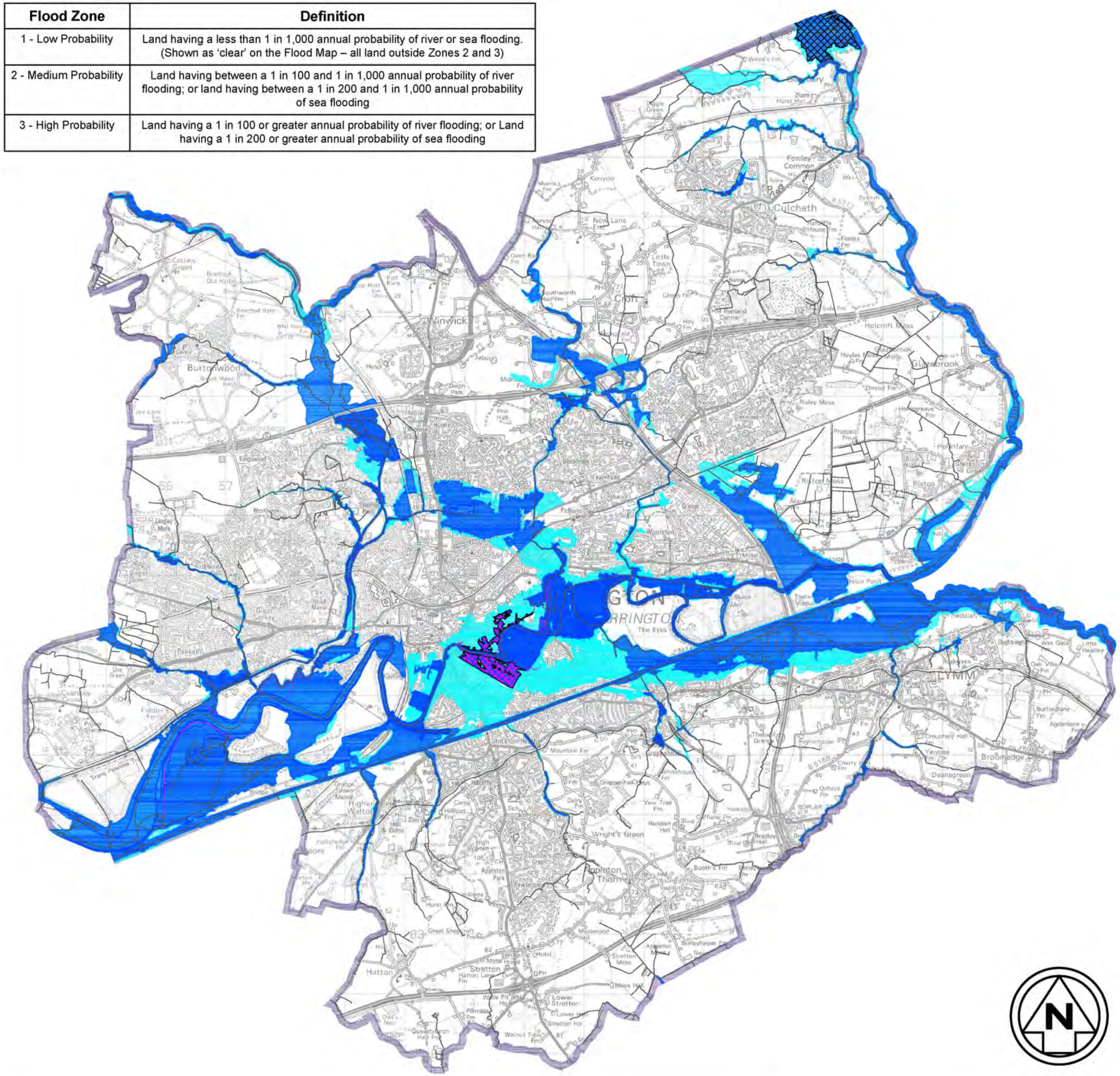
Flood Zone	Definition
1 - Low Probability	Land having a less than 1 in 1,000 annual probability of river or sea flooding. (Shown as 'clear' on the Flood Map – all land outside Zones 2 and 3)
2 - Medium Probability	Land having between a 1 in 100 and 1 in 1,000 annual probability of river flooding; or land having between a 1 in 200 and 1 in 1,000 annual probability of sea flooding
3 - High Probability	Land having a 1 in 100 or greater annual probability of river flooding; or Land having a 1 in 200 or greater annual probability of sea flooding



