


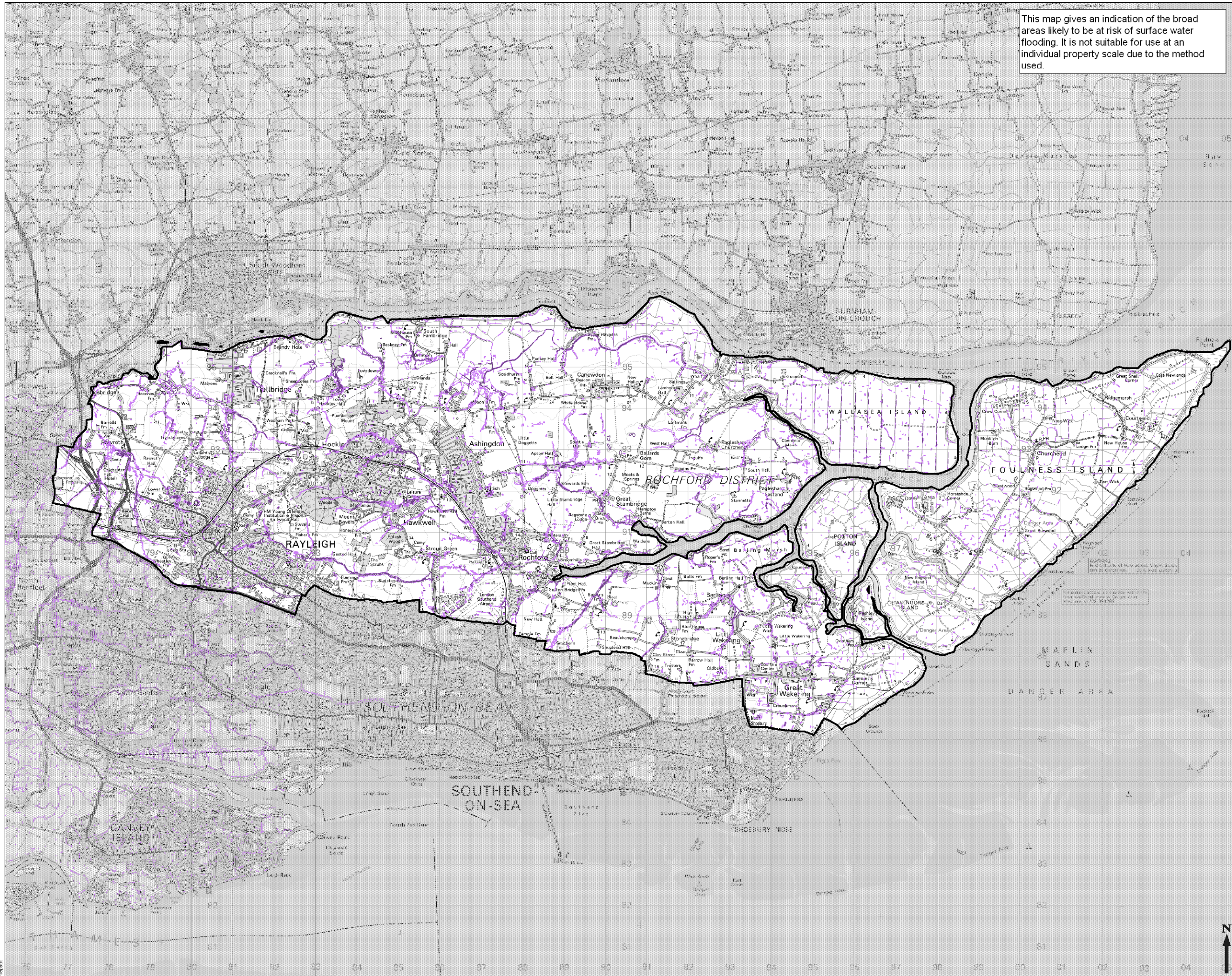


This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale due to the method used.

-  Rochford District Boundary
-  30 Year >0.1m deep
-  30 Year >0.3m deep



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Job Title  
**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status  
**FINAL**

Drawing Title  
**ROCHFORD Environment Agency 1 in 30 Year Flood Map for Surface Water**

Scale at A3  
**1:85,000**

Drawn	GH	Approved	CP
Stage 1 Check	Stage 2 Check	Original	Date
		BA	Jul 2011

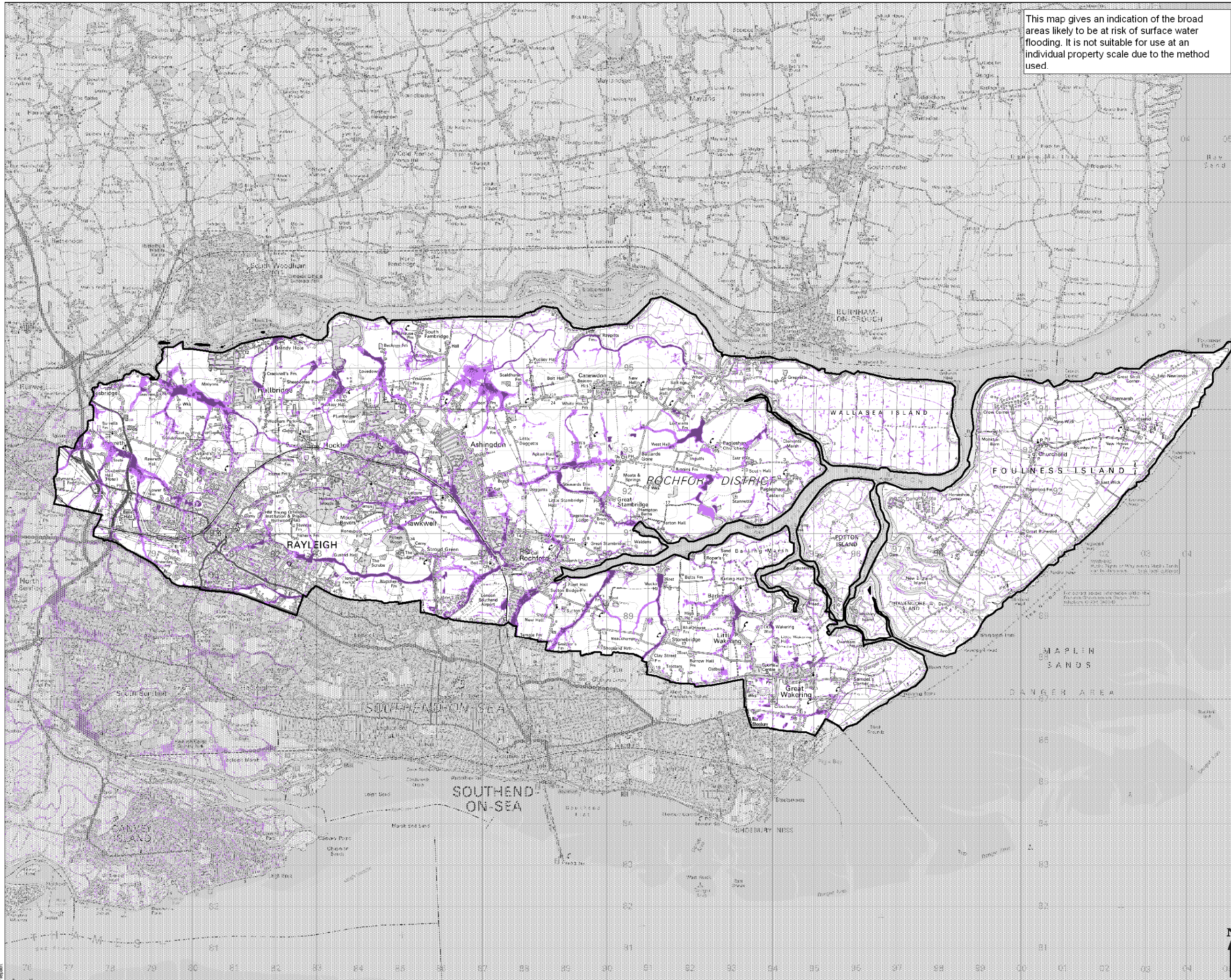
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Drawing Number  
**FIGURE D 1**

Drawn: GH



This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale due to the method used.

-  Rochford District Boundary
-  200 Year >0.1m deep
-  200 Year >0.3m deep

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**




Drawing Status: **FINAL**

**ROCHFORD Environment Agency 1 in 200 Year Flood Map for Surface Water**

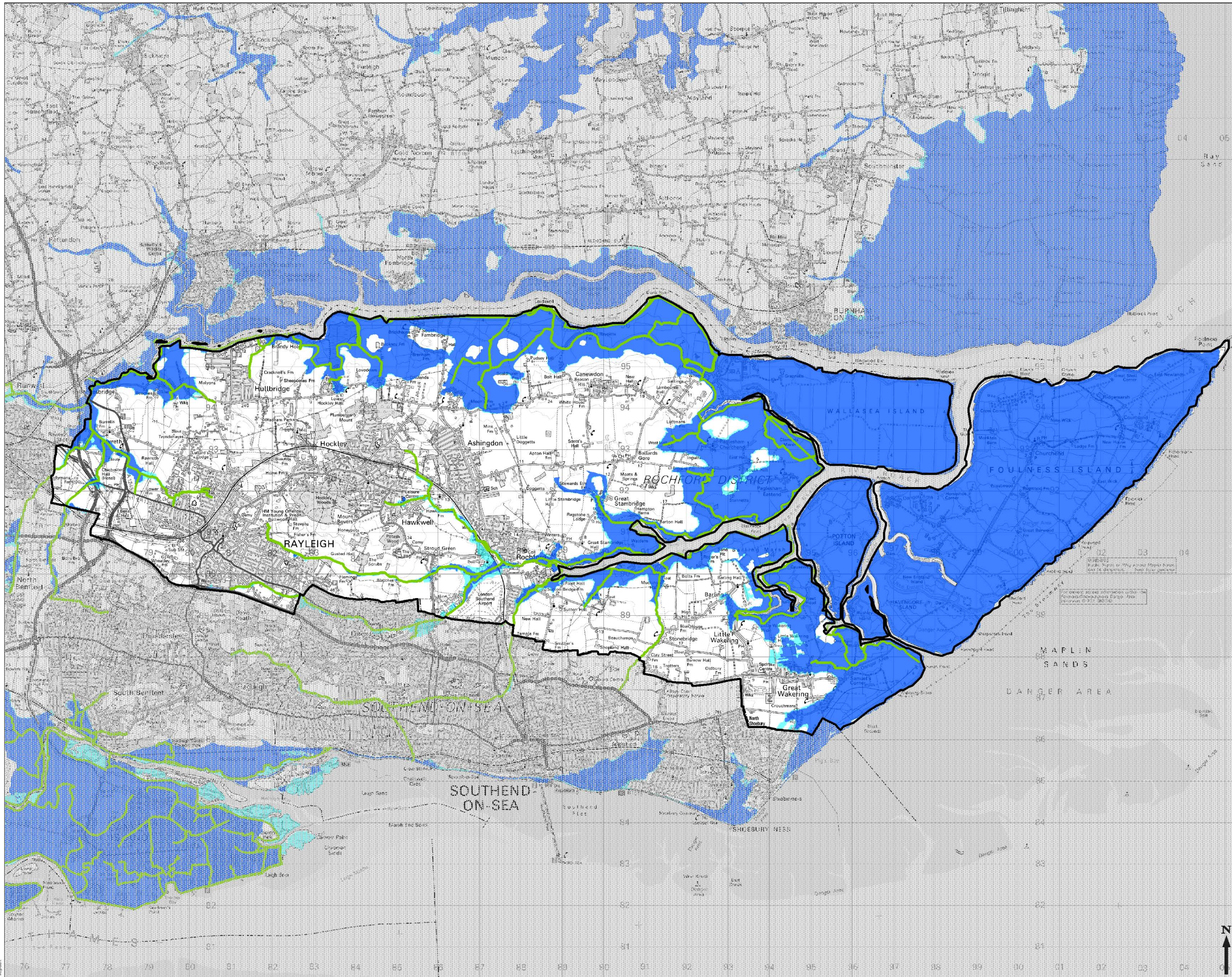
Scale at A3		1:85,000	
Drawn	GH	Approved	CP
Stage 1 Check	Stage 2 Check	Original	Date
		BA	Jul 2011

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Drawn: GH



- Rochford District Boundary
- NFCDD Flood Defences
- Flood Zone 3
- Flood Zone 2

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Job Title  
**SOUTH ESSEX  
 SURFACE WATER  
 MANAGEMENT PLAN**



Drawing Status  
**FINAL**

Drawing Title  
**ROCHFORD  
 Environment Agency  
 Flood Map**

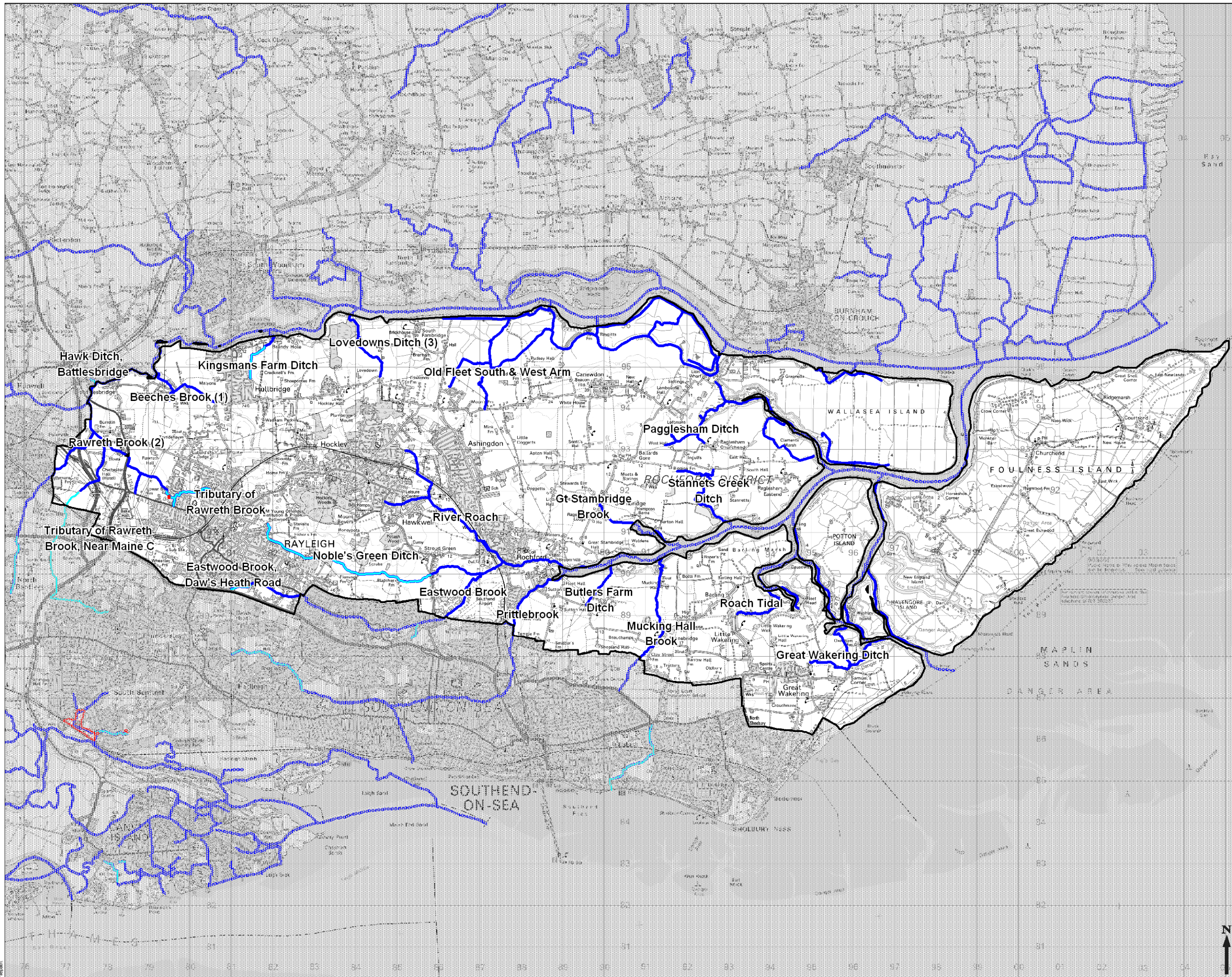
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**1:50,000**





Drawn GH	Approved CP	Originated BA	Date Jul 2011
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Drawing Number  
**FIGURE D 3**



-  Rochford District Boundary
-  Main River
-  Ordinary Watercourse
-  Washland Area

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Job Title  
**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status  
**FINAL**

Drawing Title  
**ROCHFORD Main River, Ordinary Watercourses & Washland Areas**

Scale at A3	1:85,000		
Drawn	GH	Approved	CP
Stage 1 Check	Stage 2 Check	Original	Date
		BA	Jul 2011

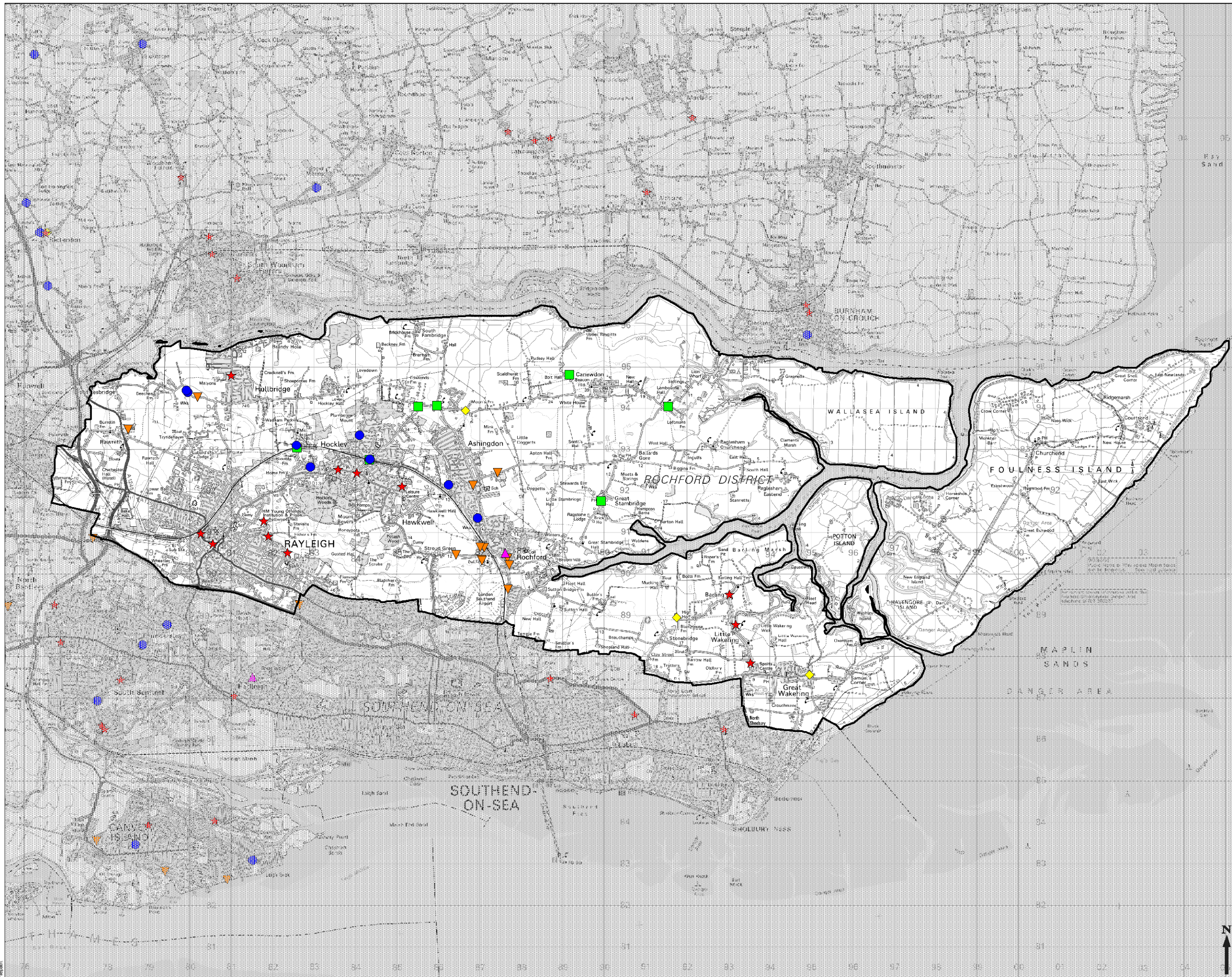
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Drawing Number  
**FIGURE D 4**

