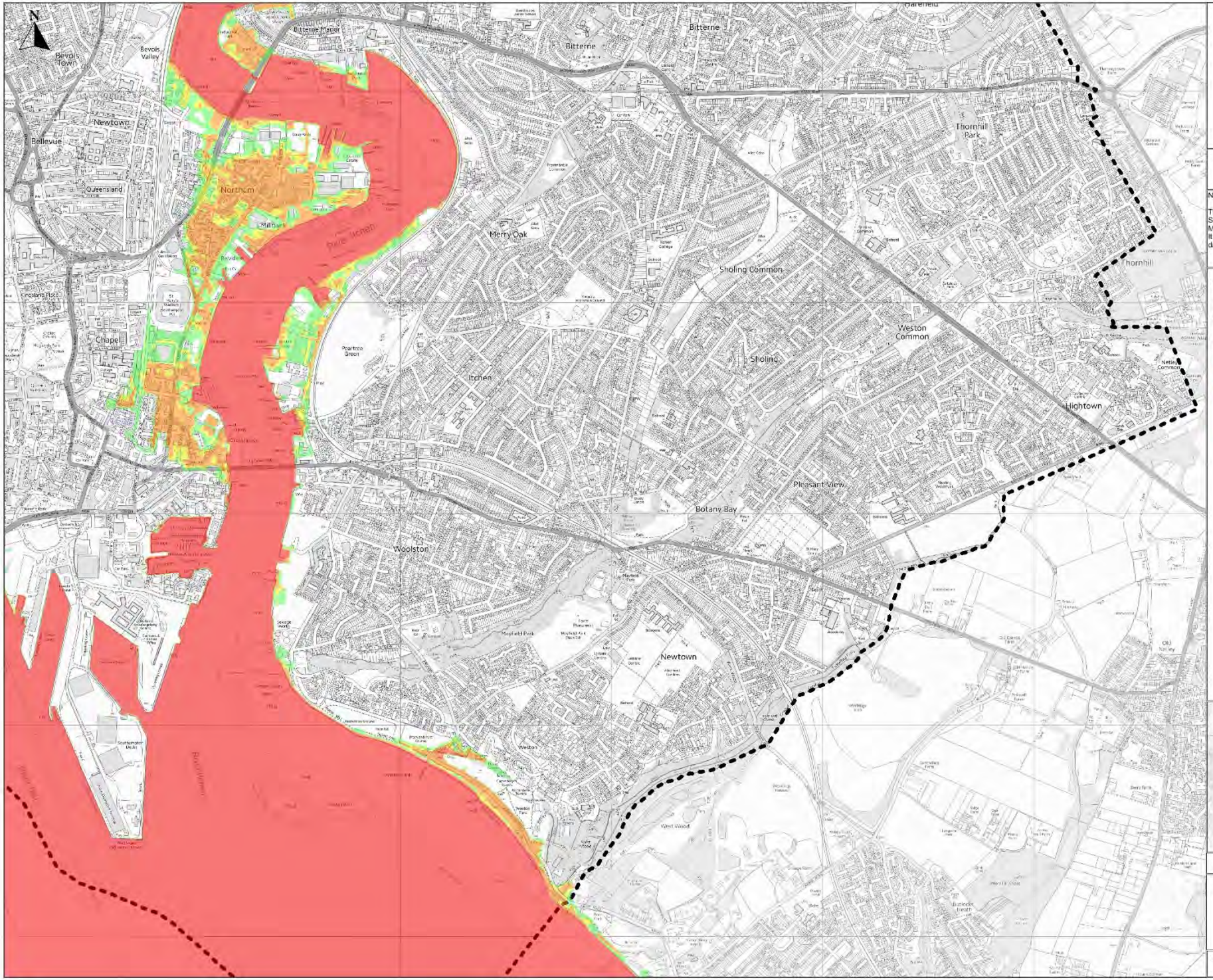
Tidal Flood Hazard 1 in 200 Year ARI (2015)

- Extreme
- Significant
- Moderate
- Low



Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 10.3: Present Day Tidal Flood Hazard (2015)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

Note:

This map shows the present day (2015) tidal hazard for Southampton. It is based on Environment Agency Coastal Modelling data 2016.
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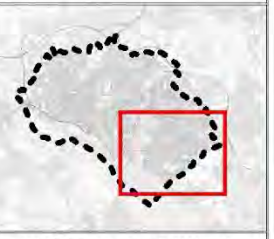
Legend

- Southampton City Council Administrative Boundary

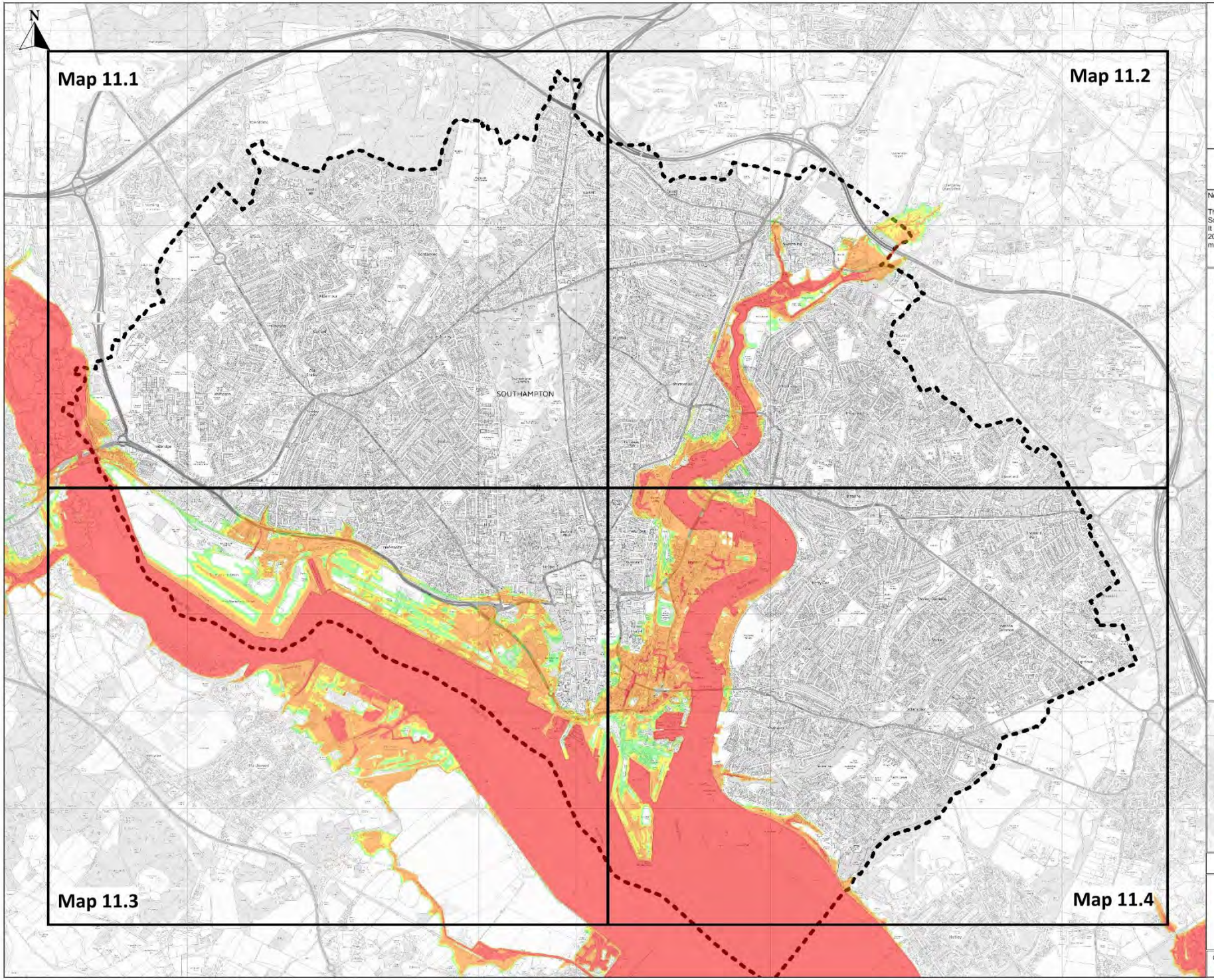
Tidal Flood Hazard 1 in 200 Year ARI (2015)

- Extreme
- Significant
- Moderate
- Low



Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 10.4: Present Day Tidal Flood Hazard (2015)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA
January 2017

Note:

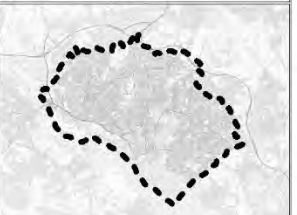
This map shows the future (2115) tidal flood hazard for Southampton, including an allowance for climate change. It is based on Environment Agency Coastal Modelling data 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