NOTES

100m Borough Boundary Buffer

Flood Zone 3

Flood Zone 2

Areas Benefiting from Flood Defences

Watercourses

These Flood Zones refer to the probability of river and sea flooding, ignoring the presence of defences.

Revn.	Revision Details	Rev by	Chk by	Date:

WARRINGTON
Borough Council

Economic Regeneration, Growth and Environment Directorate

Transport and Environment
New Town House, Buttermarket Street, Warrington WA1 2NH

Project

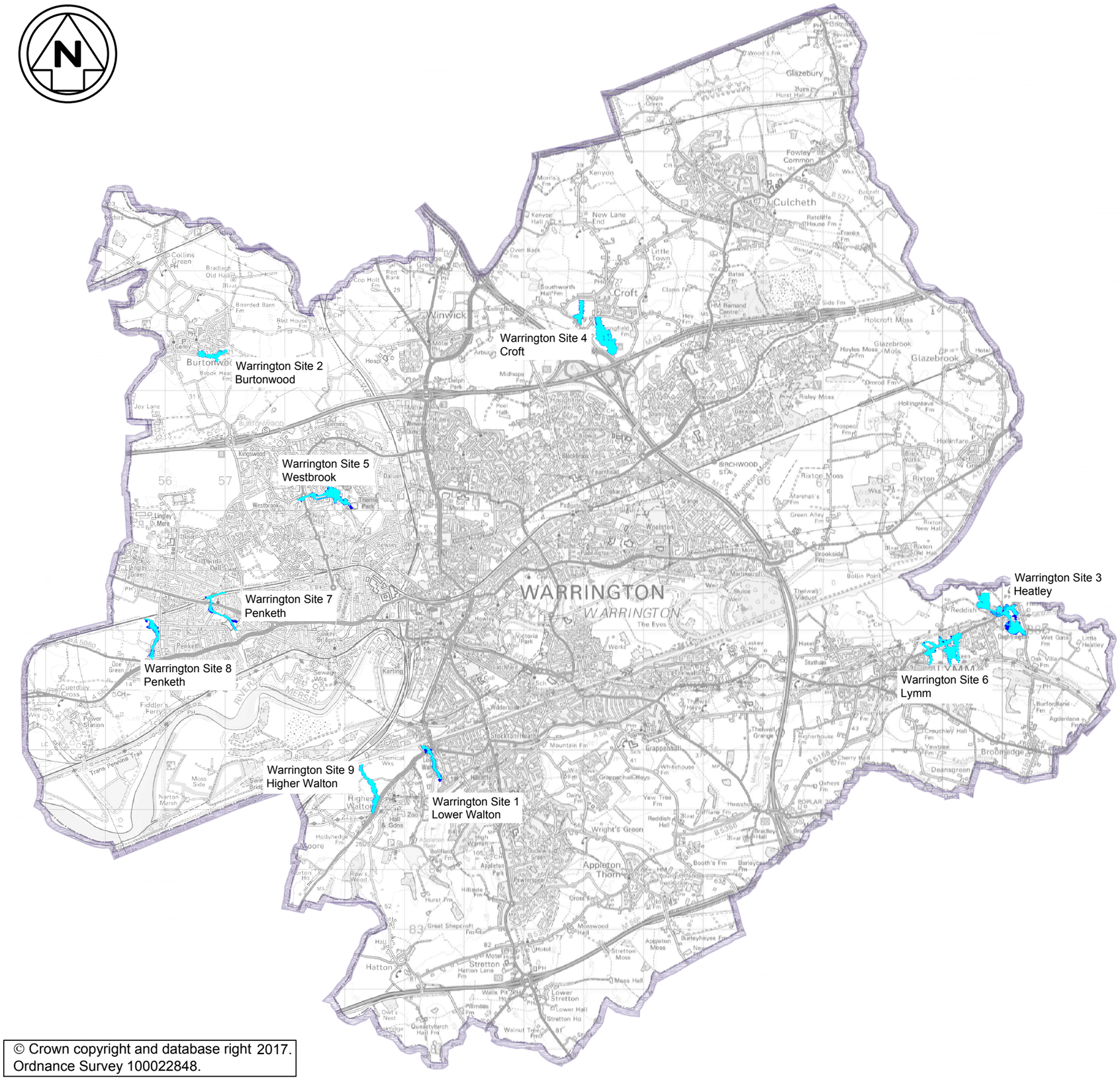
Warrington Borough Council Preliminary Flood Risk Assessment