Drawn: Research



- Rochford District Boundary
- ★ DG5 Record
- ◆ Highways Record
- Fire Record
- ▲ Catchment Flood Management Plan Record
- Parish Council Record
- ▼ Rochford District Record

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



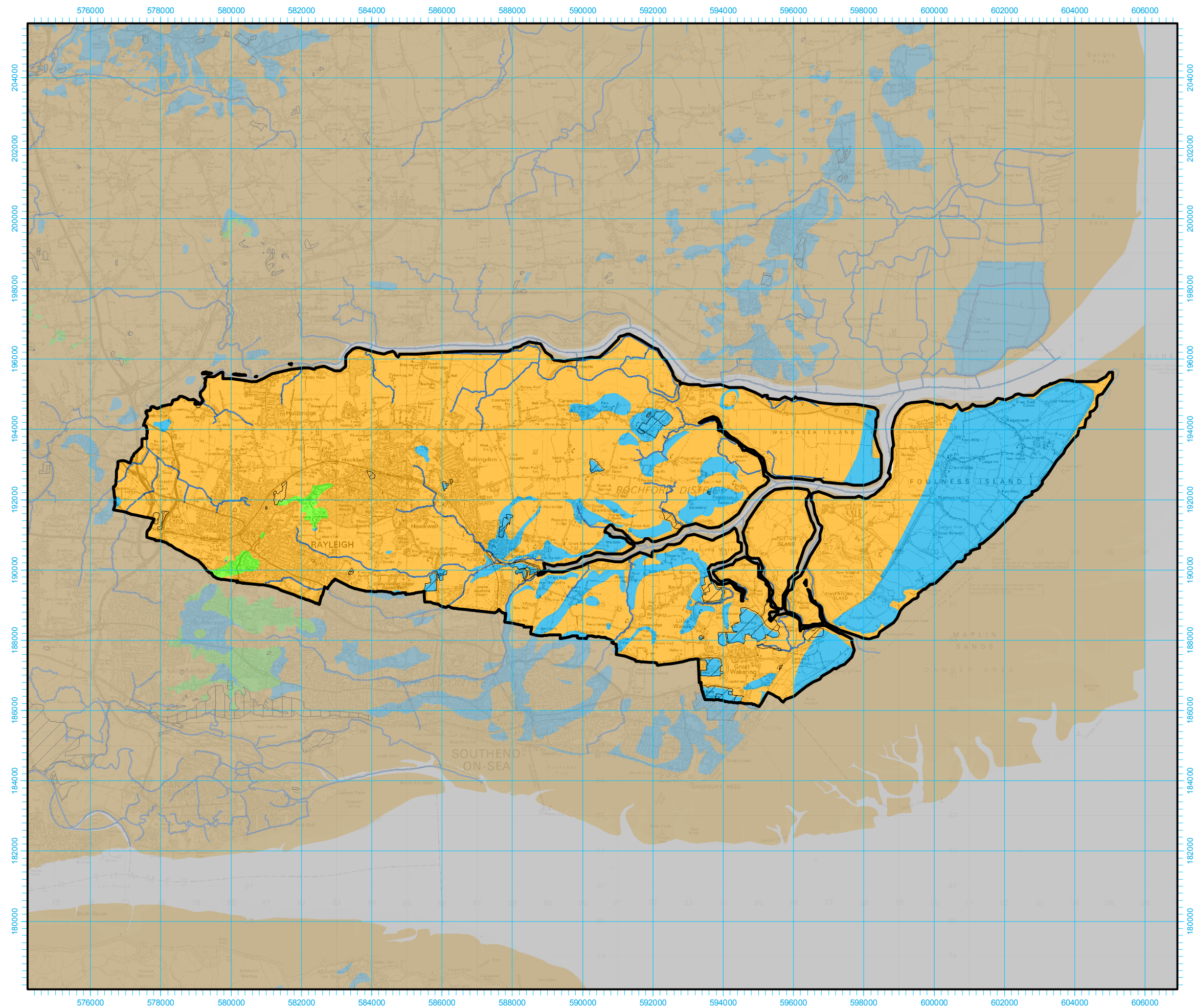
Drawing Status: **FINAL**

**ROCHFORD Recorded Surface Water Flooding Incidents**








Scale at A3		1:85,000	
Drawn	GH	Approved	CP
Stage 1 Check	Stage 2 Check	Original	Date
		BA	Jul 2011

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**Legend**

-  Rochford Council Administrative Boundary
-  Main River
-  Artificial (Undivided)
-  Landslide Deposits (Undifferentiated)
- Infiltration SUDS Suitability**
-  Infiltration SUDS potentially suitable
-  Infiltration SUDS potentially unsuitable
-  Enhanced site investigation required

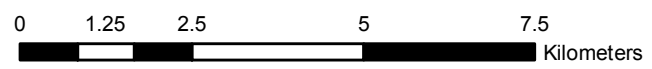
**Notes:**

This map forms an approximate guide to permeability. However, for all new developments, site investigation is required to confirm local permeabilities and infiltration rates.

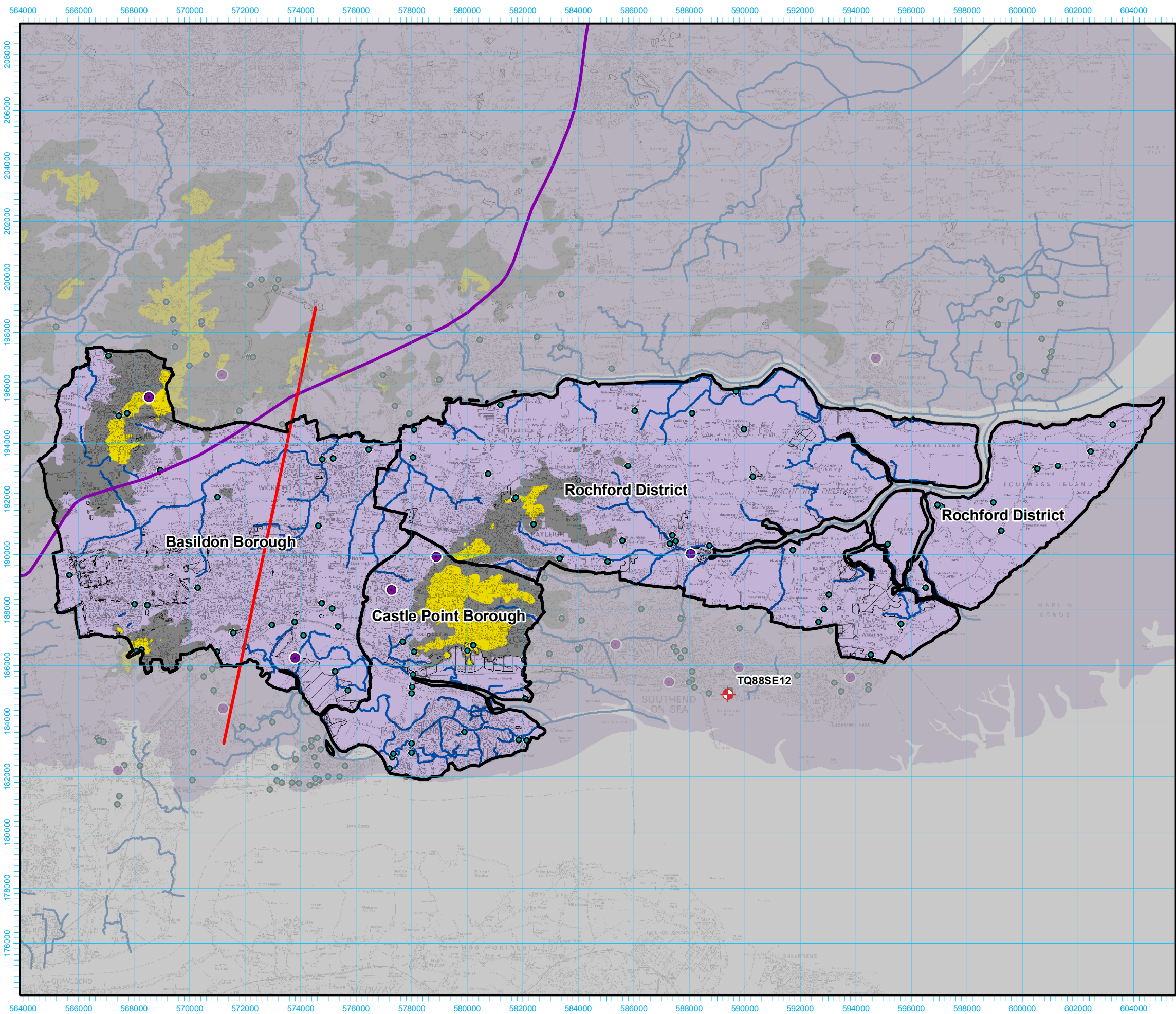
Drawing Status			
FINAL			
Job Title			
<b>South Essex Surface Water Management Plan</b>			
Drawing Title			
<b>Rochford District Council Infiltration SUDS Suitability (BGS Permeability) Map</b>			
Scale at A3		1:110,000	
Drawn by	Date	Approved	Date
Ryan Cox	09/05/11	Trevor Muten	10/05/11
Scott Wilson Scott House, Alencon Link, Basingstoke, Hants, RG21 7PP Telephone (01256) 310 200 www.scottwilson.com			
<b>FIGURE D 6</b>			

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 \*Digital groundwater flooding susceptibility map reproduced from British Geological Survey (c) 2011'

Base Map Details  
 Projection: Transvers Mercator  
 Scale Factor: 0.999601  
 Origin: 2° West, 49° North  
 Coordinates: 400000, -100000  
 Units: metres  
 Datum: OSGB 1936



K:\jobs\132233\_South Essex SWMP\700 Technical\711 GIS\01 Layout



**Legend**

- Council Administrative Boundary
- Main River
- Cross Section
- Glacial Limit
- Monitoring Borehole
- BGS Water Well
- BGS Borehole Logs
- Artificial (Undivided)
- Landslide Deposits (Undifferentiated)

**Bedrock Geology**

- Bagshot Formation
- Claygate Member
- London Clay Formation

Drawing Status: **FINAL**

Job Title: **South Essex Surface Water Management Plan**

Drawing Title: **Bedrock Geology**

Scale at A3: **1:140,000**

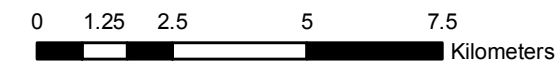
Drawn by	Date	Approved	Date
Ryan Cox	10/05/11	Trevor Muten	11/05/11

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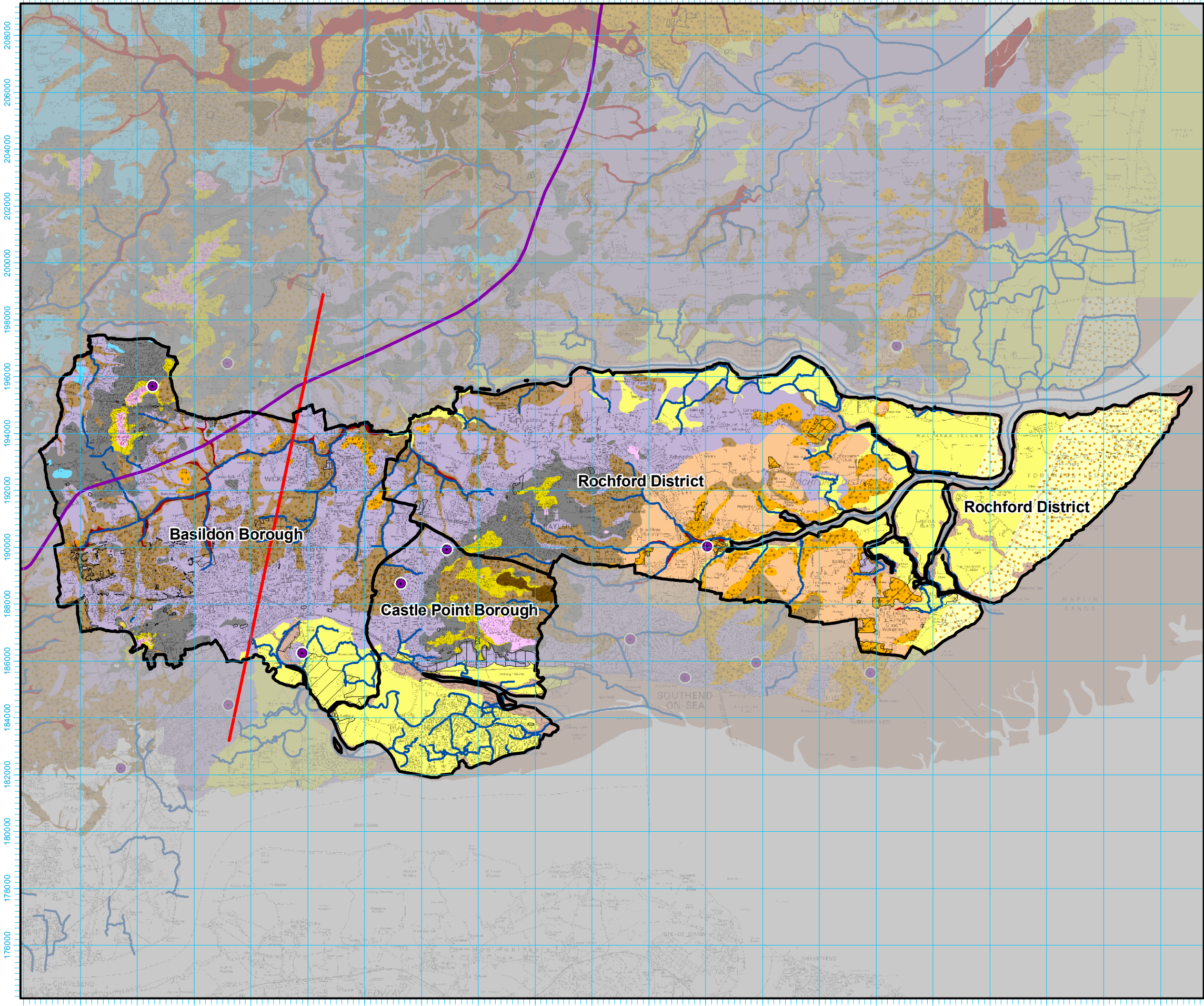
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 Datum: OSGB 1936



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**FIGURE D 7**

564000 566000 568000 570000 572000 574000 576000 578000 580000 582000 584000 586000 588000 590000 592000 594000 596000 598000 600000 602000 604000



564000 566000 568000 570000 572000 574000 576000 578000 580000 582000 584000 586000 588000 590000 592000 594000 596000 598000 600000 602000 604000

THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

**Legend**

- Council Administrative Boundary
- Main River
- Cross Section
- Glacial Limit
- BGS Water Well
- Artificial (Undivided)
- Landslide Deposits (Undifferentiated)

**Superficial Geology**

- Alluvium (Clay, Silt, Sand & Gravel)
- Beach & Tidal Flat Deposits (undifferentiated)
- Glaciofluvial Deposits (Sand & Gravel)
- Head (Clay & Silt)
- Head (Clay, Silt, Sand & Gravel)
- Lowestoft Formation
- River Terrace Deposits 1 to 3 (Clay & Silt)
- River Terrace deposits 1 to 4 (Sand & Gravel)
- River Terrace Deposits (undifferentiated)
- Raised Tidal Flat Deposits (Clay & Silt)
- Sand & Gravel of Uncertain Age & Origin
- Stanmore Gravel Formation (Sand & Gravel)
- Tidal Flat Deposits (Clay & Silt)
- Tidal Flat Deposits (Sand & Silt)

**Bedrock Geology**

- Bagshot Formation
- Claygate Member
- London Clay Formation

Drawing Status: **FINAL**



Job Title: **South Essex Surface Water Management Plan**

Drawing Title: **Bedrock and Superficial Geology**

Scale at A3: **1:140,000**

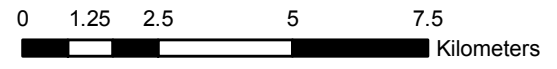
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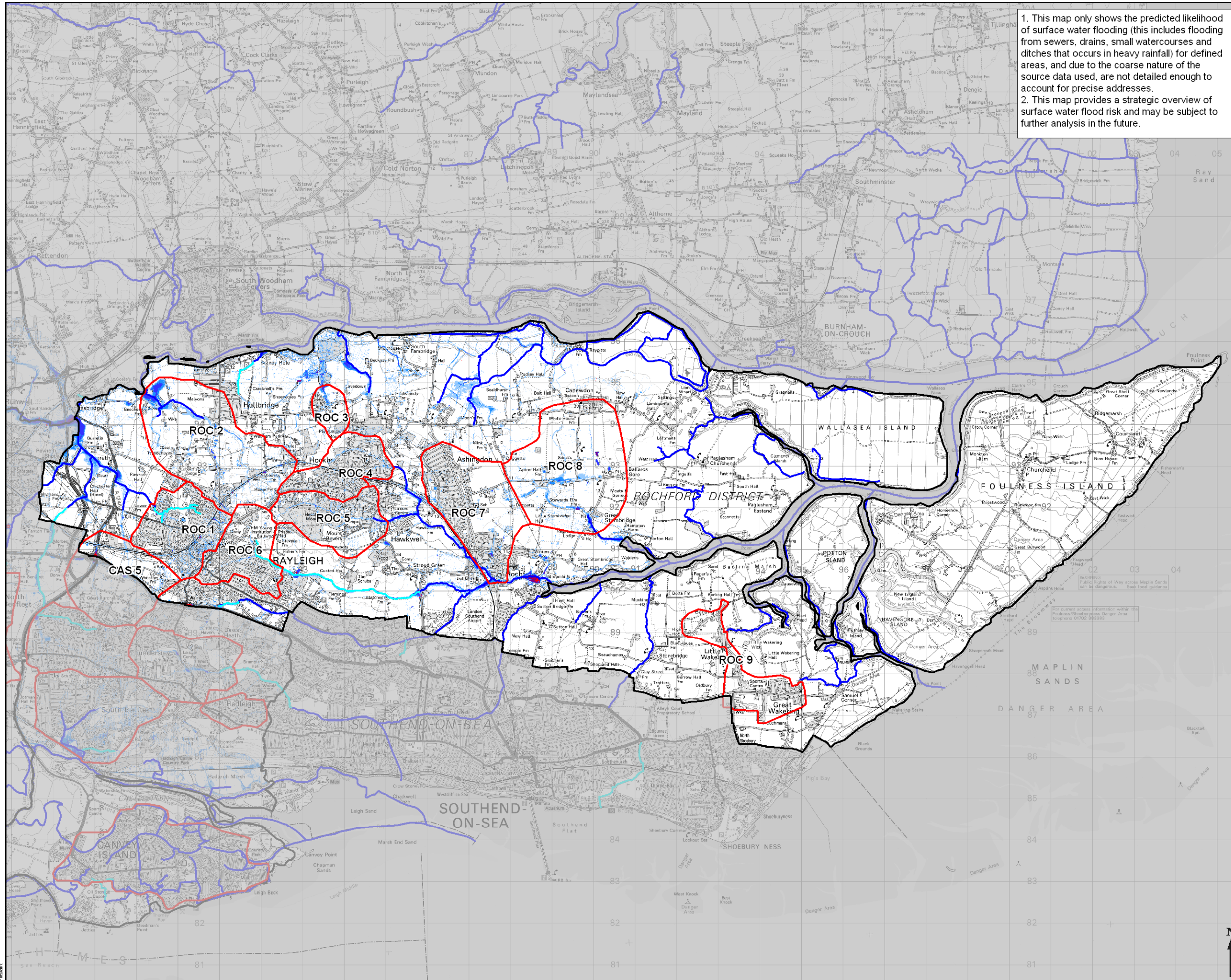
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 Units: metres  
 Datum: OSGB 1936