Southampton City Council Administrative Boundary

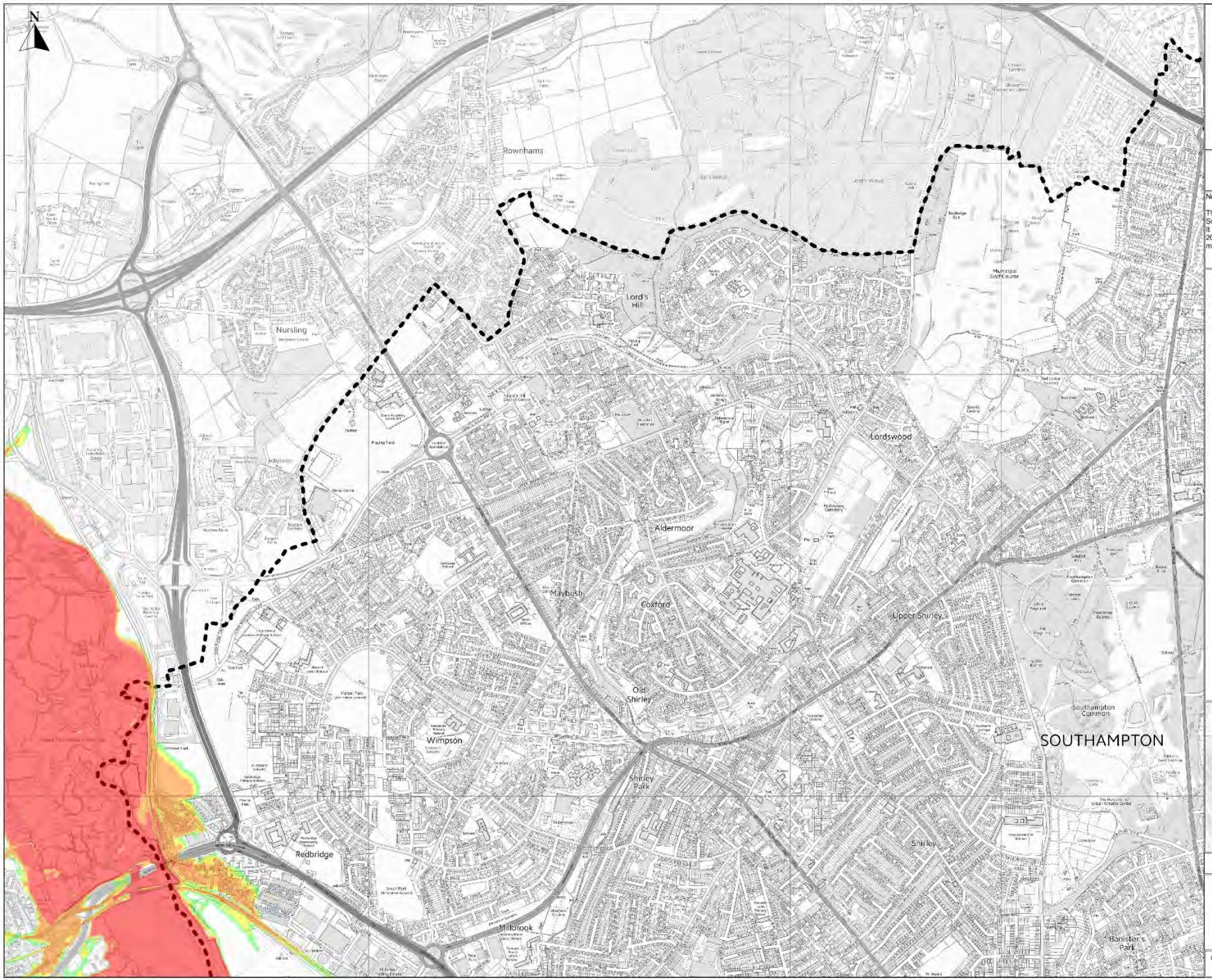
Tidal Flood Hazard 1 in 200 Year ARI (2115)

- Extreme
- Significant
- Moderate
- Low



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 11:
Future Tidal Flood Hazard (2115)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

Note:

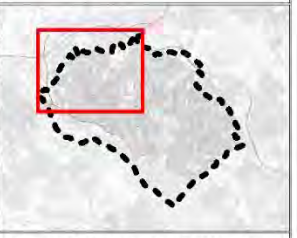
This map shows the future (2115) tidal flood hazard for Southampton, including an allowance for climate change. It is based on Environment Agency Coastal Modelling data 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

- Southampton City Council Administrative Boundary

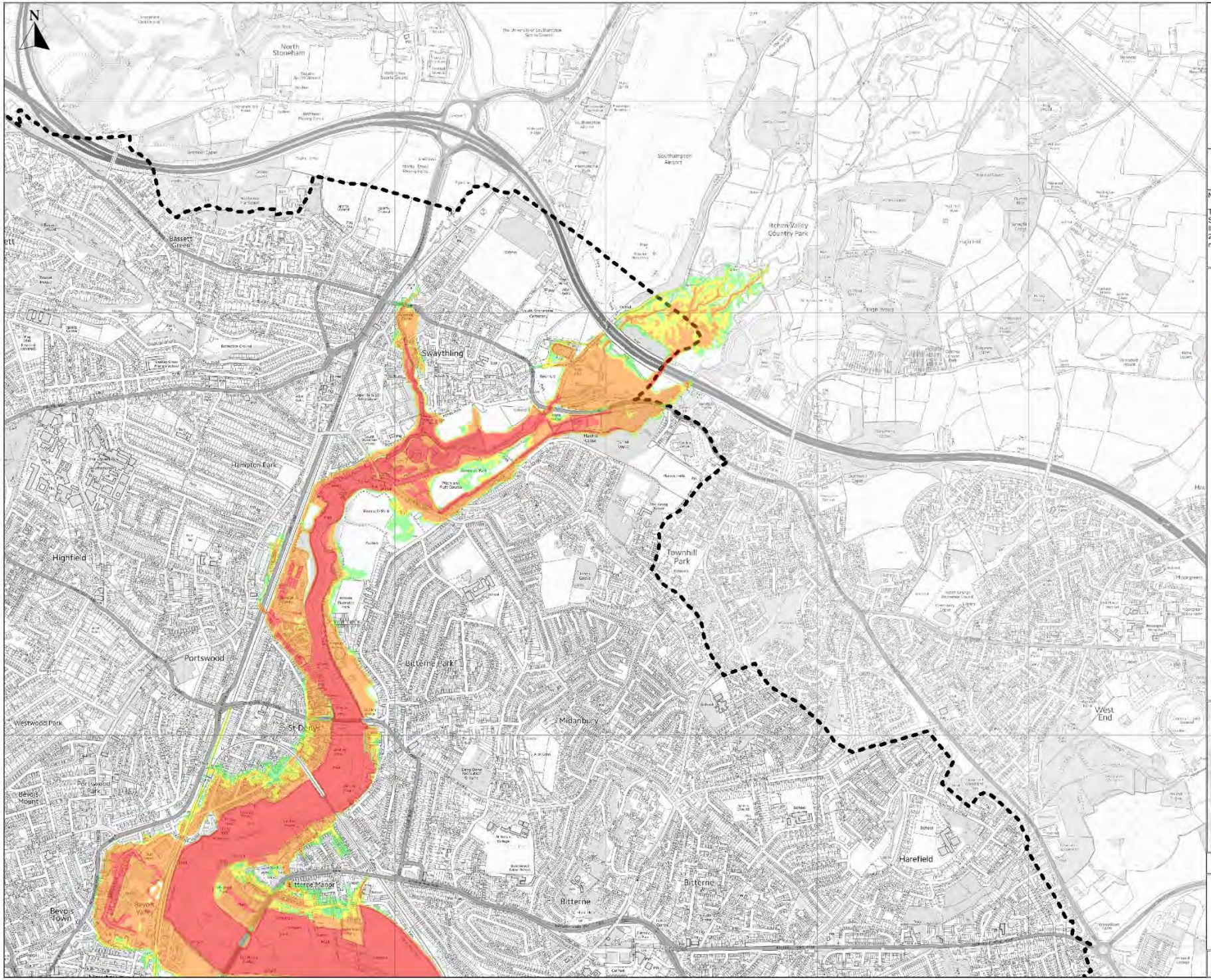
Tidal Flood Hazard 1 in 200 Year ARI (2115)

- Extreme
- Significant
- Moderate
- Low



Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 11.1: Future Tidal Flood Hazard (2115)



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Southampton Level 2 SFRA January 2017

Note:

This map shows the future (2115) tidal flood hazard for Southampton, including an allowance for climate change. It is based on Environment Agency Coastal Modelling data 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