Drawing Title

Environment Agency Flood Map for Planning (Feb 2017)

Drawn by	J S Dawson-Parry	e-mail	jparry@warrington.gov.uk	
Approved by	J W Turton	Telephone	01925 442534	
Date	04 April 2017	Fax	01925 443255	Sheet 1 of 1
Scales: Not to Scale		Drawing No.: Figure 8		Phase / Revision

AutoCAD File Ref: Figure 8 - Flood Map for Planning - PFRA.dwg



NOTES

- 100m Borough Boundary Buffer
- 5yr Flood Extents
- 30yr Flood Extents
- 100yr Flood Extents

Revn.	Revision Details	Rev by	Chk by	Date:

WARRINGTON
Borough Council

Economic Regeneration, Growth and Environment Directorate

Transport and Environment
New Town House, Buttermarket Street, Warrington WA1 2NH

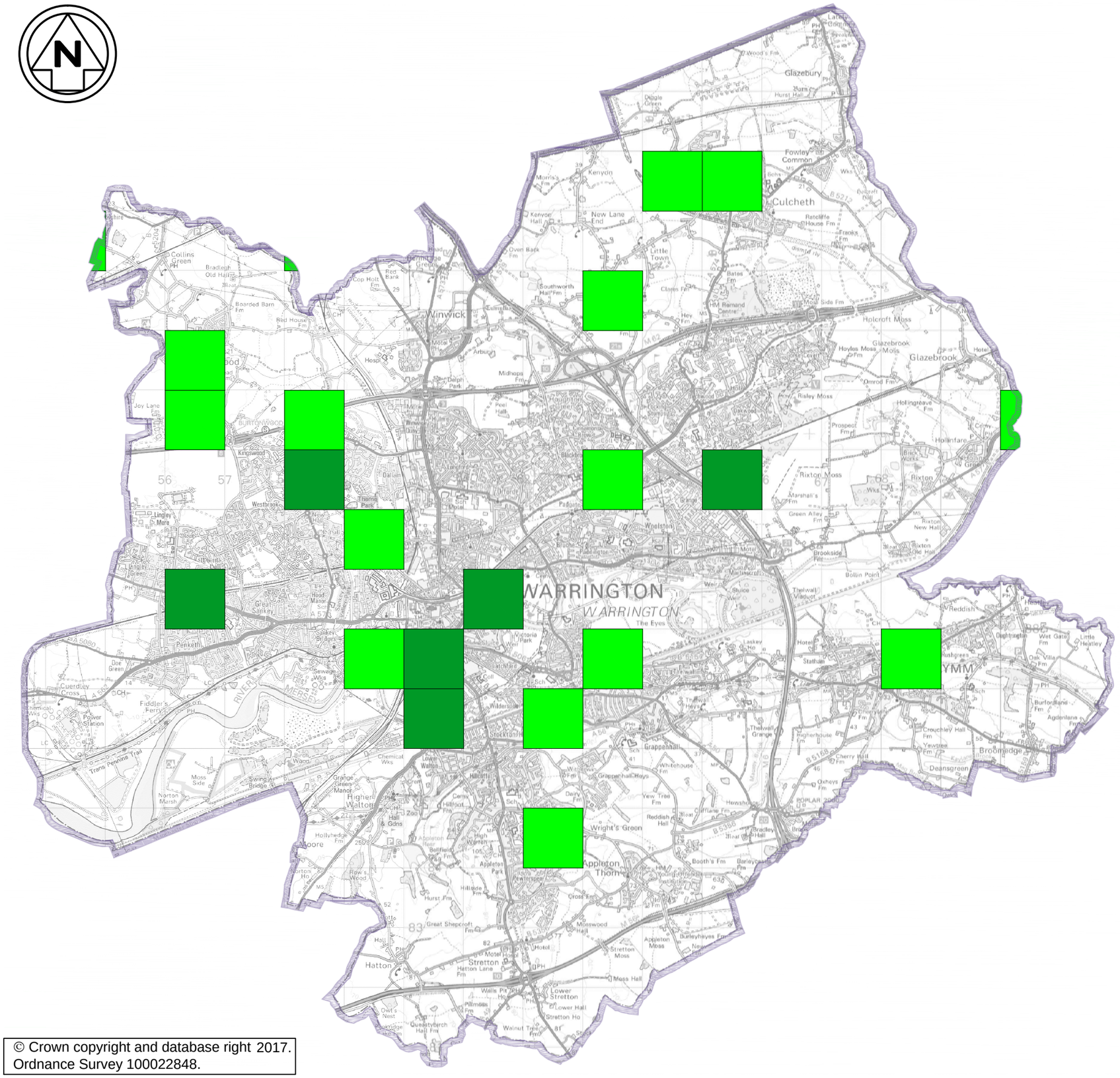
Project
Warrington Borough Council Preliminary Flood Risk Assessment

Drawing Title
Ordinary Watercourse Model Outputs from Cheshire Mid-Mersey Partnership Project

Drawn by	J S Dawson-Parry	e-mail	jparry@warrington.gov.uk	
Approved by	J W Turton	Telephone	01925 442534	
Date	04 April 2017	Fax	01925 443255	Sheet 1 of 1

Scales	Drawing No.	Phase / Revision
Not to Scale	Figure 9	

AutoCAD File Ref: Figure 9 - Ordinary Watercourse CH2M Hill - PFRA.dwg



NOTES

100m Borough Boundary Buffer

1 Key Service

2+ Key Services

Key service considered at risk of flooding if more than 50% of its buffered perimeter (p50) is flooded by the 1 in yyyy (100) annual probability rainfall with a depth threshold of ddd (0mm).

Revn.	Revision Details	Rev by	Chk by	Date:

WARRINGTON
Borough Council

Economic Regeneration, Growth and Environment Directorate

Transport and Environment
New Town House, Buttermarket Street, Warrington WA1 2NH