**FIGURE D 8**

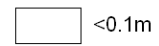
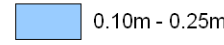
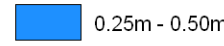
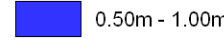
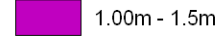

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1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

-  Council Extent
-  Critical Drainage Area
-  Main River
-  Critical Ordinary Watercourses

- Flood Depth**
-  <0.1m
  -  0.10m - 0.25m
  -  0.25m - 0.50m
  -  0.50m - 1.00m
  -  1.00m - 1.5m
  -  >1.50m

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title: **ROCHFORD Surface Water Flood Depth (m) 1 in 30 Chance of a rainfall event occurring in a given year (3.3% AEP)**

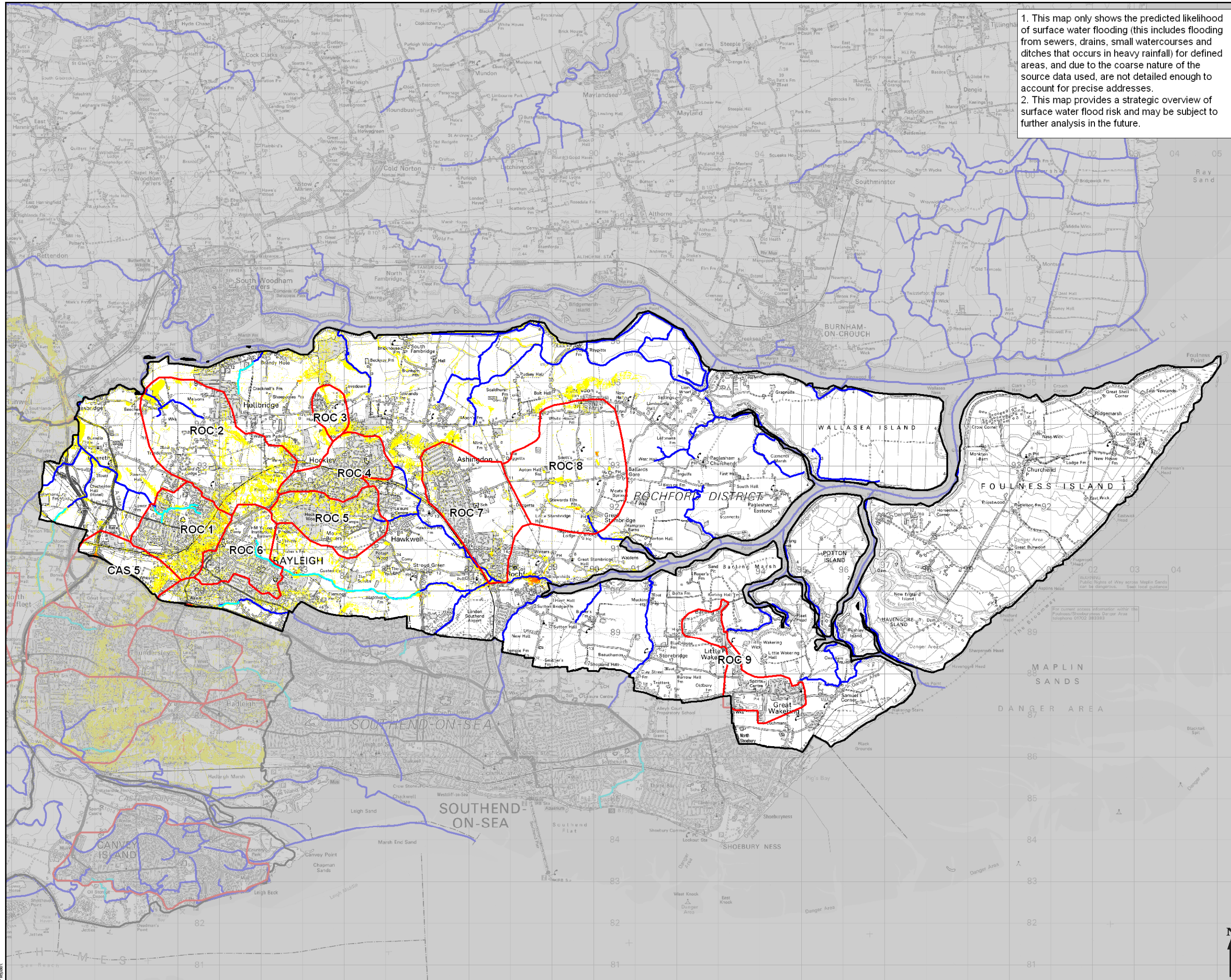
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 Stage 1 Check: **BA** Date: **Aug 2011**

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




Drawing Number: **FIGURE D 9**



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

-  Council Extent
-  Critical Drainage Area
-  Main River
-  Critical Ordinary Watercourses

- Flood Hazard**
-  <0.75 Caution (Very low hazard)
  -  0.75 - 1.25 Moderate (Danger for some)
  -  1.25 - 2.0 Significant (Danger for Most)
  -  >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

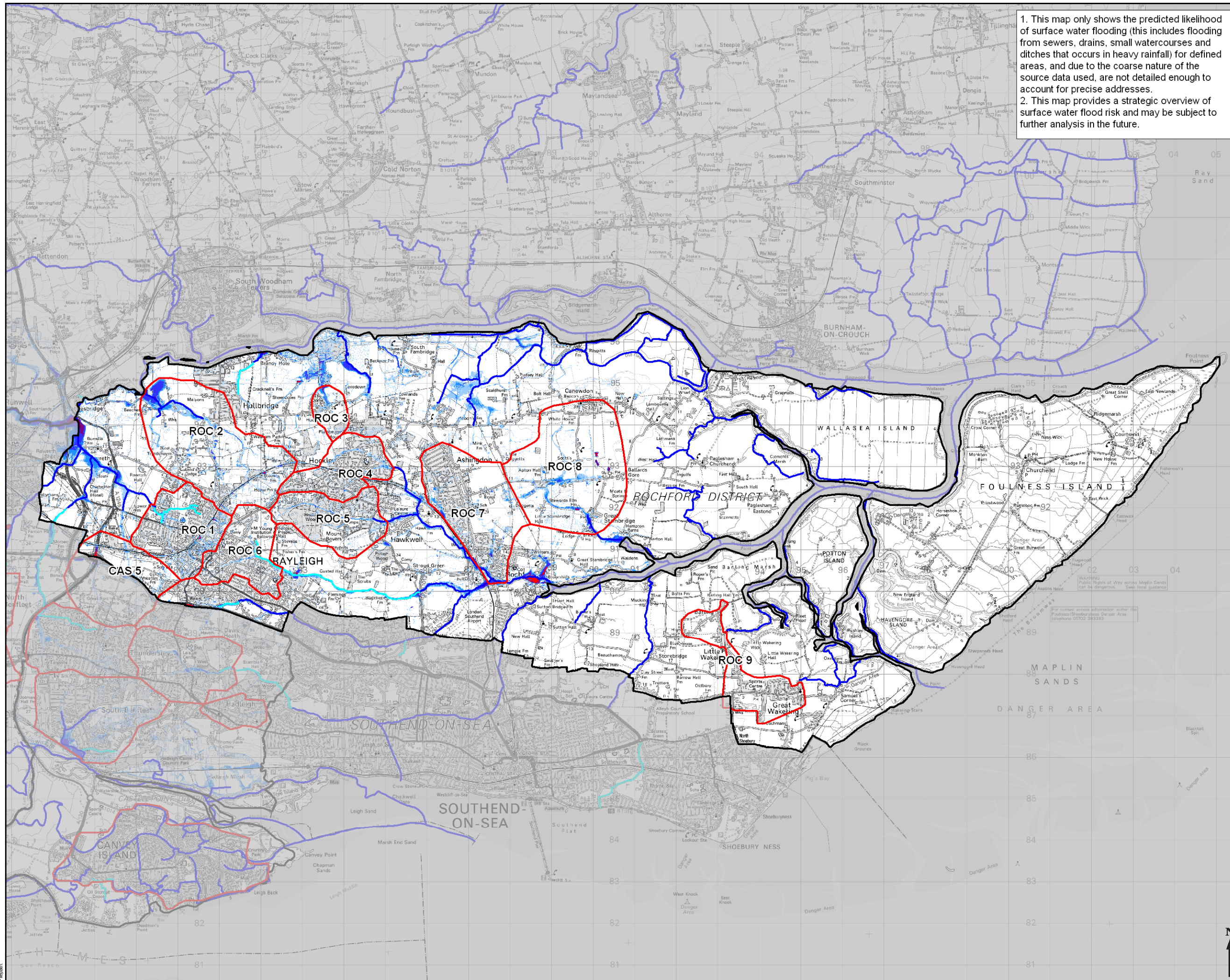
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**ROCHFORD**  
 Surface Water Flood Hazard  
 1 in 30 Chance of a rainfall event occurring in a given year (3.3% AEP)

Scale at A3: **1:85,000**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Date: **Aug 2011**





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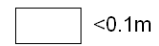


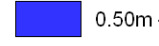


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1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

-  Council Extent
-  Critical Drainage Area
-  Main River
-  Critical Ordinary Watercourses

- Flood Depth**
-  <0.1m
  -  0.10m - 0.25m
  -  0.25m - 0.50m
  -  0.50m - 1.00m
  -  1.00m - 1.5m
  -  >1.50m

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title:  
**ROCHFORD**  
 Surface Water Flood Depth (m)  
 1 in 75 Chance of a rainfall event occurring in a given year (1.3% AEP)

Scale at A3: **1:85,000**

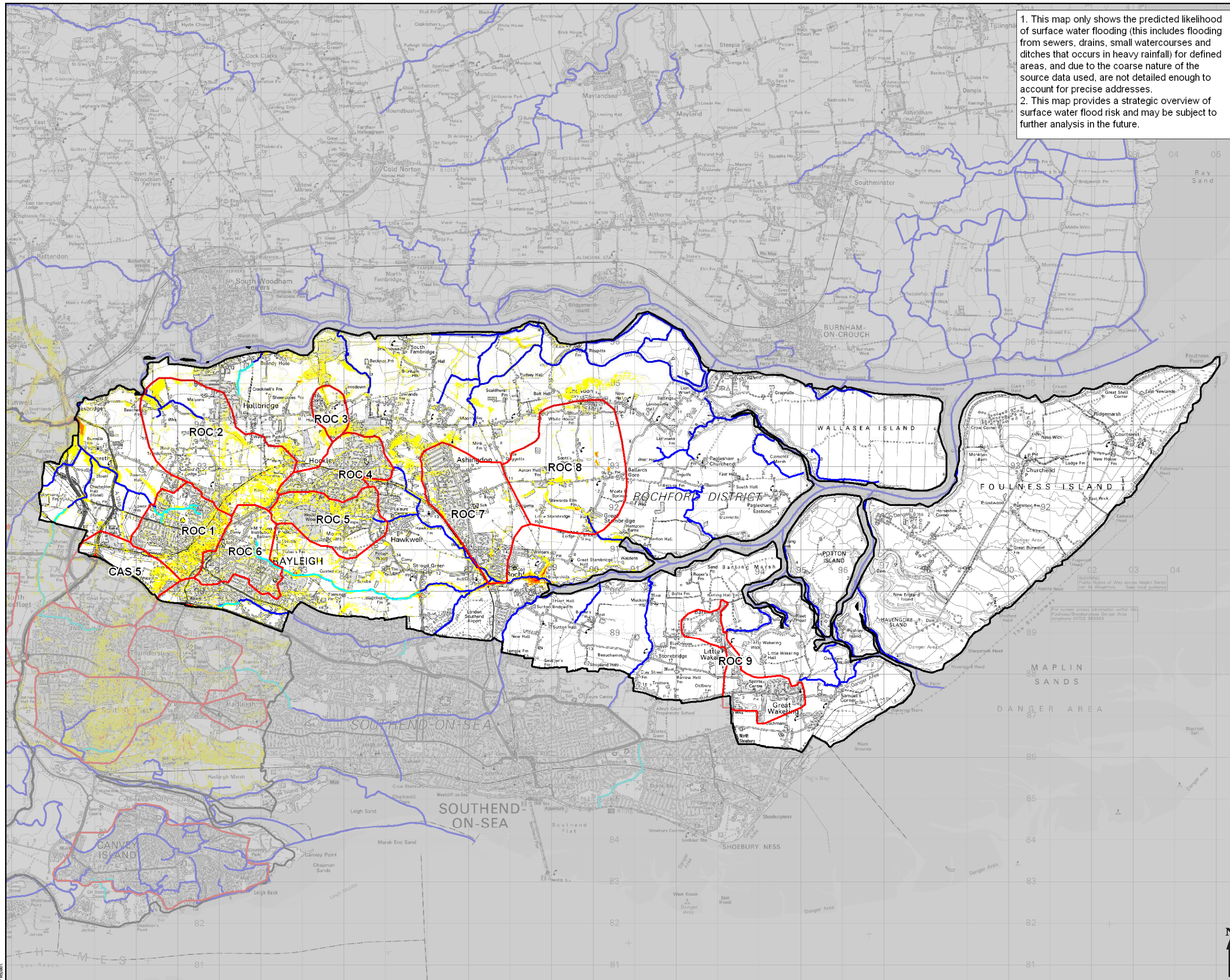
Drawn	DS	Approved	CP
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		BA	Aug 2011

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




Drawing Number: **FIGURE D 11**



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

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-  Critical Drainage Area
-  Main River
-  Critical Ordinary Watercourses

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-  <0.75 Caution (Very low hazard)
  -  0.75 - 1.25 Moderate (Danger for some)
  -  1.25 - 2.0 Significant (Danger for Most)
  -  >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title:  
**ROCHFORD**  
 Surface Water Flood Hazard  
 1 in 75 Chance of a rainfall event occurring in a given year (1.3% AEP)

Scale at A3: **1:85,000**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Date: **Aug 2011**

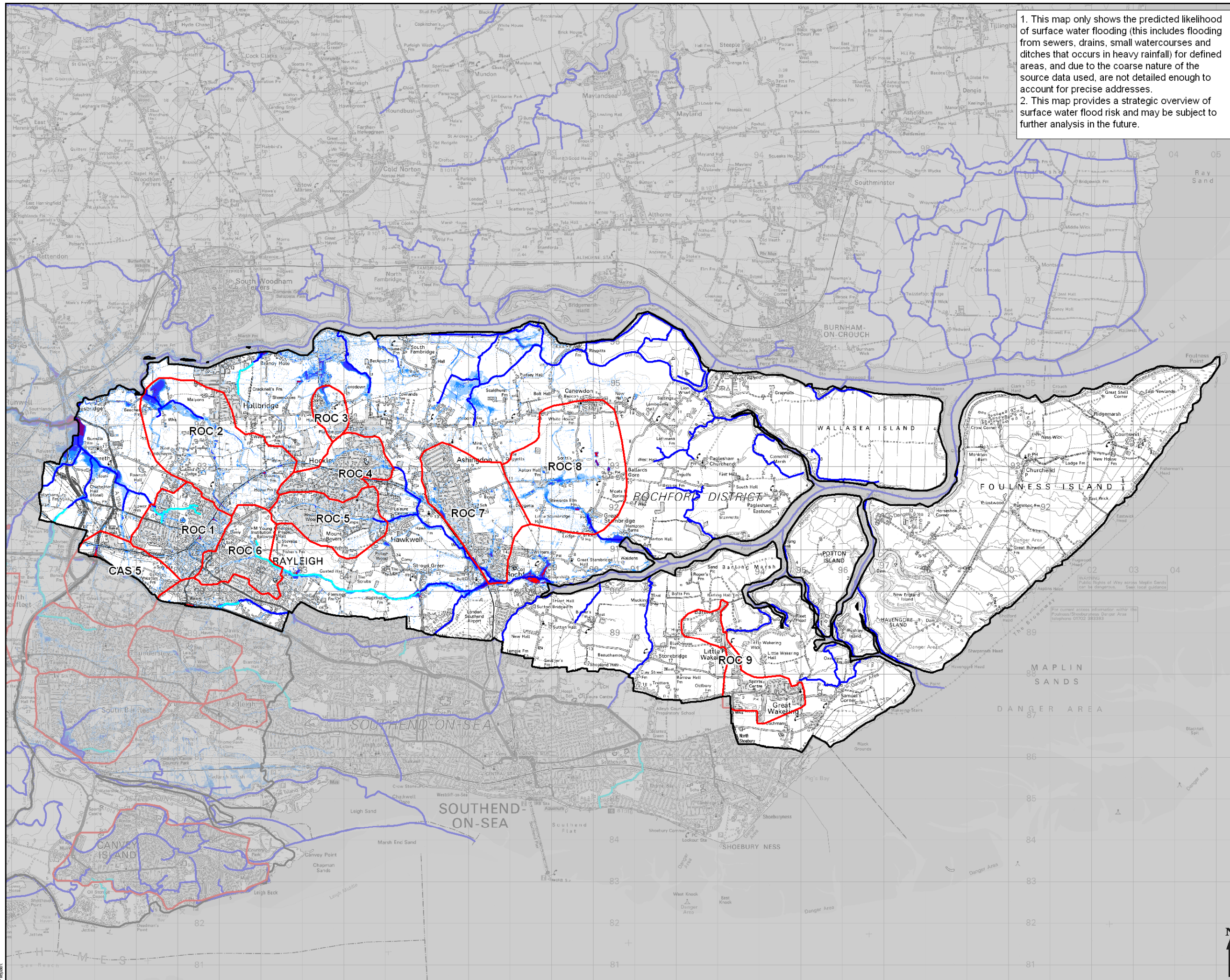
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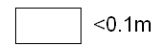
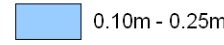
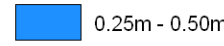
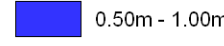
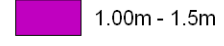

Drawing Number: **FIGURE D 12**

Scale



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

-  Council Extent
-  Critical Drainage Area
-  Main River
-  Critical Ordinary Watercourses

- Flood Depth**
-  <0.1m
  -  0.10m - 0.25m
  -  0.25m - 0.50m
  -  0.50m - 1.00m
  -  1.00m - 1.5m
  -  >1.50m

