

Annex E

Risk Assessment results

Annex E

Overview

- E.1.2 Risk of flooding calculated as an economic cost from the Environment Agency Flood Map for Surface Water
- E.1.3 Risk of flooding calculated as an economic cost from Hampshire County Council reported incidents
- E.1.4 Risk of flooding calculated as an economic cost from records of Groundwater flooding in 2000/2001
- E.1.5 Risk of flooding calculated as an economic cost by combining all three data sources

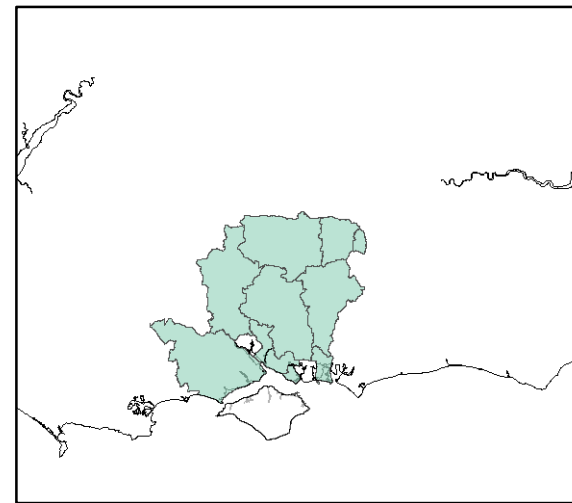
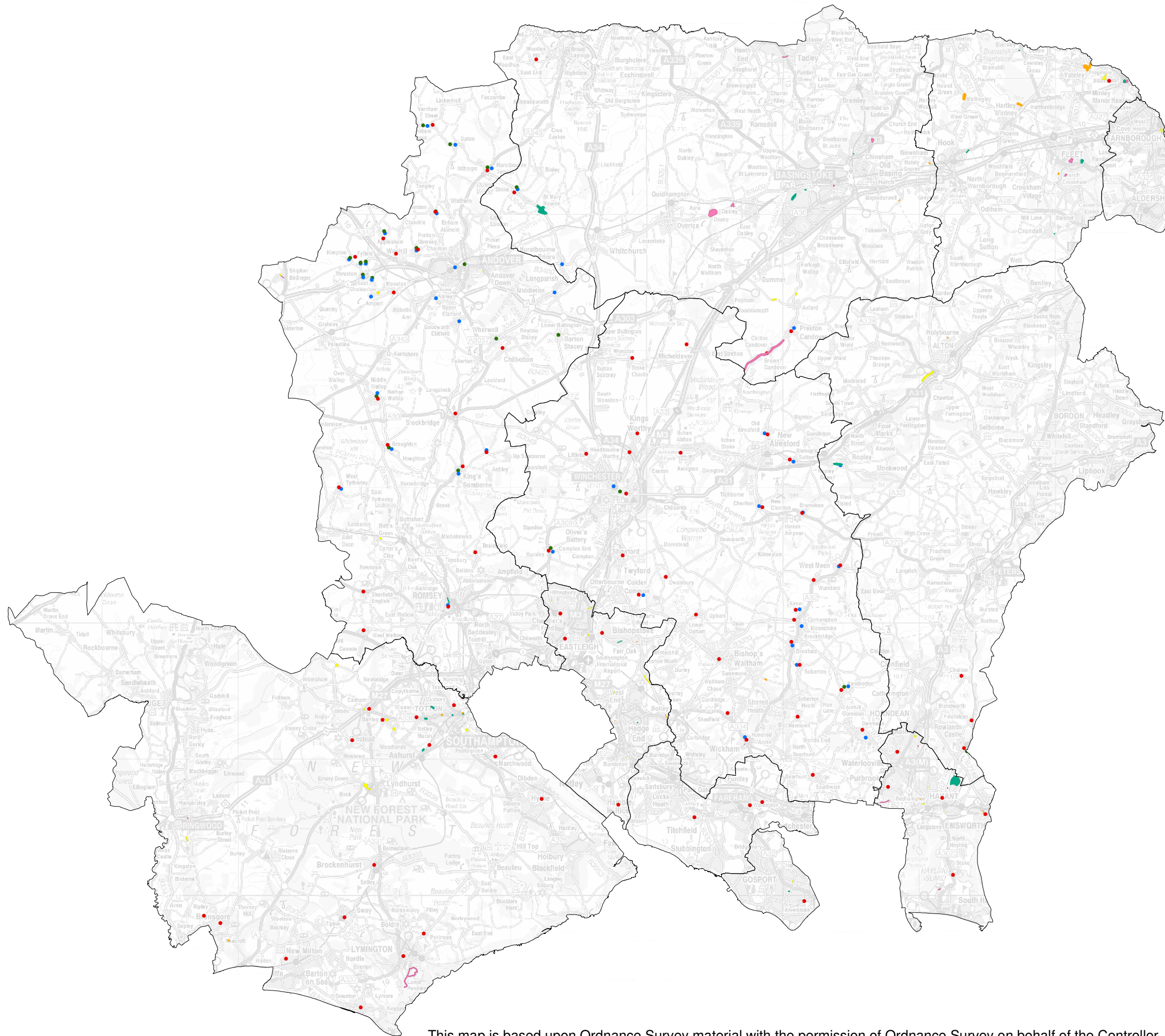
Overview

- E.1.1.1 This document includes figures illustrating the data sources used to produce the risk assessment and maps of the outcome of the risk assessment. In addition a table listing the 20 wards with the highest risk of flooding calculated from each data source is shown.

Table E1: The wards with the highest risk of flooding (rank 1 is highest) as calculated from the 2000/2001 groundwater data, Hampshire County Council Reported Incidents and the Environment Agency Flood Map for Surface Water. Note that the combined risk accounts for the risk from all 3 of these data sources.

Risk rank	Combined	Groundwater	HCC reported incidents	Environment Agency Flood Map for Surface Water
1	Droxford, Soberton and Hambleton	Droxford, Soberton and Hambleton	Tadley North	St Mary's
2	Fareham East	Fareham East	Eversley	Popley East
3	Penton Bellinger	Upper Meon Valley	Totton East	Eastrop
4	St Mary's	Battins	Abbey	Brookvale and Kings Furlong
5	Popley East	Cheriton and Bishops Sutton	Lymington Town	Hart Plain
6	Upper Meon Valley	Ashurst, Copythorne South and Netley Marsh	Fair Oak and Horton Heath	Penton Bellinger
7	Eastrop	Abbey	Eastleigh North	Highclere and Bourne
8	Ashurst, Copythorne South and Netley Marsh	Clanfield and Finchdean	Fleet Central	Cowplain
9	Highclere and Bourne	Rowlands Castle	Hiltingbury West	Aldershot Park
10	Brookvale and Kings Furlong	Town	Lyndhurst	Waterloo

Risk rank	Combined	Groundwater	HCC reported incidents	Environment Agency Flood Map for Surface Water
11	Abbey	Wickham	Leesland	Basing
12	Hart Plain	Penton Bellinger	Ashurst, Copythorne South and Netley Marsh	Fleet Pondtail
13	Basing	Upton Grey and The Candovers	Basing	Fleet West
14	Cowplain	Kings Worthy	St Faith's	Buckskin
15	Clanfield and Finchdean	Broughton and Stockbridge	Bishopstoke East	Cherrywood
16	Battins	Colden Common and Twyford	Bondfields	Fleet North
17	Cheriton and Bishops Sutton	Totton East	Penton Bellinger	South Ham
18	Aldershot Park	Bourne Valley	Oakley and North Waltham	St Barnabas
19	Waterloo	The Alresfords	Totton Central	Fernhill NE
20	Buckskin	Itchen Valley	Emsworth	Oakley and North Waltham



Legend

Groundwater flooding

- 2002/03
- 2000/01
- 1994/95

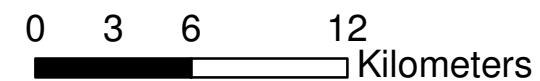
Recorded SW flooding and status of measure

- Delivered
- Programmed
- Identified
- Not identified

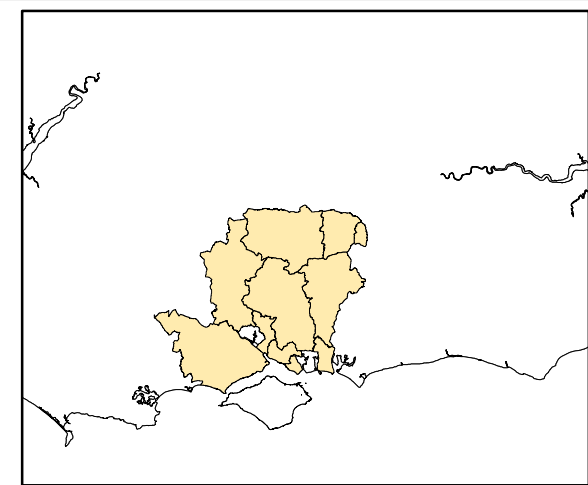
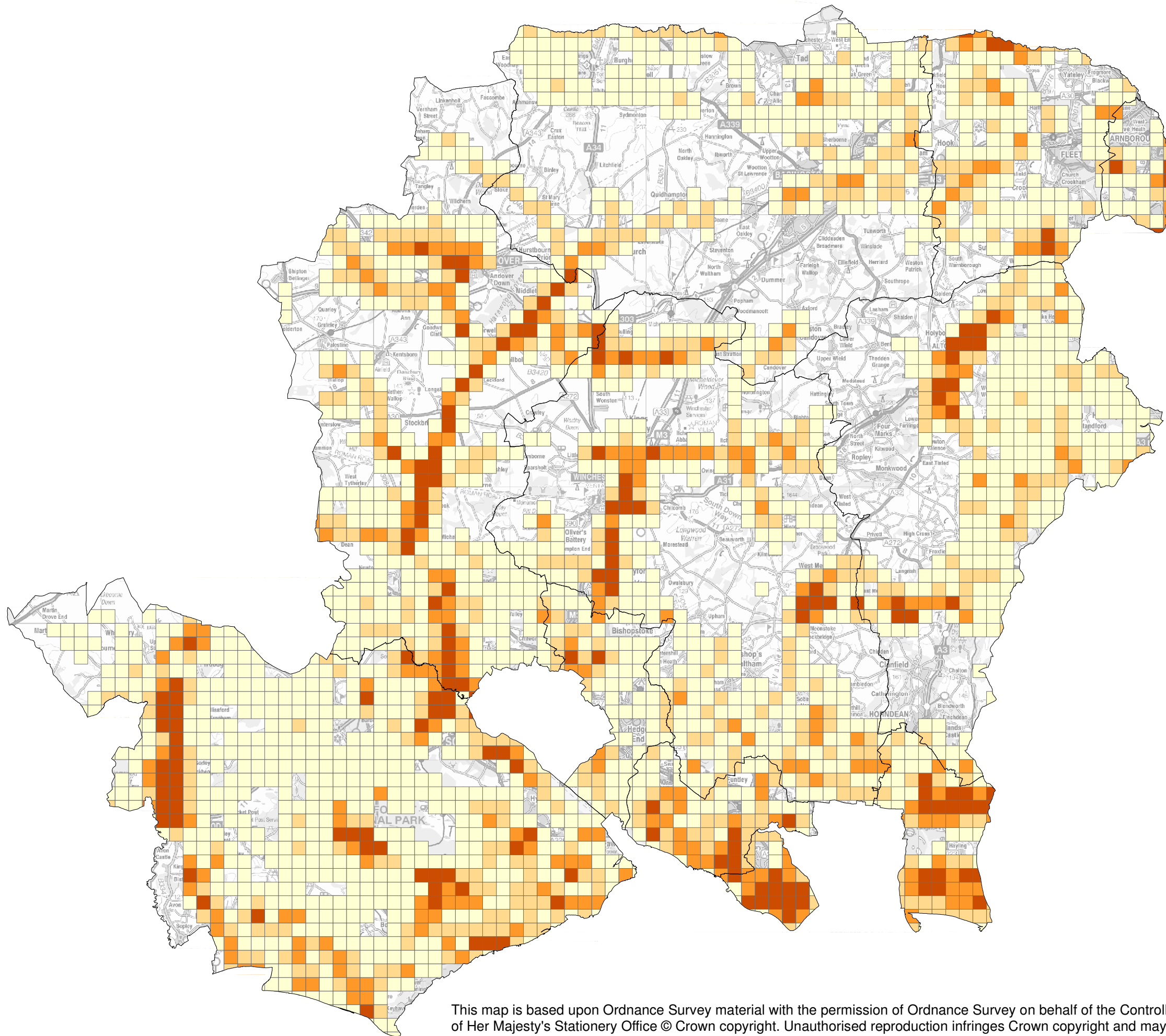
Figure E1

Recorded flooding

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Legend

Environment Agency Areas Susceptible to Groundwater Flooding

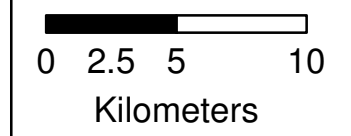
Proportion of 1 km square susceptible to groundwater flood emergence

- $\geq 75\%$
- $\geq 50\% < 75\%$
- $\geq 25\% < 50\%$
- $< 25\%$

Figure E2

Environment Agency Groundwater Vulnerability Map

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E.1.2 Risk of flooding calculated as an economic cost from the Environment Agency Flood Map for Surface Water

Figure E3: Basingstoke and Deane

Figure E4: East Hampshire

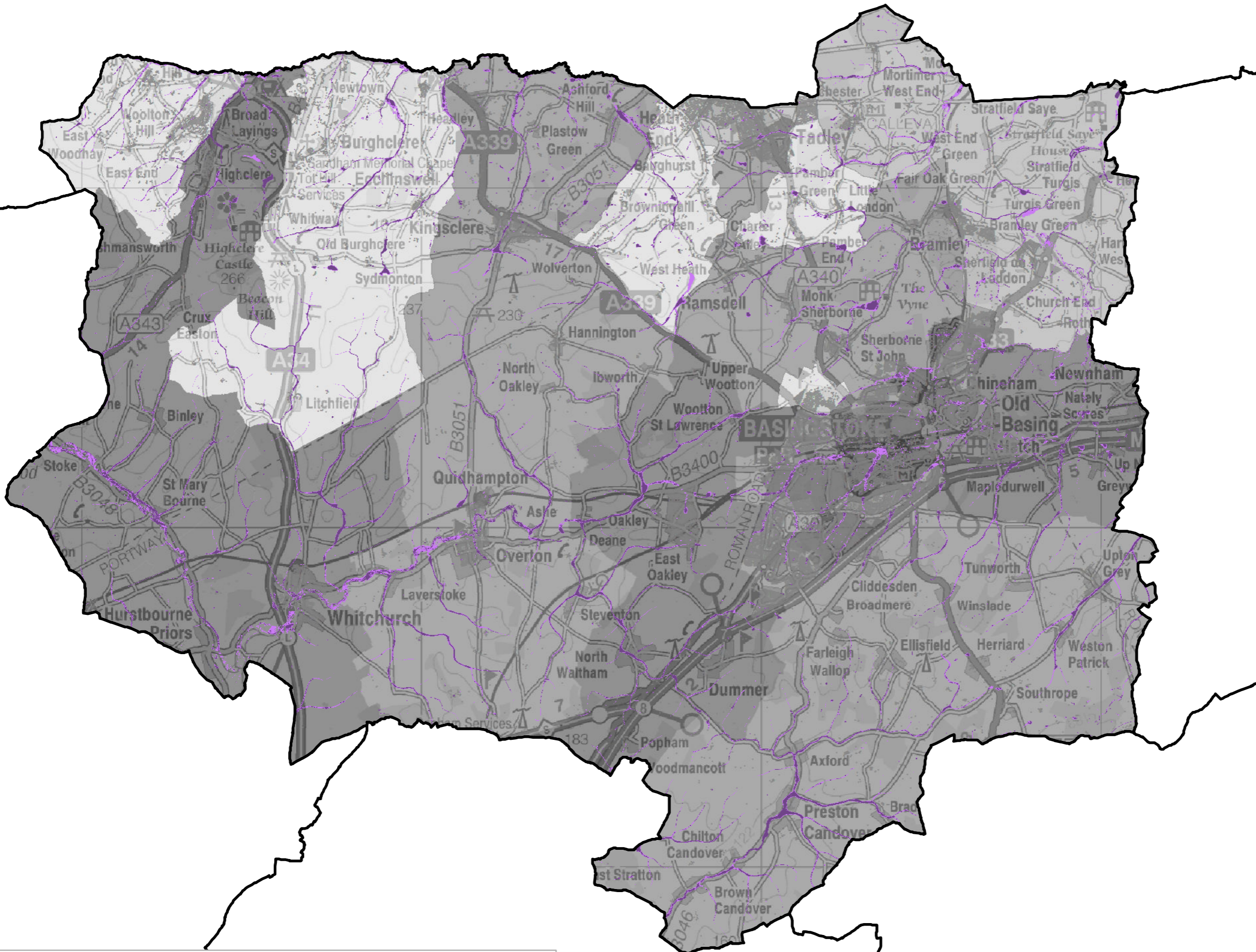
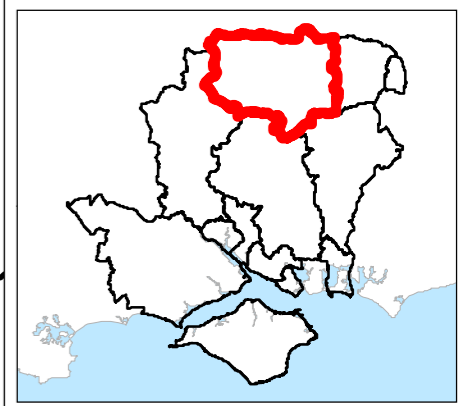
Figure E5: Eastleigh, Fareham, Gosport and Havant

Figure E6: Hart and Rushmoor

Figure E7: New Forest

Figure E8: Test Valley

Figure E9: Winchester



Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

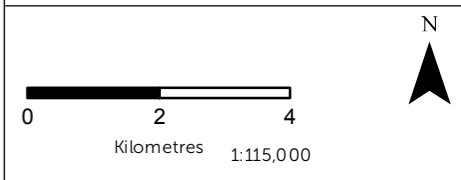
- £0k - £10k
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- £100k +