Project
Warrington Borough Council Preliminary Flood Risk Assessment

Drawing Title
Review of Critical Services at Risk of Flooding from Surface Water

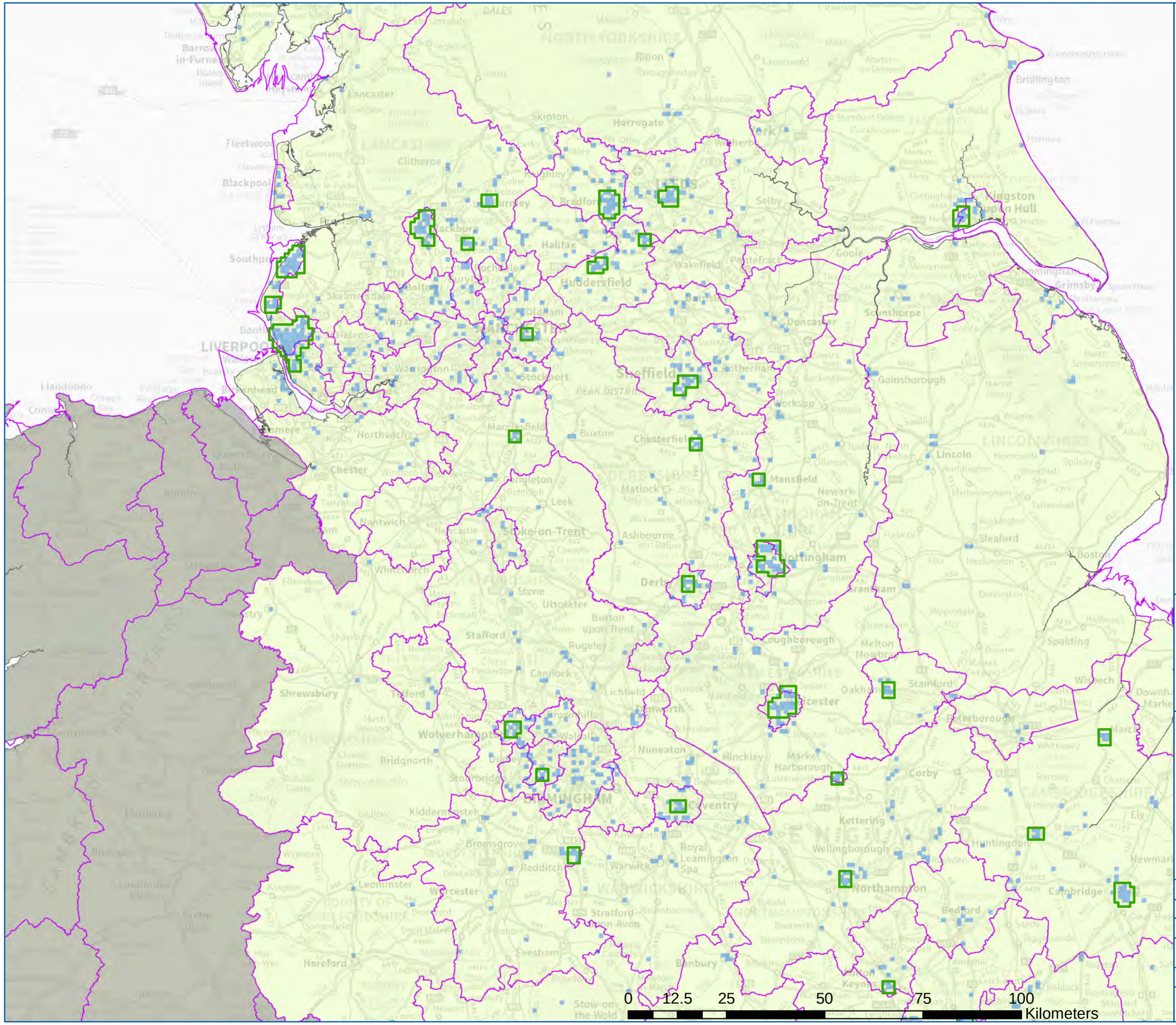
Drawn by J S Dawson-Parry e-mail jparry@warrington.gov.uk
Approved by J W Turton Telephone 01925 442534
Date 18 May 2017 Fax 01925 443255
Sheet 1 of 1

Scales: Not to Scale

Drawing No.: Figure 10

Phase / Revision

AutoCAD File Ref: 2+ Key Services.dwg



Clusters

Places Above Flood Risk Thresholds

Lead Local Flood Authorities

Clusters and Places Above Flood Risk Thresholds (blue squares) shown on this map are for the P100_D0_p50_200_1_20 case.