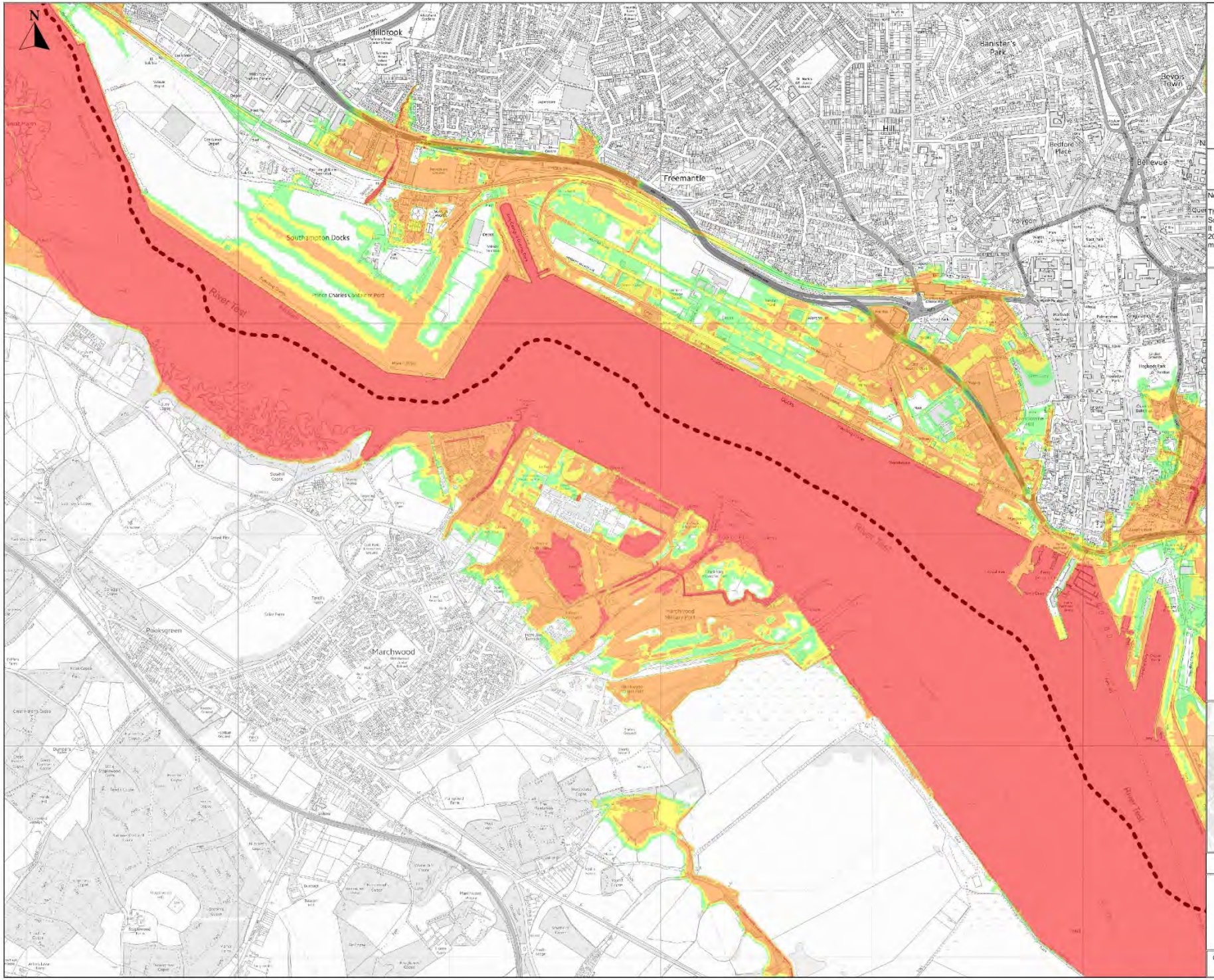
- Southampton City Council Administrative Boundary

Tidal Flood Hazard 1 in 200 Year ARI (2115)

- Extreme
- Significant
- Moderate
- Low

Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 11.2: Future Tidal Flood Hazard (2115)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

Note:

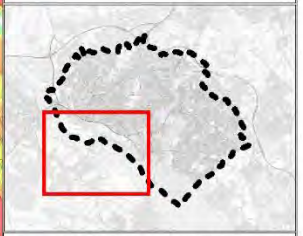
This map shows the future (2115) tidal flood hazard for Southampton, including an allowance for climate change. It is based on Environment Agency Coastal Modelling data 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

- Southampton City Council Administrative Boundary

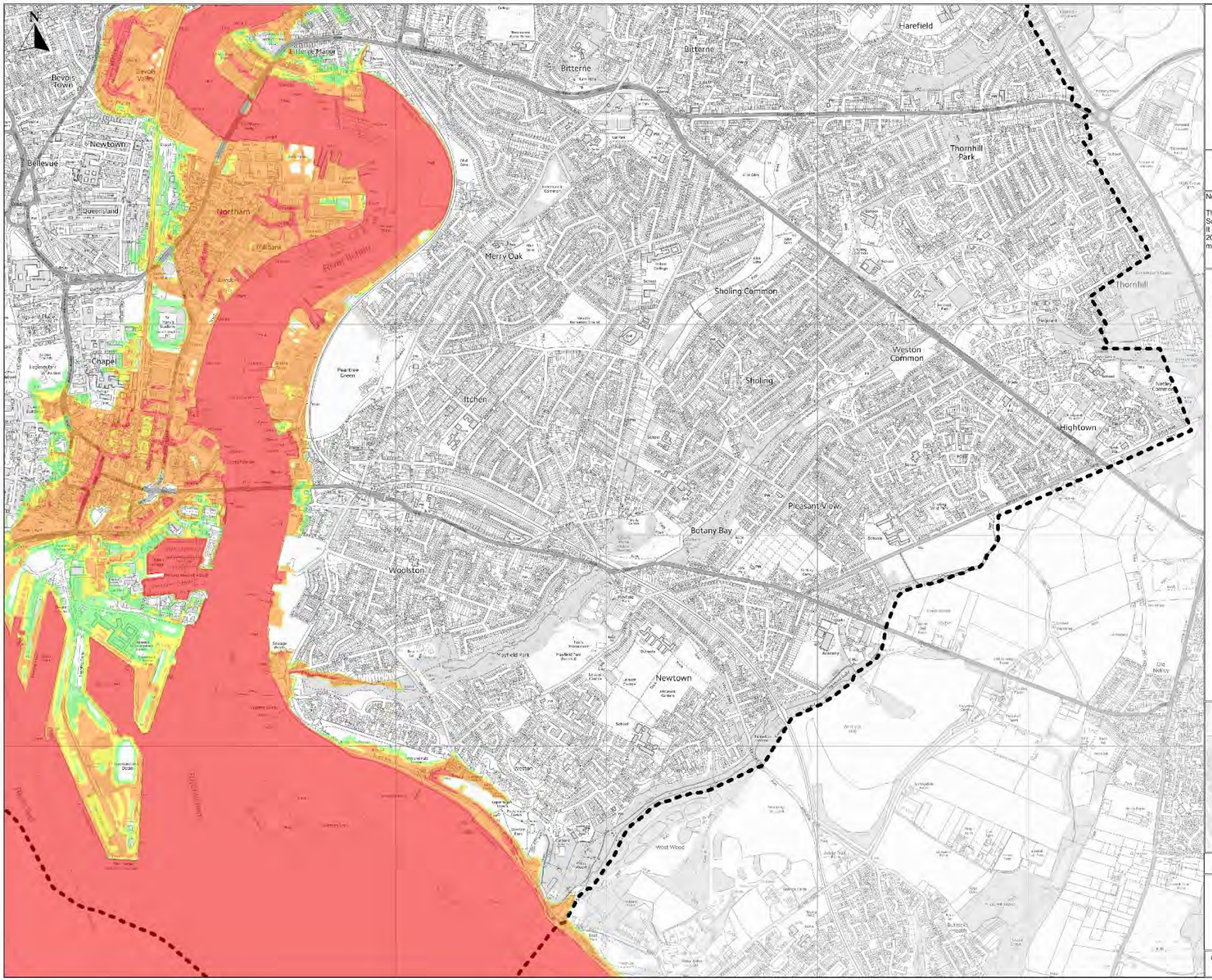
Tidal Flood Hazard 1 in 200 Year ARI (2115)

- Extreme
- Significant
- Moderate
- Low



Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 11.3: Future Tidal Flood Hazard (2115)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

Note:

This map shows the future (2115) tidal flood hazard for Southampton, including an allowance for climate change. It is based on Environment Agency Coastal Modelling data 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