Project: Hampshire Economic Damages

Title: EA SW Costs

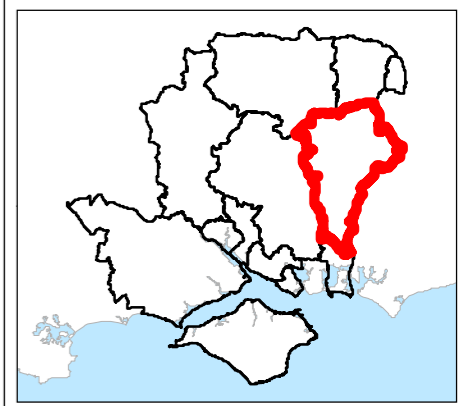
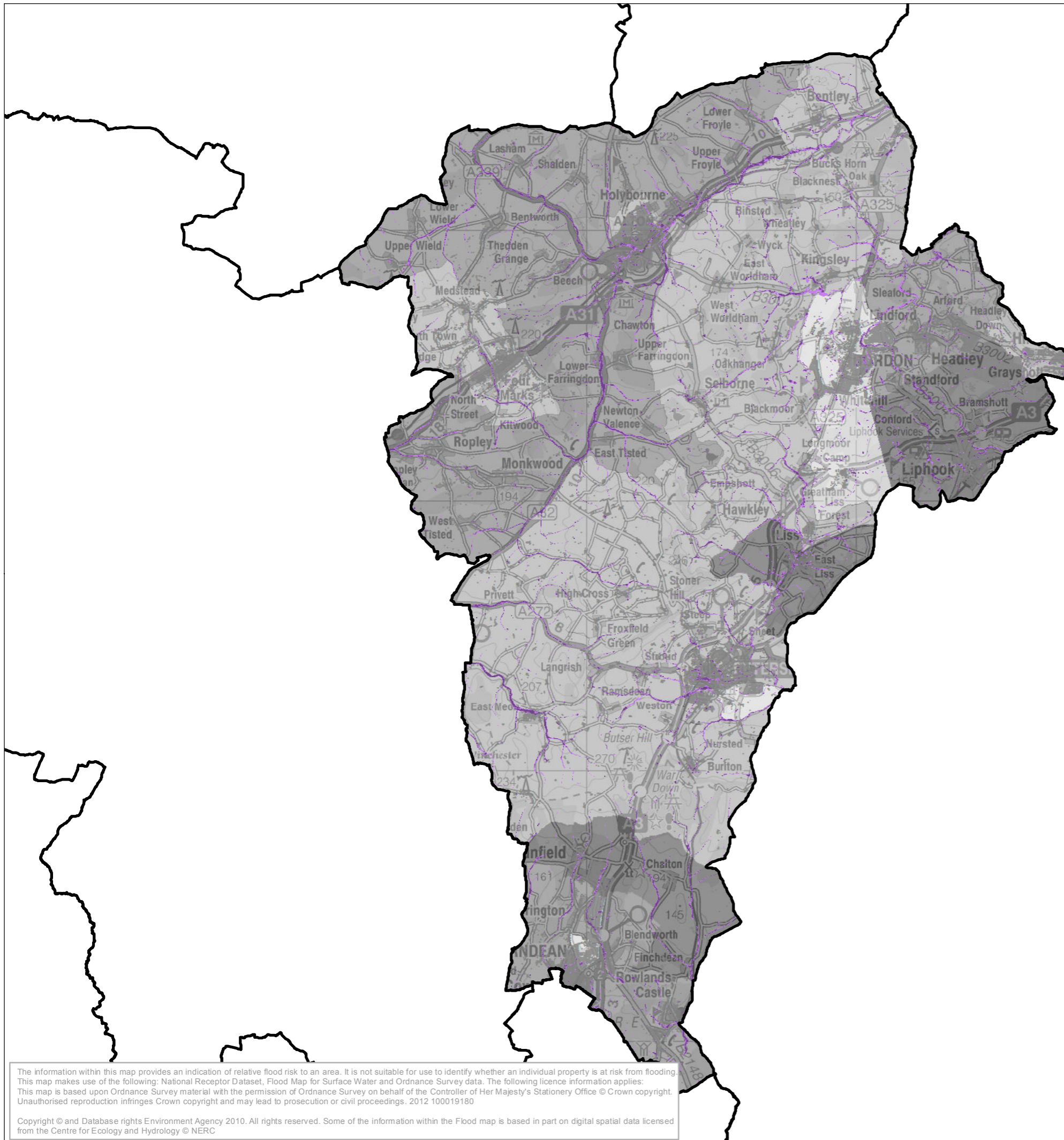
Figure: Basingstoke and Deane

September 2012



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Legend

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Annualised Cost of Flooding

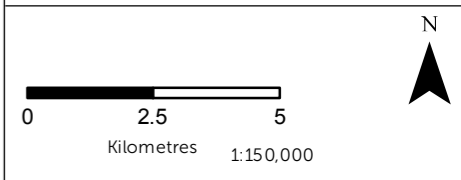
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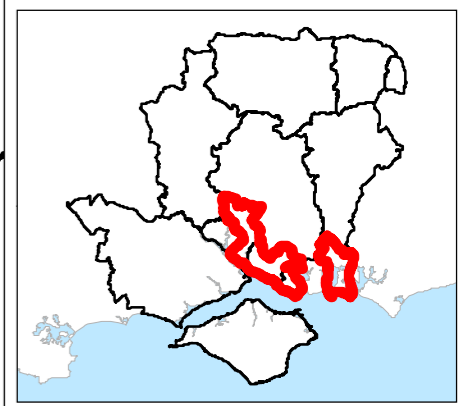
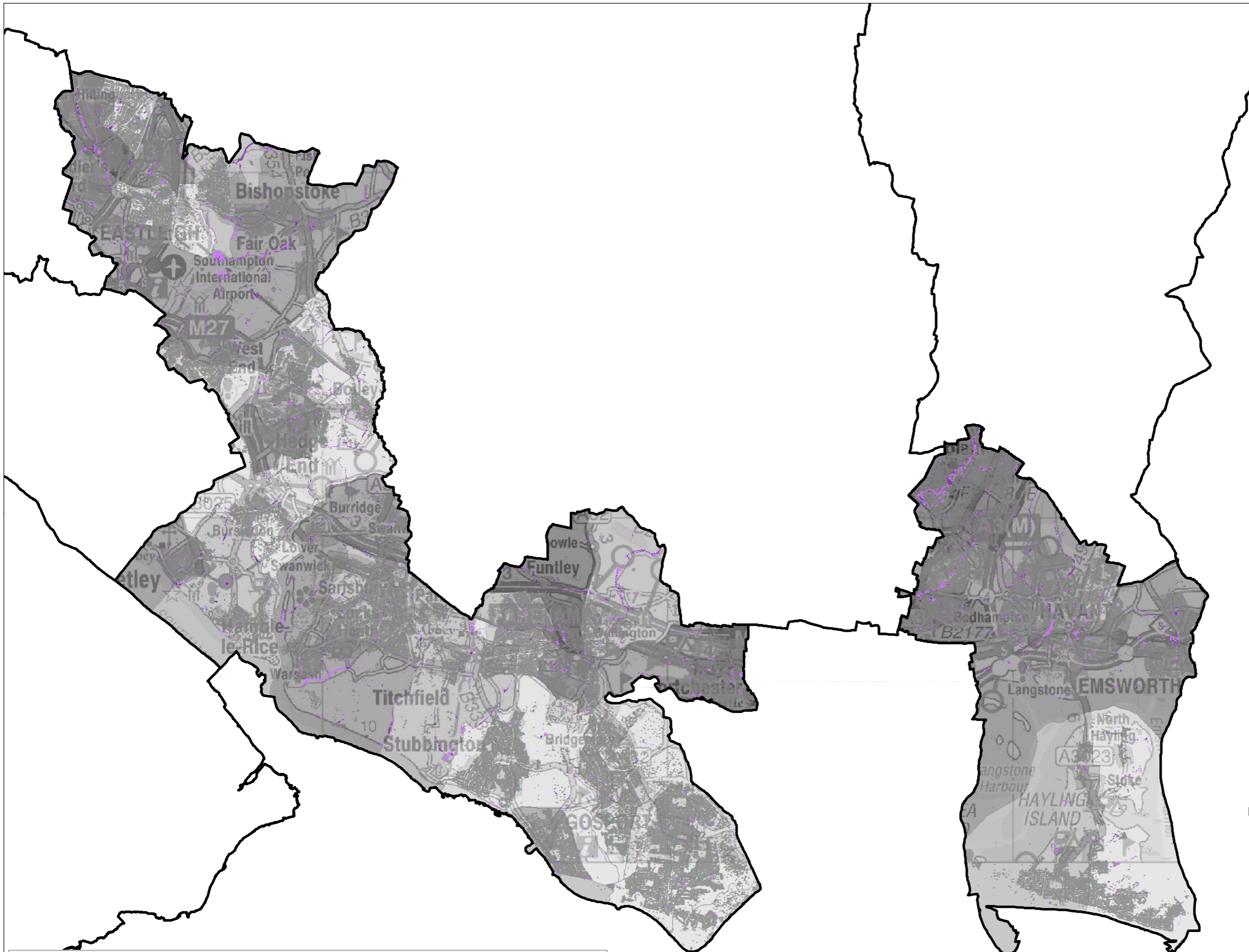
Figure: East Hampshire

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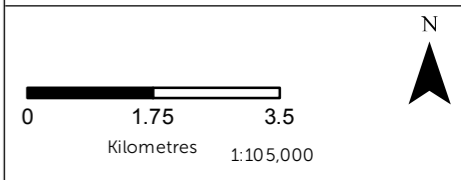
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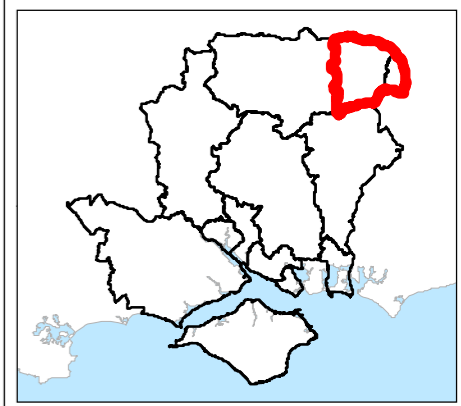
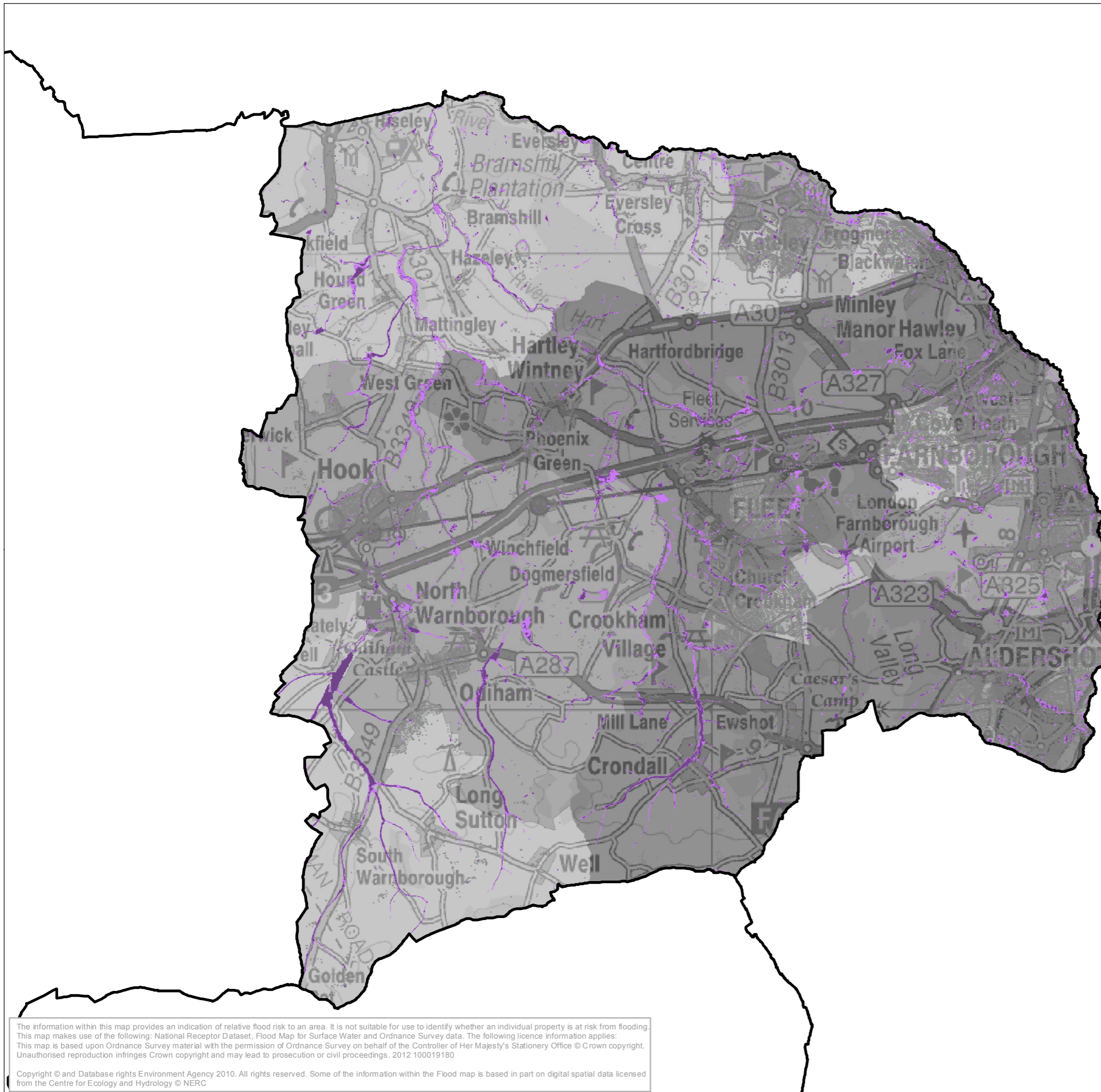
Figure: Eastleigh, Fareham, Gosport and Havant

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Legend

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Annualised Cost of Flooding

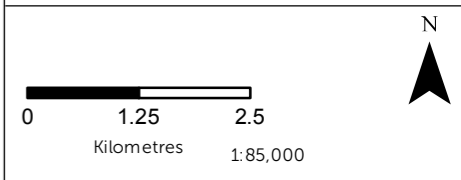
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Project: Hampshire Economic Damages

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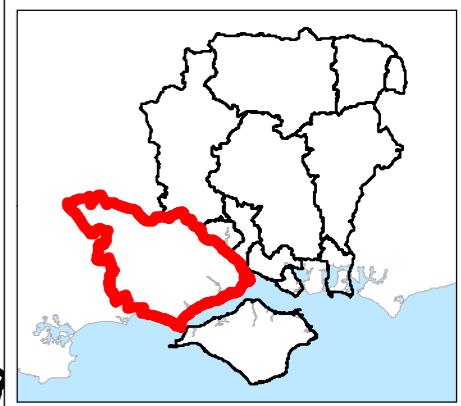
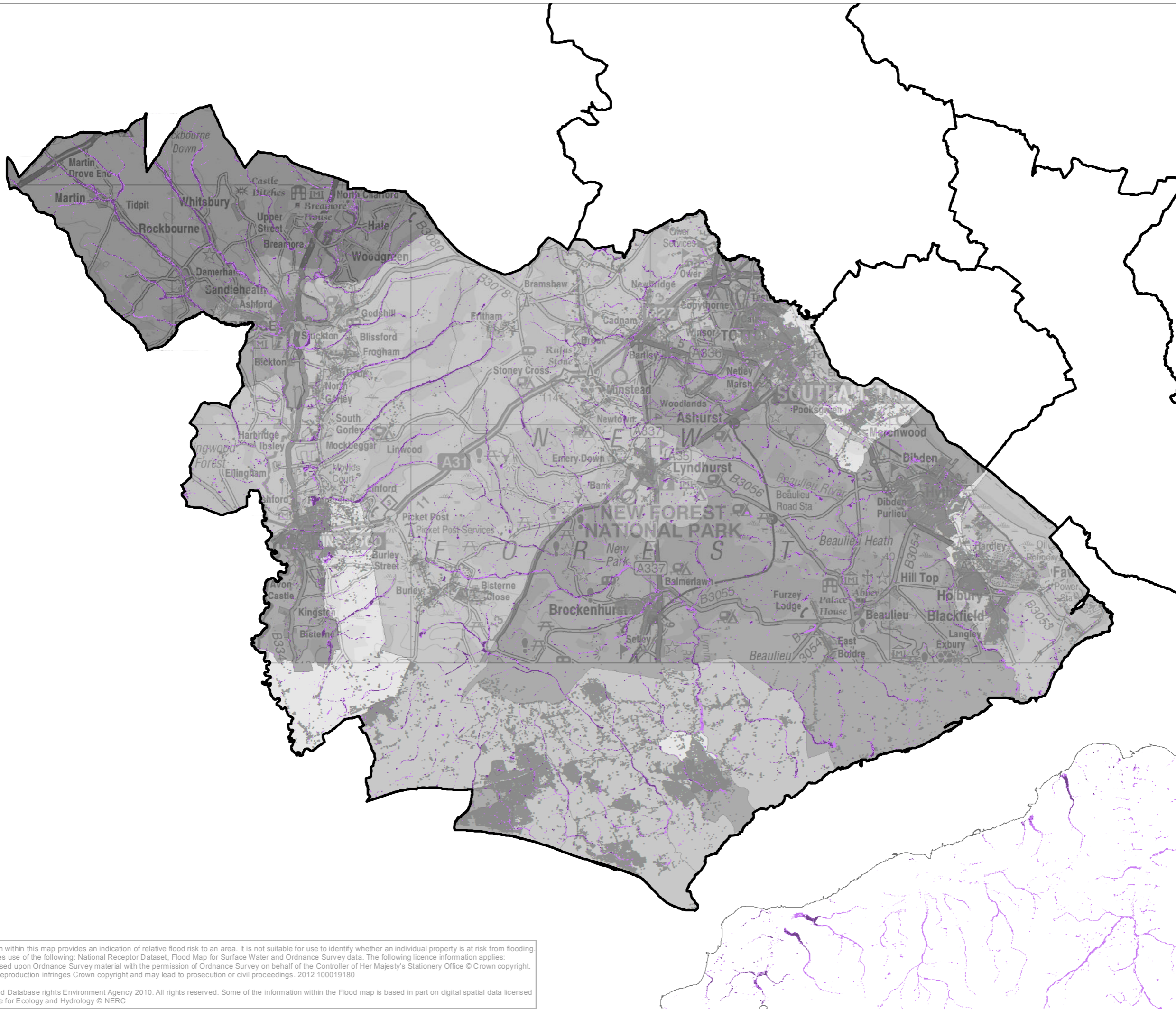
Figure: Hart and Rushmoor

September 2012



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Annualised Cost of Flooding

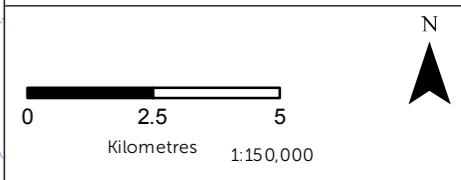
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Project: Hampshire Economic Damages