The notation used to define a case is:
Pyyyy_Dddd_p50_ppp_kkk_nnn, where:

a property is considered at risk of flooding if more than 50% of its buffered perimeter (p50) is flooded by the 1 in yyyy annual probability rainfall with a depth threshold of ddd mm.

1km grid squares are "blue squares" if at least one of the following flood risk indicators is above the threshold:
1. Number of People > ppp
2. Key Services > kkk
3. Number of Non-Residential Properties > nnn

Clusters are created from the blue square layer and are the union of all 3x3 km grids that contain at least 5 touching blue squares.

Indicators calculated using the uFMfSW V3 property point dataset which is based on NRD2014 with flooding attributes derived from the updated Flood Map for Surface Water.

Environment Agency

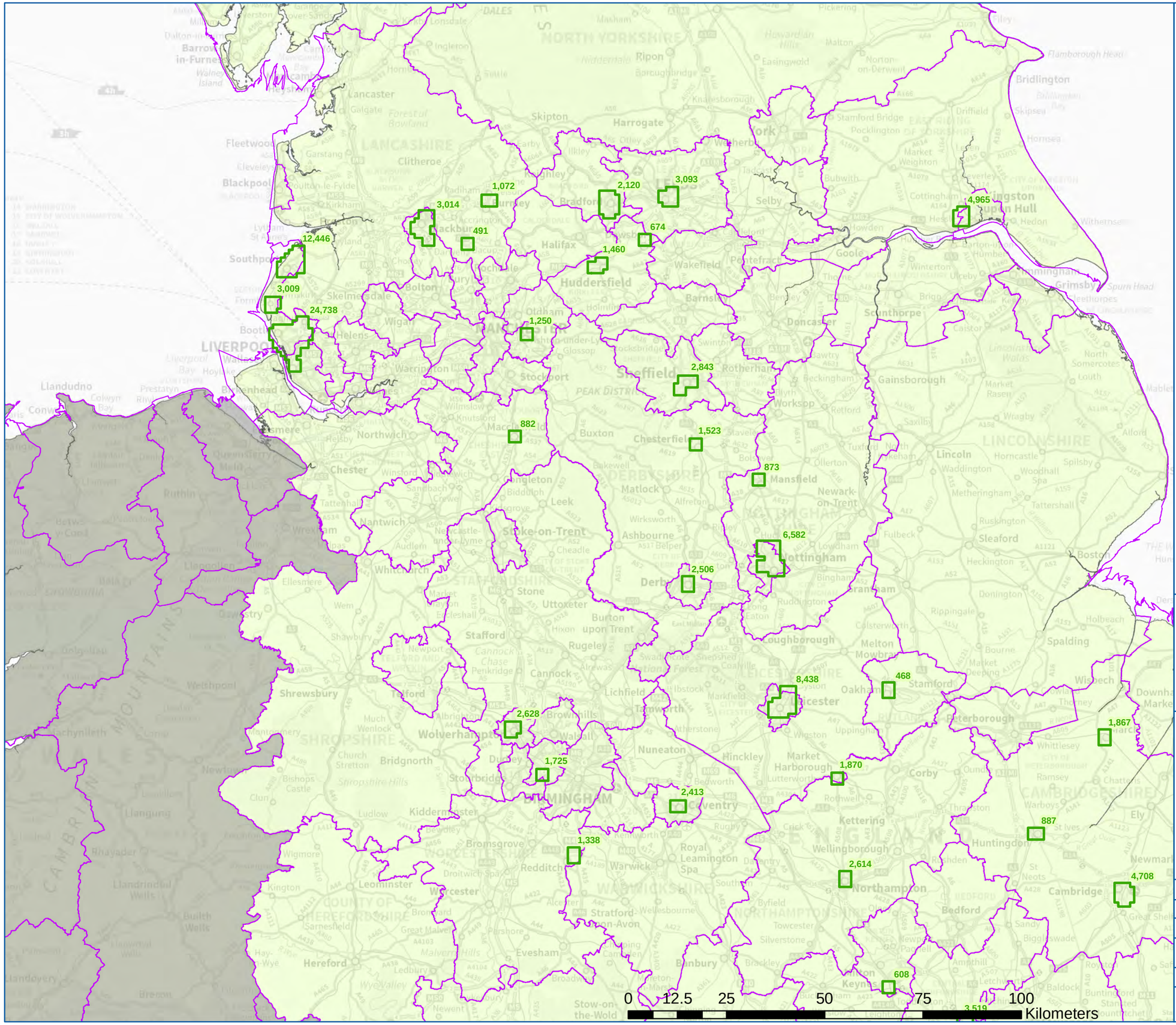
Preliminary Flood Risk Assessment for England