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title:  
**ROCHFORD**  
 Surface Water Flood Depth (m)  
 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)

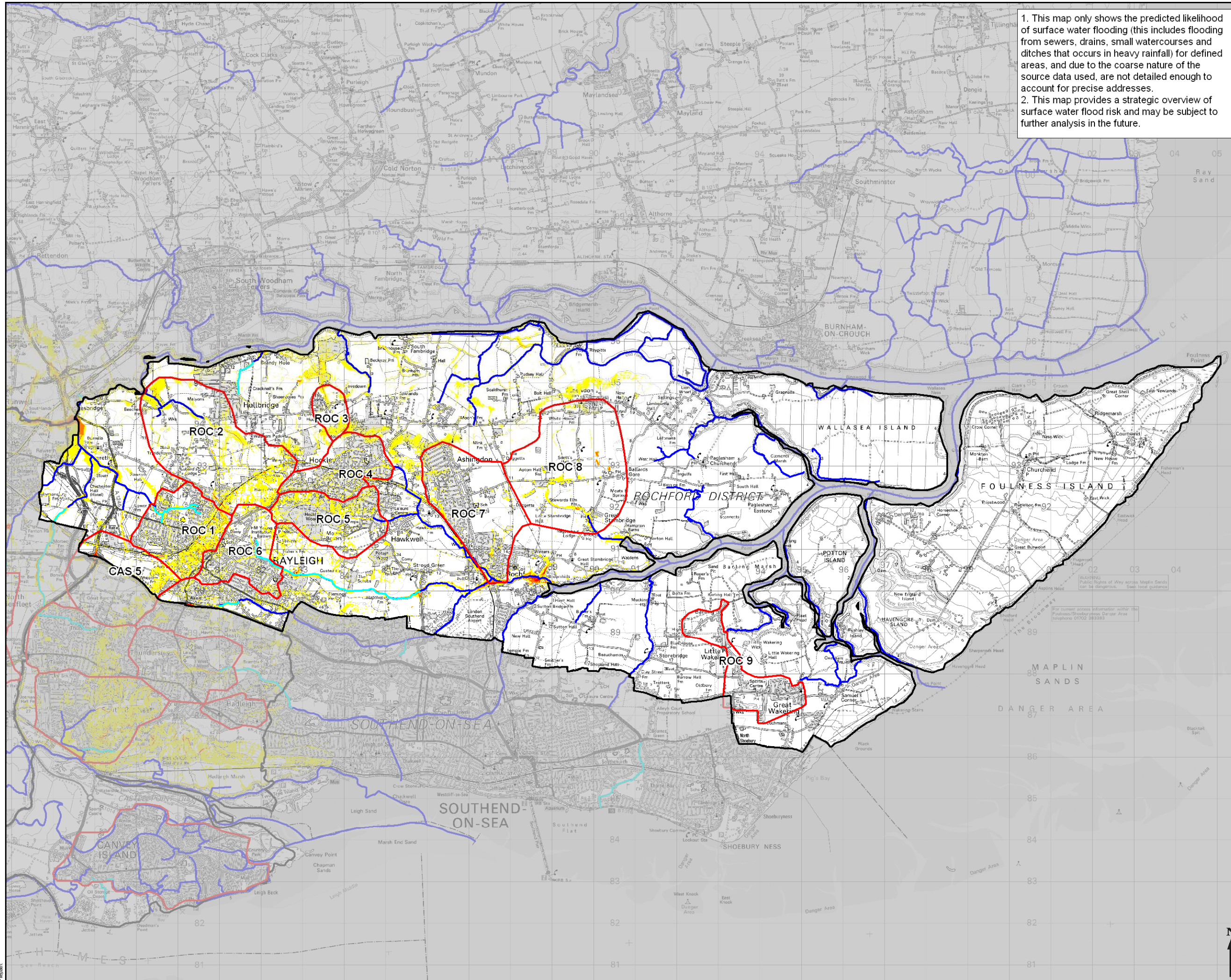
Scale at A3: **1:85,000**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Date: **Aug 2011**

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




Drawing Number: **FIGURE D13**



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

-  Council Extent
-  Critical Drainage Area
-  Main River
-  Critical Ordinary Watercourses

- Flood Hazard**
-  <0.75 Caution (Very low hazard)
  -  0.75 - 1.25 Moderate (Danger for some)
  -  1.25 - 2.0 Significant (Danger for Most)
  -  >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

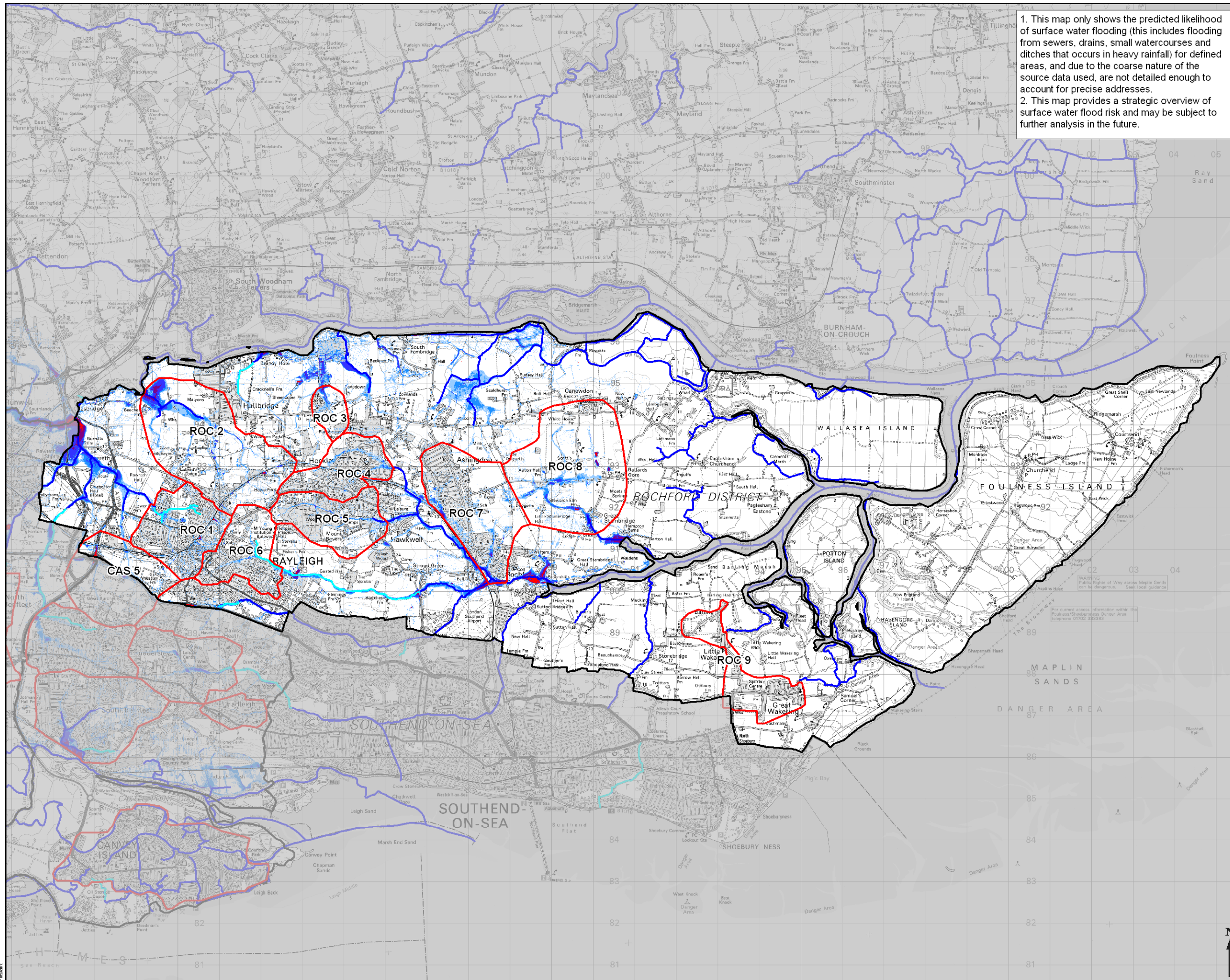
Drawing Title:  
**ROCHFORD Surface Water Flood Hazard 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)**

Scale at A3: **1:85,000**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Date: **Aug 2011**





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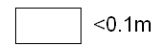
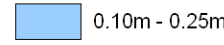
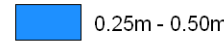
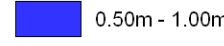
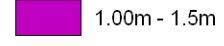

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1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

-  Council Extent
-  Critical Drainage Area
-  Main River
-  Critical Ordinary Watercourses

- Flood Depth**
-  <0.1m
  -  0.10m - 0.25m
  -  0.25m - 0.50m
  -  0.50m - 1.00m
  -  1.00m - 1.5m
  -  >1.50m

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title:  
**ROCHFORD**  
 Surface Water Flood Depth (m)  
 1 in 100 Chance of a rainfall event occurring in a given year plus Climate Change (1% AEP + 20%)

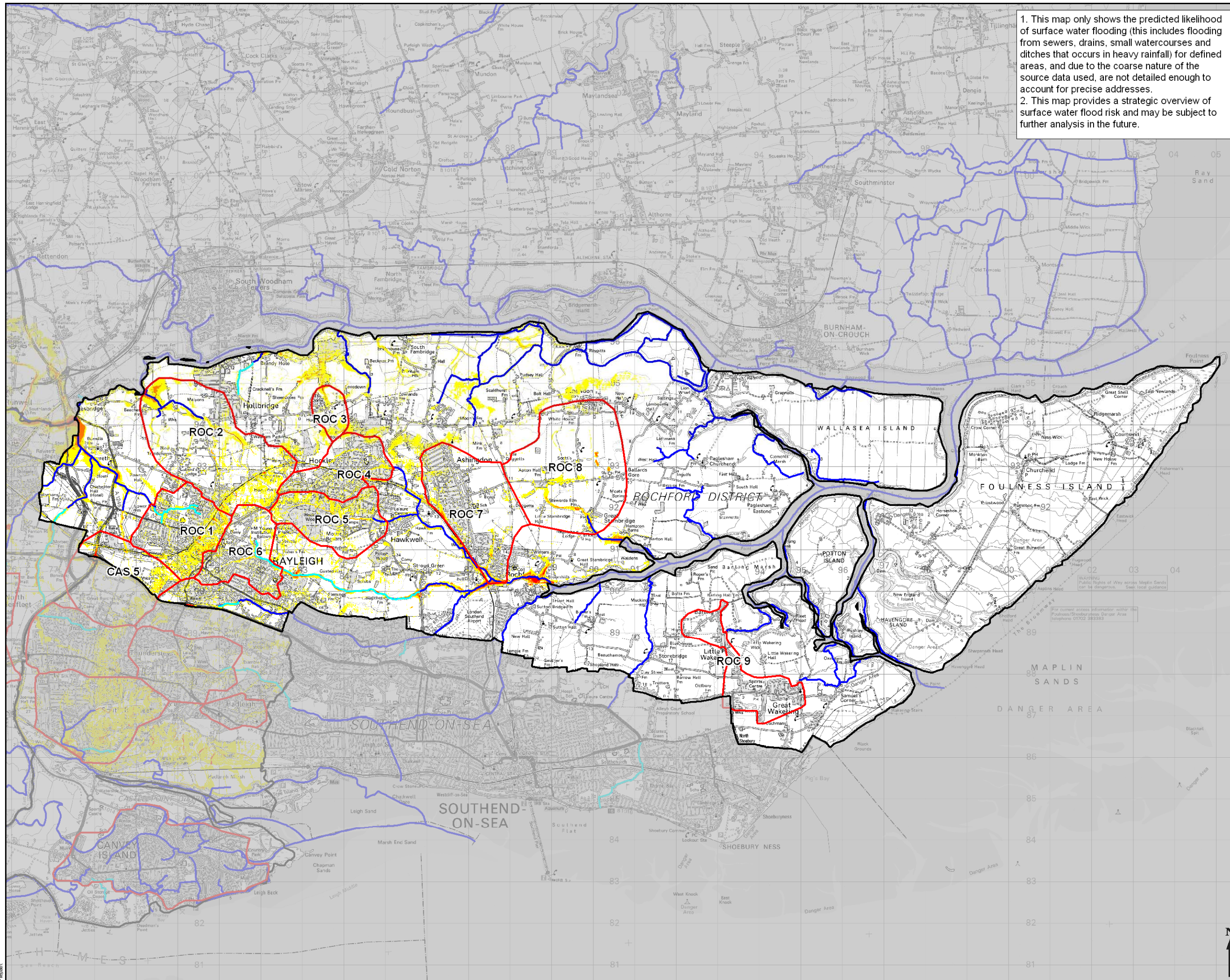
Scale at A3: **1:85,000**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Date: **Aug 2011**

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Drawing Number: **FIGURE D 15**



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Council Extent
- Critical Drainage Area
- Main River
- Critical Ordinary Watercourses

- Flood Hazard**
- <0.75 Caution (Very low hazard)
  - 0.75 - 1.25 Moderate (Danger for some)
  - 1.25 - 2.0 Significant (Danger for Most)
  - >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title: **ROCHFORD Surface Water Flood Hazard 1 in 100 Chance of a rainfall event occurring in a given year plus Climate Change (1% AEP)**

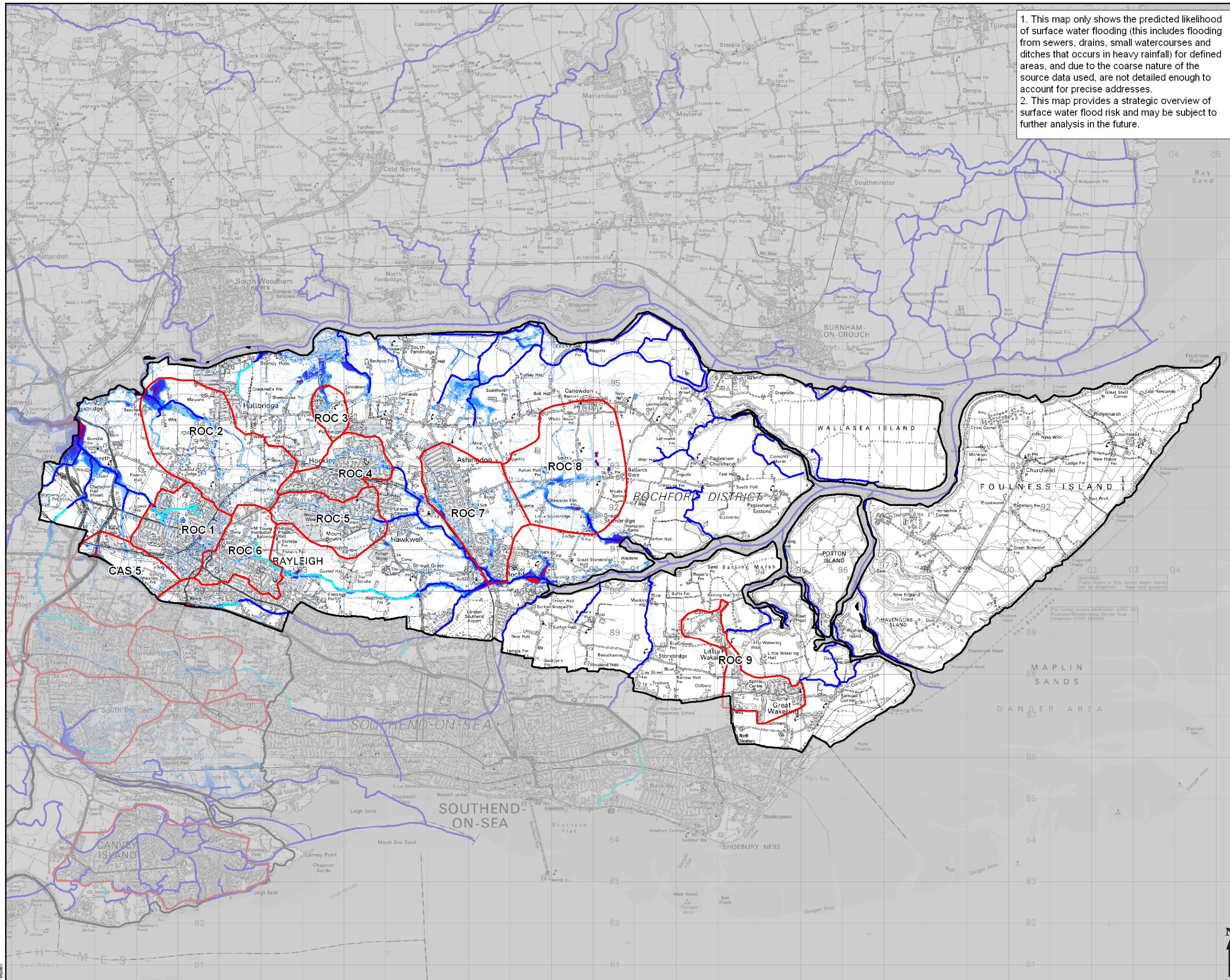
Scale at A3: **1:85,000**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Date: **Aug 2011**

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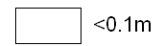
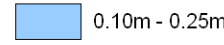
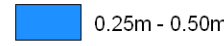
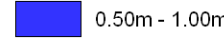
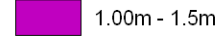







1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

-  Council Extent
-  Critical Drainage Area
-  Main River
-  Critical Ordinary Watercourses

- Flood Depth**
-  <0.1m
  -  0.10m - 0.25m
  -  0.25m - 0.50m
  -  0.50m - 1.00m
  -  1.00m - 1.5m
  -  >1.50m

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title: **ROCHFORD Surface Water Flood Depth (m) 1 in 200 Chance of a rainfall event occurring in a given year (0.5% AEP)**

