

## **B Detailed Summary Sheets and Mapping**

### **B.1 DA01 Dartford Town**

**Thameside Stage 1 SWMP : Summary and Actions**  
**Drainage Area 01**

**Area overview**

Area (km<sup>2</sup>)

Drainage assets/systems	Type	Known Issues/problems	Responsibility
Sewer Network	Sewer (combined, foul and surface water)	Known problems of surcharging and overloaded sewers at numerous locations across the drainage area	Thames Water and Southern Water
River Darent	Main river	Known issues with overflow at a number of locations	Environment Agency
River Ebbsfleet	Main River	There are no known issues	Environment Agency

**Flood risk**

Receptor	Source	Pathway	Historic Evidence	Historic Evidence
<b>A: Dartford North West</b>	Blocked drains/gullies  Heavy rainfall resulting in surface water run off and overloaded sewers	Thames Water sewers  Gullies and drains  Localised ponding in low lying areas  Surface water flows along railway line		There is historic evidence of sewer flooding, flooding from blocked drains.  FMfSW 1 in 200 yr (deep)
<b>B: Dartford Central</b>	Blocked drains/gullies  A burst water main has been described as a source of flooding  Heavy rainfall resulting in surface water run off and overloaded sewers	Thames Water sewers  Gullies and drains  Surface water accumulates along Spring Vale and Home Gardens  Large areas of ponding in low lying areas and along the A225  Overland surface water flows have been indicated by the FMfSW along A226		There is historic evidence available to support pathways from blocked drains and gullies, burst water mains and overloaded sewers.  FMfSW 1 in 200 yr (deep)
<b>C: Dartford South/ Hawley Road</b>	Blocked drains/gullies  Heavy rainfall resulting in surface water run off and overloaded sewers	Thames Water sewers  Large areas of ponding in low lying areas  Recurrent incidents of surface water have been recorded along Hawley Road.  Surface water flows along River Darent in a north west and unnamed drain in a south east direction		There is historic evidence available describing events from blocked drains/ gullies and overloaded sewers.  FMfSW 1 in 200 yr (deep)
<b>D: Dartford South East</b>	Heavy rainfall resulting in surface water run off and overloaded sewers	Thames Water sewers  Localised areas of ponding in low lying areas  Surface water flows along A282 in a northerly direction		Thameswater sewers have provided information regarding overloaded sewers.  FMfSW 1 in 200 yr (deep)
<b>E: Stone</b>	Blocked drains/gullies  A burst water main has been described as a source of flooding  Heavy rainfall resulting in surface water run off and overloaded sewers	Thames Water sewers  London Road through Stone has historically been a pathway for surface water flows and an area where localised ponding occurs along this route.  Localised areas of ponding along Elm Road  Gullies and drains		There is historic evidence to support pathways  FMfSW 1 in 200 yr (deep)

<b>F: Greenhithe</b>	Heavy rainfall resulting in surface water run off and overloaded sewers	Thames Water sewers Southern Water Sewers Surface water flows along Crossways Boulevard in a north west direction Ponding along A206 Large areas of ponding along Steele Avenue and Low Close	Both Southern Water and Thameswater have supplied data describing historic flooding events  FMfSW 1 in 200 yr (deep)
<b>G: Swanscombe</b>	Heavy rainfall resulting in surface water run off and overloaded sewers  Blocked drains/gullies	Southern Water sewers  Milton Street, Stanhope Road and Southfleet Road are known pathways for surface water run off  Localised areas of ponding in low lying areas.  Gullies and drains	There is historic evidence to support pathways  FMfSW 1 in 200 yr (deep)

#### Summary of Location-specific Actions

Area of benefit	Location of action	Action	Action owner	Priority
Dartford North West (A)	Dartford North West	Complete a study to investigate the condition of gullies and drains.	KCC	Short term
Dartford North West (A)	Dartford North West	Consider use of green infrastructure or localised measures (kerbing, minor bunding, signage, fringe interception etc) to improve management of surface water during intense rainfall	KCC, DBC, TW	Short term
Dartford North West (A)	Priory Road	Investigate the possibility of increasing the size of the outfall draining the road to the River Darent	KCC	Quick Win
Dartford Central (B)	Spring Vale	KCC Highways to replace pumping station as part of this year's (2012) programmed works. KCC Highways to monitor the situation	KCC	Long Term
Dartford Central (B)	Princes Road (B & C)	Complete a study to investigate the condition of gullies and drains.	KCC	Short term
Dartford South/ Hawley Road (C)	Hawley Road	1. Complete a study to investigate the condition of gullies and drains. 2. Investigate the possibility of reinstating the outfall draining the road to the River Darent	KCC	Quick Win