Title: EA SW Costs

Figure: New Forest

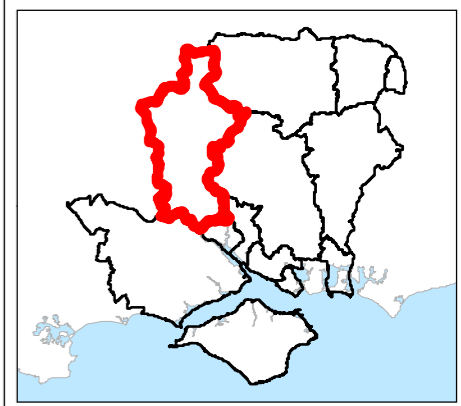
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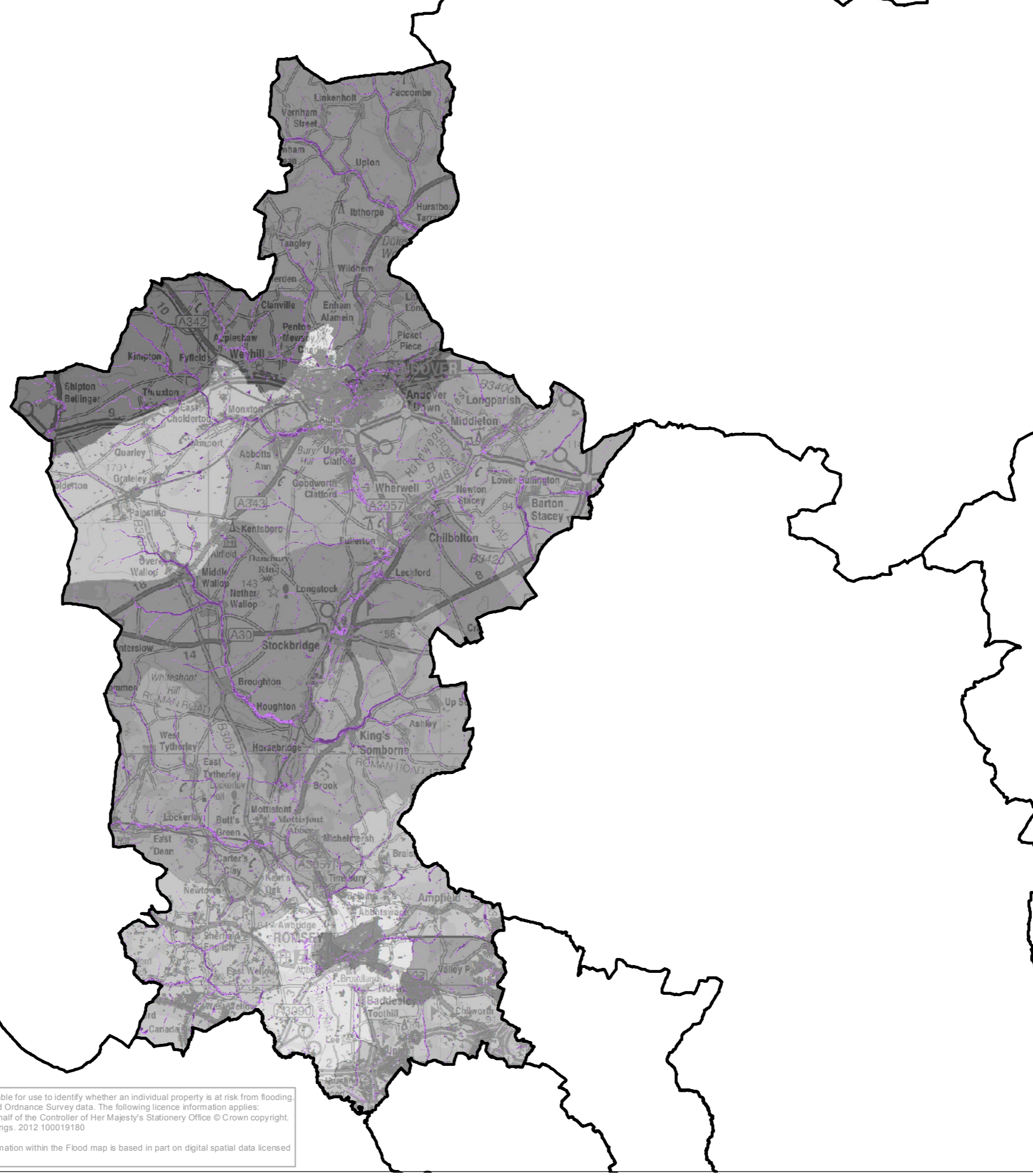
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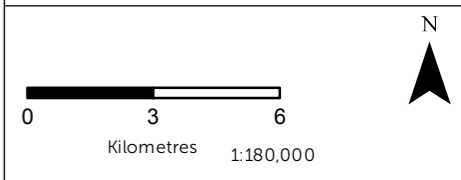


Project: Hampshire Economic Damages

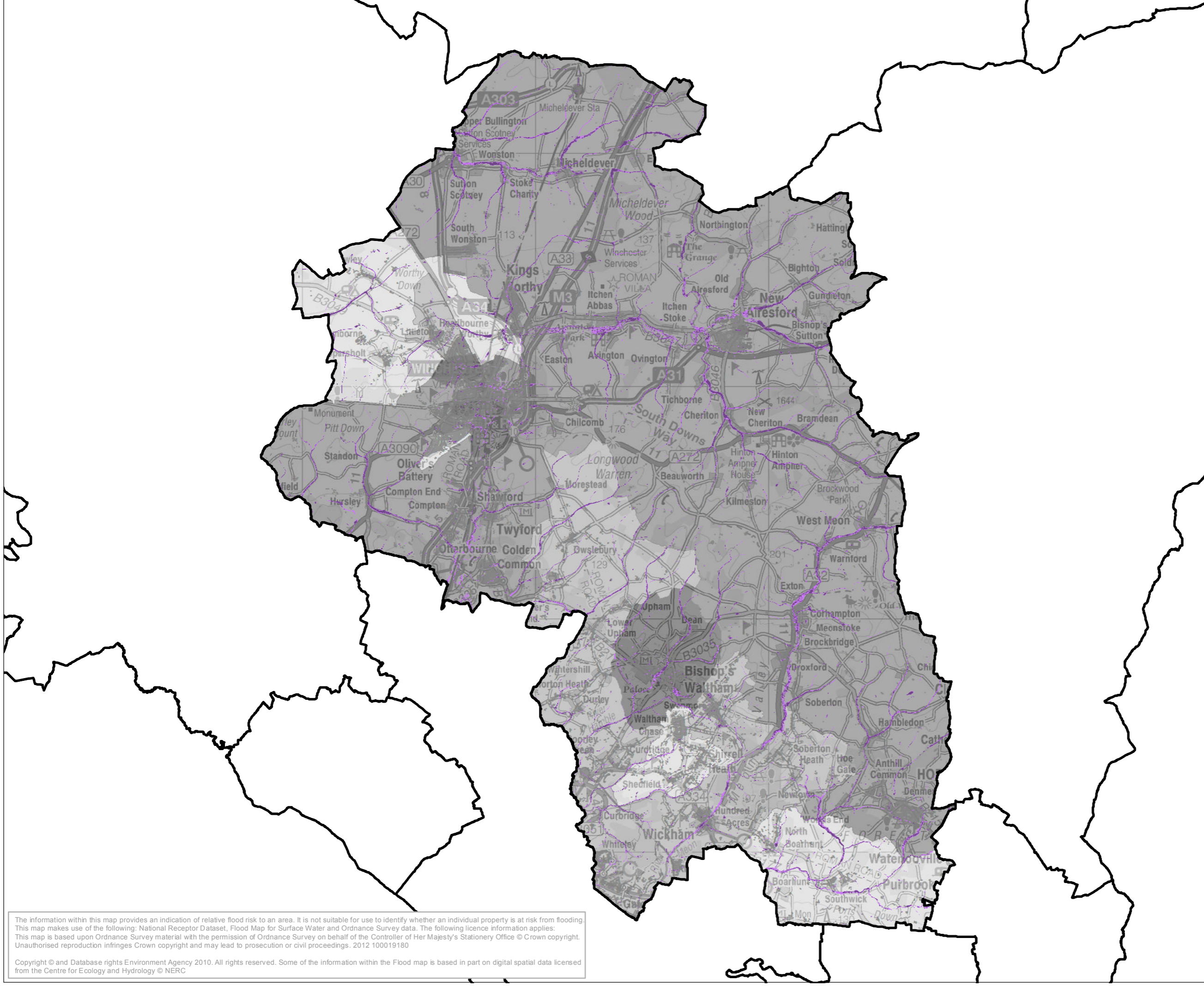
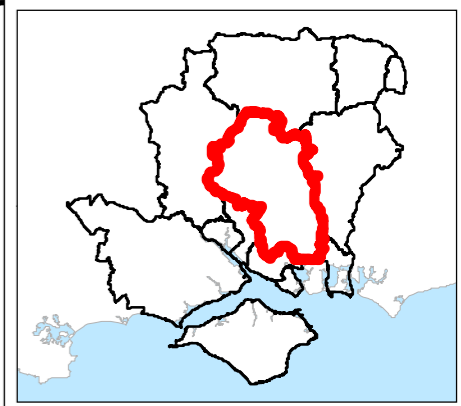
Title: EA SW Costs

Figure: Test Valley

September 2012



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Legend

- Property
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Annualised Cost of Flooding

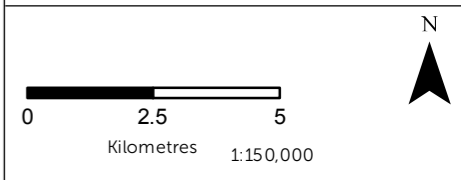
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Project: Hampshire Economic Damages

Title: EA SW Costs

Figure: Winchester

September 2012



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E.1.3 Risk of flooding calculated as an economic cost from Hampshire County Council reported incidents

Figure E10: Basingstoke and Deane

Figure E11: East Hampshire

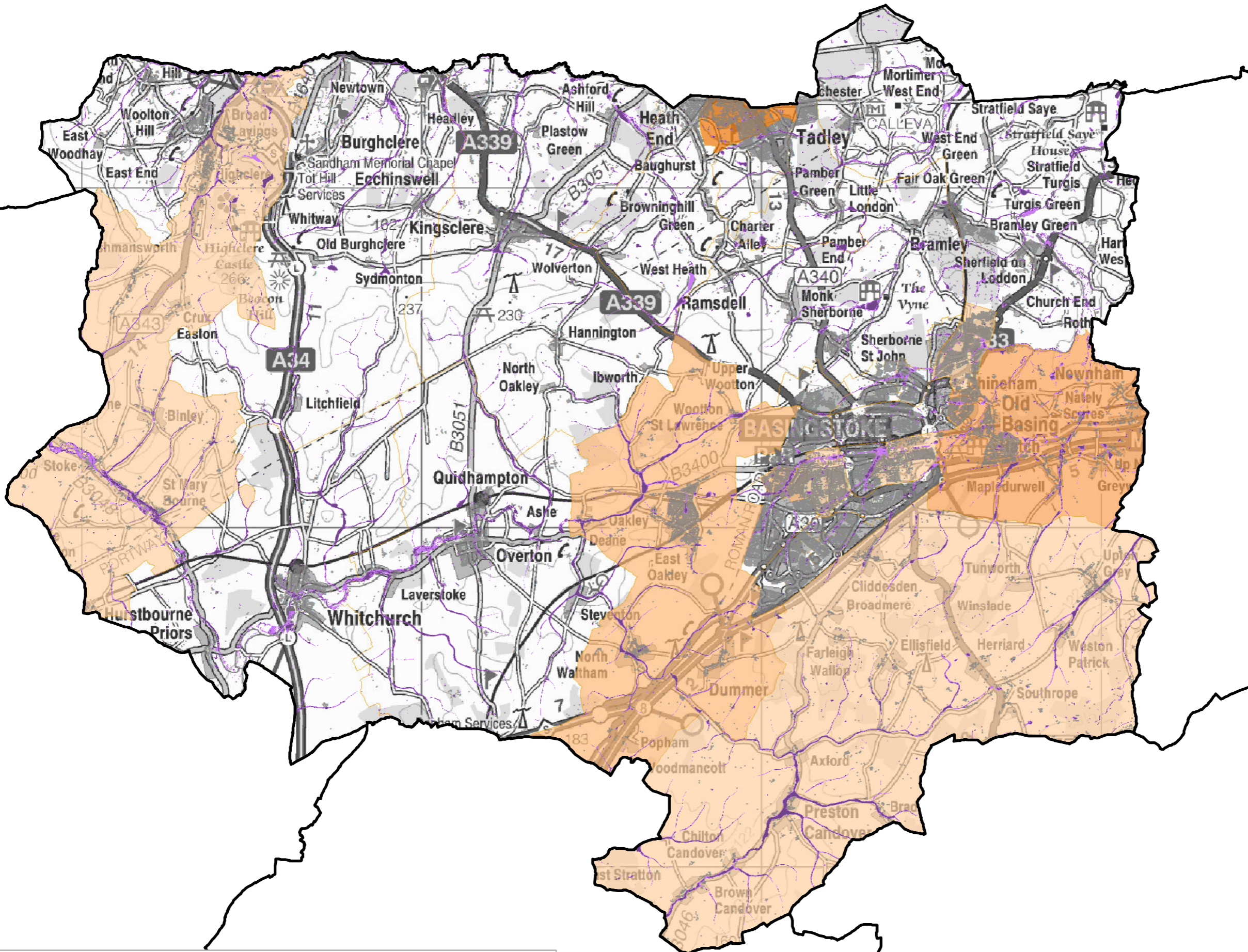
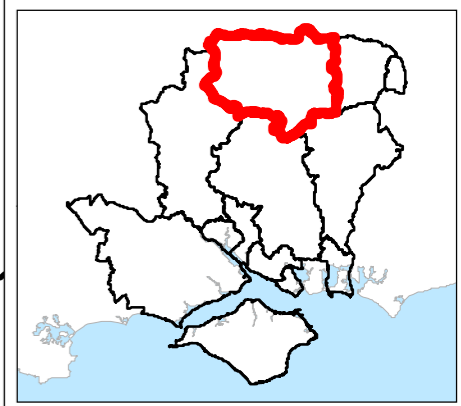
Figure E12: Eastleigh, Fareham, Gosport and Havant

Figure E13: Hart and Rushmoor

Figure E14: New Forest

Figure E15: Test Valley

Figure E16: Winchester



Legend

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Annualised Cost of Flooding

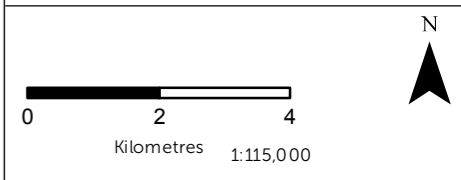
- £0k
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Project: Hampshire Economic Damages

Title: HCC Costs

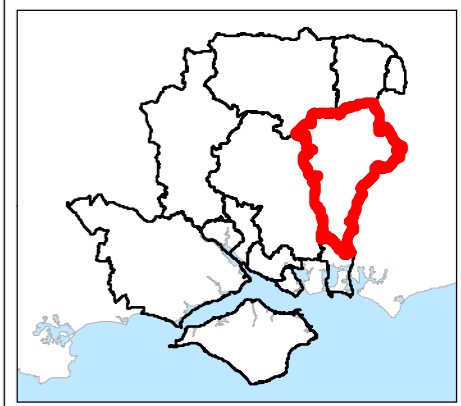
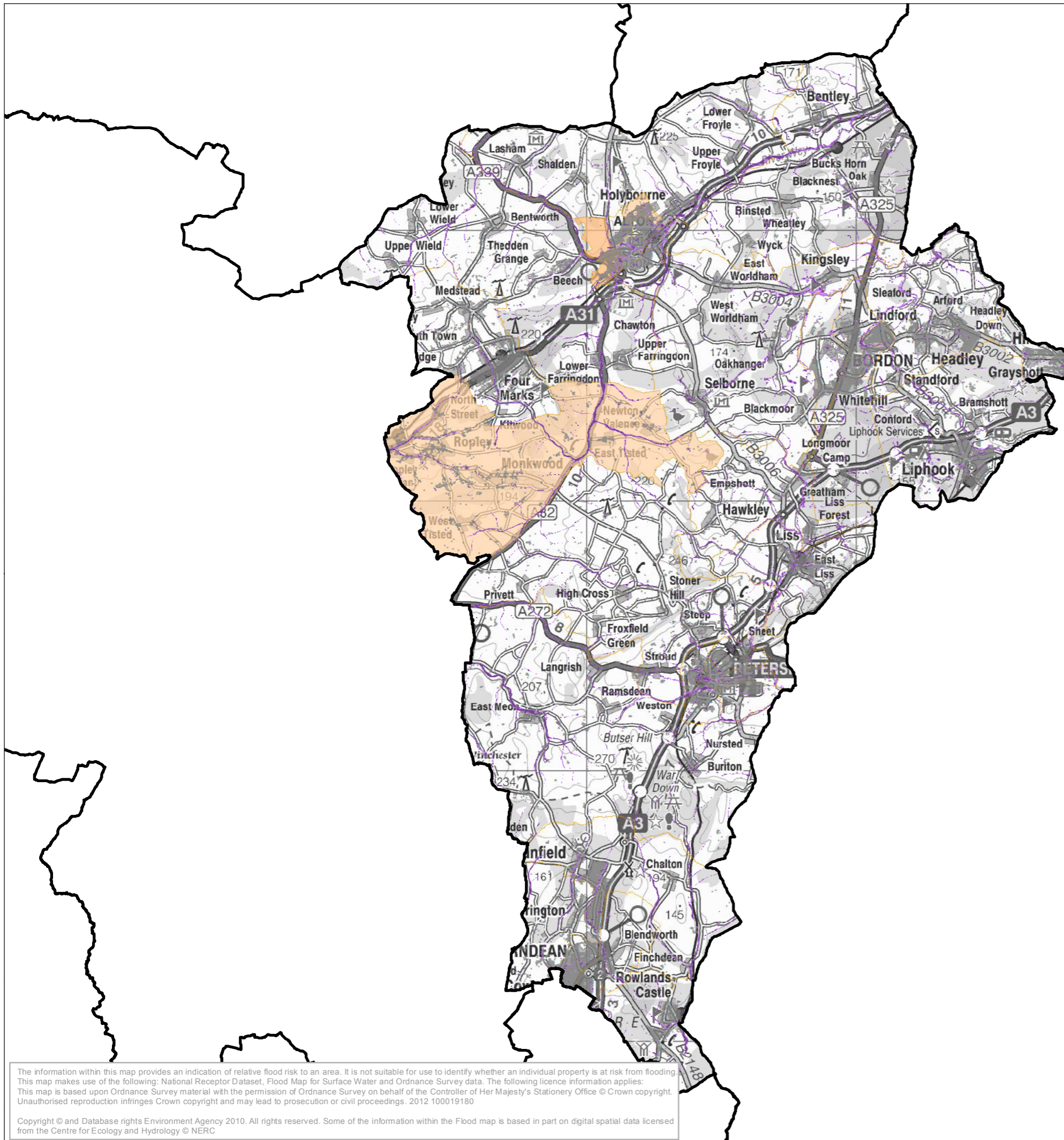
Figure: Basingstoke and Deane