Clusters for 1% AEP rainfall showing places where flood risk thresholds are exceeded

(see notes below legend for definition of at risk and 1km grid thresholds used)

Drawn by:	**Peter Robinson, JBA Consulting**
Date:	**30/11/2016**
Status:	**FINAL**
File Name:	**...ArcGIS\Projects\FINAL_Cluster Mapbook_with_BS.mxd**
Drawing Number:	**BS12**

Scale: 1:935,230 @ A3



Clusters (with num of people at risk)

Lead Local Flood Authorities

Clusters shown on this map are for the P100_D0_p50_200_1_20 case.

The notation used to define a case is: Pyyyy_Dddd_p50_ppp_kkk_nnn, where:

a property is considered at risk of flooding if more than 50% of its buffered perimeter (p50) is flooded by the 1 in yyyy annual probability rainfall with a depth threshold of ddd mm.

1km grid squares are "blue squares" if at least one of the following flood risk indicators is above the threshold:
1. Number of People > ppp
2. Key Services > kkk
3. Number of Non-Residential Properties > nnn

Clusters are created from the blue square layer and are the union of all 3x3 km grids that contain at least 5 touching blue squares.

Indicators calculated using the uFMfSW V3 property point dataset which is based on NRD2014 with flooding attributes derived from the updated Flood Map for Surface Water.

Environment Agency

Preliminary Flood Risk Assessment for England

Clusters for 1% AEP rainfall showing number of people at risk

(see notes below legend for definition of at risk and 1km grid thresholds used)

Drawn by:	**Peter Robinson, JBA Consulting**
Date:	**30/11/2016**
Status:	**FINAL**
File Name:	**...ArcGIS\Projects\FINAL_Cluster Mapbook_without_BS.mxd**
Drawing Number:	**BS12**

Scale: 1:935,230 @ A3

Environment Agency

Preliminary Flood Risk Assessment for England

Increase in people at risk of flooding in 1km grid from the 0.1% AEP rainfall event compared with the 1% AEP event.

(see legend for definition of at risk)

People at risk on 1 km grid

Absolute increase (1% to 0.1% AEP)

- 1 - 150
- 151 - 500
- 501 - 1500
- 1501 - 6500
- **Lead Local Flood Authorities**

Number of people at risk of flooding shown on this map = 2.34 x Number of residential properties at risk of flooding.

A property is considered at risk of flooding if more than 50% of its buffered perimeter (p50) is flooded by the 0.1% or 1% annual probability rainfall (as appropriate) with a depth threshold of zero mm.

Property counts calculated using the uFMfSW V3 property point dataset which is based on NRD2014 with flooding attributes derived from the updated Flood Map for Surface Water.

Drawn by:	**Peter Robinson**
Date:	**13/12/2016**
Status:	**FINAL**
File Name:	**...ArcGIS\Projects\ FINAL_People_sensitivity.mxd**
Drawing Number:	

Scale: 1:1,900,000 @ A3

N

NORTH SEA

ENGLISH CHANNEL

0 25 50 100 150 200 Kilometres