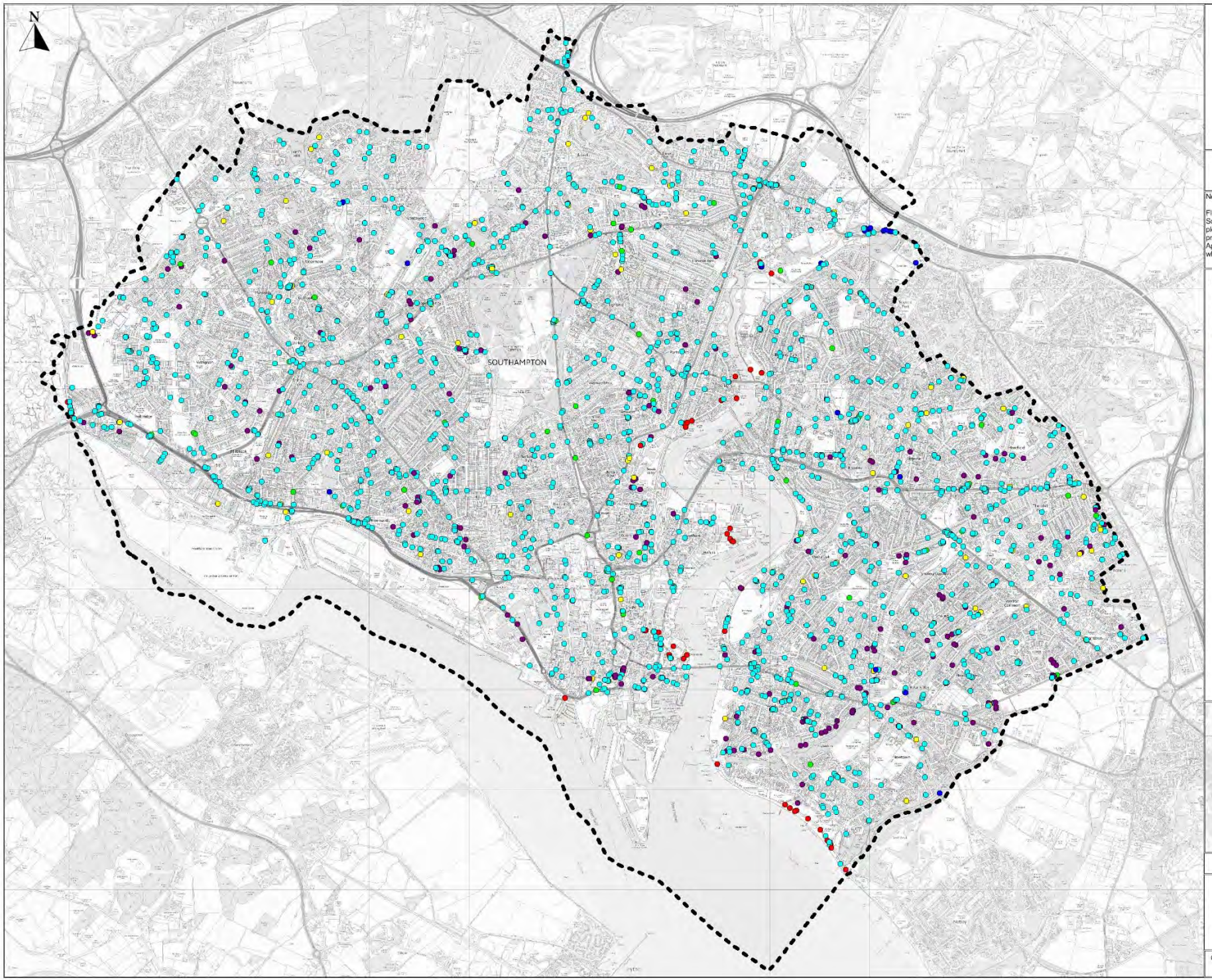
Southampton City Council Administrative Boundary

Tidal Flood Hazard 1 in 200 Year ARI (2115)

- Extreme
- Significant
- Moderate
- Low

Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 11.4: Future Tidal Flood Hazard (2115)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA May 2017

Note:

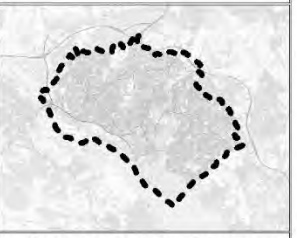
Flood records are from a variety of sources including SCC, Southern Water and the Environment Agency. Records are plotted by road name and are not intended to show individual properties. Plots are based on data from January 1999 to April 2017. It is the responsibility of the user to check whether more up to date information is available.

Legend

Southampton City Council Administrative Boundary

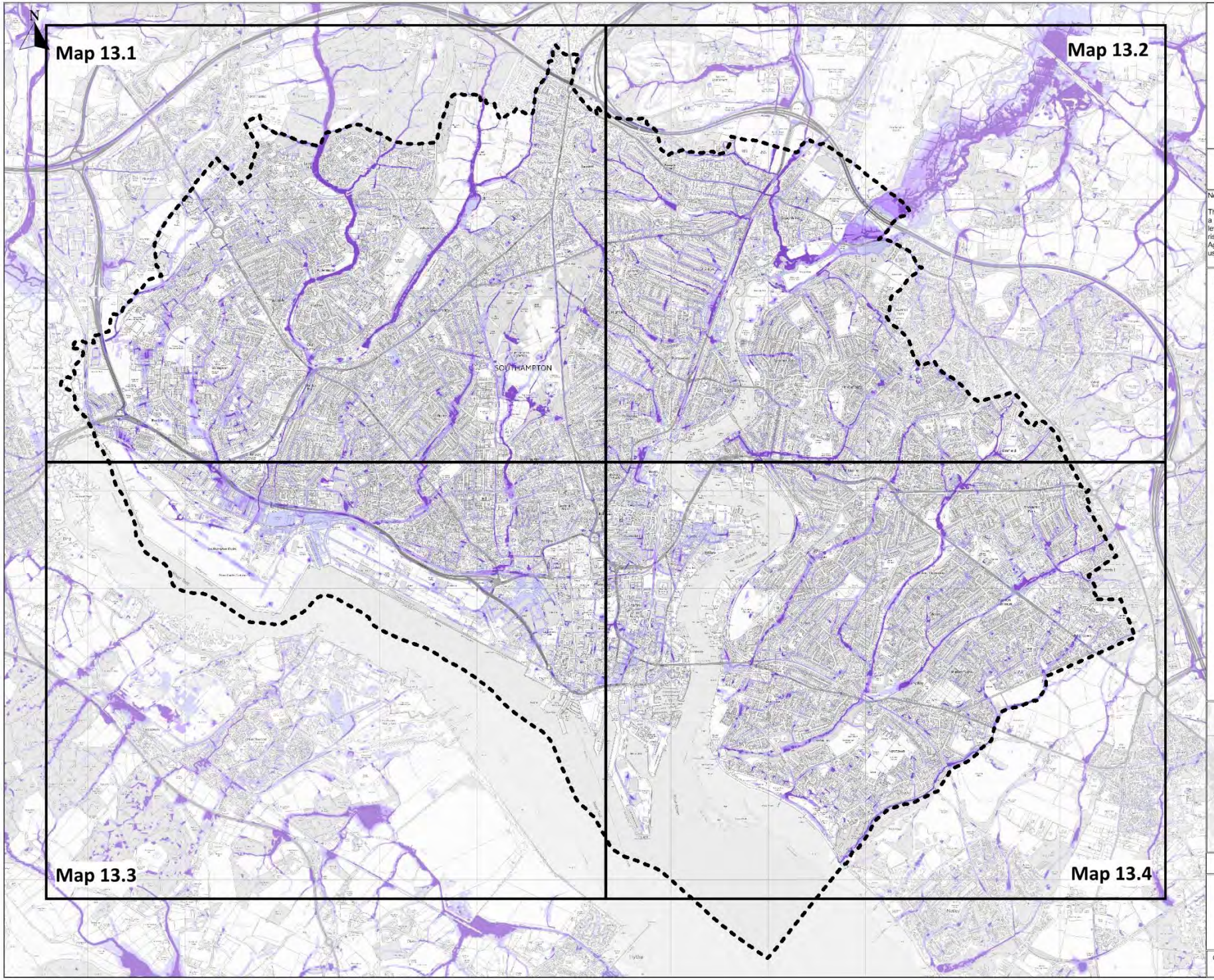
Flood Incident Type

- Fluvial
- Groundwater
- Sewer (Foul/Combined)
- Sewer (Surface Water)
- Surface water
- Tidal



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 12: Recorded Flood Incidents in Southampton



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA
January 2017

Note:

This map shows the extent of surface water flooding under a range of rainfall events. This map should be used for high level risk assessments and not used to understand flood risk to individual properties. This map uses Environment Agency data released May 2016. It is the responsibility of the user to check if more up to date information is available.