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Annualised Cost of Flooding

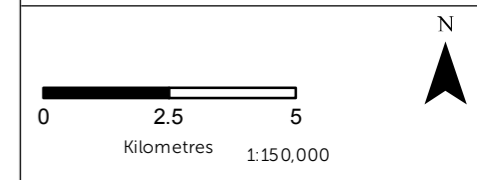
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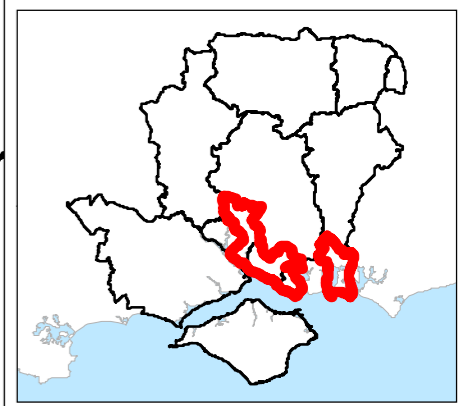
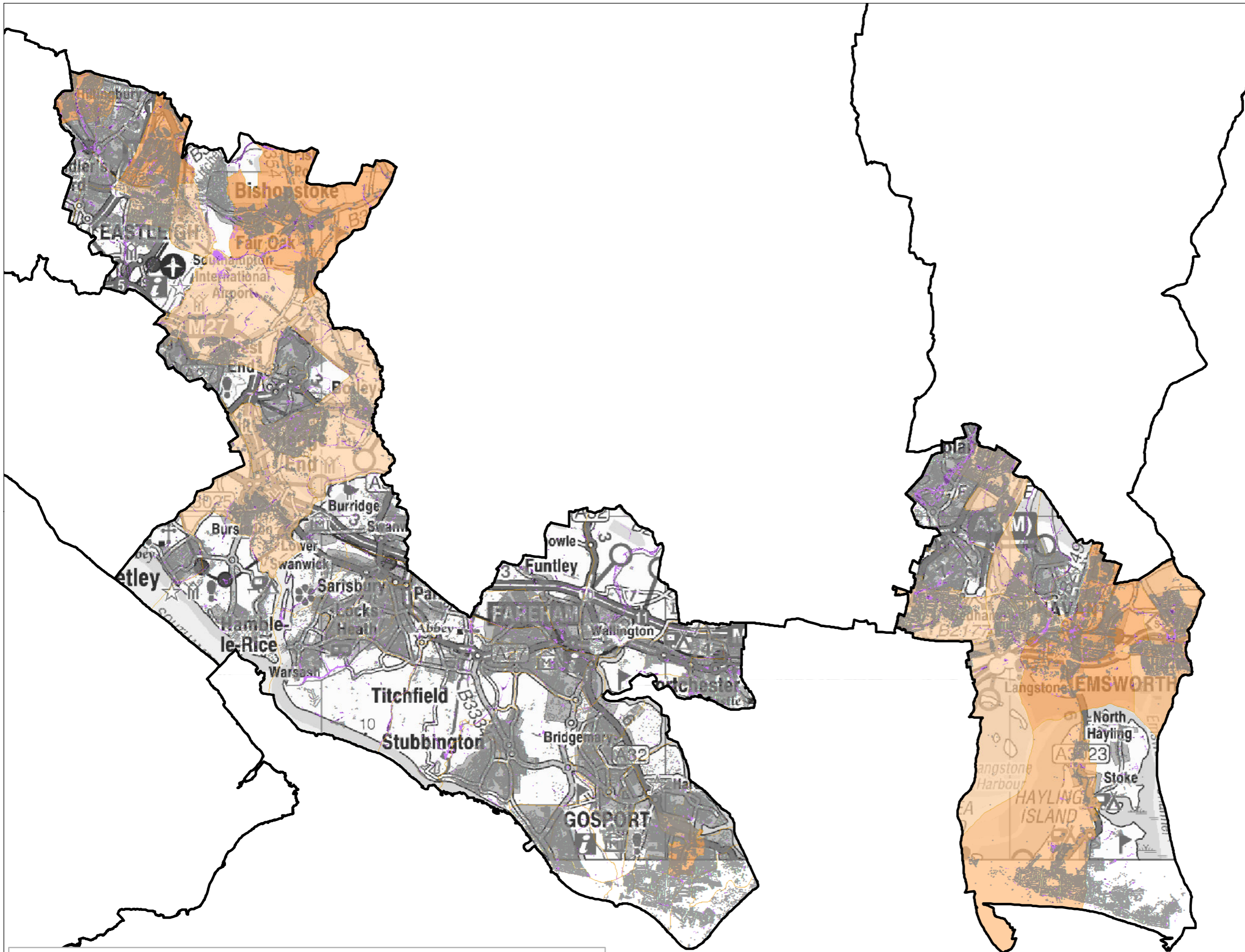
Figure: East Hampshire

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Annualised Cost of Flooding

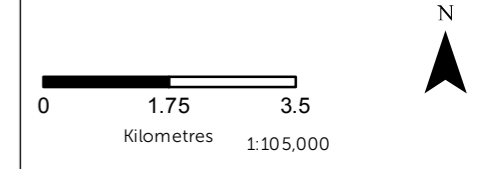
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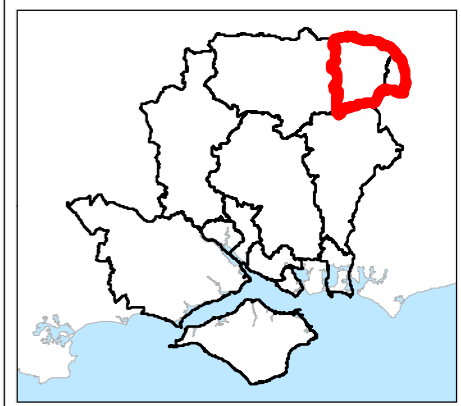
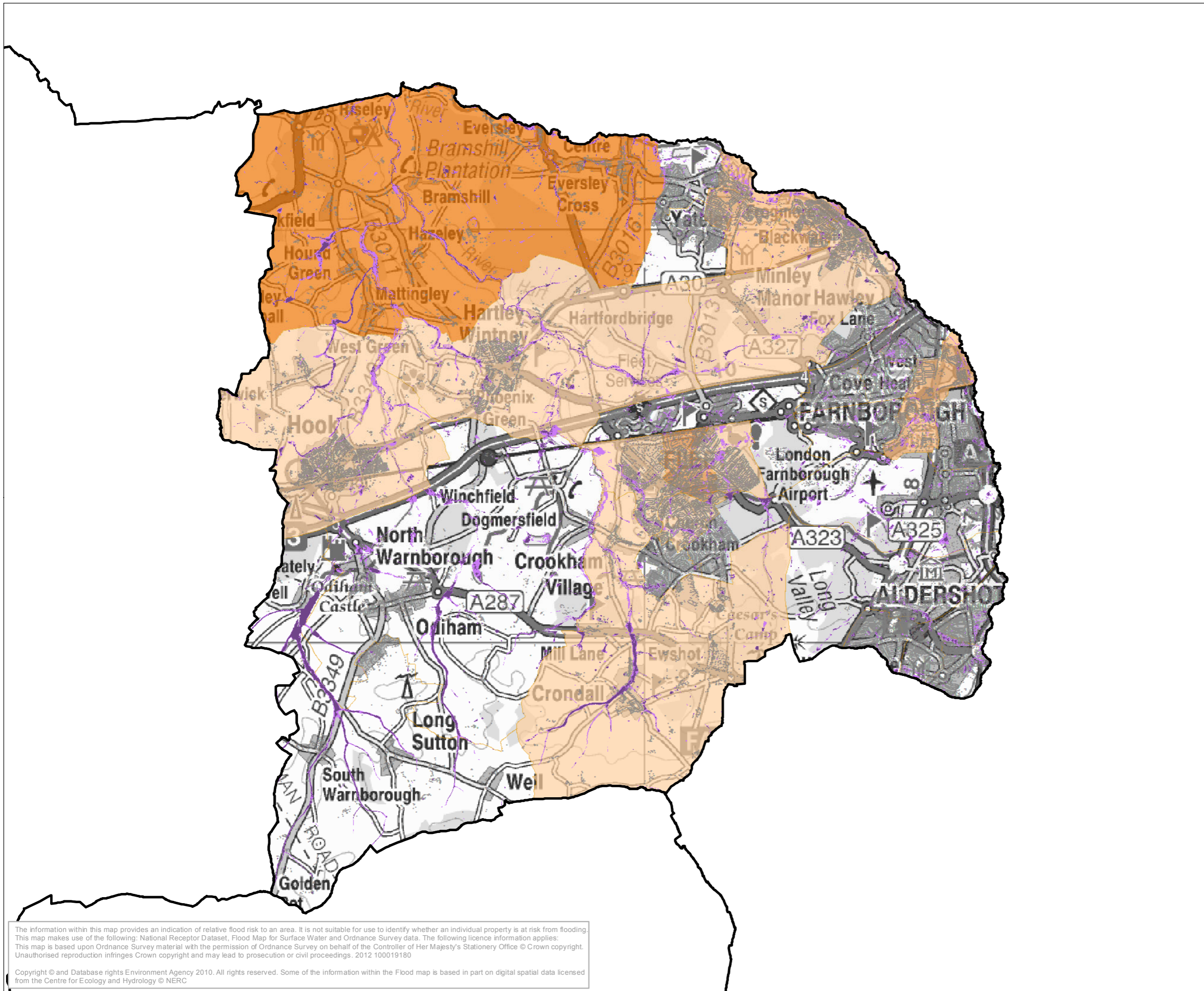
Figure: Eastleigh, Fareham, Gosport and H

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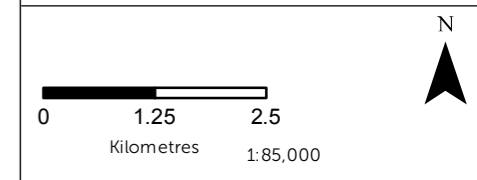
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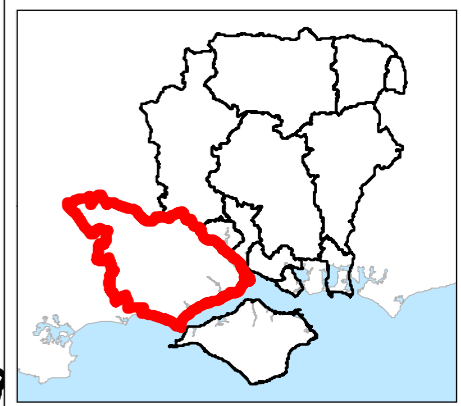
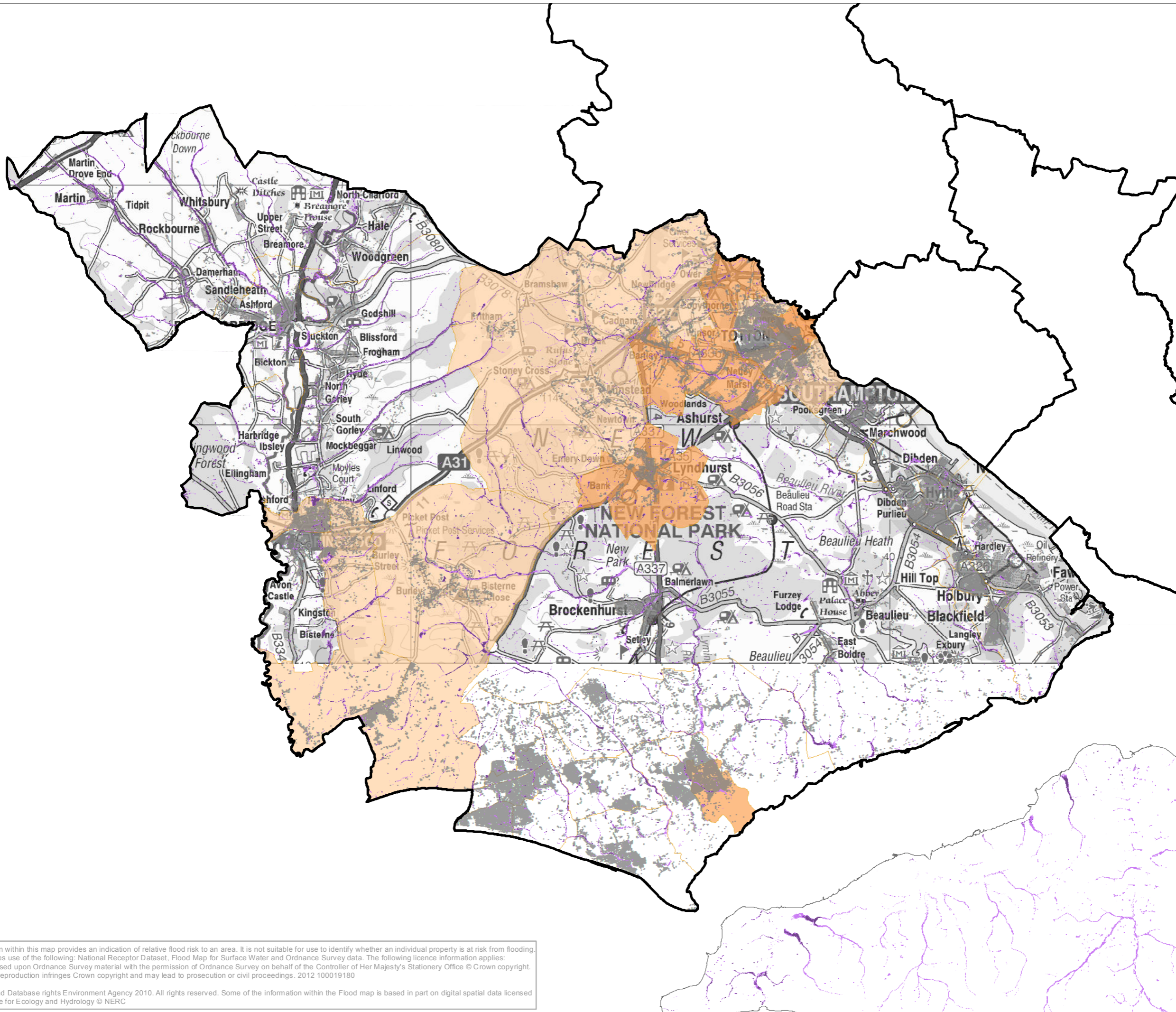
Figure: Hart and Rushmoor

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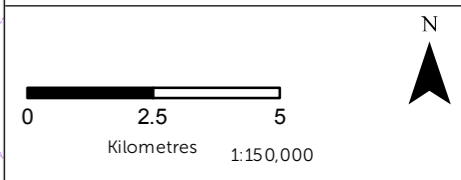
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Project: Hampshire Economic Damages

Title: HCC Costs

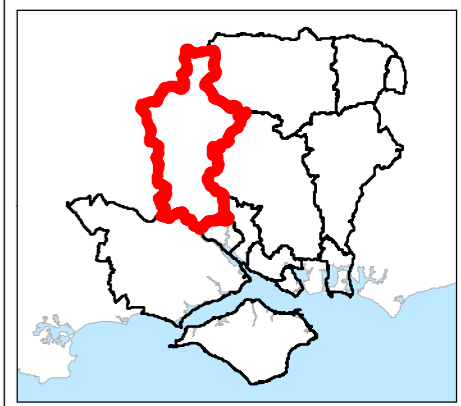
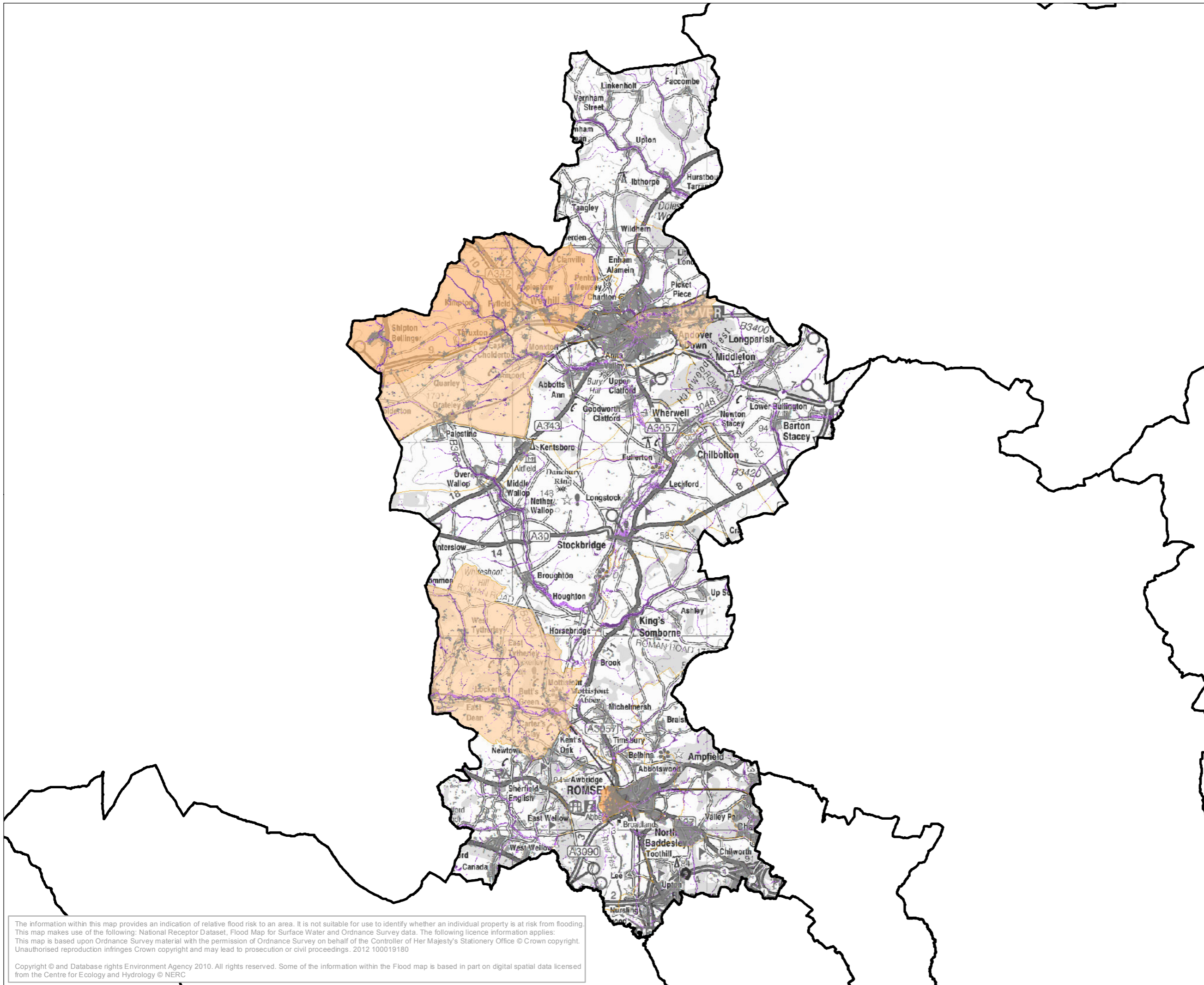
Figure: New Forest