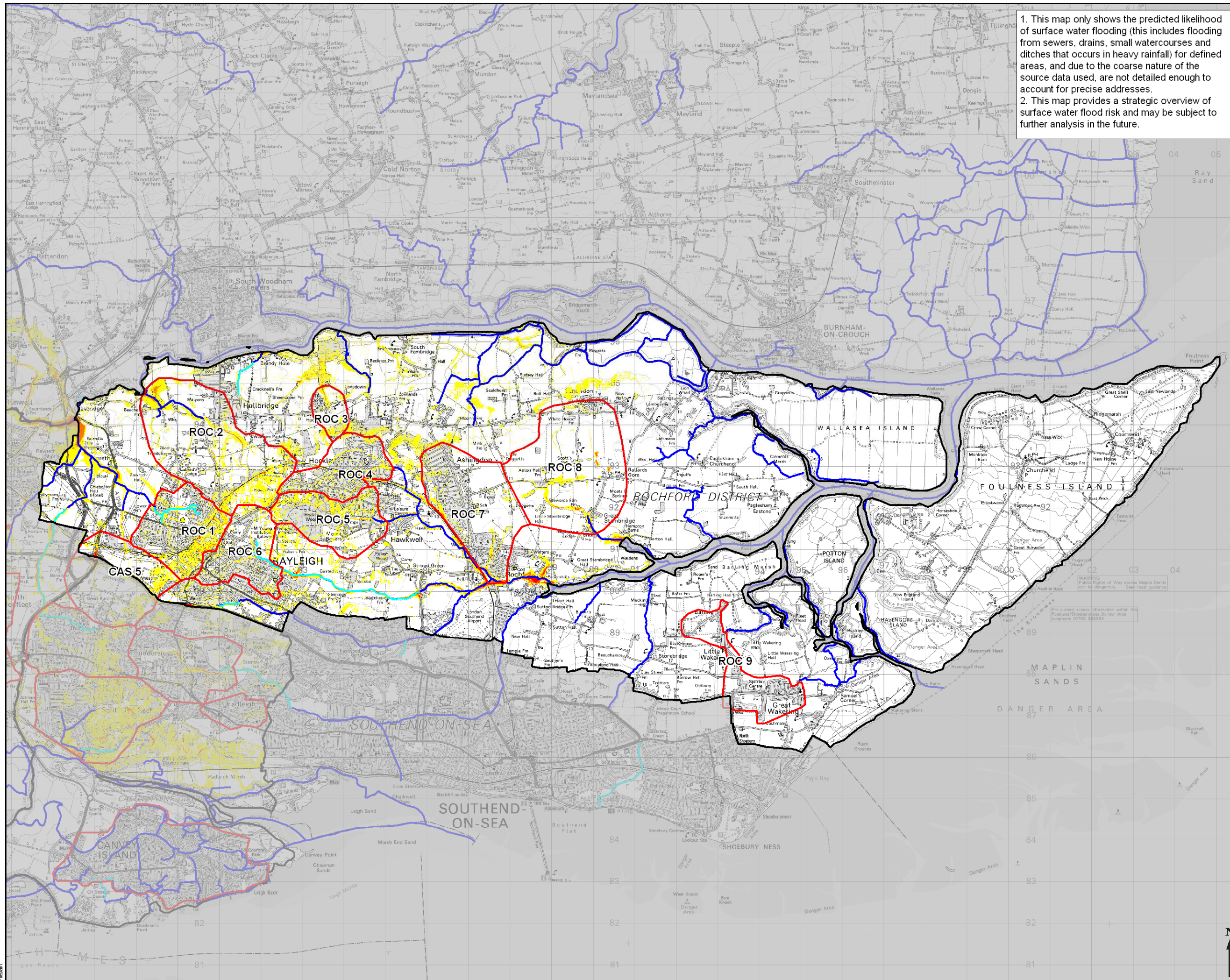
Scale at A3: **1:85,000**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Date: **Aug 2011**

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




Drawing Number: **FIGURE D17**



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

-  Council Extent
-  Critical Drainage Area
-  Main River
-  Critical Ordinary Watercourses

- Flood Hazard**
-  <0.75 Caution (Very low hazard)
  -  0.75 - 1.25 Moderate (Danger for some)
  -  1.25 - 2.0 Significant (Danger for Most)
  -  >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

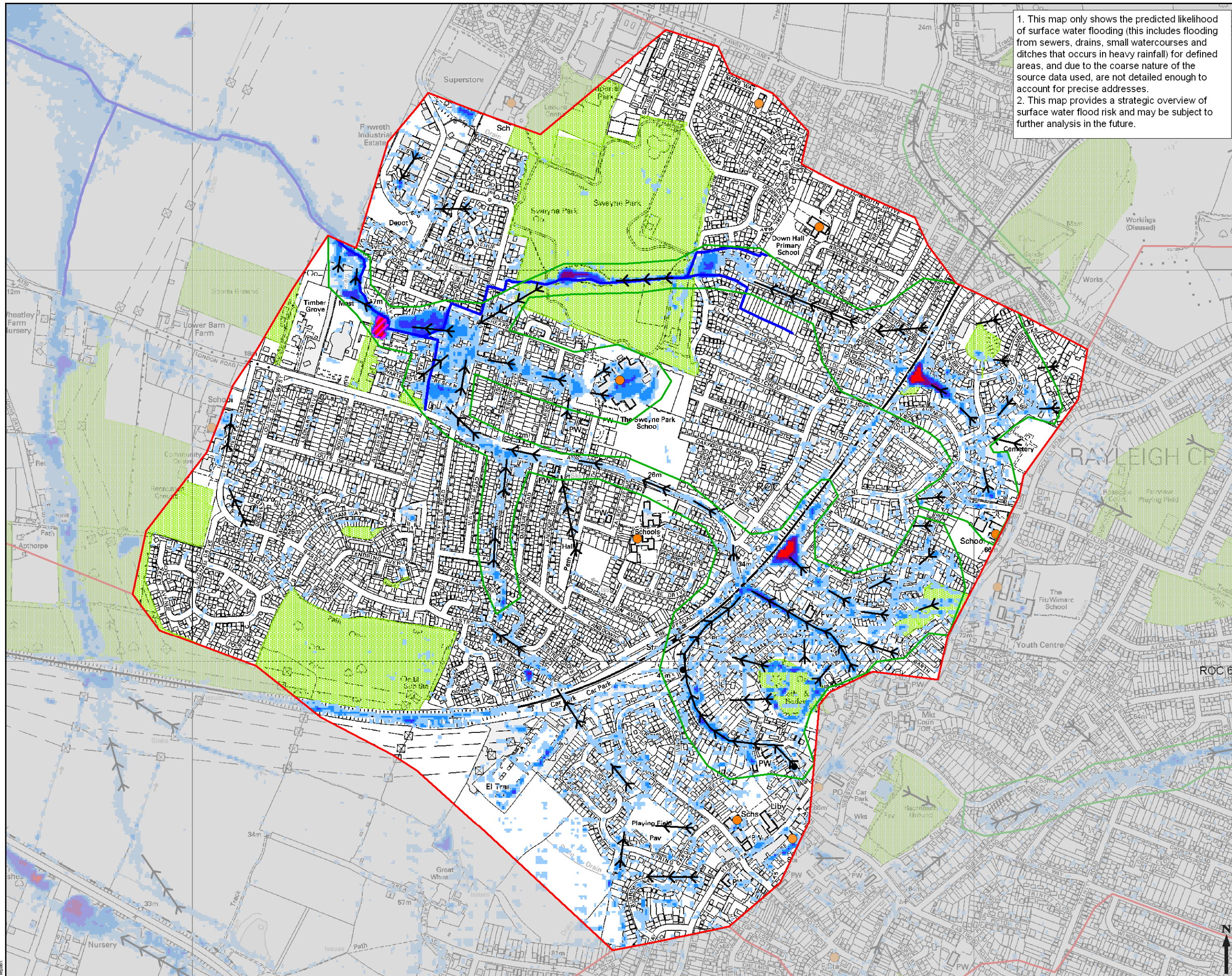
Drawing Title: **ROCHFORD Surface Water Flood Hazard 1 in 200 Chance of a rainfall event occurring in a given year (0.5% AEP)**

Scale at A3: **1:85,000**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Date: **Aug 2011**

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1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
- Potential Surface Water Flooding Hotspot
- Critical Infrastructure
- DG5 Record
- Main River
- Washland
- Open Space
- Flow Path

**Flood Depth**

- < 0.10m
- 0.10m - 0.25m
- 0.25m - 0.50m
- 0.50m - 1.00m
- > 1.50m

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title: **ROC 1 - Rayleigh West Surface Water Flood Depth (m) 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)**

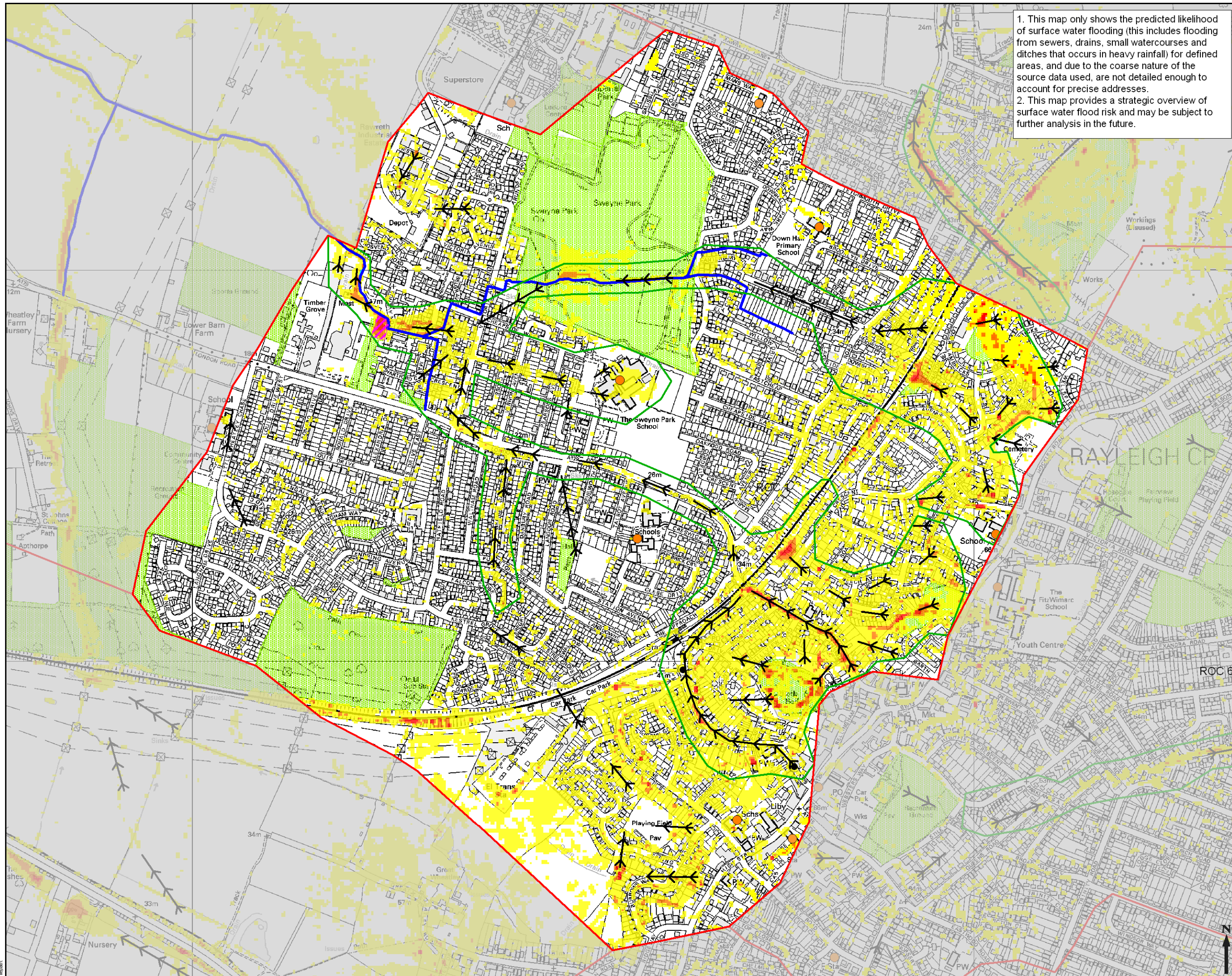
Scale at A3: **1:9,000**

Drawn: <b>DS</b>	Approved: <b>CP</b>
Stage 1 Check: <b>BA</b>	Date: <b>Jul 2011</b>

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1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
  - Potential Surface Water Flooding Hotspot
  - Critical Infrastructure
  - DG5 Register
  - Open Space
  - Washland
  - Flow Paths
  - Main River
- Flood Hazard**
- <0.75 Caution (Very low hazard)
  - 0.75 - 1.25 Moderate (Danger for some)
  - 1.25 - 2.0 Significant (Danger for Most)
  - >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title: **ROC 1 - Rayleigh West Surface Water Flood Hazard 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)**

Scale at A3: **1:9,000**

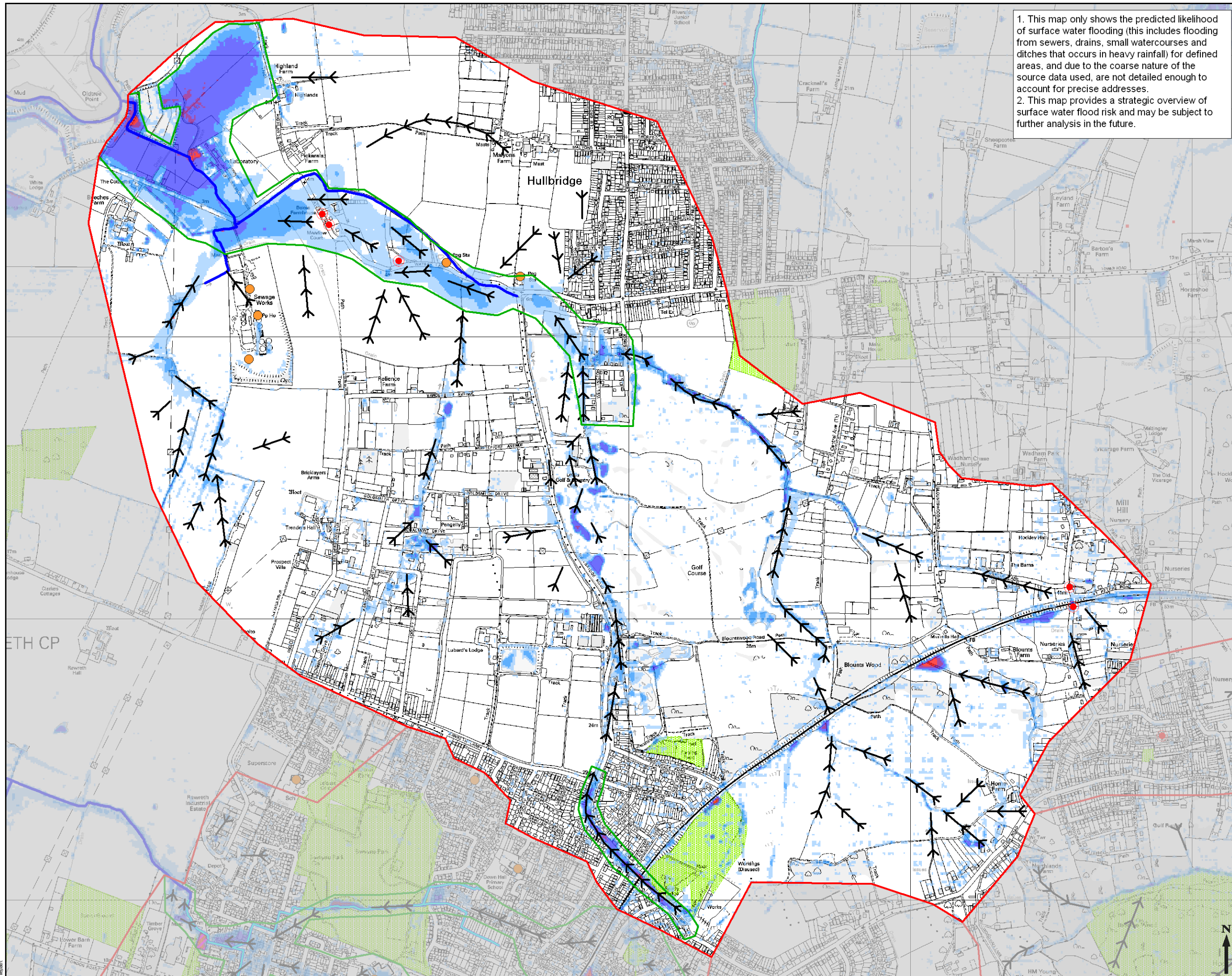
Drawn	DS	Approved	CP
Stage 1 Check		Original	BA
		Date	Jul 2011

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Drawing Number: **FIGURE D 20**



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

**Legend**

- Critical Drainage Area
- Potential Surface Water Flooding Hotspot
- Historic Flood Record
- Critical Infrastructure
- DG5 Record
- Main River
- Open Space
- ➔ Flow Path

**Flood Depth**

- < 0.10m
- 0.10m - 0.25m
- 0.25m - 0.50m
- 0.50m - 1.00m
- 1.00m - 1.50m
- >1.50m

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



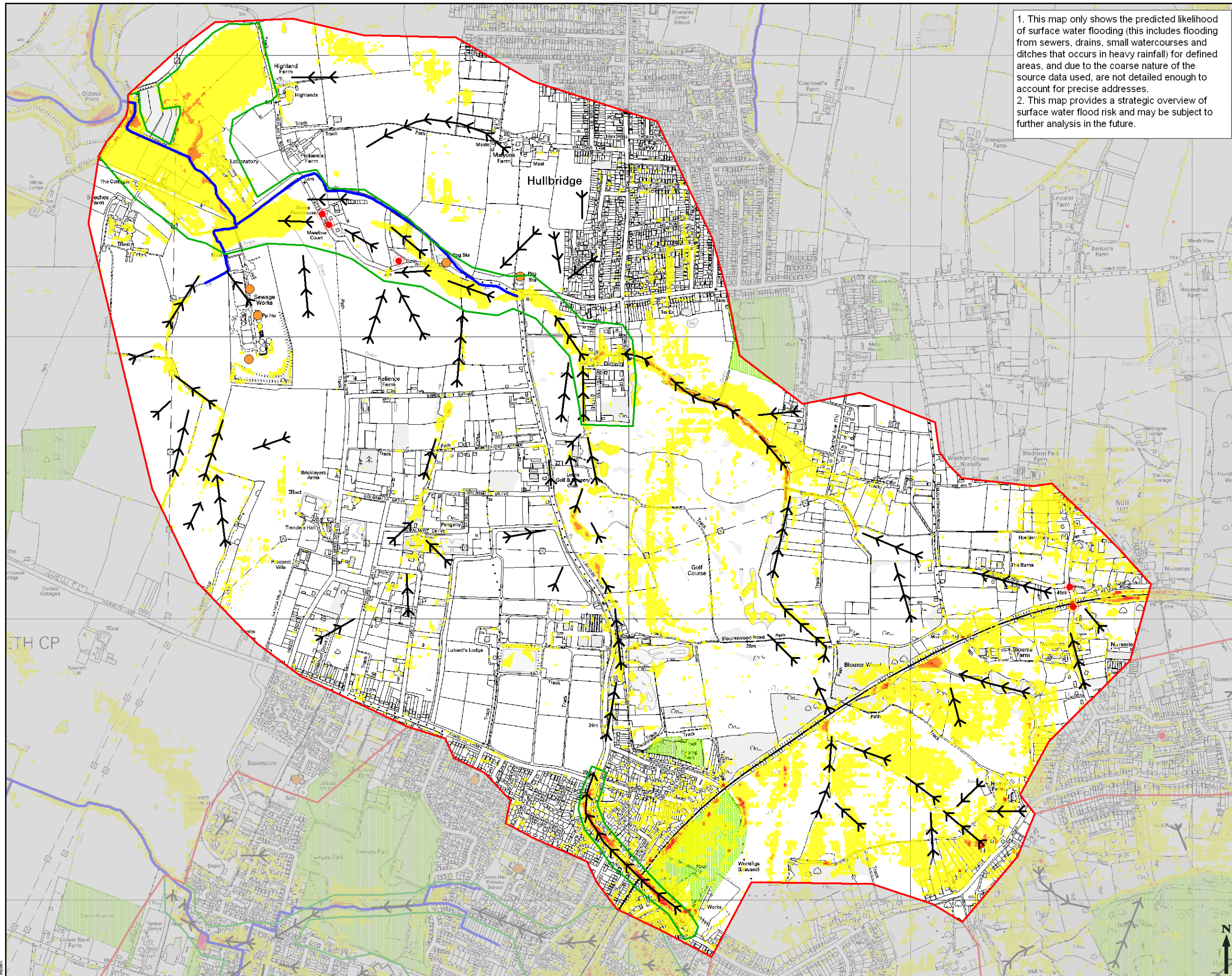
Drawing Status: **FINAL**

Drawing Title:  
**ROC 2 - Watery Lane**  
 Surface Water Flood Depth (m)  
 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)

Scale at A3: 1:12,500			
Drawn: DS	Approved: CP		
Stage 1 Check:	Stage 2 Check:	Original: BA	Date: Jul 2011