Legend

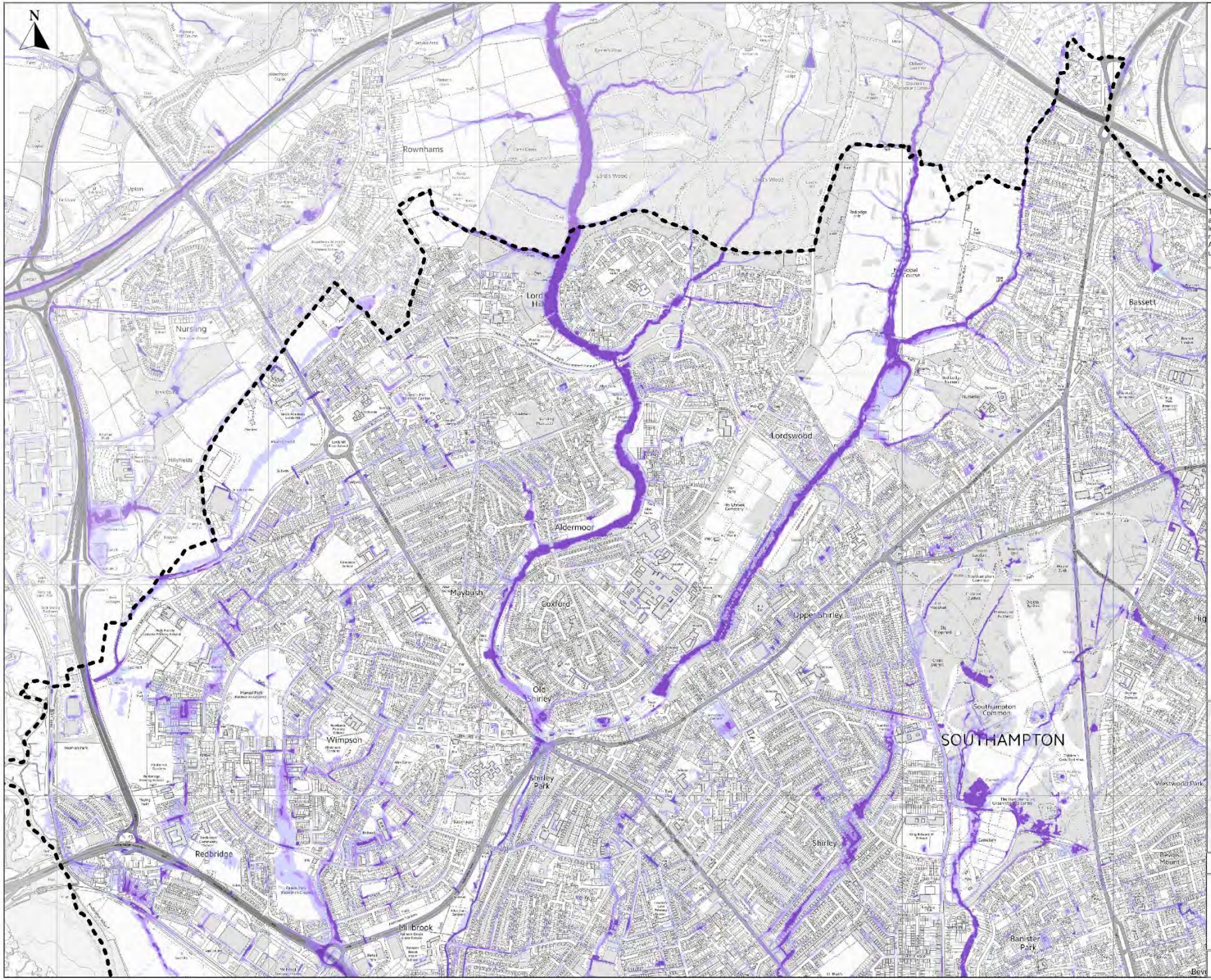
Southampton City Council Administrative Boundary

Surface Water Flood Risk

- High (1 in 30 chance of occuring in any year)
- Medium (1 in 100 chance of occuring in any year)
- Low (1 in 1000 chance of occuring in any year)

Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 13:
Surface Water Flood Risk
(Present Day)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

Note:

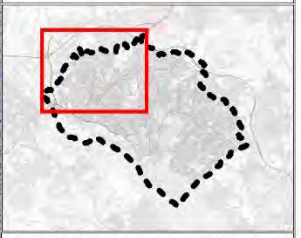
This map shows the extent of surface water flooding under a range of rainfall events. This map should be used for high level risk assessments and not used to understand flood risk to individual properties. This map uses Environment Agency data released May 2016. It is the responsibility of the user to check if more up to date information is available.

Legend

Southampton City Council Administrative Boundary

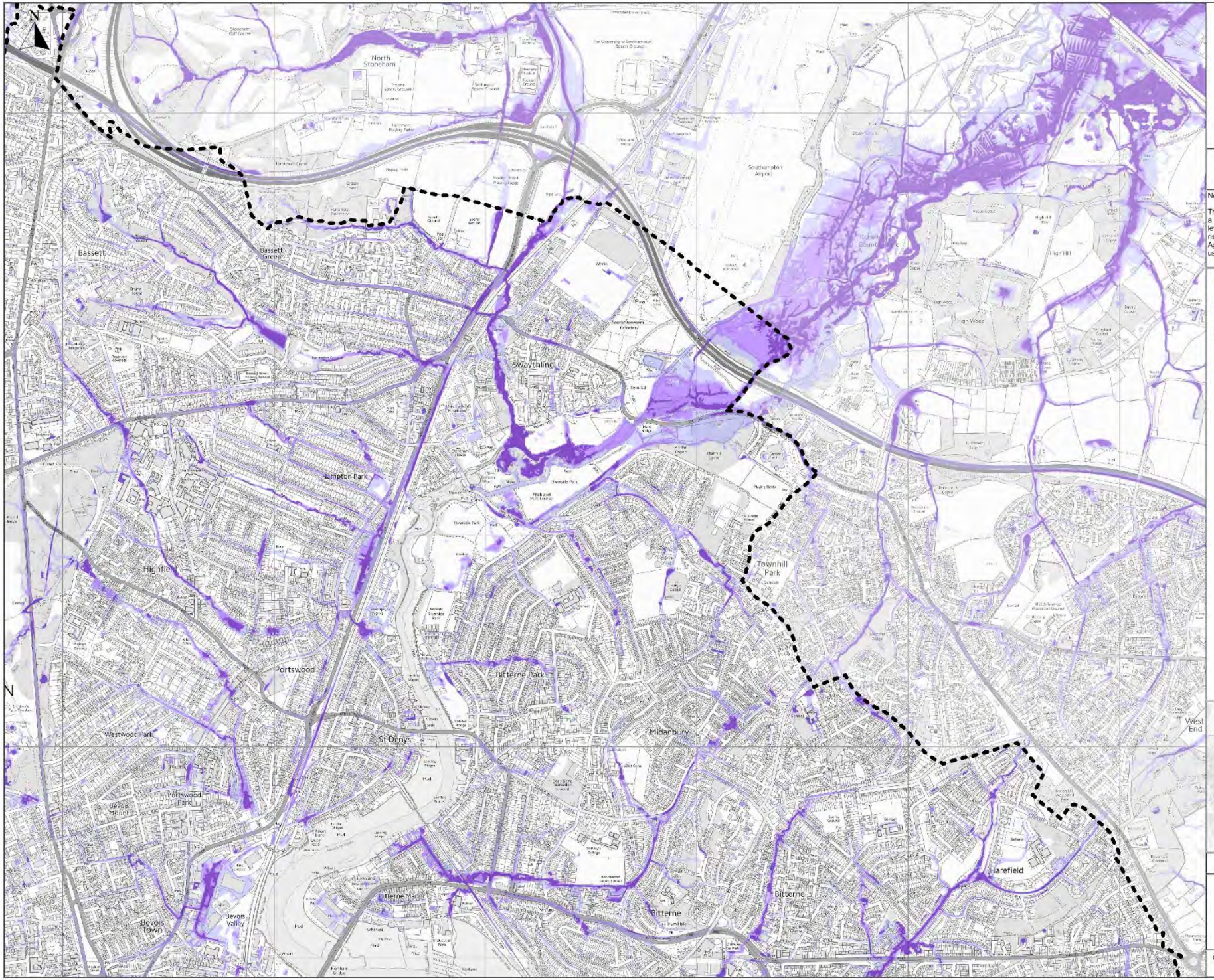
Surface Water Flood Risk

- High (1 in 30 chance of occuring in any year)
- Medium (1 in 100 chance of occuring in any year)
- Low (1 in 1000 chance of occuring in any year)



Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 13.1: Surface Water Flood Risk (Present Day)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

Note:

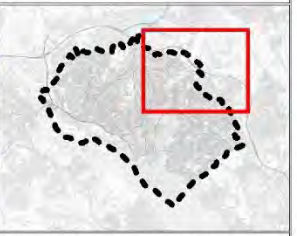
This map shows the extent of surface water flooding under a range of rainfall events. This map should be used for high level risk assessments and not used to understand flood risk to individual properties. This map uses Environment Agency data released May 2016. It is the responsibility of the user to check if more up to date information is available.