September 2012



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Legend

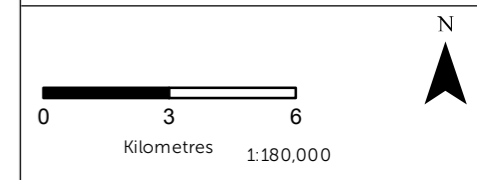
- Property
 - 1 in 30 Year EA Surface Water
 - 1 in 200 Year EA Surface Water
- Annualised Cost of Flooding
- £0k
 - £0k - £5k
 - £5k - £10k
 - £10k - £15k
 - £15k - £20k
 - £20k +

Project: Hampshire Economic Damages

Title: HCC Costs

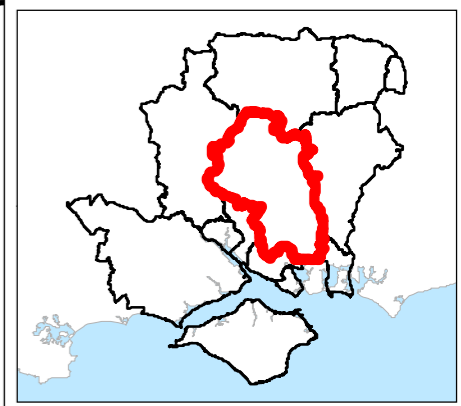
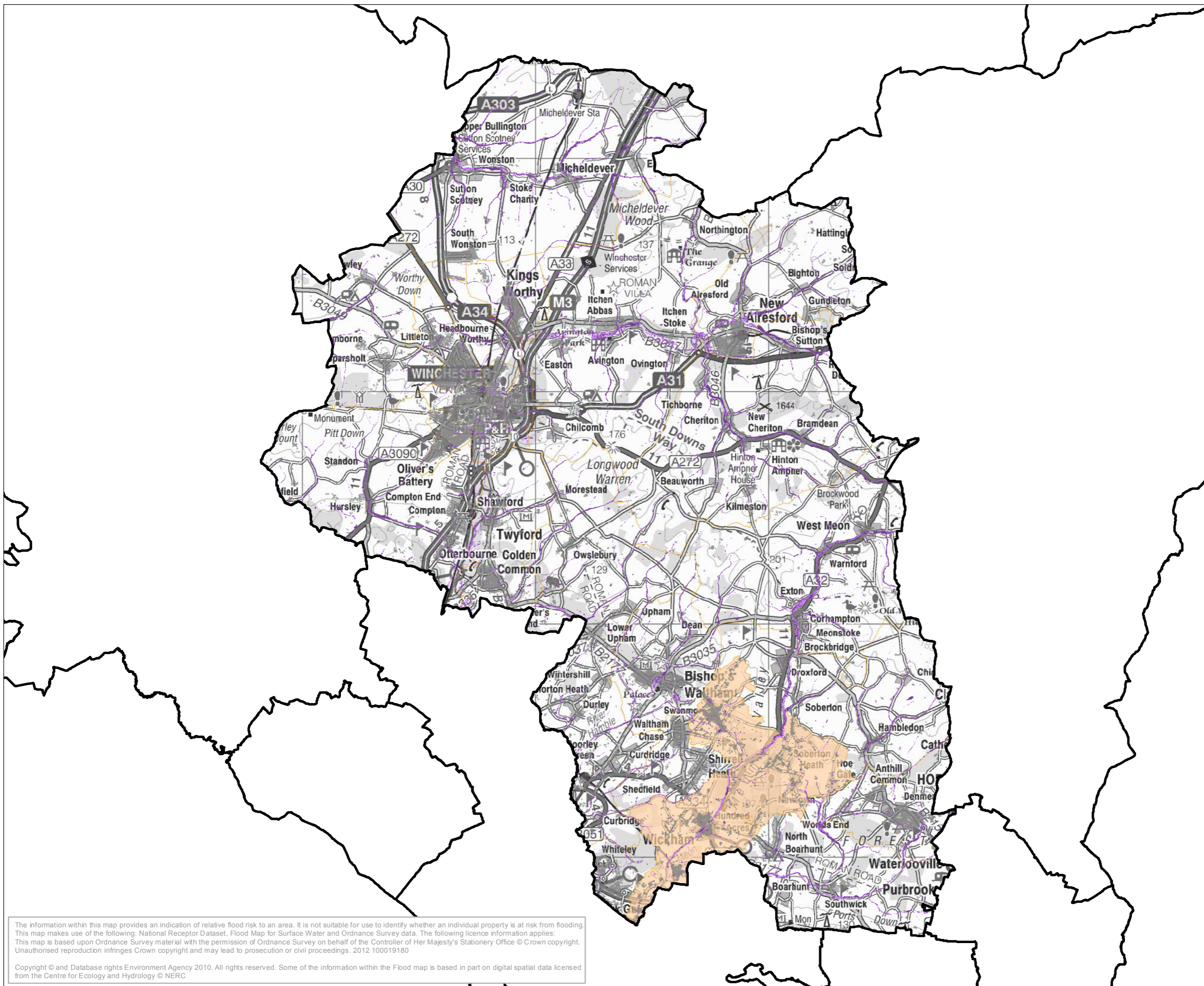
Figure: Test Valley

September 2012



The information within this map provides an indication of relative flood risk to an area. It is not suitable for use to identify whether an individual property is at risk from flooding. This map makes use of the following: National Receptor Dataset, Flood Map for Surface Water and Ordnance Survey data. The following licence information applies: This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. 2012 100019180

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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

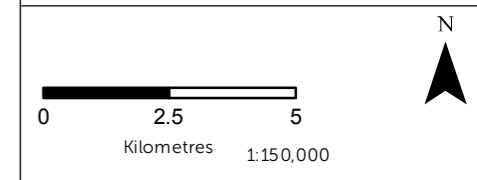
- £0k
- £0k - £5k
- £5k - £10k
- £10k - £15k
- £15k - £20k
- £20k +

Project: Hampshire Economic Damages

Title: HCC Costs

Figure: Winchester

September 2012



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E.1.4 Risk of flooding calculated as an economic cost from records of Groundwater flooding in 2000/2001

Figure E17: Basingstoke and Deane

Figure E18: East Hampshire

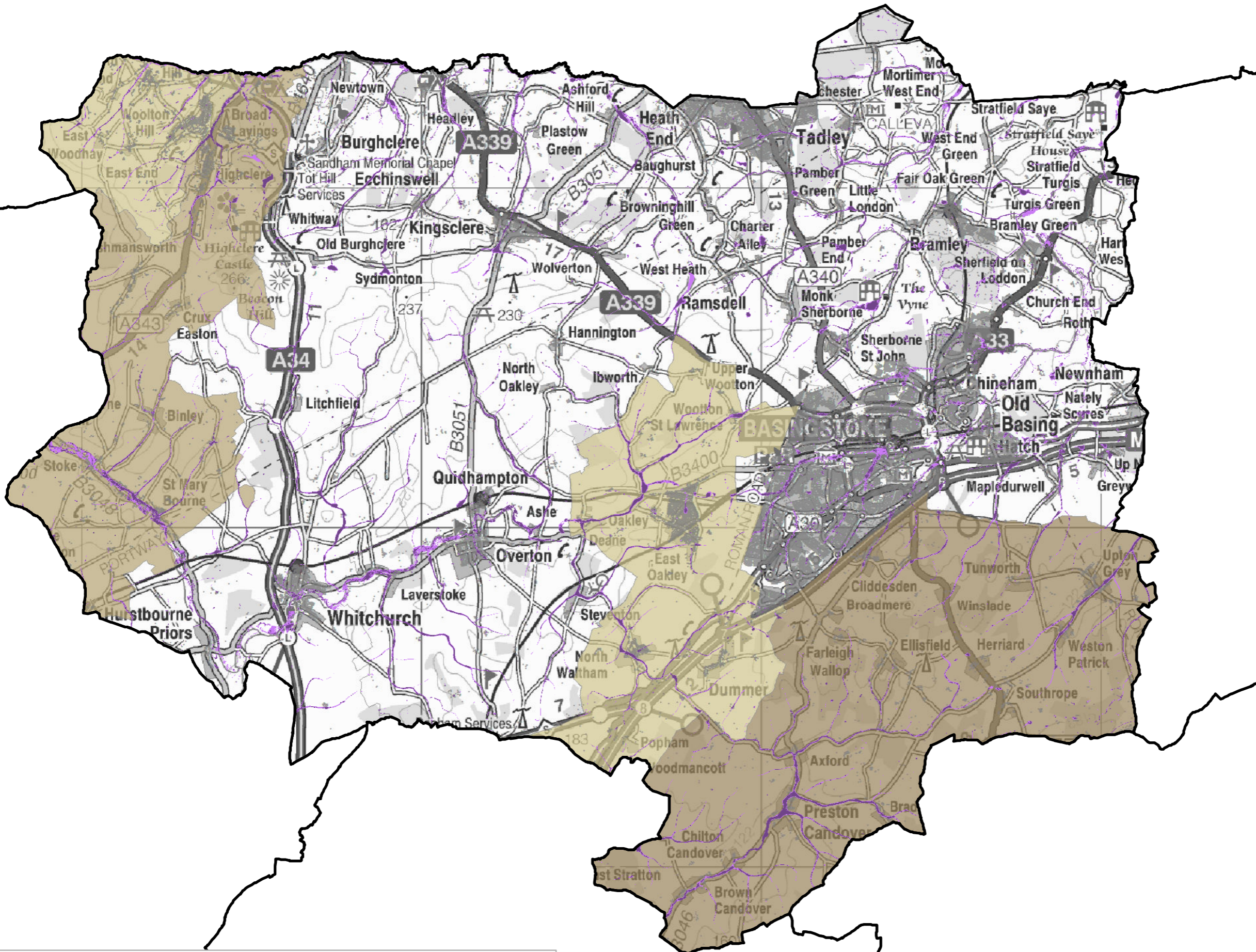
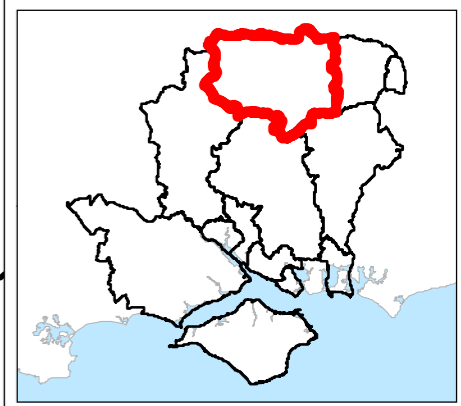
Figure E19: Eastleigh, Fareham, Gosport and Havant

Figure E20: Hart and Rushmoor

Figure E21: New Forest

Figure E22: Test Valley

Figure E23: Winchester



Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

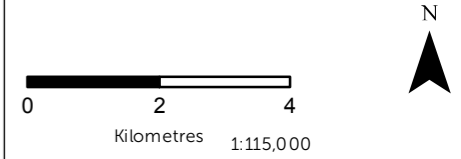
- £0k
- £0k - £10k
- £10k - £25k
- £25k - £50k
- £50k - £100k
- £100k+

Project: Hampshire Economic Damages

Title: Groundwater Costs

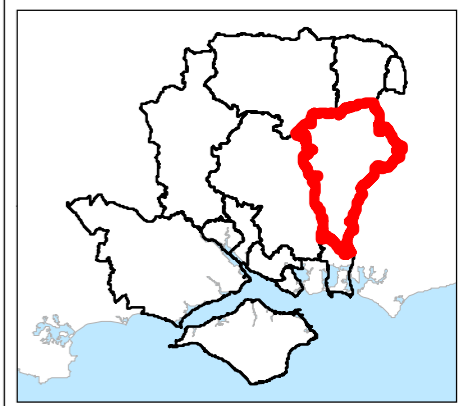
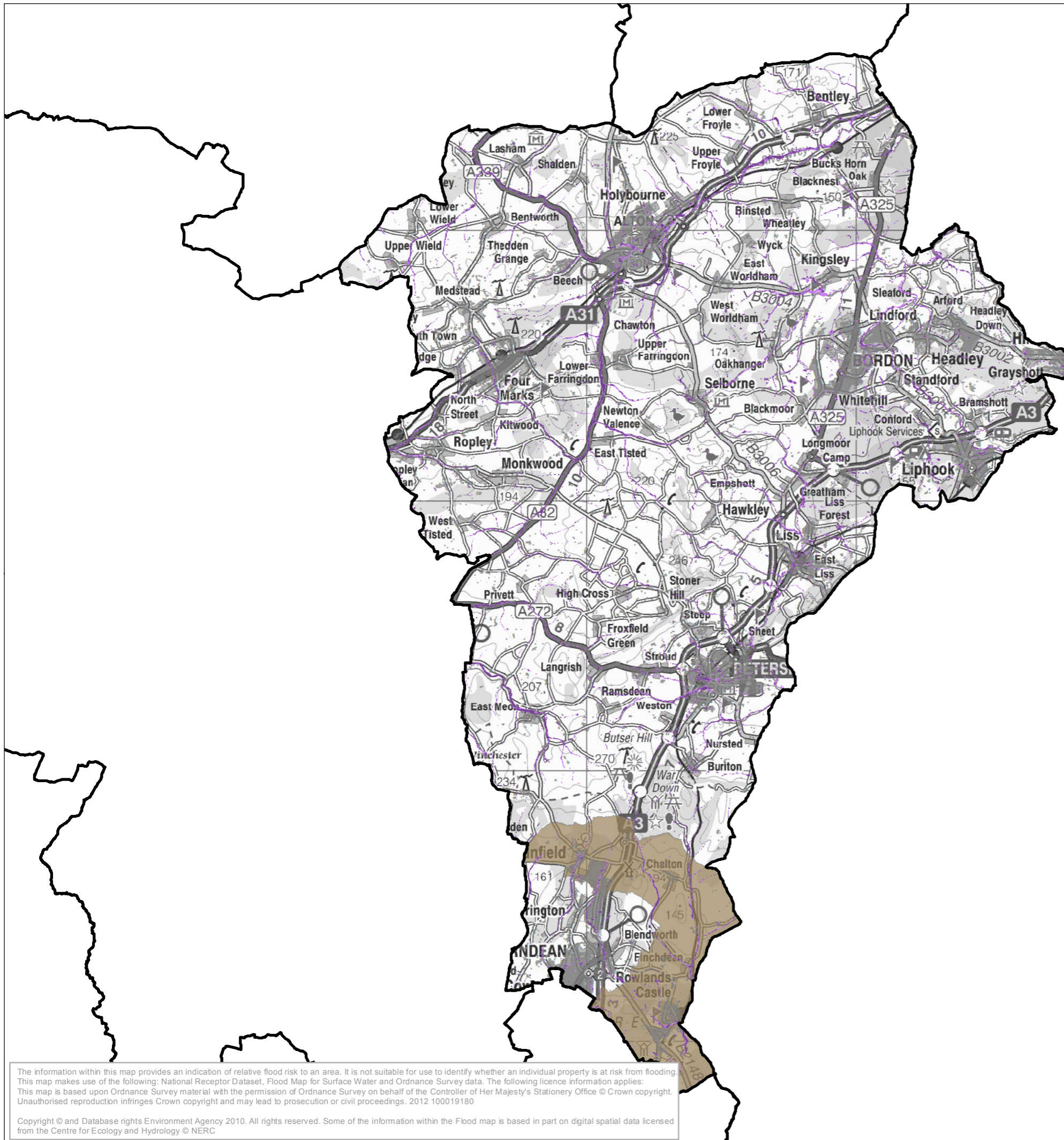
Figure: Basingstoke and Deane

September 2012



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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

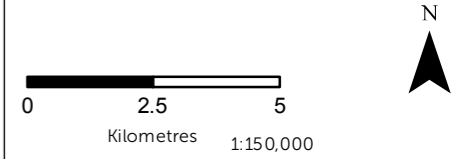
- £0k
- £0k - £10k
- £10k - £25k
- £25k - £50k
- £50k - £100k
- £100k+

Project: Hampshire Economic Damages

Title: Groundwater Costs

Figure: East Hampshire

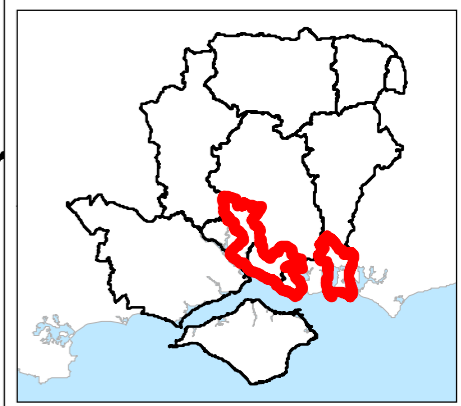
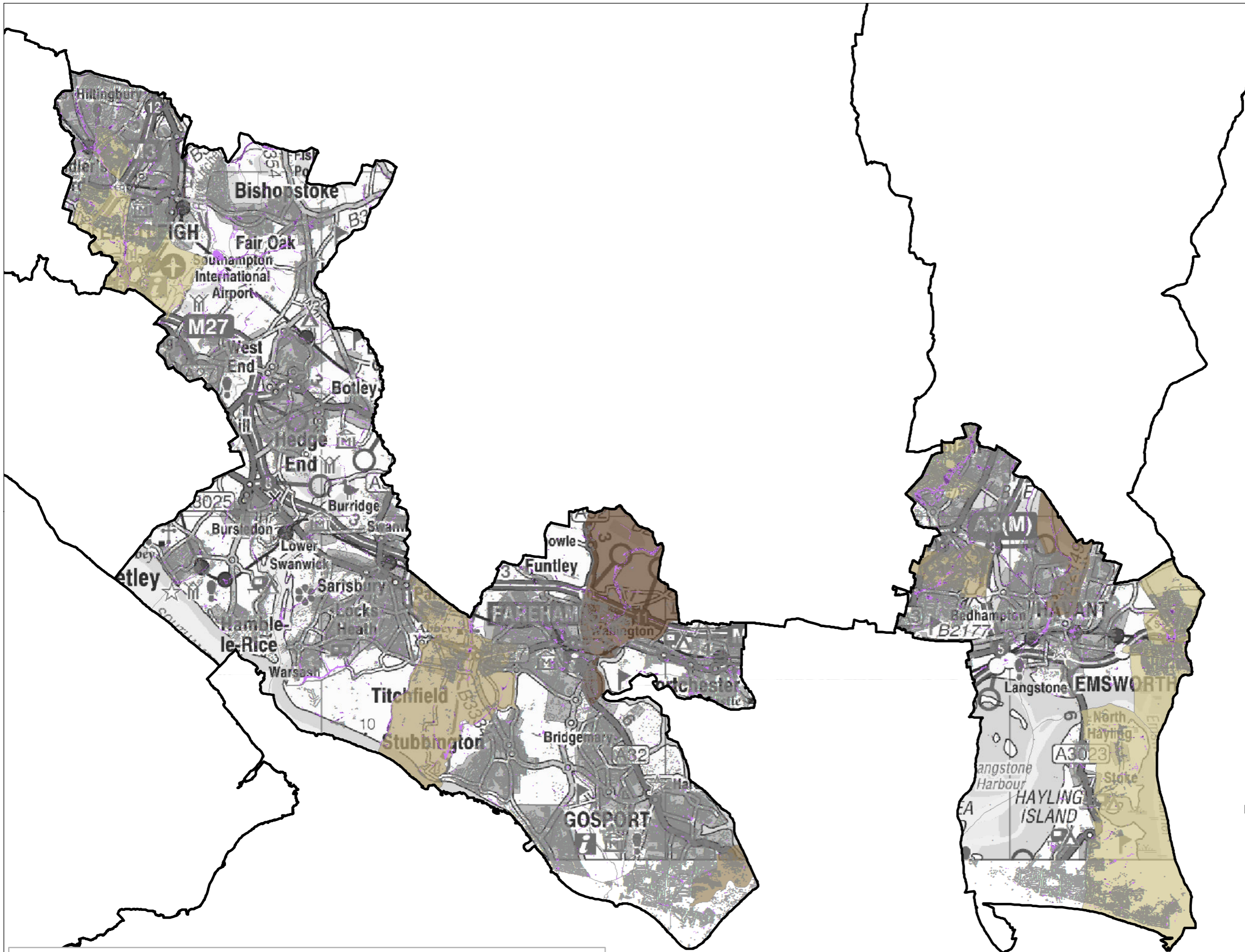
September 2012