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1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
  - Potential Surface Water Flooding Hotspot
  - Historic Flood Record
  - Critical Infrastructure
  - DG5 Record
  - Main River
  - Open Space
  - ➔ Flow Path
- Flood Hazard**
- <0.75 Caution (Very low hazard)
  - 0.75 - 1.25 Moderate (Danger for some)
  - 1.25 - 2.0 Significant (Danger for Most)
  - >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title:  
**ROC 2 - Watery Lane**  
 Surface Water Flood Depth (m)  
 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)

Scale at A3: **1:12,500**

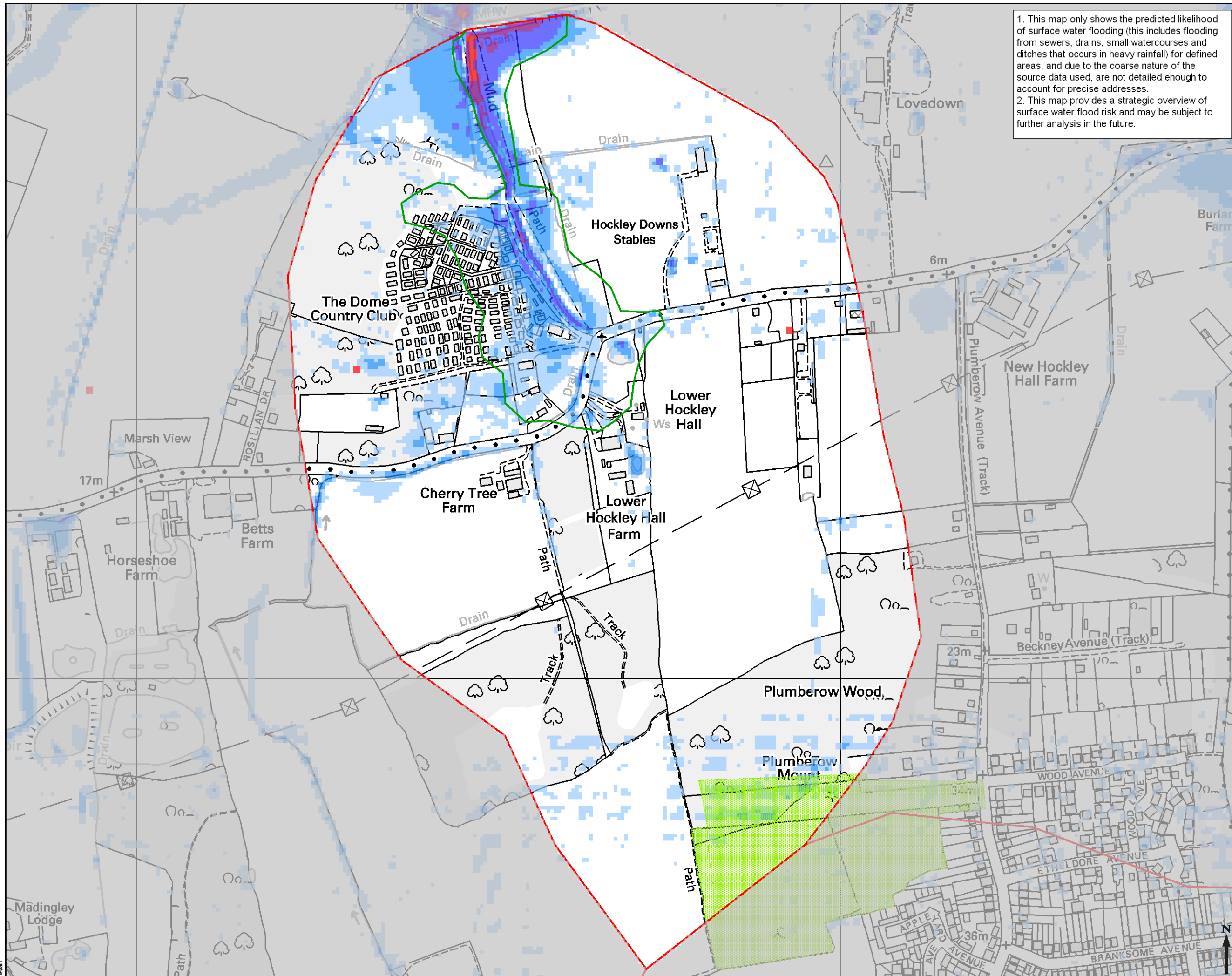
Drawn	DS	Approved	CP
Stage 1 Check	Stage 2 Check	Original	Date
		BA	Jul 2011

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Drawing Number: **FIGURE D 22**



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

**Critical Drainage Areas**

**Open Space**

**Flood Depth**

- < 0.10m
- 0.10m - 0.25m
- 0.25m - 0.50m
- 0.50m - 1.00m
- 1.00m - 1.50m
- >1.50m

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



**Drawing Status**  
 FINAL

**Drawing Title**  
 ROC 3 - Lower Hockley / Dorn Country Club  
 Surface Water Flood Depth (m)  
 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)

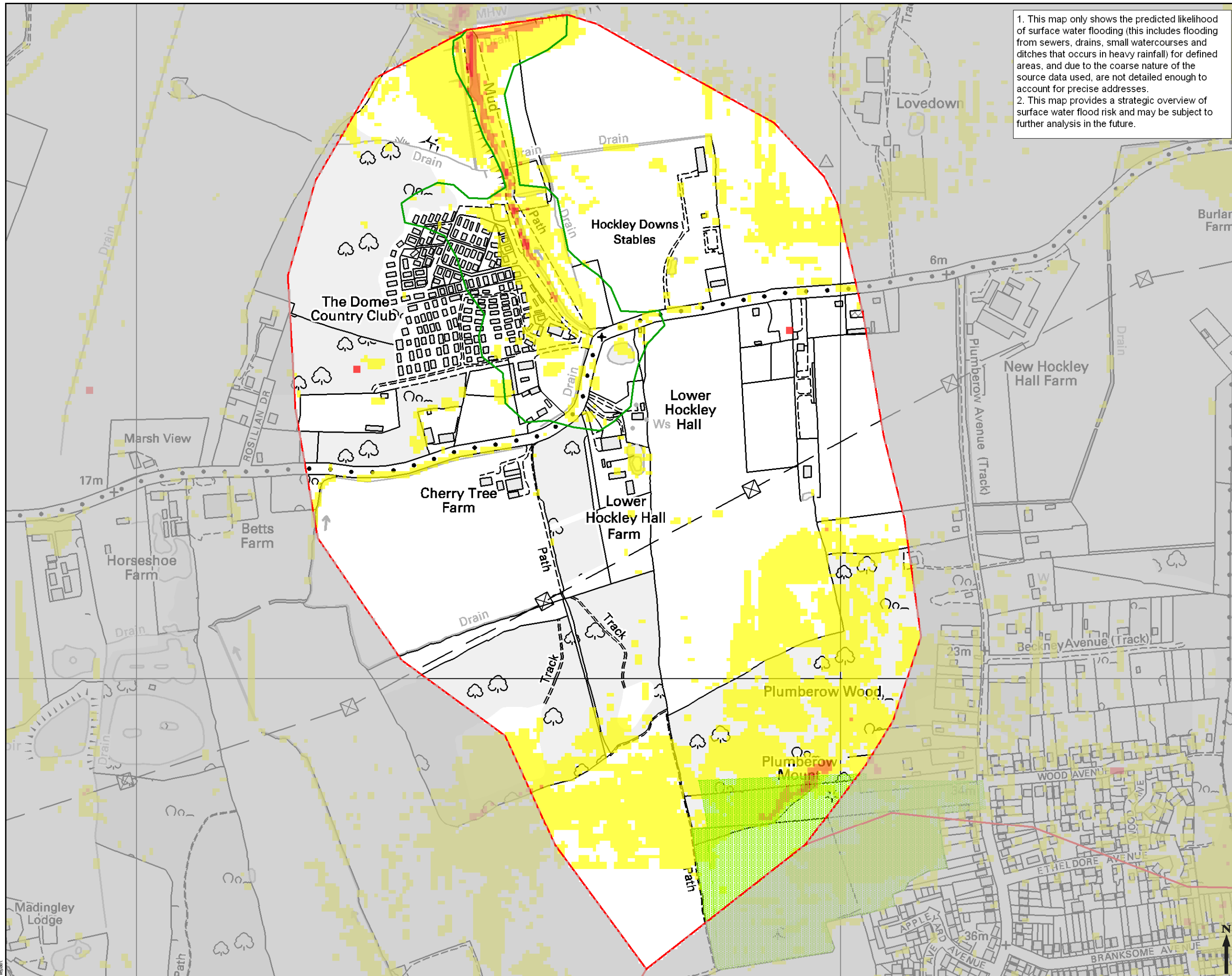
Scale at A3  
 1:9,000

Drawn	DS	Approved	CP
Stage 1 Check		Original	BA
Stage 2 Check		Date	Aug 2011

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1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Areas
- Open Space
- Flood Hazard**
- <0.75 Cautious (Very low hazard)
- 0.75 - 1.25 Moderate (Danger for some)
- 1.25 - 2.0 Significant (Danger for Most)
- >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title:  
**ROC 3 - Lower Hockley / Dorn Country Club**  
**Surface Water Flood Hazard**  
**1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)**

Scale at A3: 1:9,000

Drawn	DS	Approved	CP
Stage 1 Check		Original	BA
Stage 2 Check		Date	Aug 2011

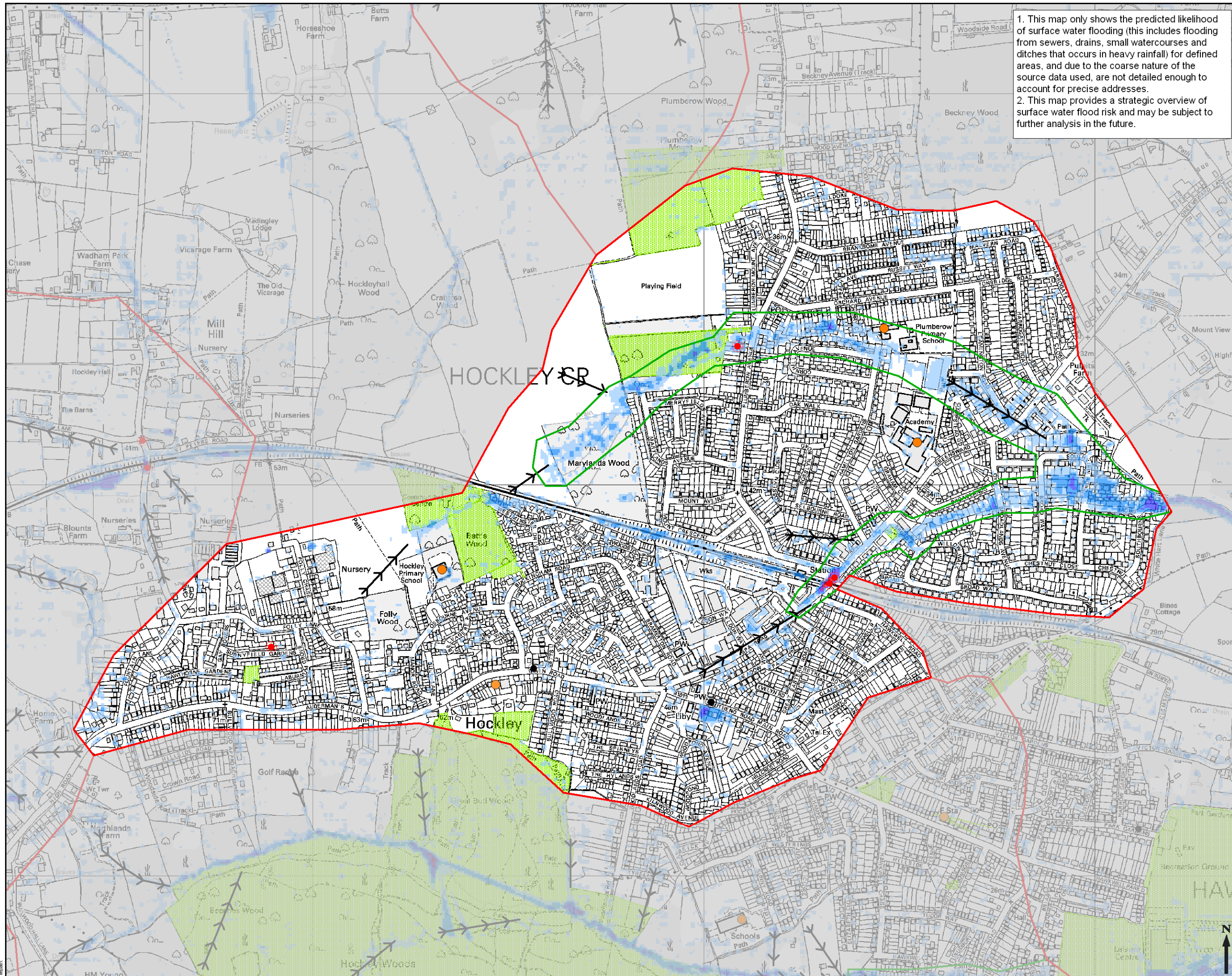
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Drawing Number: **FIGURE D 24**





1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
- Potential Surface Water Flooding Hotspot
- Historic Flood Record
- Critical Infrastructure
- DG5 Record
- Main River
- Open Spaces
- Flow Path

**Flood Depth**

- < 0.10m
- 0.10m - 0.25m
- 0.25m - 0.50m
- 0.50m - 1.00m
- 1.00m - 1.50m
- > 1.50m

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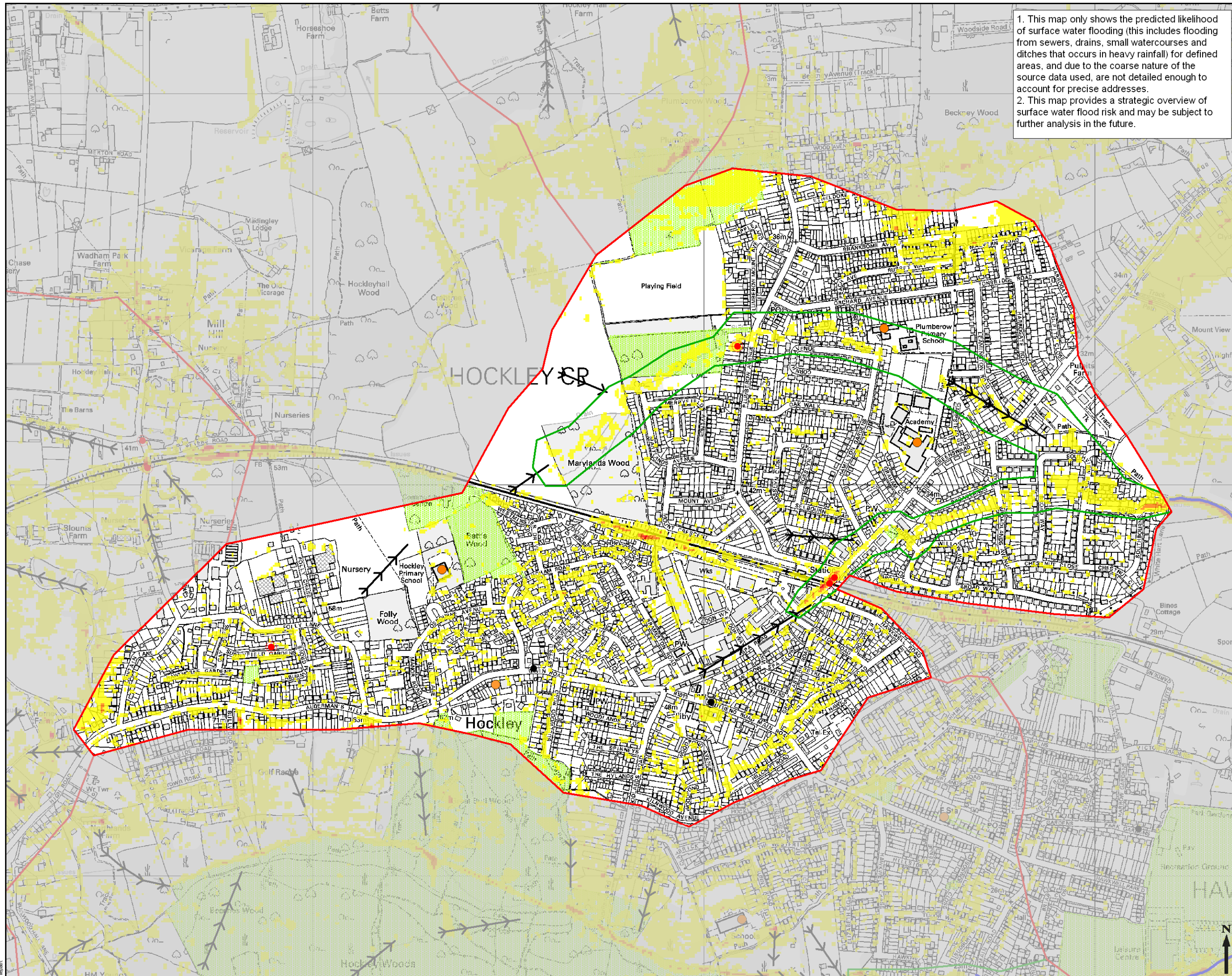
Drawing Status: **FINAL**

Drawing Title:  
**ROC 4 - Hockley**  
 Surface Water Flood Depth (m)  
 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)

Scale at A3: 1:9,000			
Drawn: DS	Approved: CP		
Stage 1 Check:	Stage 2 Check:	Original: BA	Date: Jul 2011

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1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
  - Potential Surface Water Flooding Hotspot
  - Historic Flood Record
  - Critical Infrastructure
  - DG5 Record
  - Main River
  - Open Space
  - Flow Path
- Flood Hazard**
- <math><0.75</math> Caution (Very low hazard)
  - 0.75 - 1.25 Moderate (Danger for some)
  - 1.25 - 2.0 Significant (Danger for Most)
  - >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