Legend

Southampton City Council Administrative Boundary

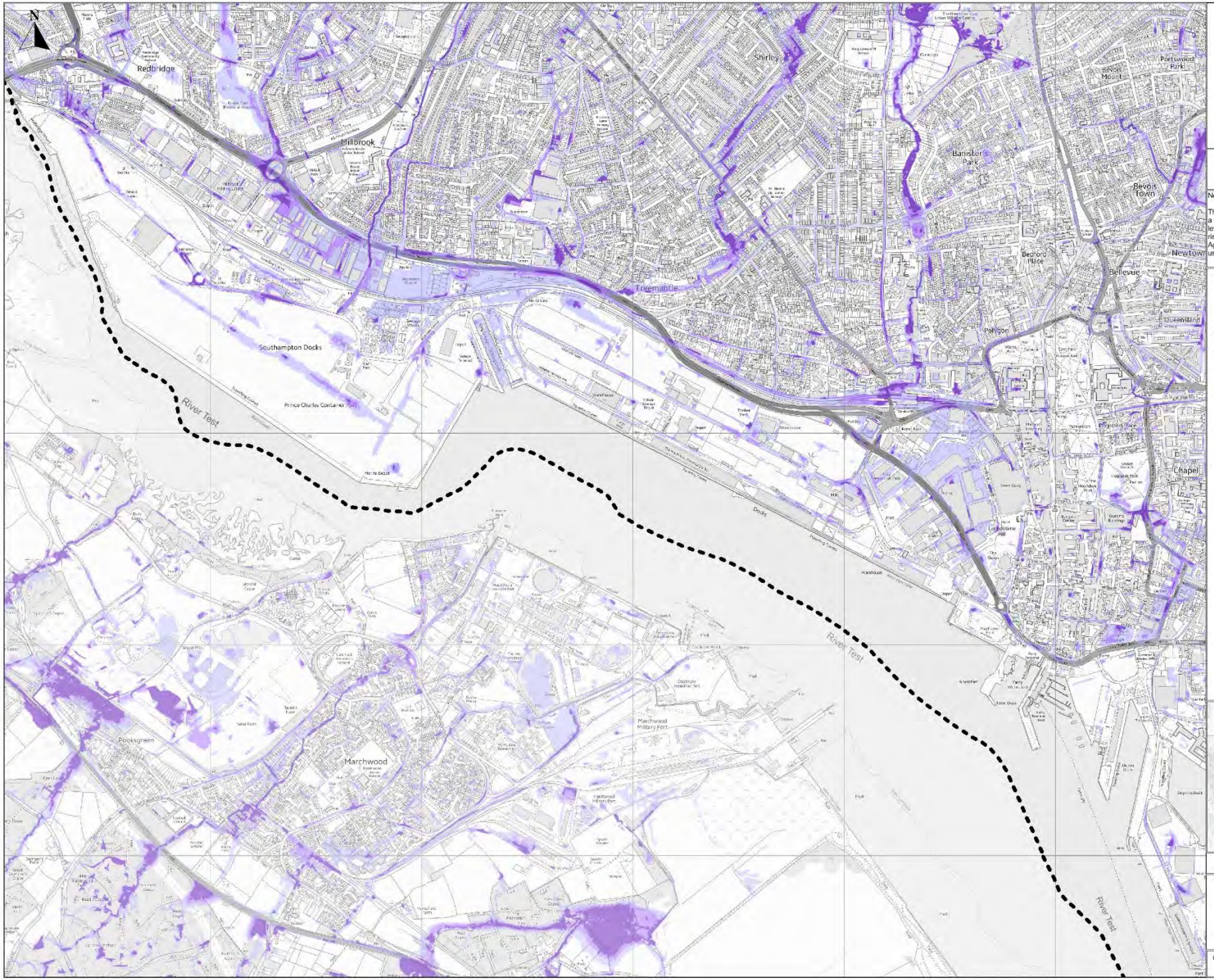
Surface Water Flood Risk

- High (1 in 30 chance of occuring in any year)
- Medium (1 in 100 chance of occuring in any year)
- Low (1 in 1000 chance of occuring in any year)



Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 13.2: Surface Water Flood Risk (Present Day)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

Note:

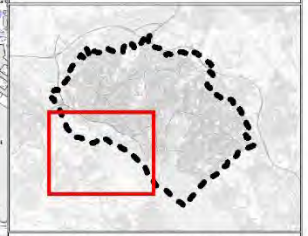
This map shows the extent of surface water flooding under a range of rainfall events. This map should be used for high level risk assessments and not used to understand flood risk to individual properties. This map uses Environment Agency data released May 2016. It is the responsibility of the user to check if more up to date information is available.

Legend

Southampton City Council Administrative Boundary

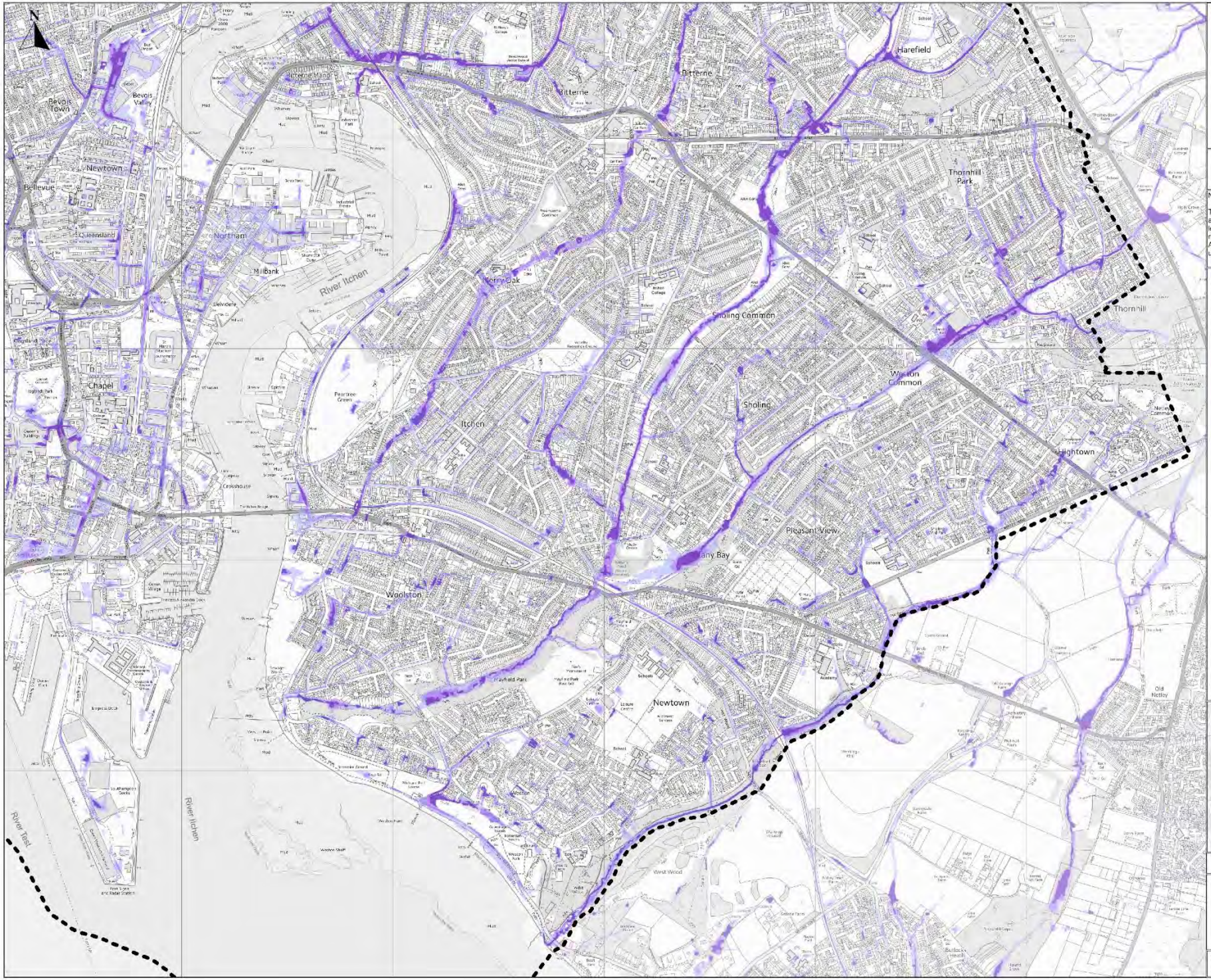
Surface Water Flood Risk

- High (1 in 30 chance of occuring in any year)
- Medium (1 in 100 chance of occuring in any year)
- Low (1 in 1000 chance of occuring in any year)



Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 13.3: Surface Water Flood Risk (Present Day)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

Note:

This map shows the extent of surface water flooding under a range of rainfall events. This map should be used for high level risk assessments and not used to understand flood risk to individual properties. This map uses Environment Agency data released May 2016. It is the responsibility of the user to check if more up to date information is available.