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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

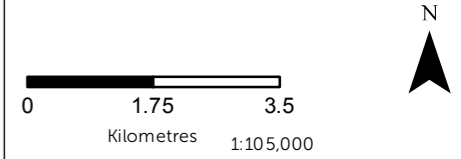
- £0k
- £0k - £10k
- £10k - £25k
- £25k - £50k
- £50k - £100k
- £100k+

Project: Hampshire Economic Damages

Title: Groundwater Costs

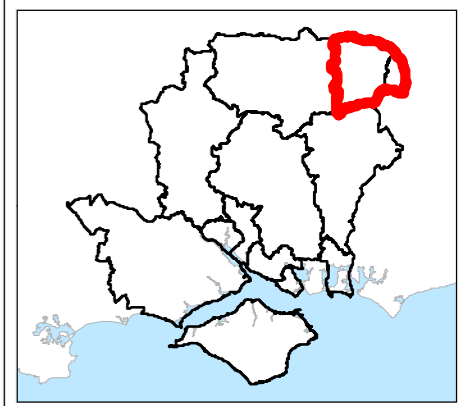
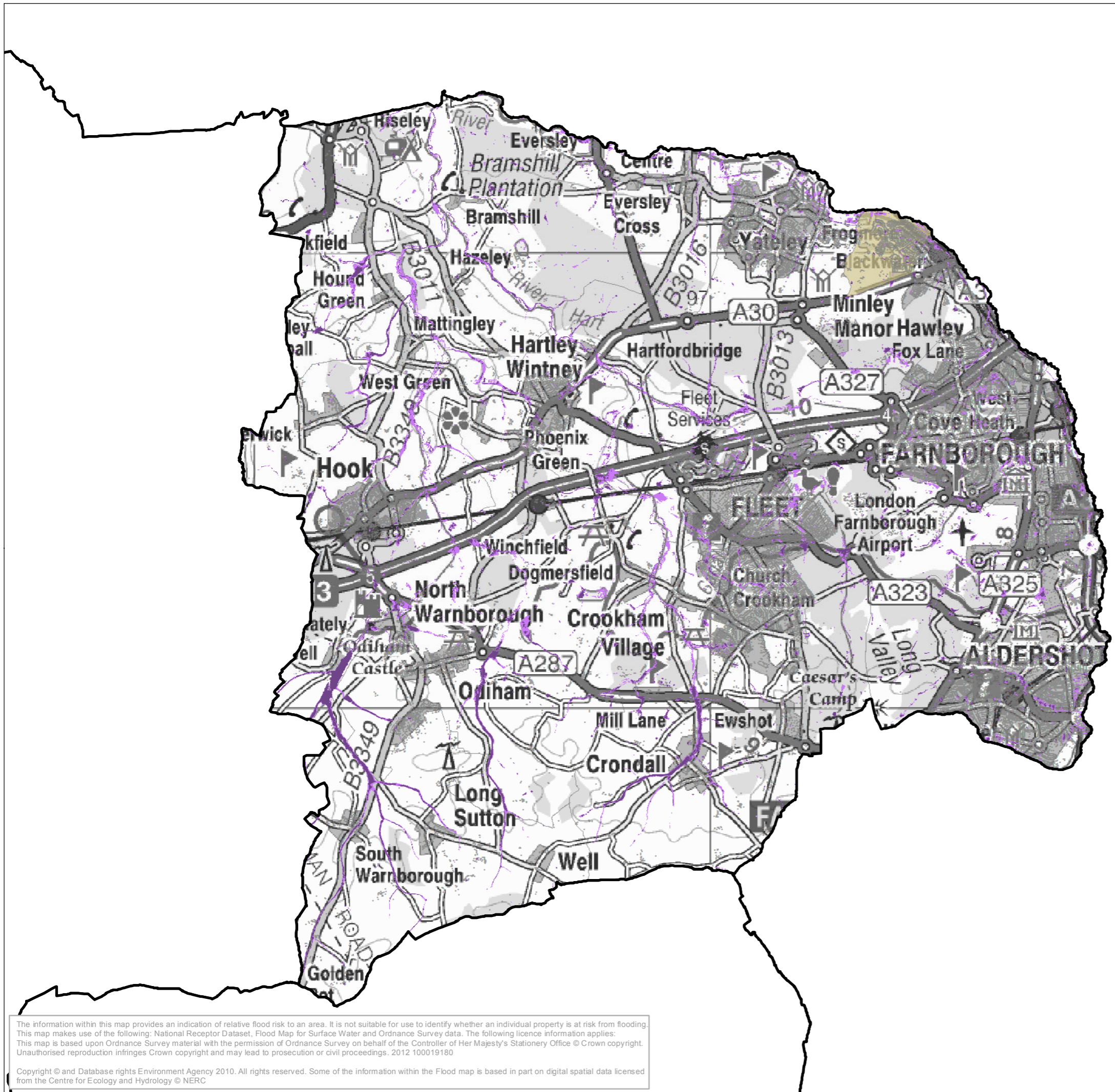
Figure: Eastleigh, Fareham, Gosport and Havant

September 2012



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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

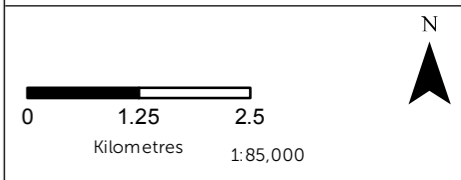
- £0k
- £0k - £10k
- £10k - £25k
- £25k - £50k
- £50k - £100k
- £100k+

Project: Hampshire Economic Damages

Title: Groundwater Costs

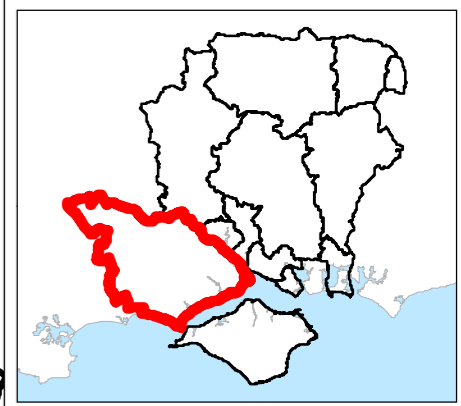
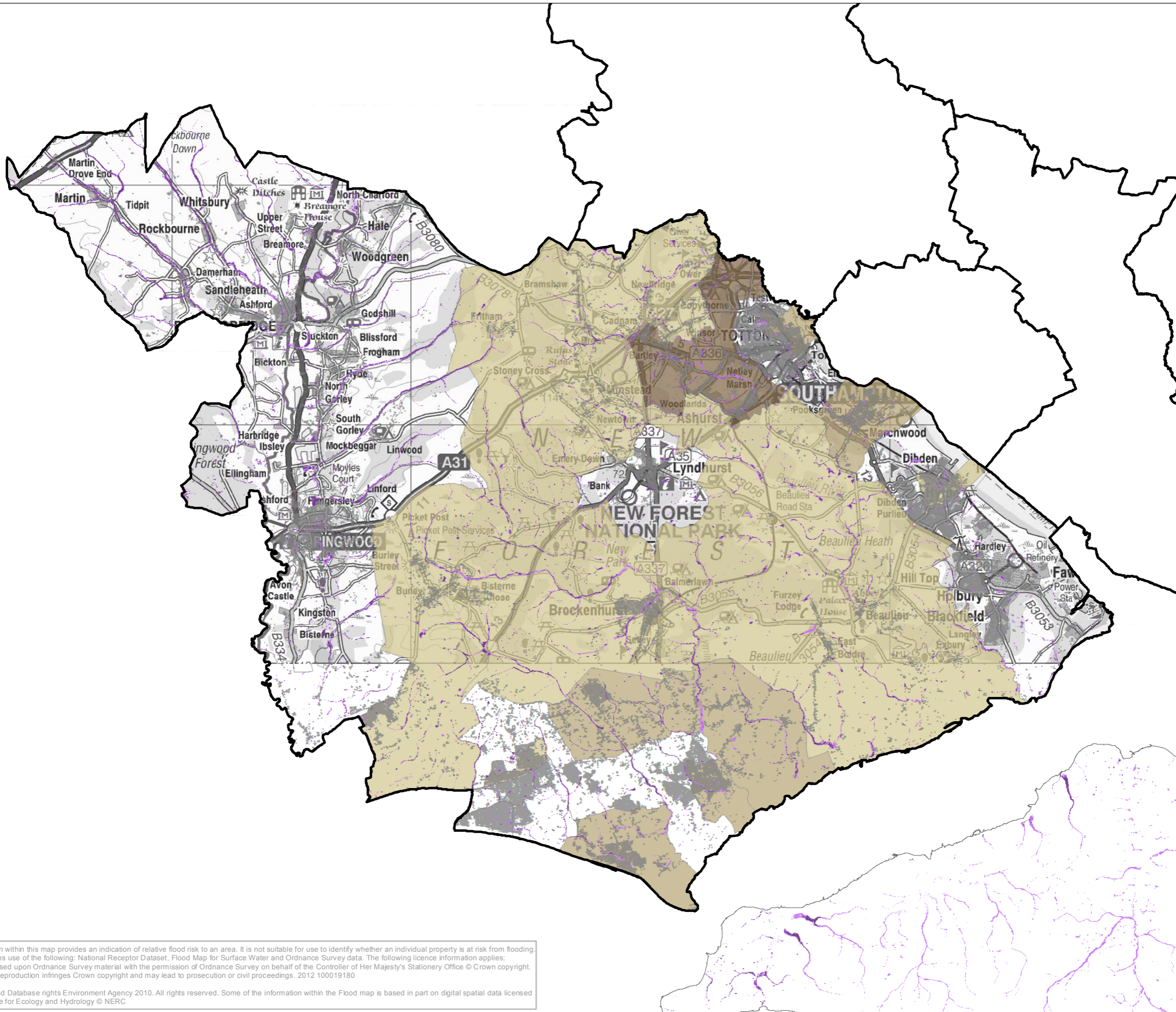
Figure: Hart and Rushmoor

September 2012



The information within this map provides an indication of relative flood risk to an area. It is not suitable for use to identify whether an individual property is at risk from flooding. This map makes use of the following: National Receptor Dataset, Flood Map for Surface Water and Ordnance Survey data. The following licence information applies: This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. 2012 100019180

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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

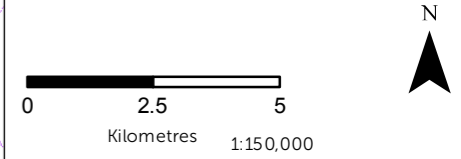
- £0k
- £0k - £10k
- £10k - £25k
- £25k - £50k
- £50k - £100k
- £100k+

Project: Hampshire Economic Damages

Title: Groundwater Costs

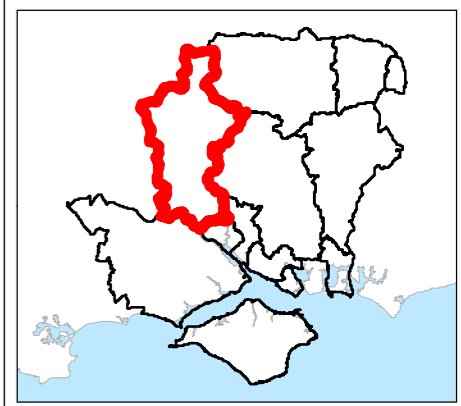
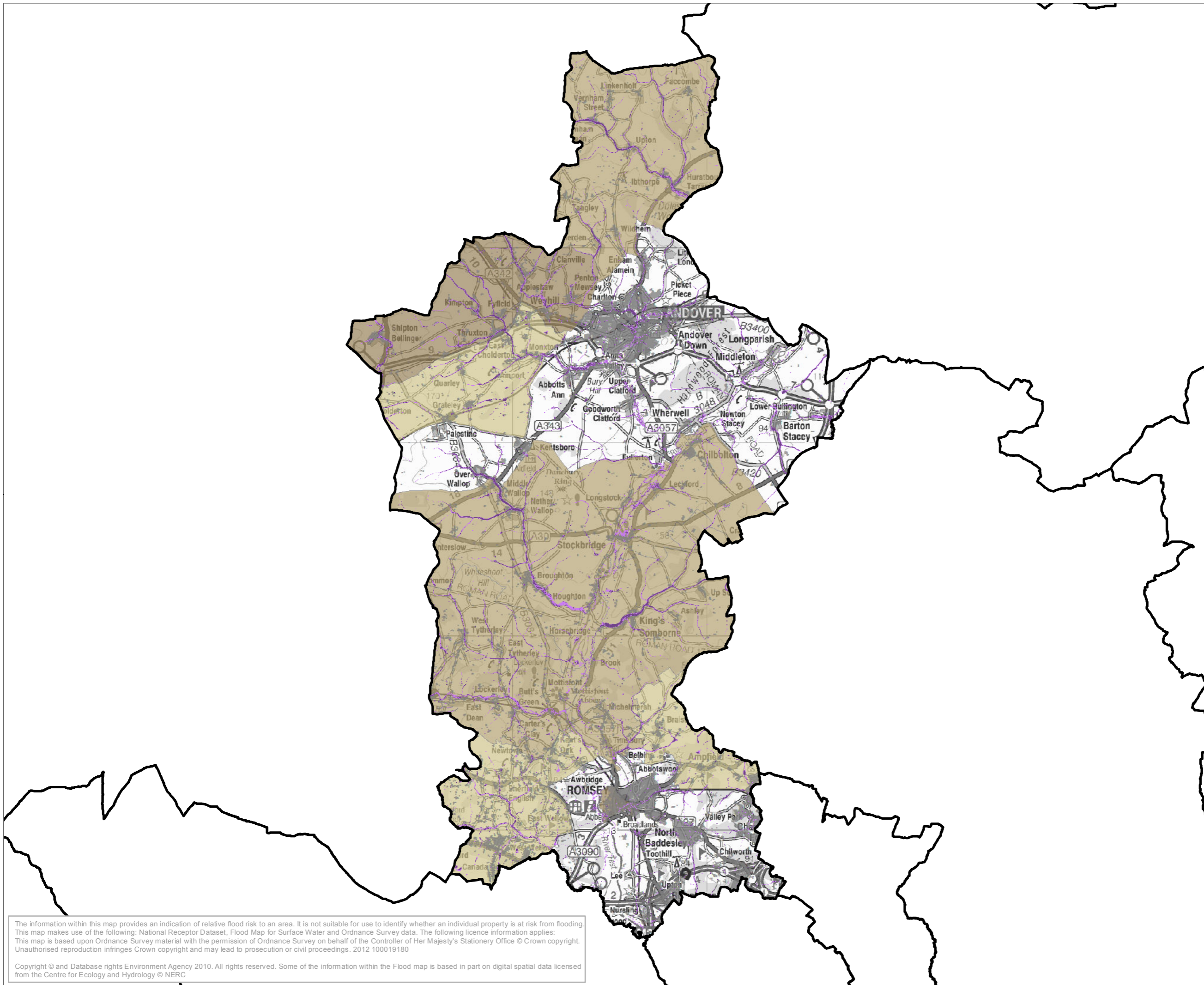
Figure: New Forest

September 2012



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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

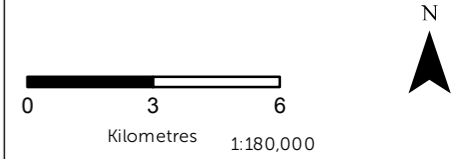
- £0k
- £0k - £10k
- £10k - £25k
- £25k - £50k
- £50k - £100k
- £100k+

Project: Hampshire Economic Damages

Title: Groundwater Costs

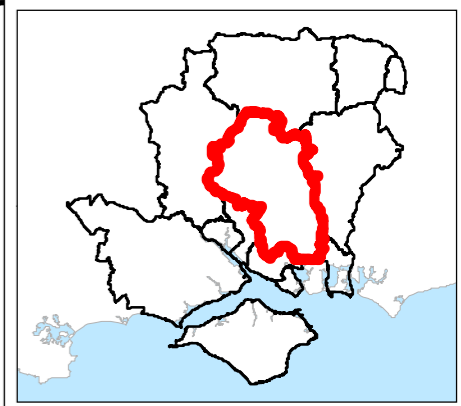
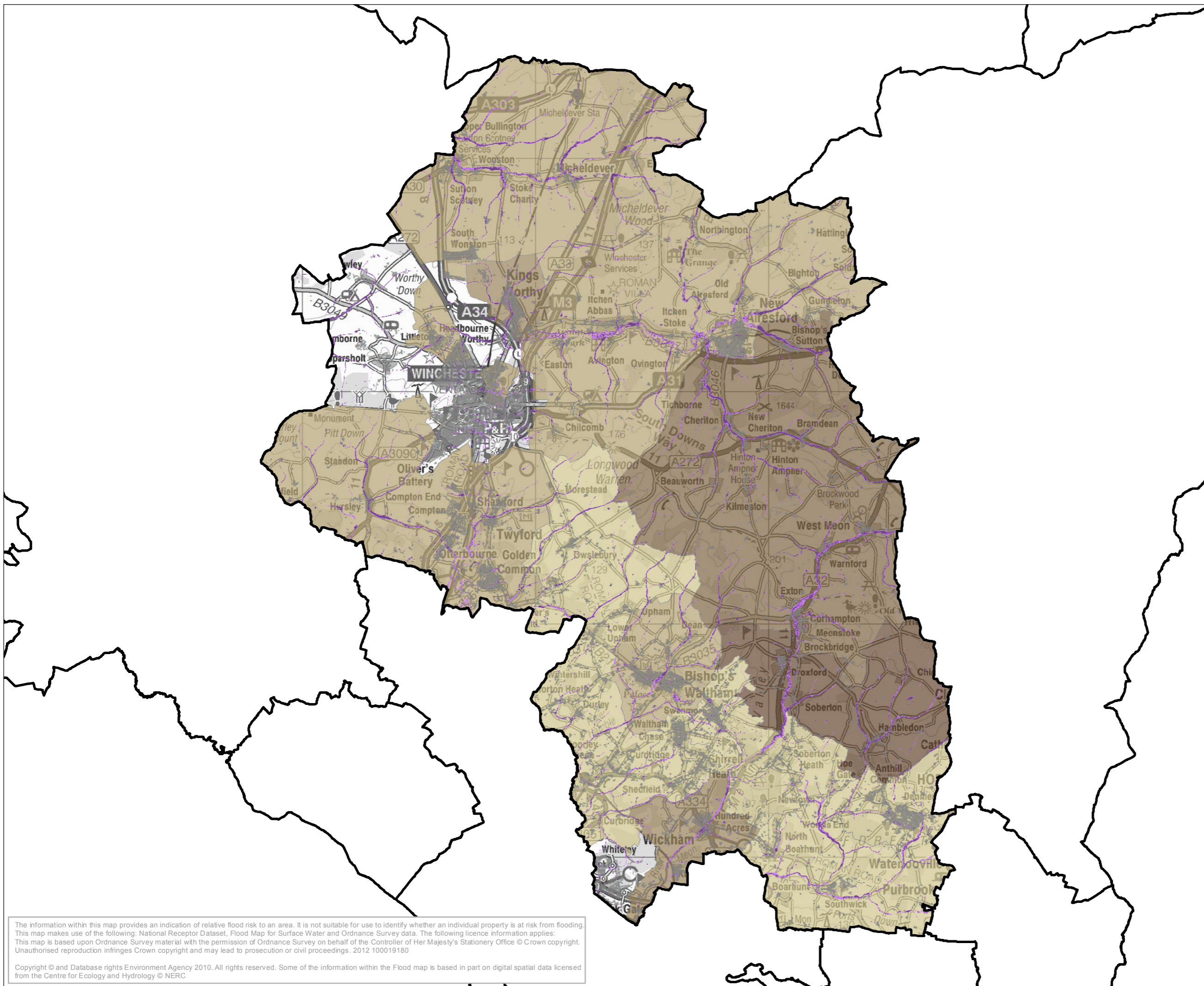
Figure: Test Valley