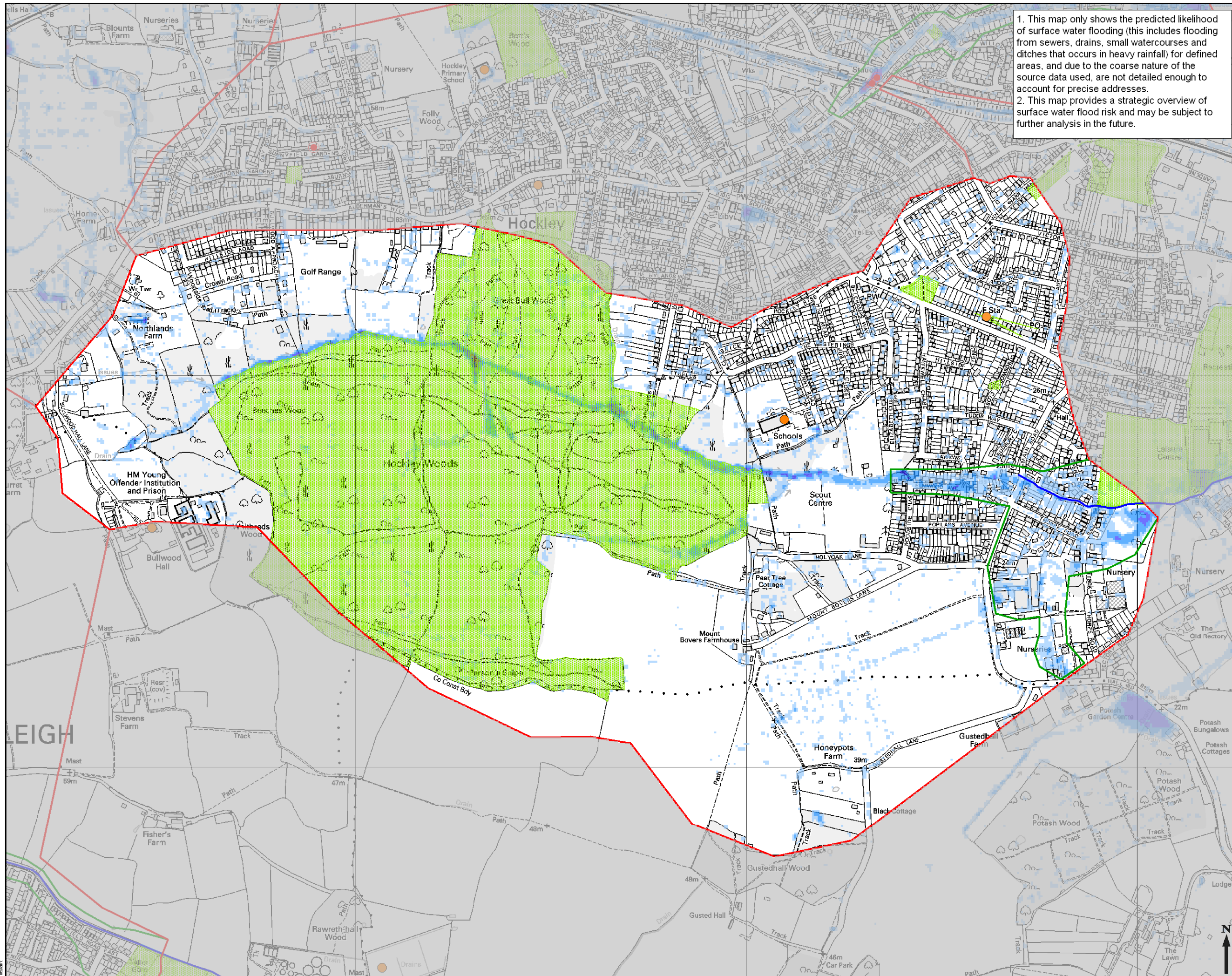
Drawing Status: **FINAL**

Drawing Title:  
**ROC 4 - Hockley**  
 Surface Water Flood Hazard  
 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)

Scale at A3: 1:9,000			
Drawn: DS	Approved: CP		
Stage 1 Check:	Stage 2 Check:	Original: BA	Date: Jul 2011

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 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
- Potential Surface Water Flooding Hotspot
- Open Space
- Critical Infrastructure
- Main River

- Flood Depth**
- < 0.10m
  - 0.10m - 0.25m
  - 0.25m - 0.50m
  - 0.50m - 1.00m
  - 1.00m - 1.50m
  - > 1.50m

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



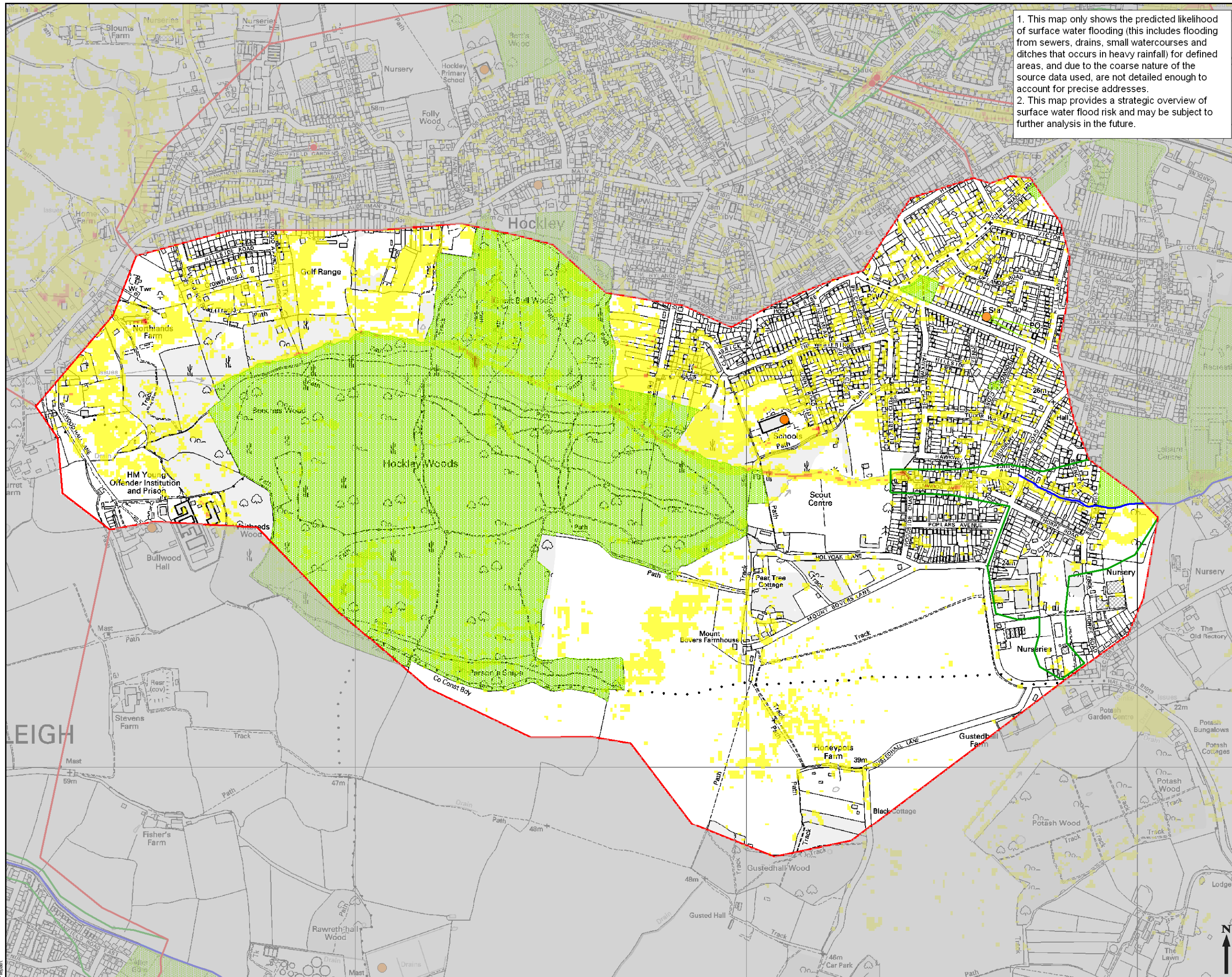
**FINAL**

**ROC 5 - Hockley Woods**  
 Surface Water Flood Depth (m)  
 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)

Scale at A3			
1:9,000			
Drawn	DS	Approved	CP
Stage 1 Check	Stage 2 Check	Original	Date
		BA	Aug 2011

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 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
- Potential Surface Water Flooding Hotspot
- Open Space
- Critical Infrastructure
- Main River

- Flood Hazard**
- <0.75 Caution (Very low hazard)
  - 0.75 - 1.25 Moderate (Danger for some)
  - 1.25 - 2.0 Significant (Danger for Most)
  - >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



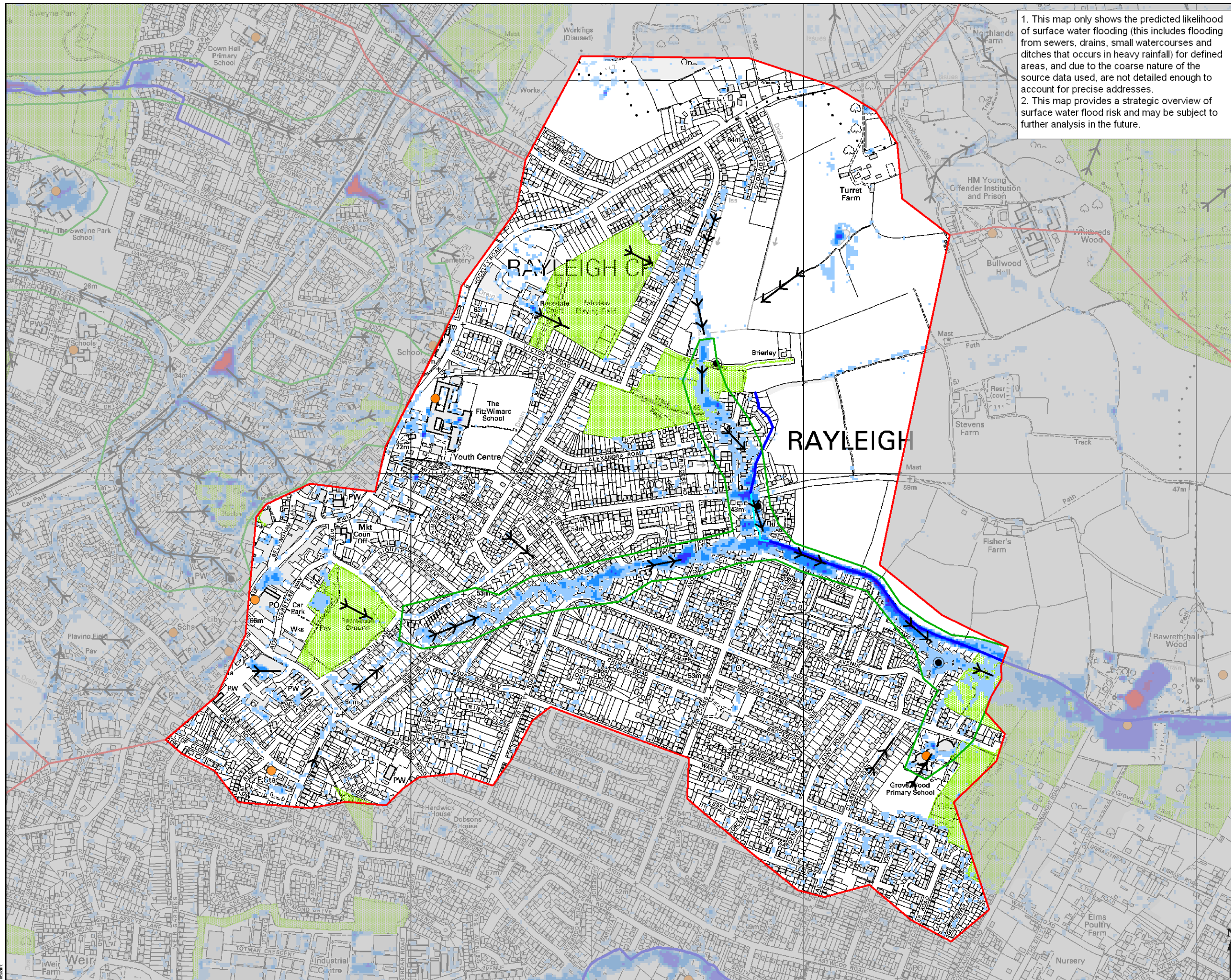
Drawing Status: **FINAL**

Drawing Title: **ROC 5 - Hockley Woods**  
 Surface Water Flood Hazard  
 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)

Scale at A3: 1:9,000			
Drawn: DS	Approved: CP		
Stage 1 Check:	Stage 2 Check:	Original: BA	Date: Aug 2011

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1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
- Potential Surface Water Flooding Hotspot
- Critical Infrastructure
- DG5 Record
- Open Space
- Flow Path
- Main River
- Ordinary Watercourse

**Flood Depth**

	< 0.10m
	0.10m - 0.25m
	0.25m - 0.50m
	0.50m - 1.00m
	1.00m - 1.50m
	>1.50m

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

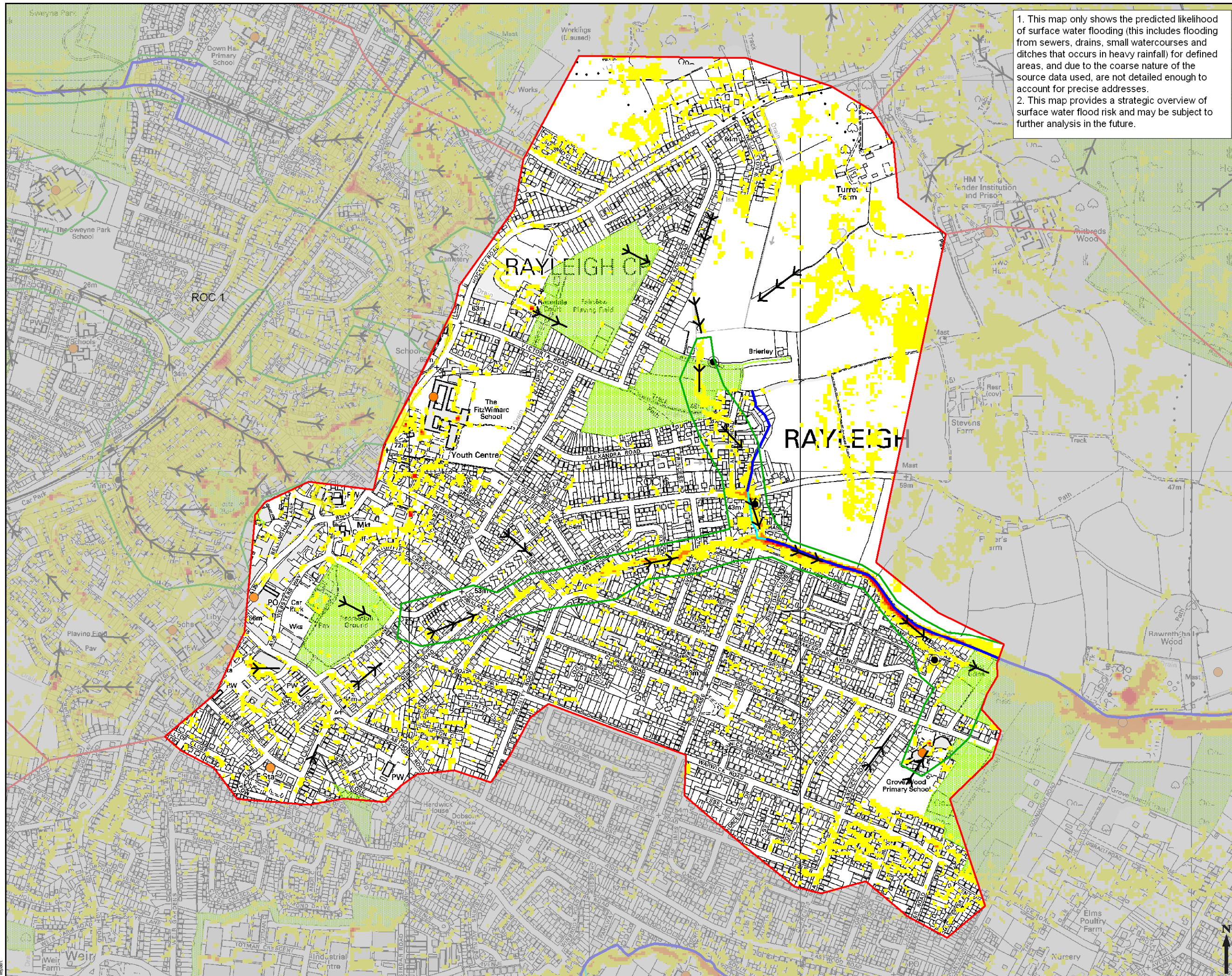
Drawing Title:  
**ROC 6 - Rayleigh East Surface Water Flood Depth (m) 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)**

Scale at A3: 1:9,000			
Drawn: DS	Approved: CP		
Stage 1 Check:	Stage 2 Check:	Original: BA	Date: Jul 2011

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 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
  - Potential Surface Water Flooding Hotspot
  - Critical Infrastructure
  - DG5 Record
  - Open Space
  - Flow Path
  - Main River
  - Ordinary Watercourse
- Flood Hazard**
- <math><0.75</math> Caution (Very low hazard)
  - 0.75 - 1.25 Moderate (Danger for some)
  - 1.25 - 2.0 Significant (Danger for Most)
  - >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

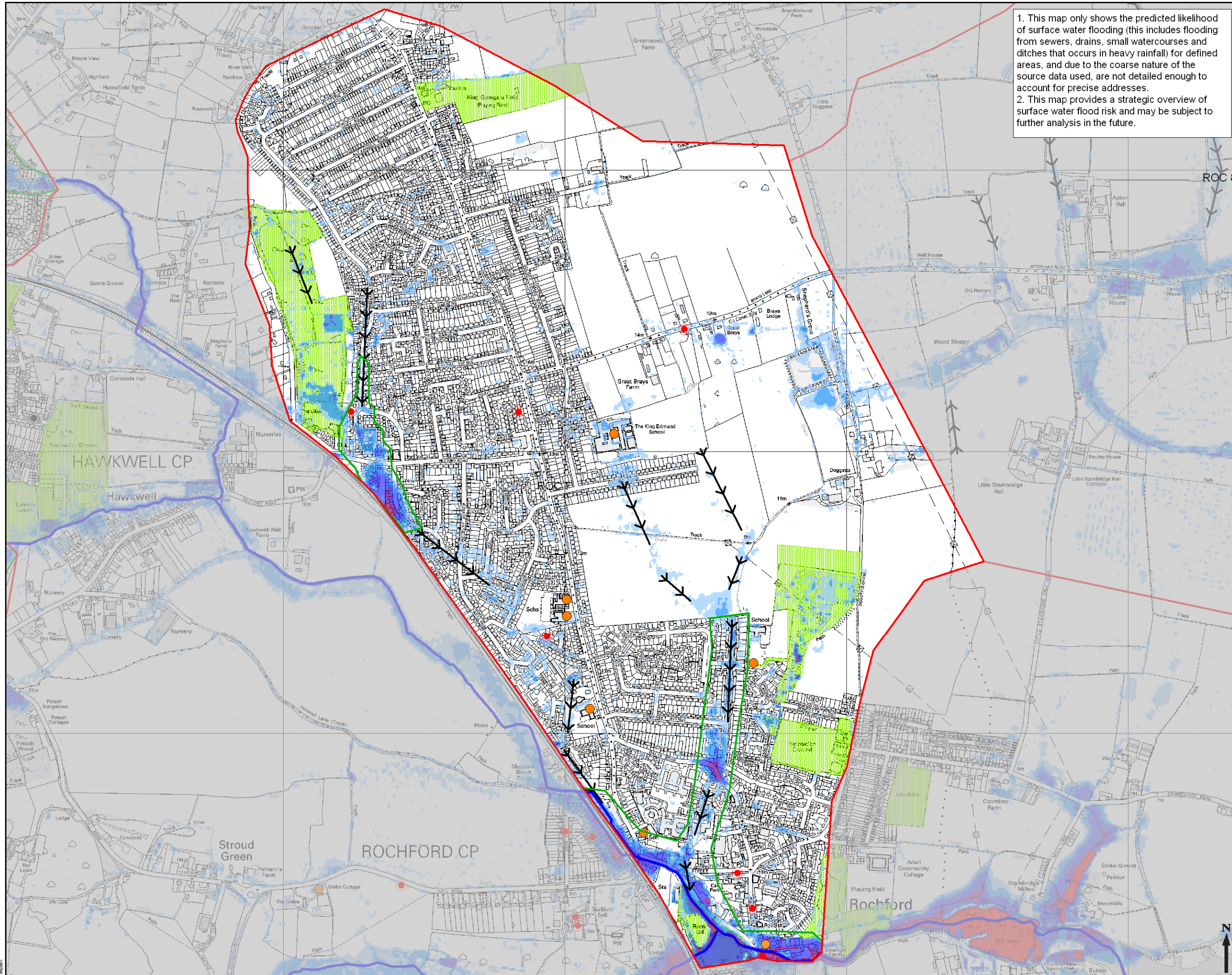
Drawing Title: **ROC 6 - Rayleigh East Surface Water Flood Hazard 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)**