Legend

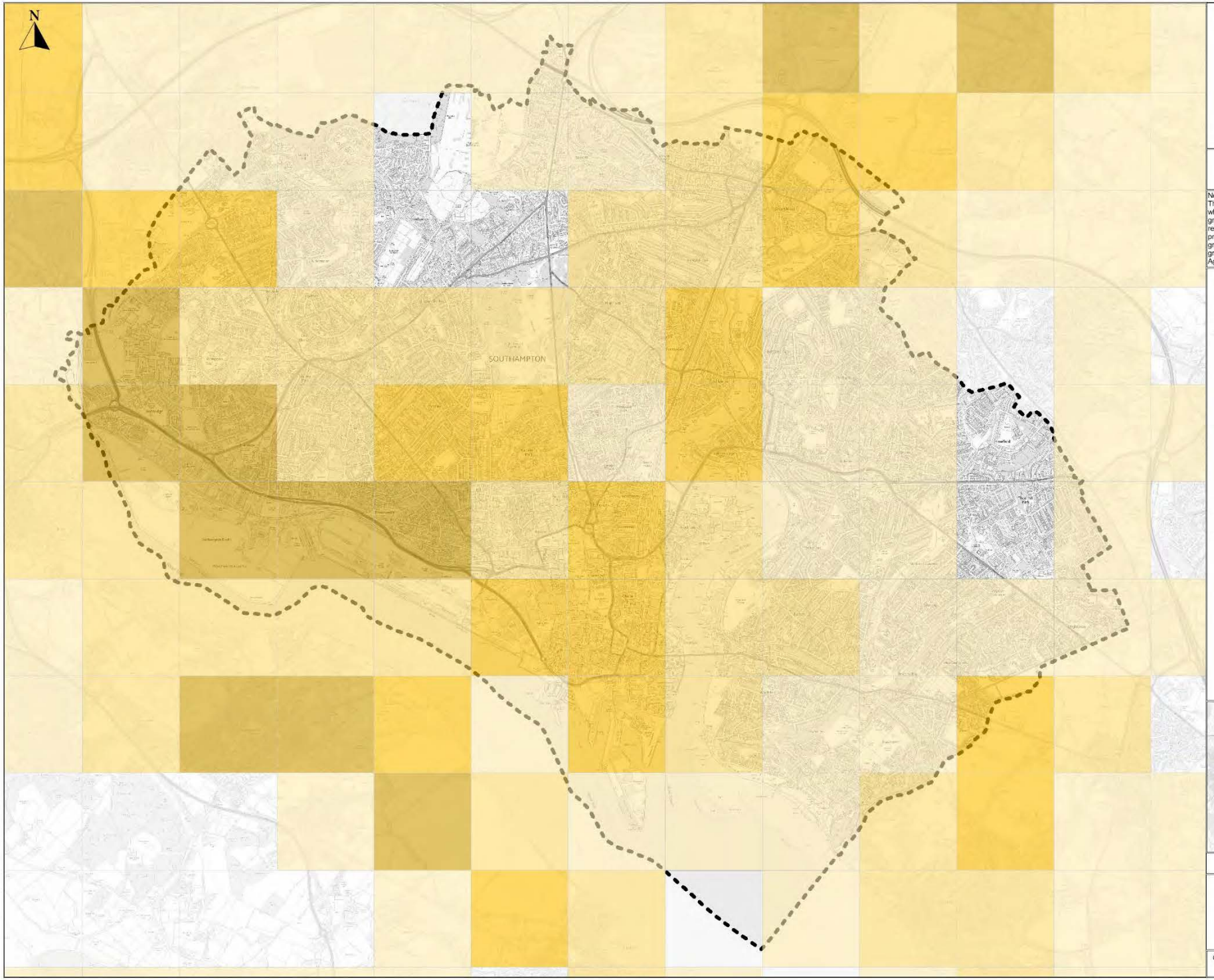
Southampton City Council Administrative Boundary

Surface Water Flood Risk

- High (1 in 30 chance of occuring in any year)
- Medium (1 in 100 chance of occuring in any year)
- Low (1 in 1000 chance of occuring in any year)

Scale @ A4: 1 Centimetre = 0.23 kilometres

Map 13.4: Surface Water Flood Risk (Present Day)



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA
January 2017

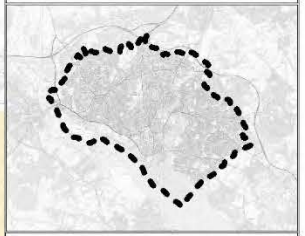
Note:
This map shows the proportion of each 1km grid square where geological and hydro-geological conditions show that groundwater may emerge. The susceptible areas are represented by one of four area categories showing the proportion of each 1km square that is susceptible to groundwater emergence. It does not show the likelihood of groundwater flooding occuring. This map uses Envrionment Agency data released May 2011.

Legend

Southampton City Council Administrative Boundary

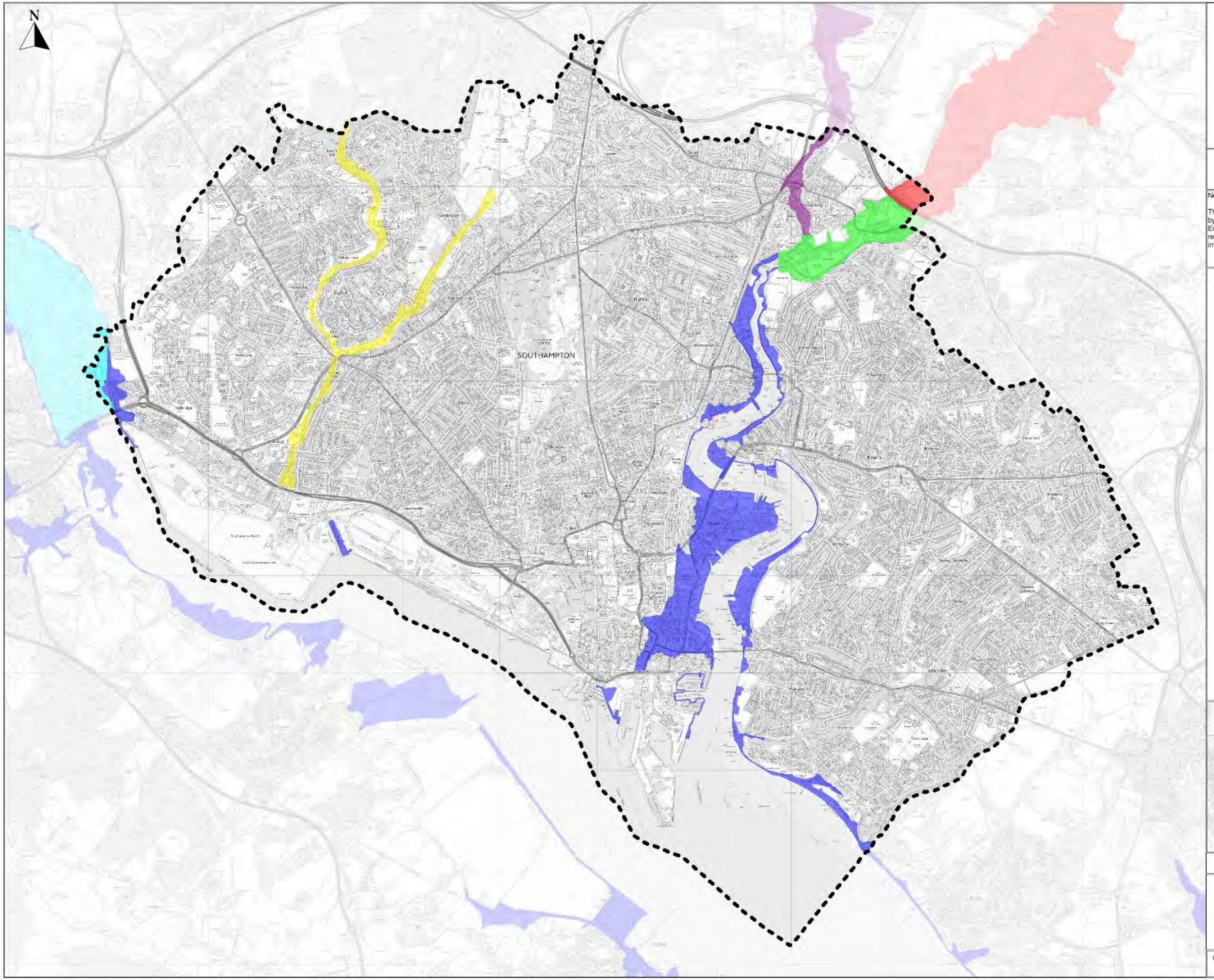
Susceptability to Groundwater Flooding

- Less than 25%
- 25% to 50%
- 50% to 75%
- Greater than 75%
- No Data



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 14:
Areas Susceptible to Groundwater Flooding



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

Note:

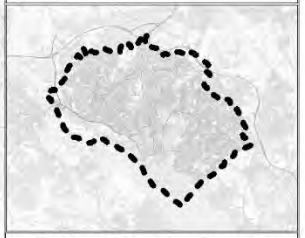
This map shows the fluvial and tidal flood risk areas covered by the Environment Agency Flood Alert system. It uses Environment Agency Data released June 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