September 2012



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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

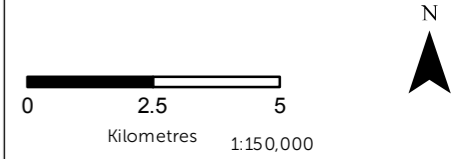
- £0k
- £0k - £10k
- £10k - £25k
- £25k - £50k
- £50k - £100k
- £100k+

Project: Hampshire Economic Damages

Title: Groundwater Costs

Figure: Winchester

September 2012



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E.1.5 Risk of flooding calculated as an economic cost by combing all three data sources

Figure E24: Basingstoke and Deane

Figure E25: East Hampshire

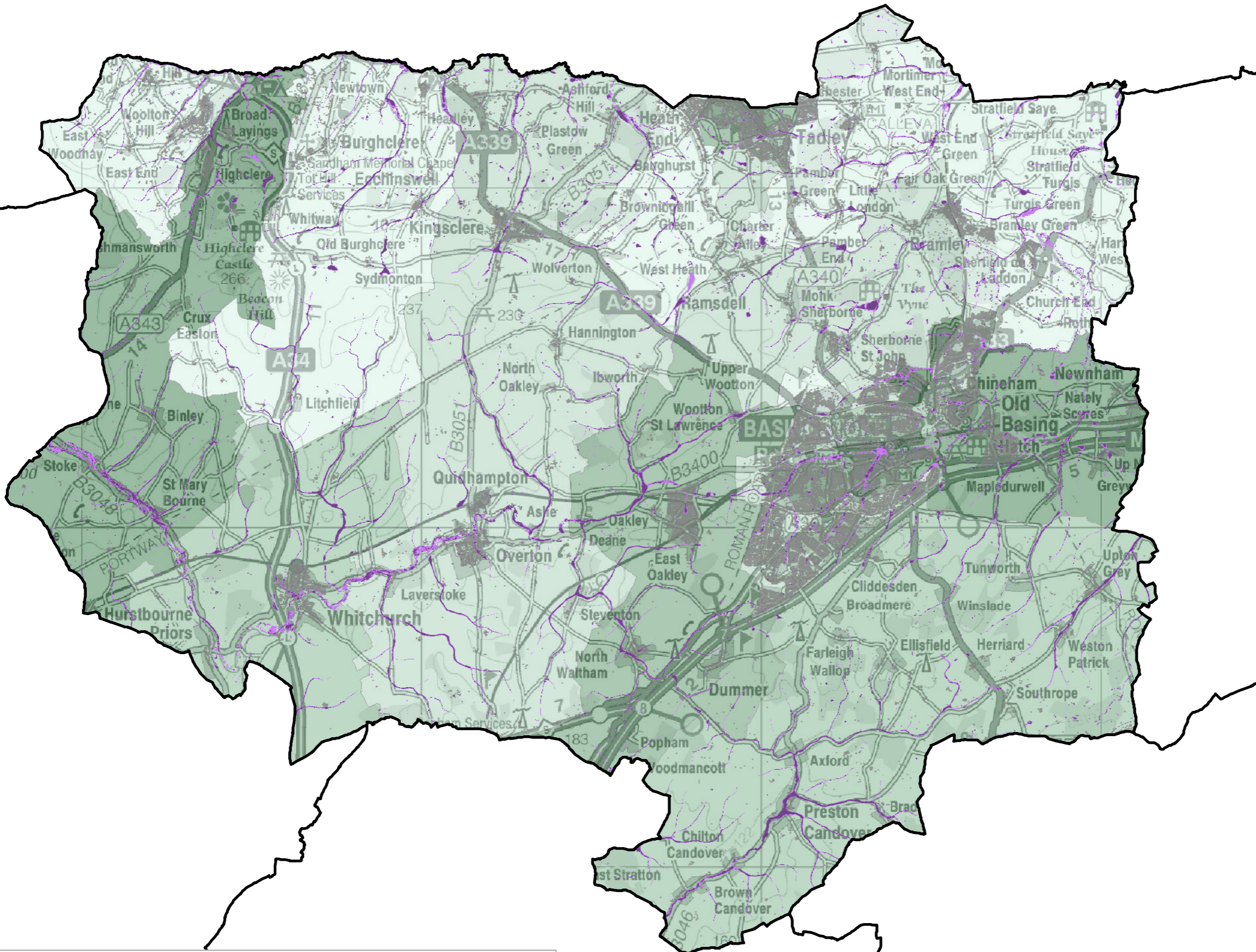
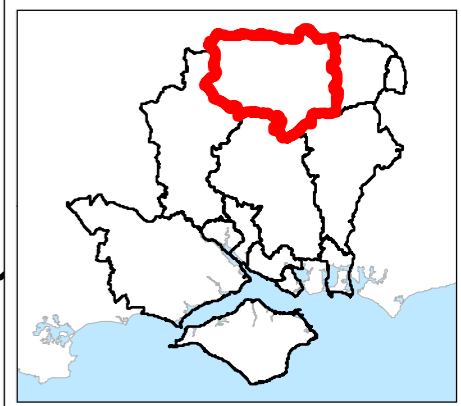
Figure E26: Eastleigh, Fareham, Gosport and Havant

Figure E27: Hart and Rushmoor

Figure E28: New Forest

Figure E29: Test Valley

Figure E30: Winchester



Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

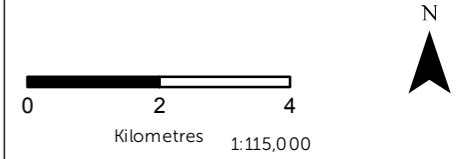
- £0k - £25k
- £25k - £50k
- £50k - £75k
- £75k - £100k
- £100k - £125k
- £125k - £150k
- £150k+

Project: Hampshire Economic Damages

Title: Total Combined Costs

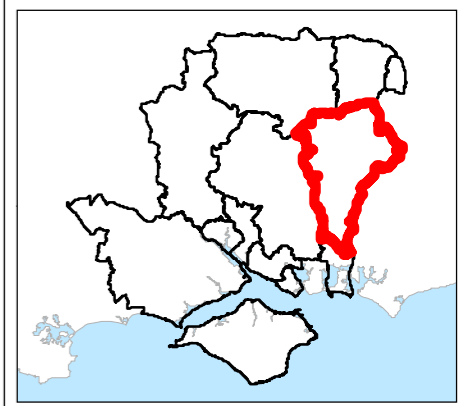
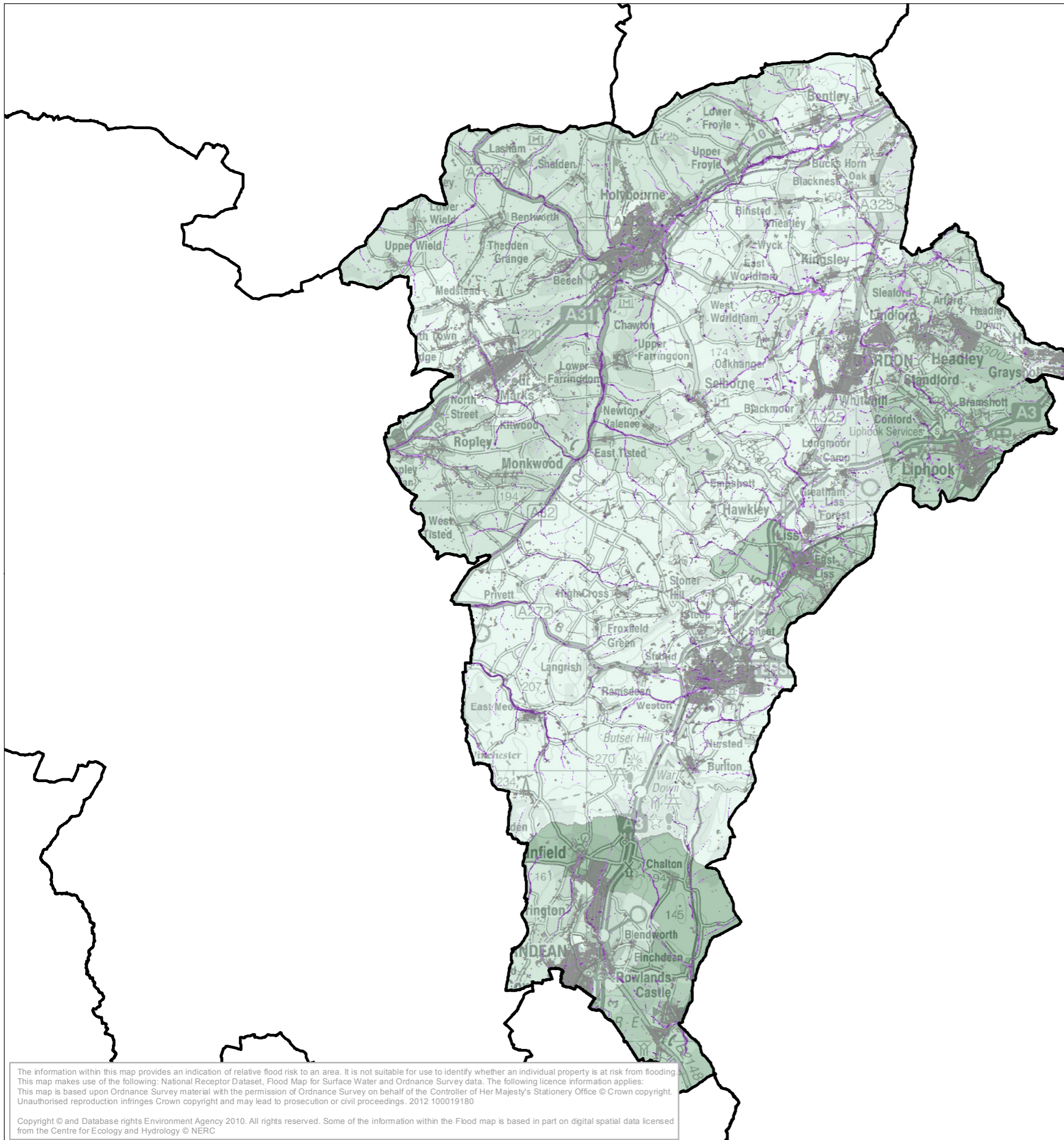
Figure: Basingstoke and Deane

September 2012



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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

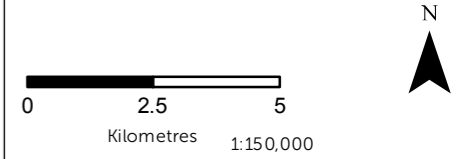
- £0k - £25k
- £25k - £50k
- £50k - £75k
- £75k - £100k
- £100k - £125k
- £125k - £150k
- £150k+

Project: Hampshire Economic Damages

Title: Total Combined Costs

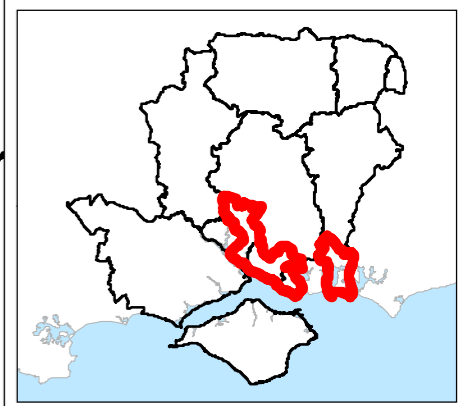
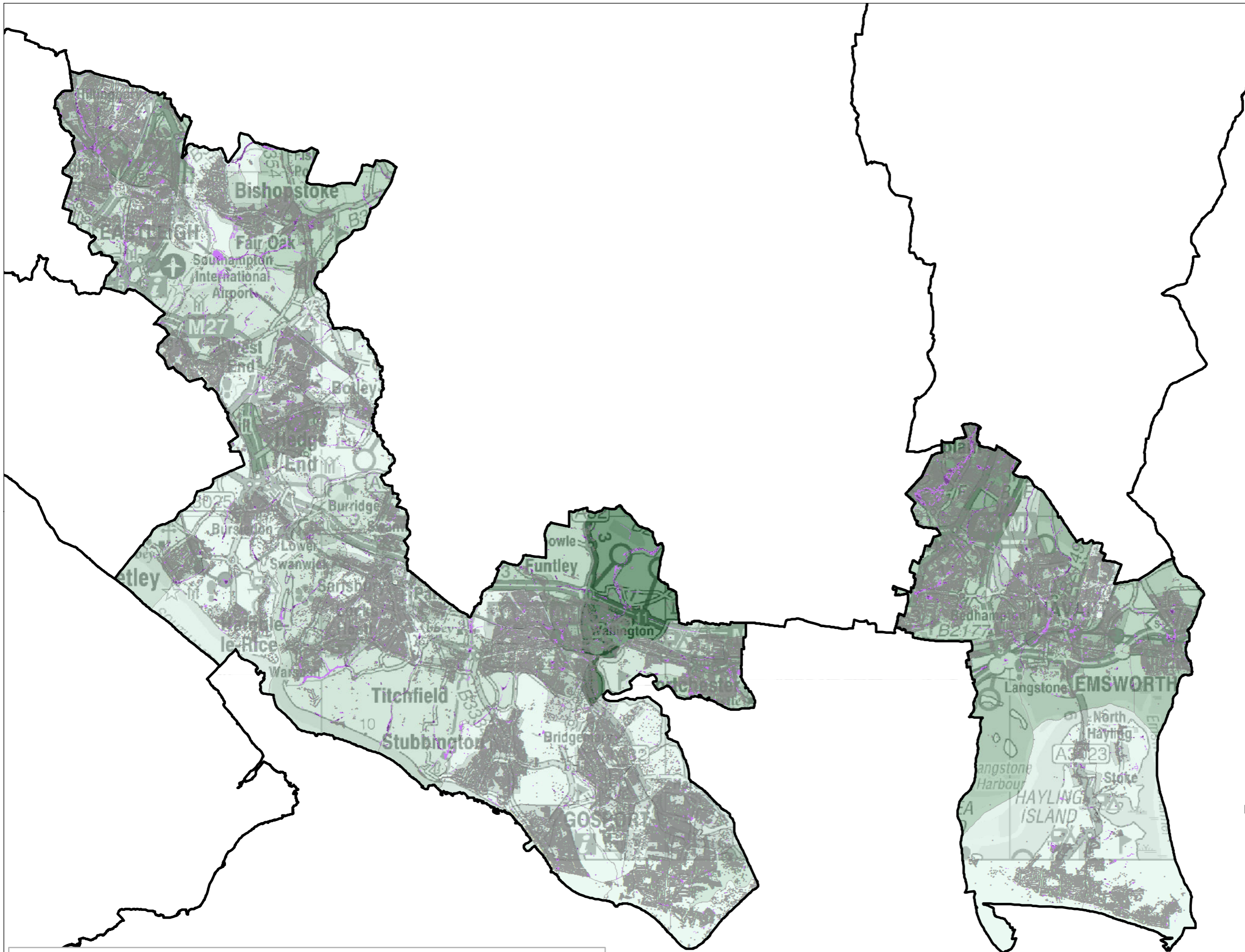
Figure: East Hampshire

September 2012



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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

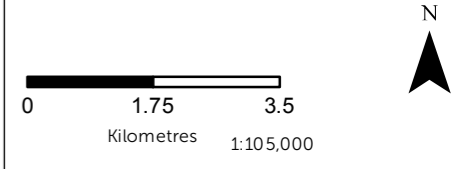
- £0k - £25k
- £25k - £50k
- £50k - £75k
- £75k - £100k
- £100k - £125k
- £125k - £150k
- £150k+