Scale at A3: **1:9,000**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: Stage 2 Check: Original: **BA** Date: **Jul 2011**

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 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
  - Potential Surface Water Flooding Hotspot
  - Critical Infrastructure
  - DG5 Record
  - Flood Record
  - Flow Path
  - Open Space
  - Main River
- Flood Depth**
- <math>< 0.10\text{m}</math>
  - 0.10m - 0.25m
  - 0.25m - 0.50m
  - 0.50m - 1.00m
  - 1.00m - 1.50m
  - >1.50m

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**SOUTH ESSEX  
 SURFACE WATER  
 MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title:  
**ROC 7 - Ashington/Rochford  
 Surface Water Flood Depth (m)  
 1 in 100 Chance of a rainfall  
 event occurring in a given year  
 (1% AEP)**

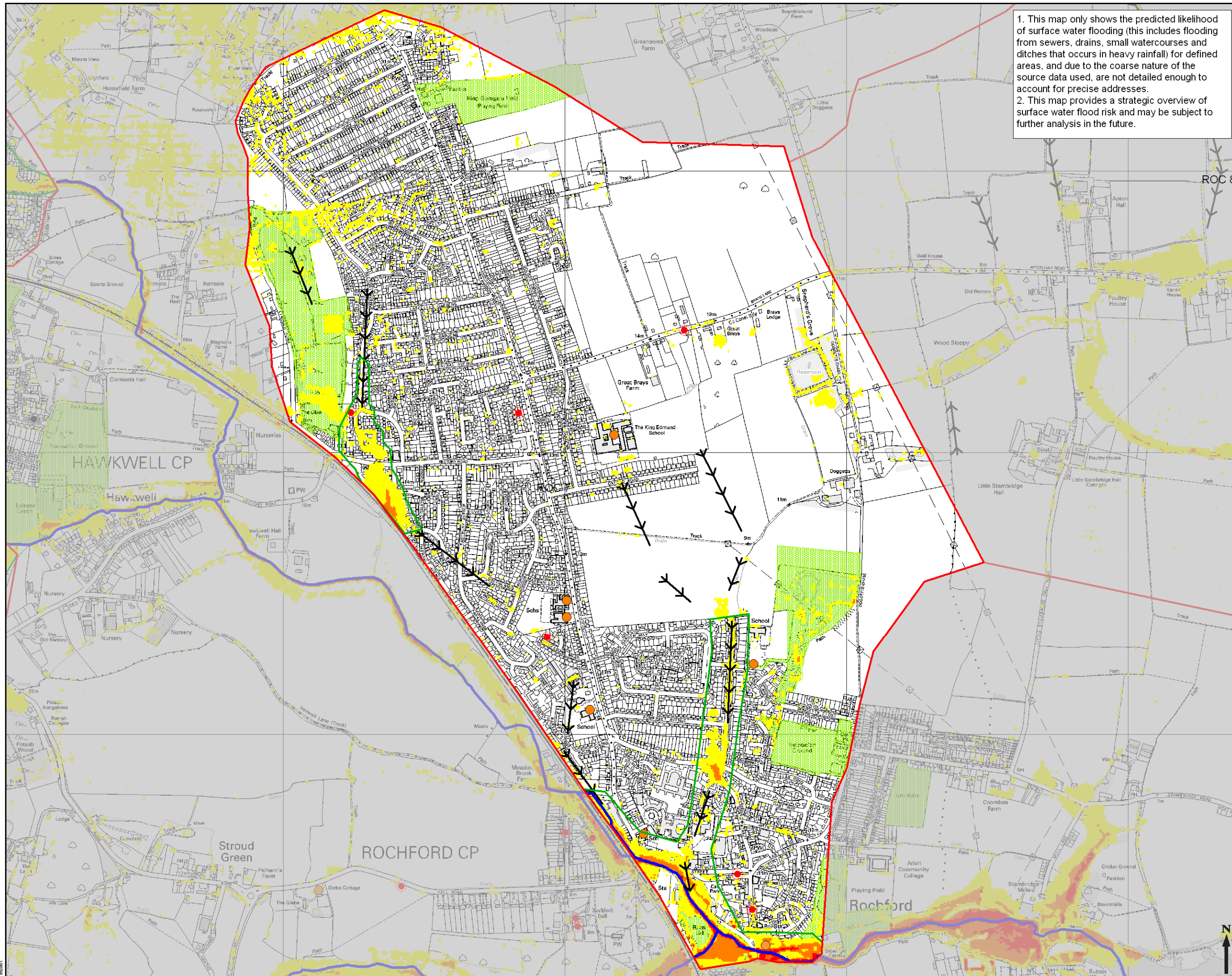
Scale at A3: **1:12,500**

Drawn	DS	Approved	CP
Stage 1 Check	Stage 2 Check	Original	Date
		BA	Jul 2011

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Drawing Number: **FIGURE D 31**



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
- Potential Surface Water Flooding Hotspot
- Critical Infrastructure
- DG5 Record
- Flood Record
- Main River
- Open Space
- ➔➔➔ Flow Path

- Flood Hazard**
- <0.75 Caution (Very low hazard)
  - 0.75 - 1.25 Moderate (Danger for some)
  - 1.25 - 2.0 Significant (Danger for Most)
  - >2.0 Extreme (Danger for all)

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**SOUTH ESSEX  
 SURFACE WATER  
 MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title:  
**ROC 7 - Ashington/Rochford  
 Surface Water Flood Hazard  
 1 in 100 Chance of a rainfall  
 event occurring in a given year  
 (1% AEP)**

Scale at A3: **1:12,500**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Stage 2 Check: **BA** Date: **Jul 2011**

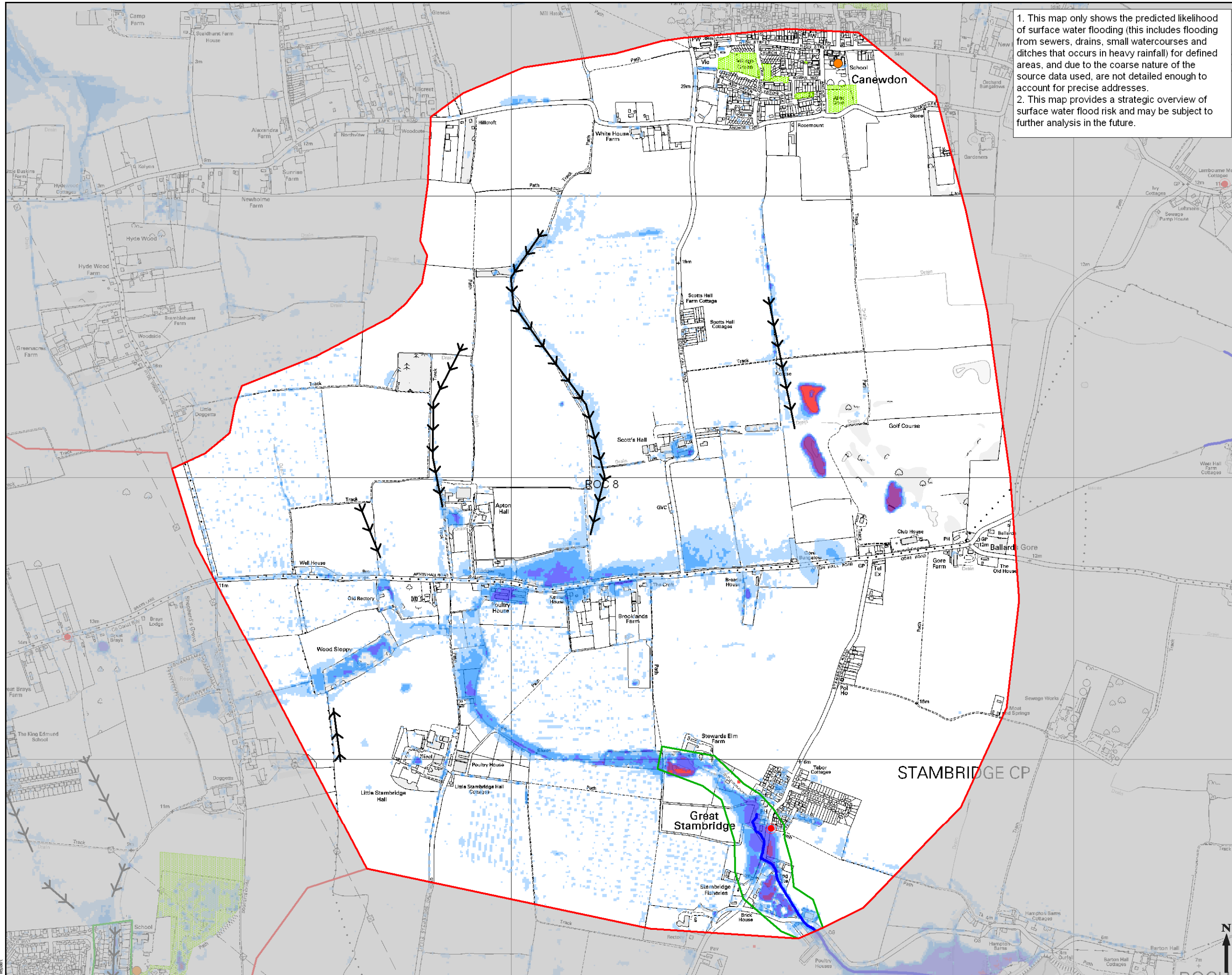
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Drawing Number: **FIGURE D 32**





1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
- Potential Surface Water Flooding Hotspot
- Critical Infrastructure
- Flood Record
- Open Spaces
- Main River
- Flow Path

- Flood Depth**
- < 0.10m
  - 0.10m - 0.25m
  - 0.25m - 0.50m
  - 0.50m - 1.00m
  - 1.00m - 1.50m
  - >1.50m

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**SOUTH ESSEX  
 SURFACE WATER  
 MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title: **ROC 8 - Great Stambridge  
 Surface Water Flood Depth (m)  
 1 in 100 Chance of a rainfall  
 event occurring in a given year  
 (1% AEP)**

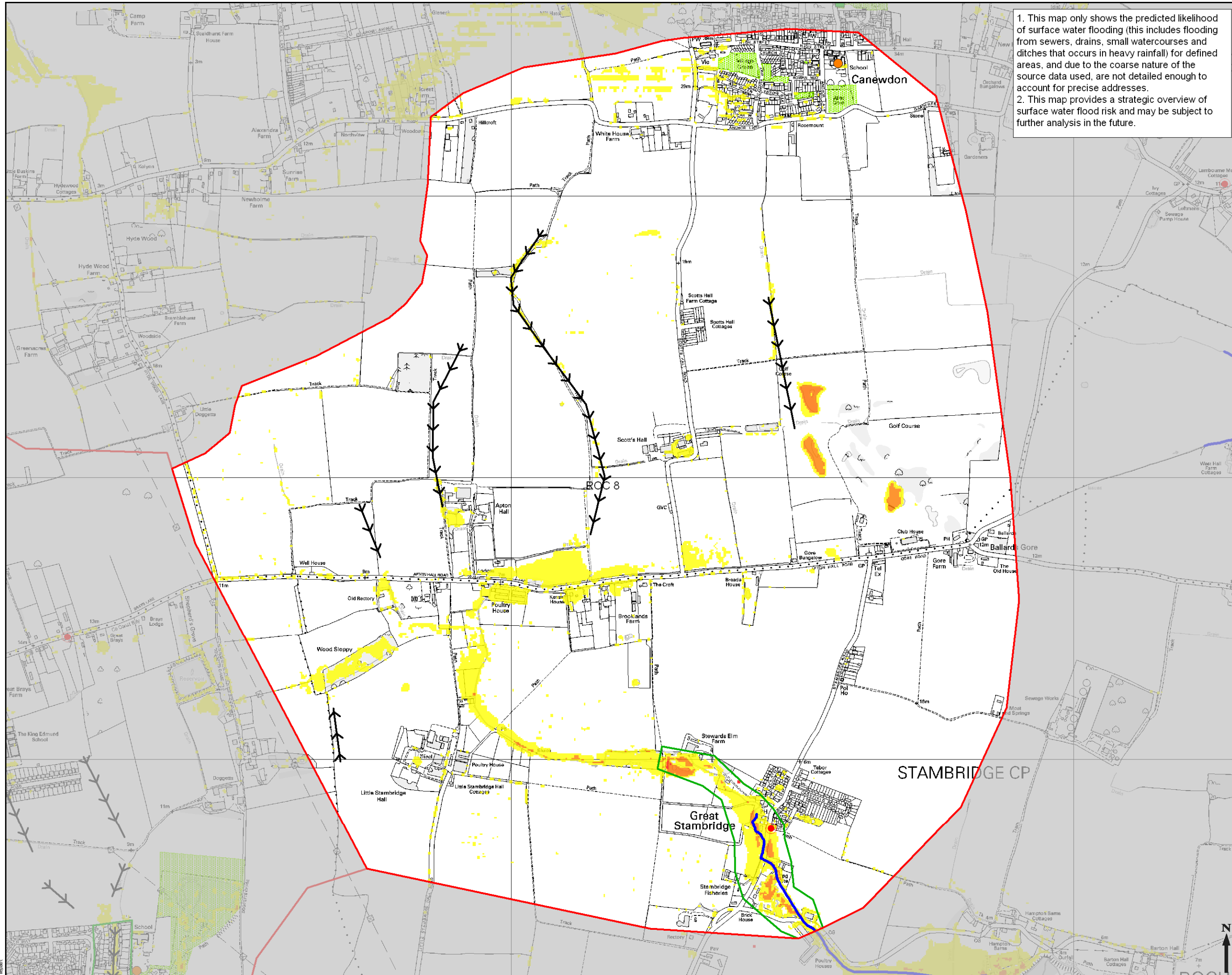
Scale at A3: **1:12,500**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Stage 2 Check: **BA** Date: **Jul 2011**

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Drawing Number: **FIGURE D 33**



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
- Potential Surface Water Flooding Hotspot
- Critical Infrastructure
- Flood Record
- Open Space
- Main River
- Flow Path

- Flood Hazard**
- <0.75 Caution (Very low hazard)
  - 0.75 - 1.25 Moderate (Danger for some)
  - 1.25 - 2.0 Significant (Danger for Most)
  - >2.0 Extreme (Danger for all)

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**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status: **FINAL**

Drawing Title: **ROC 8 - Great Stambridge Surface Water Flood Hazard 1 in 100 Chance of a rainfall event occurring in a given year (1% AEP)**

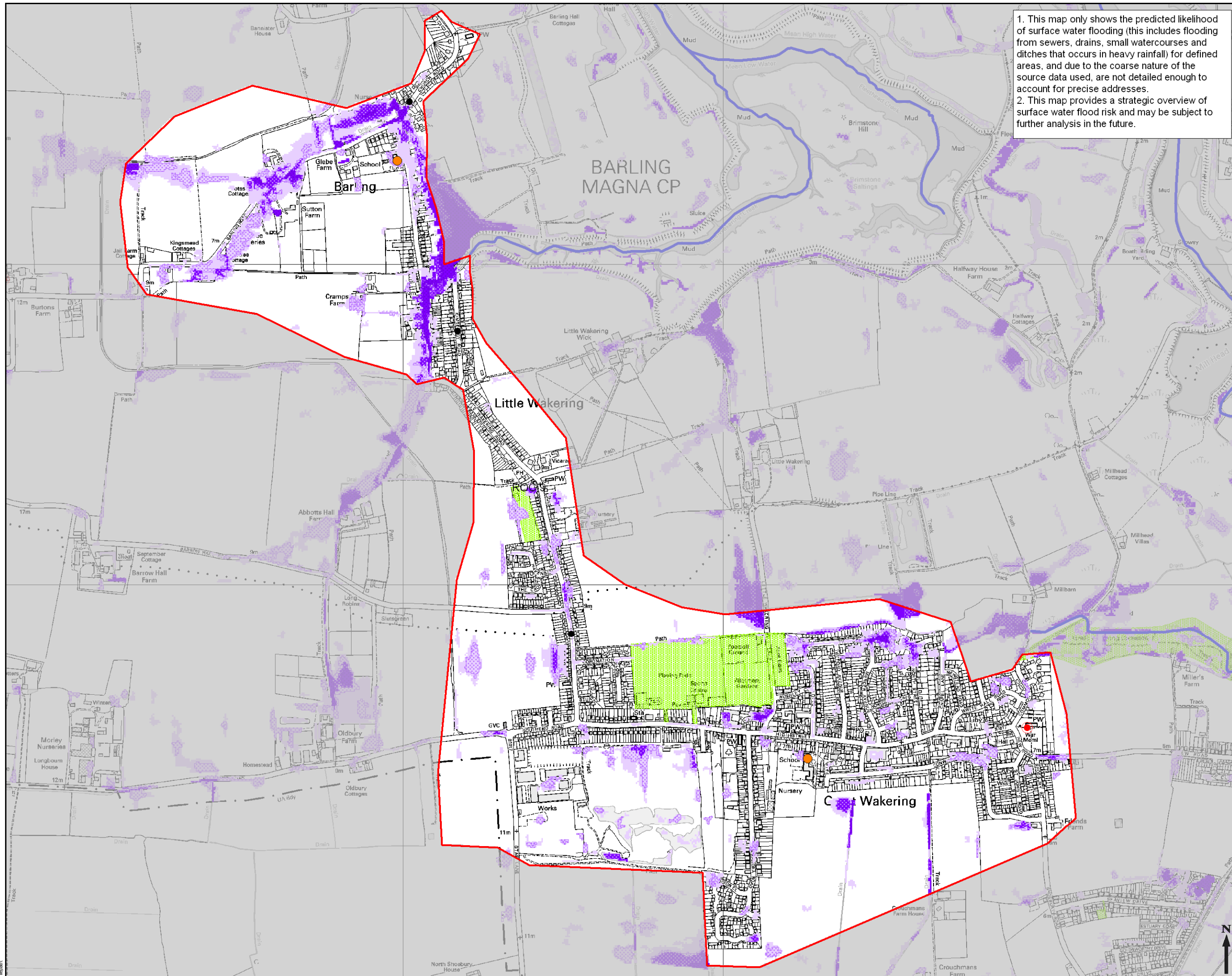
Scale at A3: **1:12,500**  
 Drawn: **DS** Approved: **CP**  
 Stage 1 Check: **BA** Stage 2 Check: **BA** Date: **Jul 2011**

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Drawing Number: **FIGURE D 34**



1. This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defined areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.  
 2. This map provides a strategic overview of surface water flood risk and may be subject to further analysis in the future.

- Critical Drainage Area
- Critical Infrastructure
- Flood Record
- DG5 Record
- Open Space
- Main River

- Flood Map for Surface Water**
- 200 Year > 0.1m deep
  - 200 Year > 0.3m deep
  - 30 Year > 0.1m deep
  - 30 Year > 0.3m deep

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Job Title  
**SOUTH ESSEX SURFACE WATER MANAGEMENT PLAN**



Drawing Status  
**FINAL**

Drawing Title  
**ROC 9 - Little/Great Wakering**  
 Environment Agency  
 Flood Map for Surface Water

Scale at A3  
**1:15,000**

Drawn	DS	Approved	CP
Stage 1 Check		Original	BA
		Date	Jul 2011

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Drawing Number  
**FIGURE D 35**