- Southampton City Council Administrative Boundary

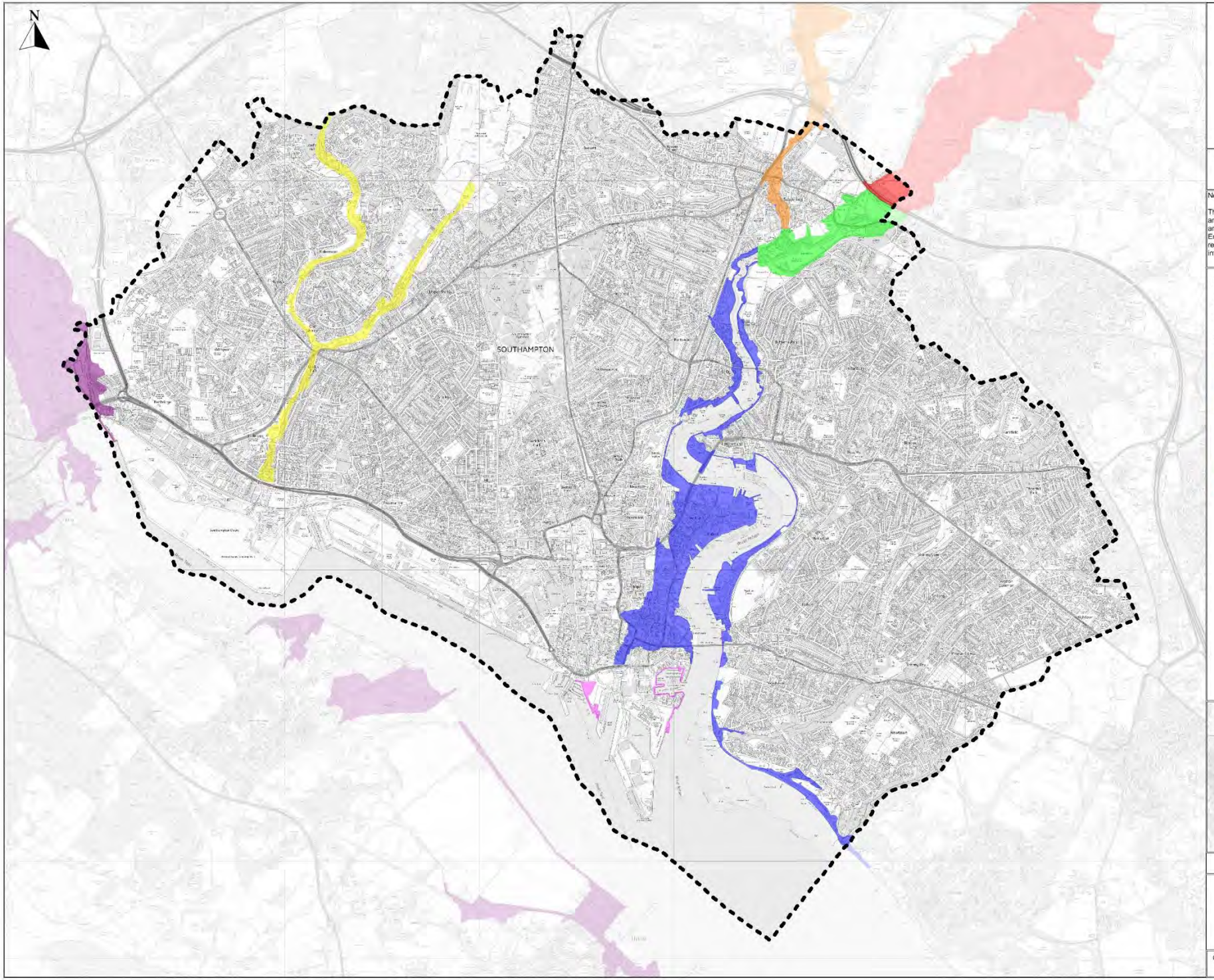
Environment Agency Flood Alert Area

- Lower Itchen
- Lower Test
- Mansbridge and Riverside Park
- Monks Brook
- Southampton Water
- Tanners Brook



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 15: Envrionment Agency Flood Alert Areas



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA
January 2017

Note:

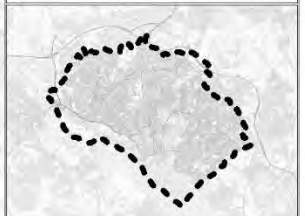
This map displays the Environment Agency Flood Warning areas for fluvial and coastal flood risk areas. Warning areas are more specific than flood alert areas. This map uses Envrionment Agency data released October 2016. It is the responsibility of the user to check whether more up to date information is available.

Legend

Southampton City Council Administrative Boundary

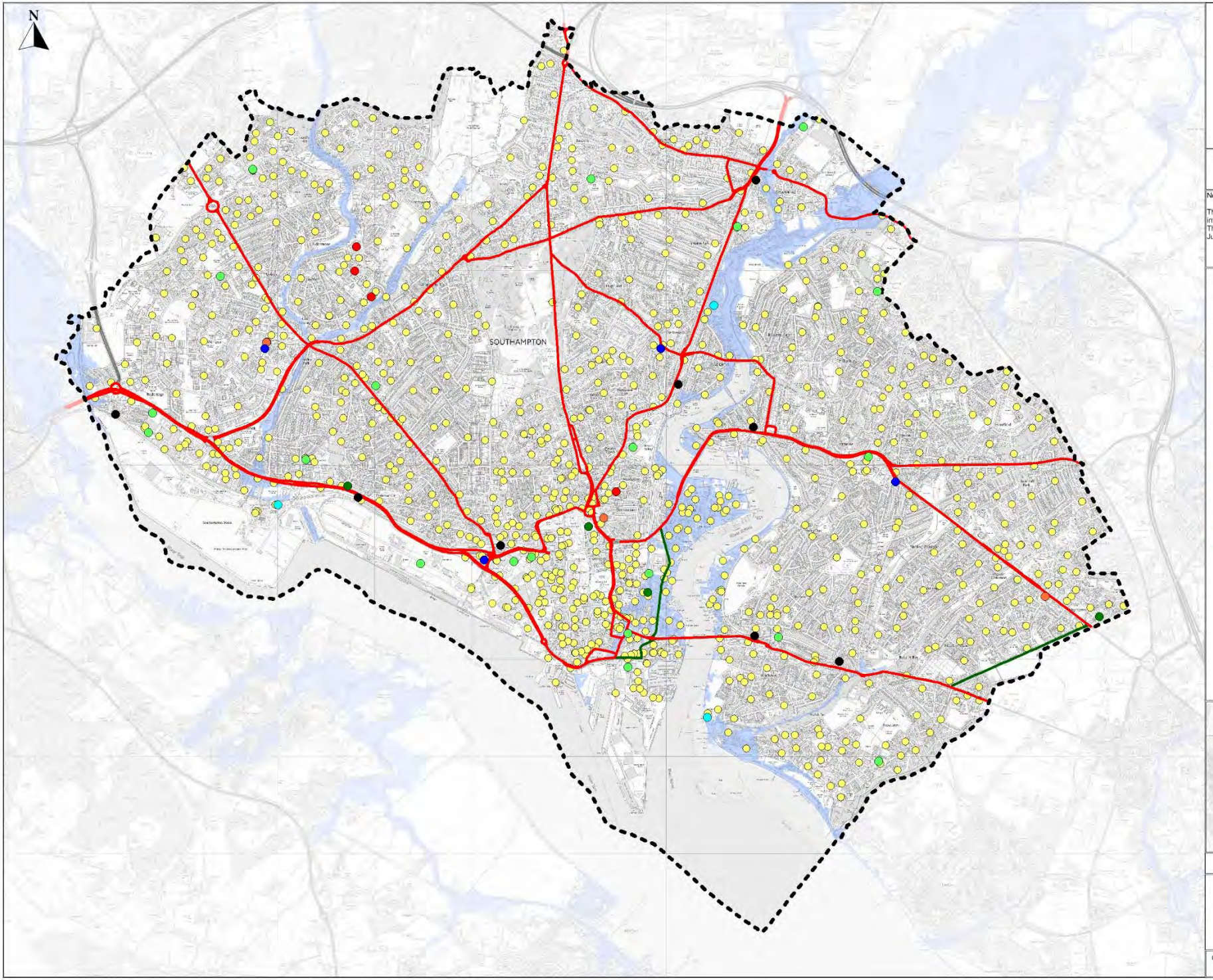
Environment Agency Flood Warning Area

- Calshot, Hythe, Marchwood, Eling and Redbridge
- Chandlers Ford to Swaythling
- Itchen Estuary
- Lord's Hill and Lordswood to Millbrook, on the Tanners Brook
- Mansbridge and Woodmill on the River Itchen
- Ocean Village, Southampton
- Shawford to Bishopstoke on the River Itchen



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 16:
Environment Agency Flood Warning Areas



SOUTHAMPTON CITY COUNCIL

Southampton Level 2 SFRA January 2017

Note:

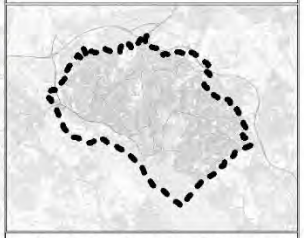
This map provides an overview of some of the sites of critical infrastructure in Southampton in relation to Flood Zone 2. This uses SCC data and Envrionment Agency Data released July 2016.

Legend

- Southampton City Council Administrative Boundary
- Environment Agency Flood Zone 2

Critical Infrastructure

- Police Station
- Fire Station
- Ambulance Station
- Hospital
- Electrical Sub Station
- Primary Electric Sub-Station
- Water Treatment Works
- Railway Station
- A Road
- B Road



Scale @ A4: 1 Centimetre = 0.5 kilometre

Map 17: Critical Infrastructure Overview