Project: Hampshire Economic Damages

Title: Total Combined Costs

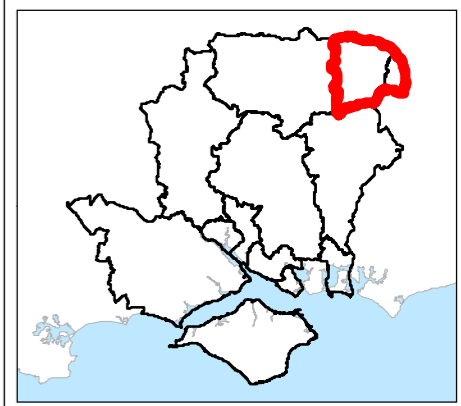
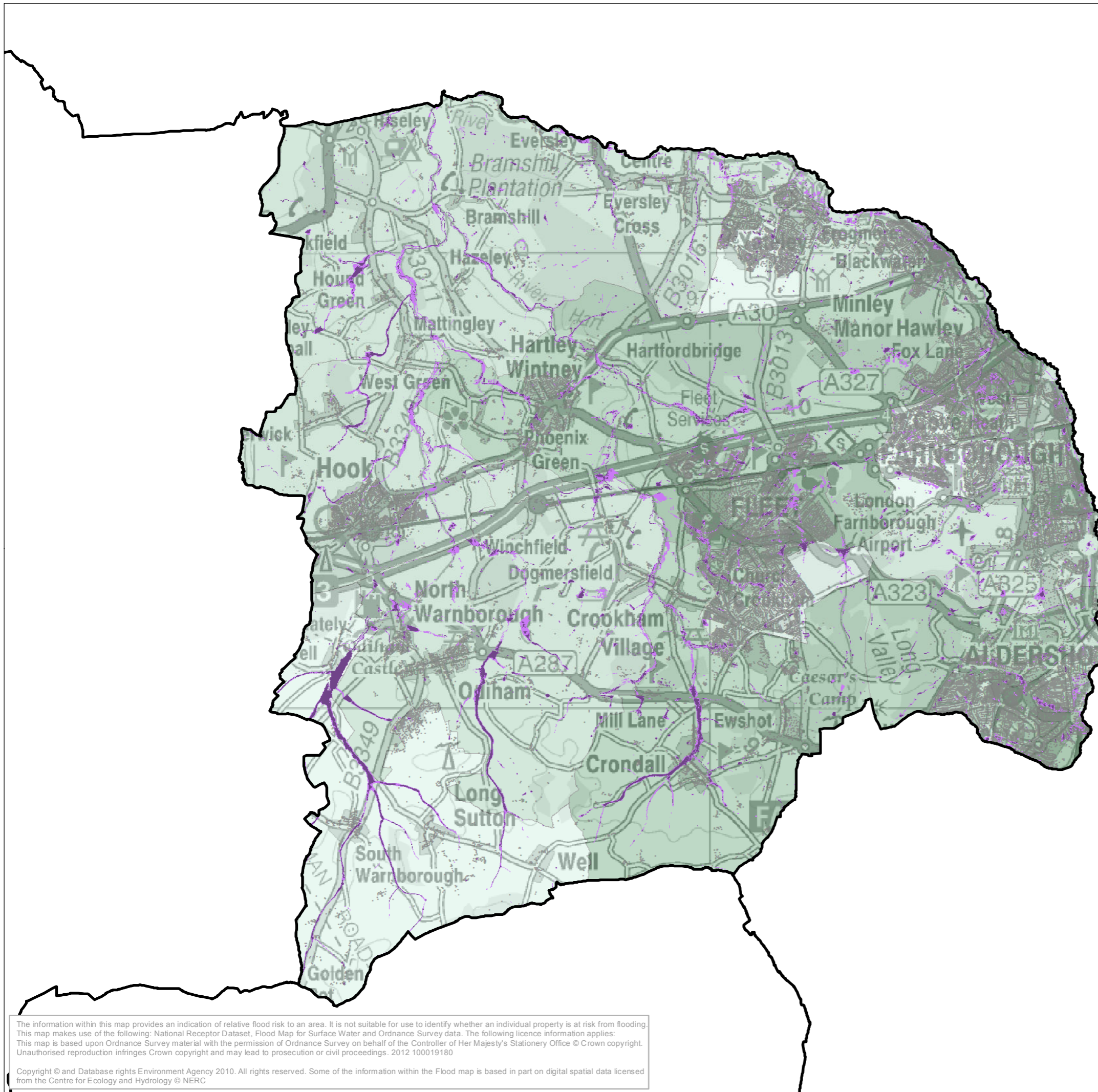
Figure: Eastleigh, Fareham, Gosport and Havant

September 2012



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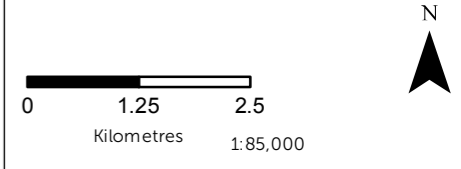
- Legend**
- Property
 - 1 in 30 Year EA Surface Water
 - 1 in 200 Year EA Surface Water
- Annualised Cost of Flooding**
- £0k - £25k
 - £25k - £50k
 - £50k - £75k
 - £75k - £100k
 - £100k - £125k
 - £125k - £150k
 - £150k+

Project: Hampshire Economic Damages

Title: Total Combined Costs

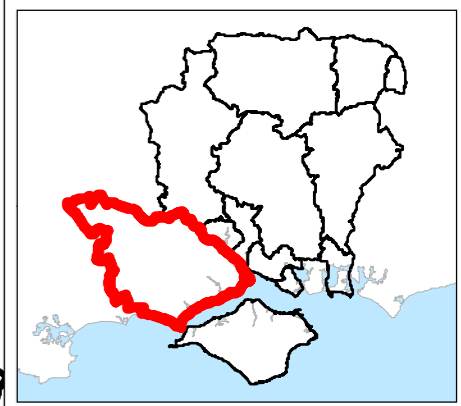
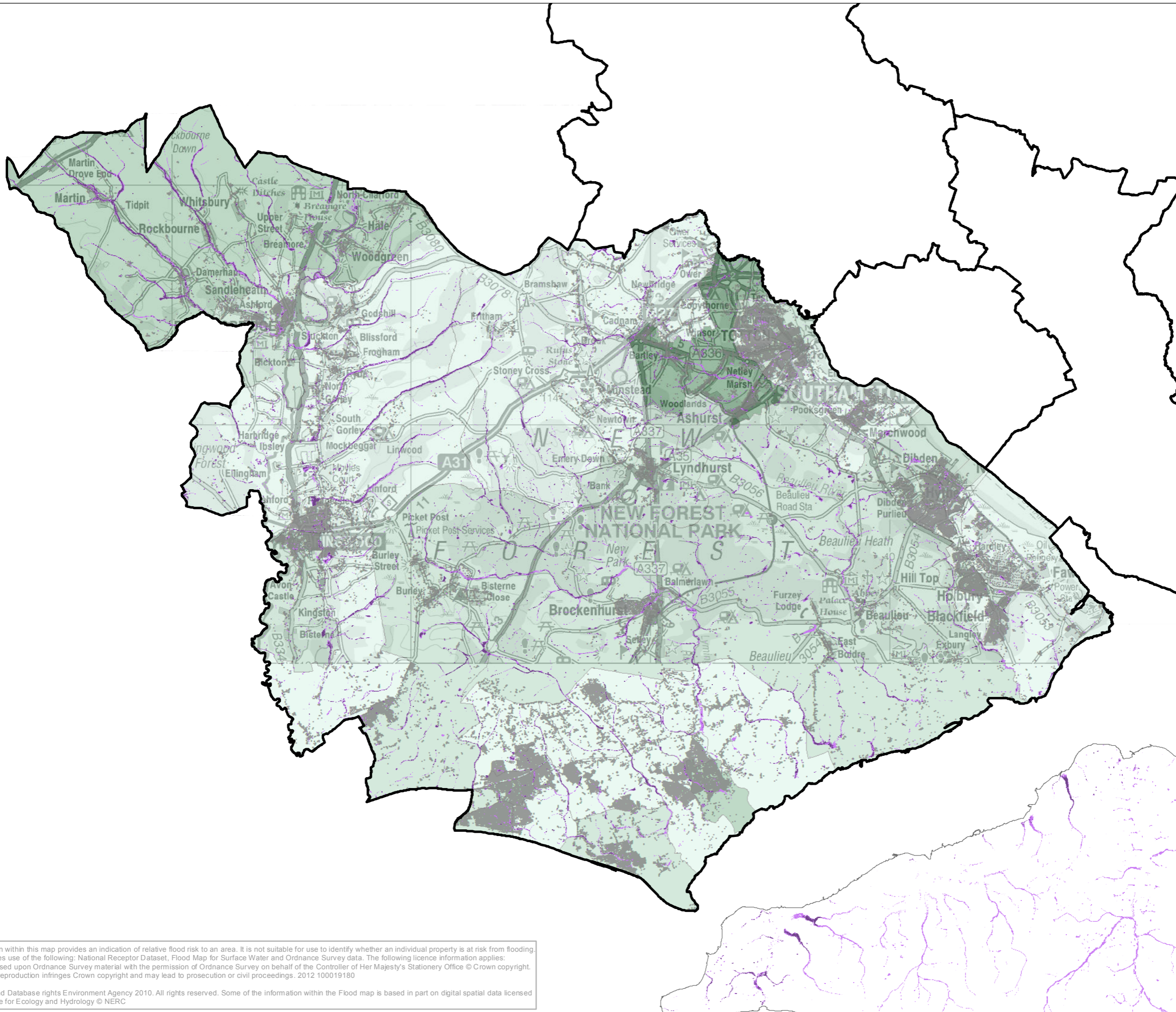
Figure: Hart and Rushmoor

September 2012



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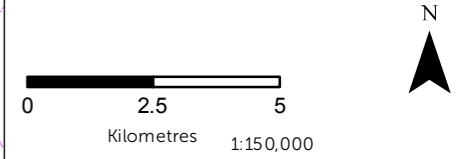
- Legend**
- Property
 - 1 in 30 Year EA Surface Water
 - 1 in 200 Year EA Surface Water
- Annualised Cost of Flooding**
- £0k - £25k
 - £25k - £50k
 - £50k - £75k
 - £75k - £100k
 - £100k - £125k
 - £125k - £150k
 - £150k+

Project: Hampshire Economic Damages

Title: Total Combined Costs

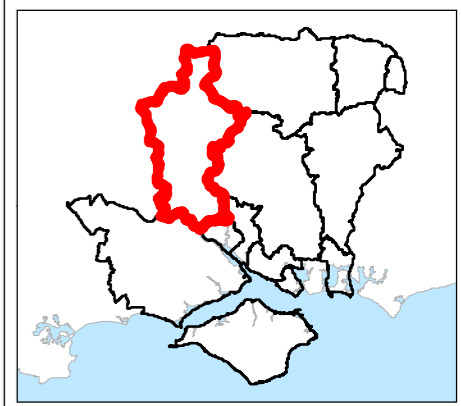
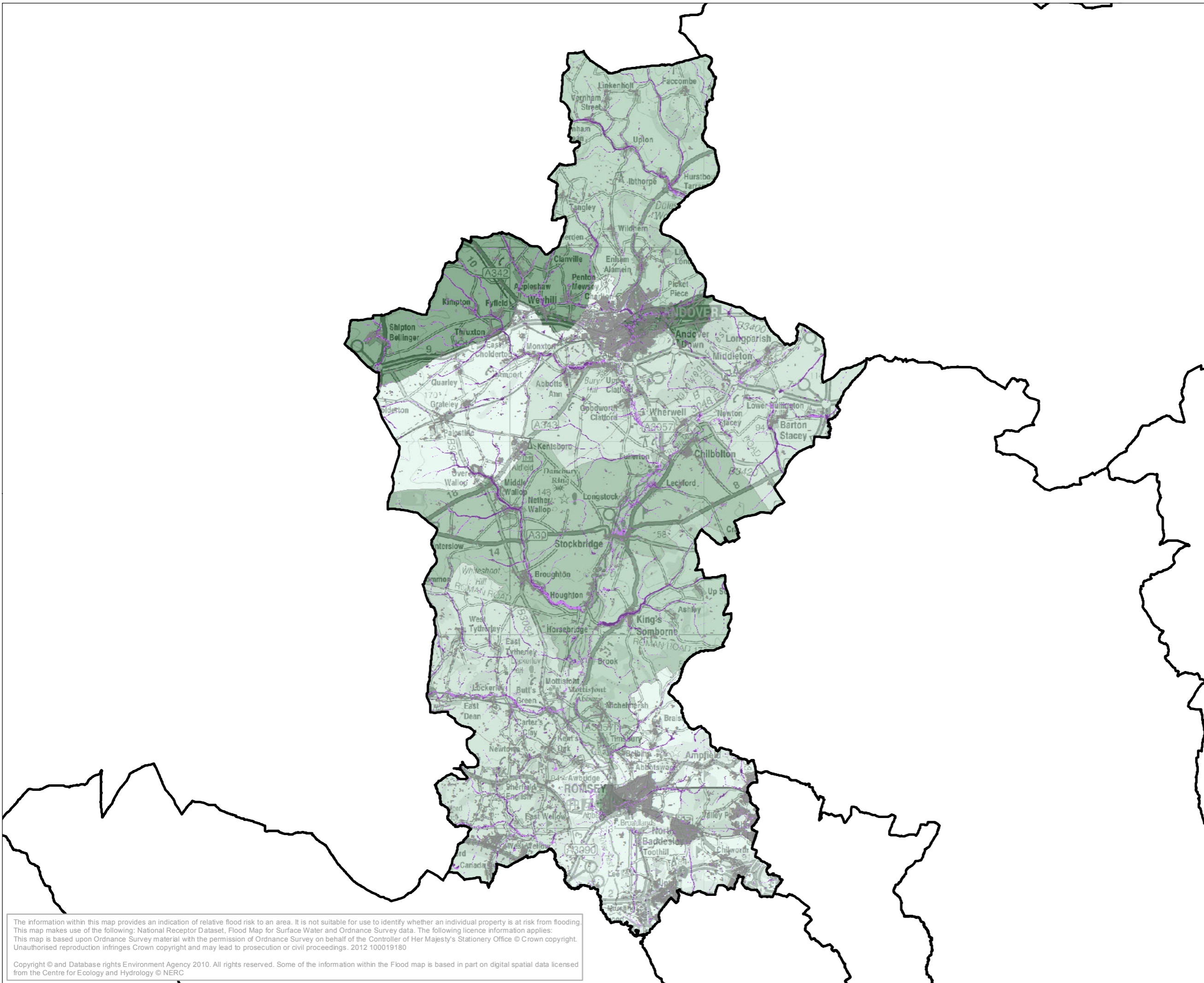
Figure: New Forest

September 2012



The information within this map provides an indication of relative flood risk to an area. It is not suitable for use to identify whether an individual property is at risk from flooding. This map makes use of the following: National Receptor Dataset, Flood Map for Surface Water and Ordnance Survey data. The following licence information applies: This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. 2012 100019180

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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

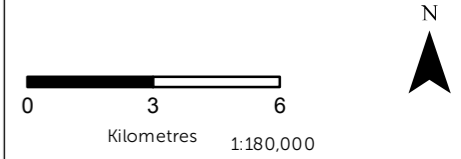
- £0k - £25k
- £25k - £50k
- £50k - £75k
- £75k - £100k
- £100k - £125k
- £125k - £150k
- £150k+

Project: Hampshire Economic Damages

Title: Total Combined Costs

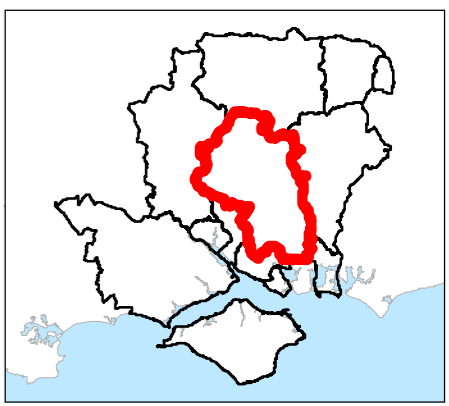
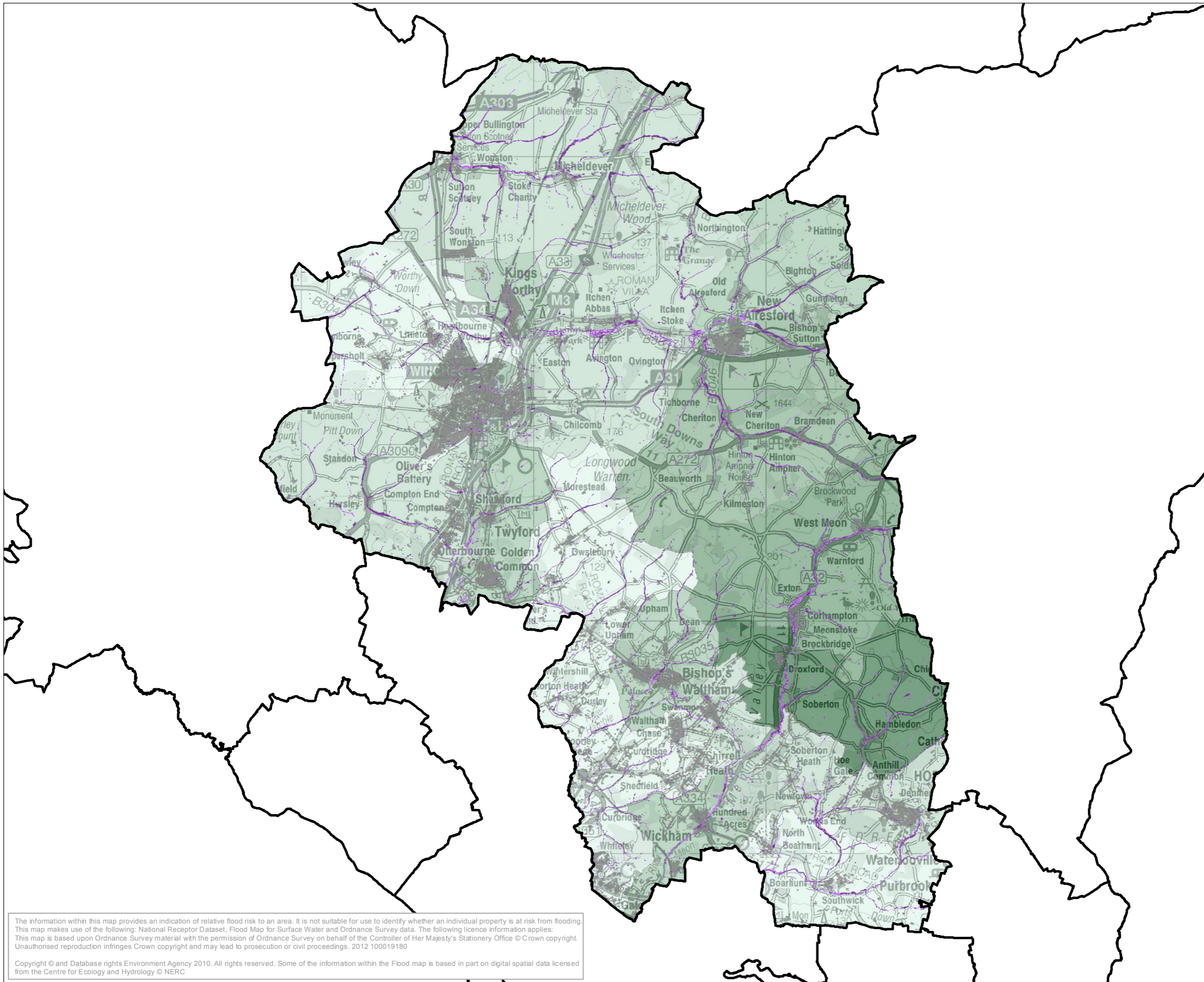
Figure: Test Valley

September 2012



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Legend

- Property
- 1 in 30 Year EA Surface Water
- 1 in 200 Year EA Surface Water

Annualised Cost of Flooding

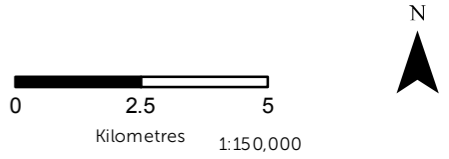
- £0k - £25k
- £25k - £50k
- £50k - £75k
- £75k - £100k
- £100k - £125k
- £125k - £150k
- £150k+

Project: Hampshire Economic Damages

Title: Total Combined Costs

Figure: Winchester

September 2012



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