Dartford South/ Hawley Road (C)	Norman Road	Investigate the method of surface water drainage on this road.	KCC, TW	Long Term
Dartford South/ Hawley Road (C)	Green Street Green Road, Princes Street, Dartford	Investigate the state of the soakaway and depending on the outcome of the study to replace or improve the existing soakaway.	KCC	Medium term
Dartford South/ Hawley Road (C)	Milestone Road	Investigate the state of the soakaway and depending on the outcome of the study to replace or improve the existing soakaway.	KCC	Medium term
Dartford South/ Hawley Road (C)	Park Road, Dartford	KCC to review the priority of scheme to increase carrier pipe.	KCC	Quick Win
Dartford South East (D)	Watling Street	Investigate the efficiency of the existing soakaways/ drainage system with a view to improving or replacing	KCC	Short term
Stone (E)	Stone Recreation Ground,	KCC Highways to monitor soakaways and flooding situation.	KCC	Long Term
Swanscombe (G)	Craylands Lane	<ol style="list-style-type: none"> <li>1. Investigate the method of surface water drainage on this road, i.e. check records to assess where the surface water is draining to.</li> <li>2. Install green infrastructure or localised measures (kerbing, minor bunding, signage etc) to improve management of surface water during intense rainfall.</li> </ol>	KCC, DBC, SW	Short term
Swanscombe (G)	Manor Way	KCC Highways, has negotiated that a new development at Manor Way is required to upgrade the existing drainage system via a Section 278 Agreement	KCC	Long term

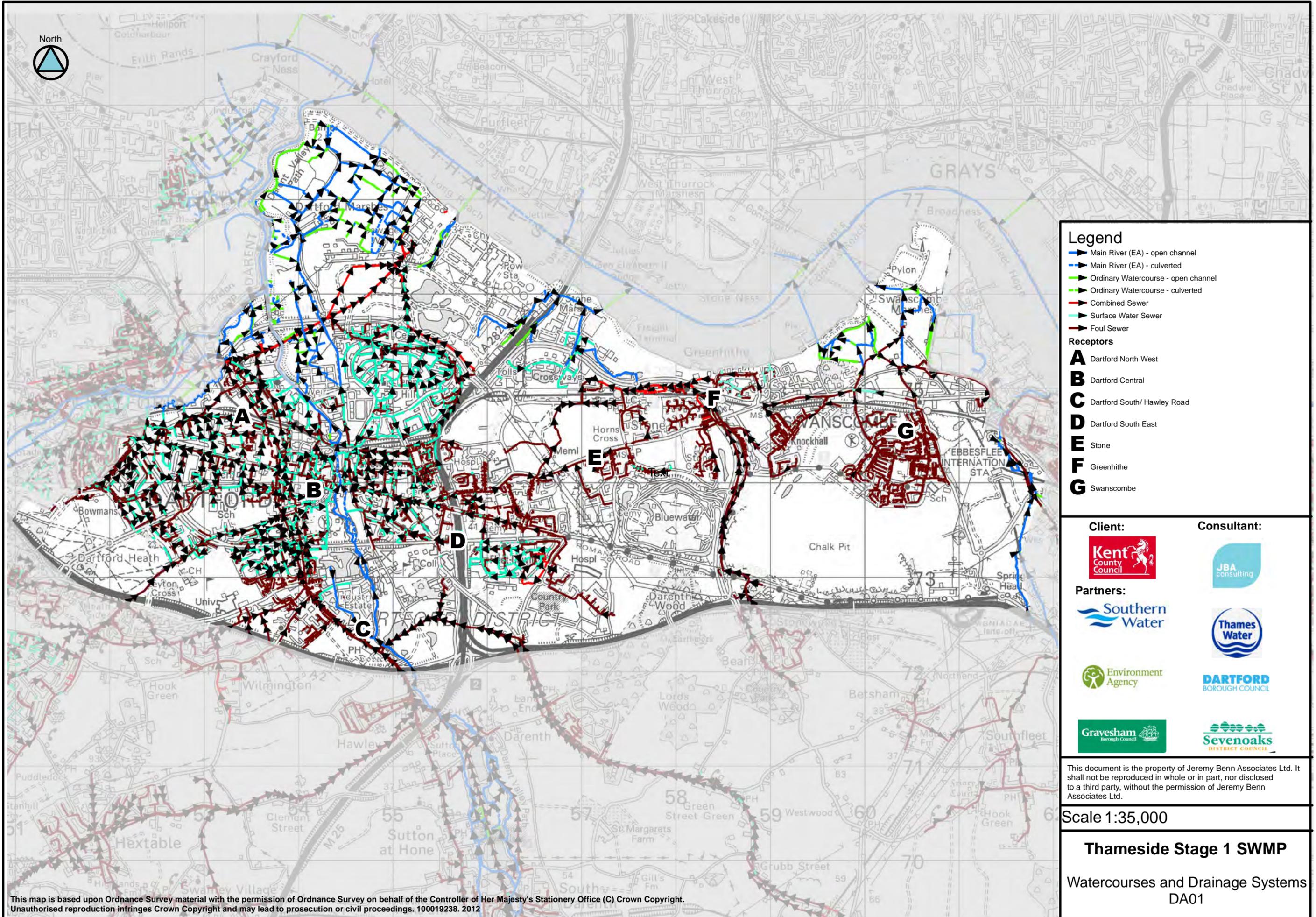
Swanscombe (G)

Southfleet Road

Investigate the method of surface water drainage on this road, i.e. check records to assess where the surface water is draining to, i.e. foul sewer/ combined sewer

KCC

Short term



**Legend**

- ▶ Main River (EA) - open channel
- ▶ Main River (EA) - culverted
- ▶ Ordinary Watercourse - open channel
- ▶ Ordinary Watercourse - culverted
- ▶ Combined Sewer
- ▶ Surface Water Sewer
- ▶ Foul Sewer

**Receptors**

- A** Dartford North West
- B** Dartford Central
- C** Dartford South/ Hawley Road
- D** Dartford South East
- E** Stone
- F** Greenhithe
- G** Swanscombe

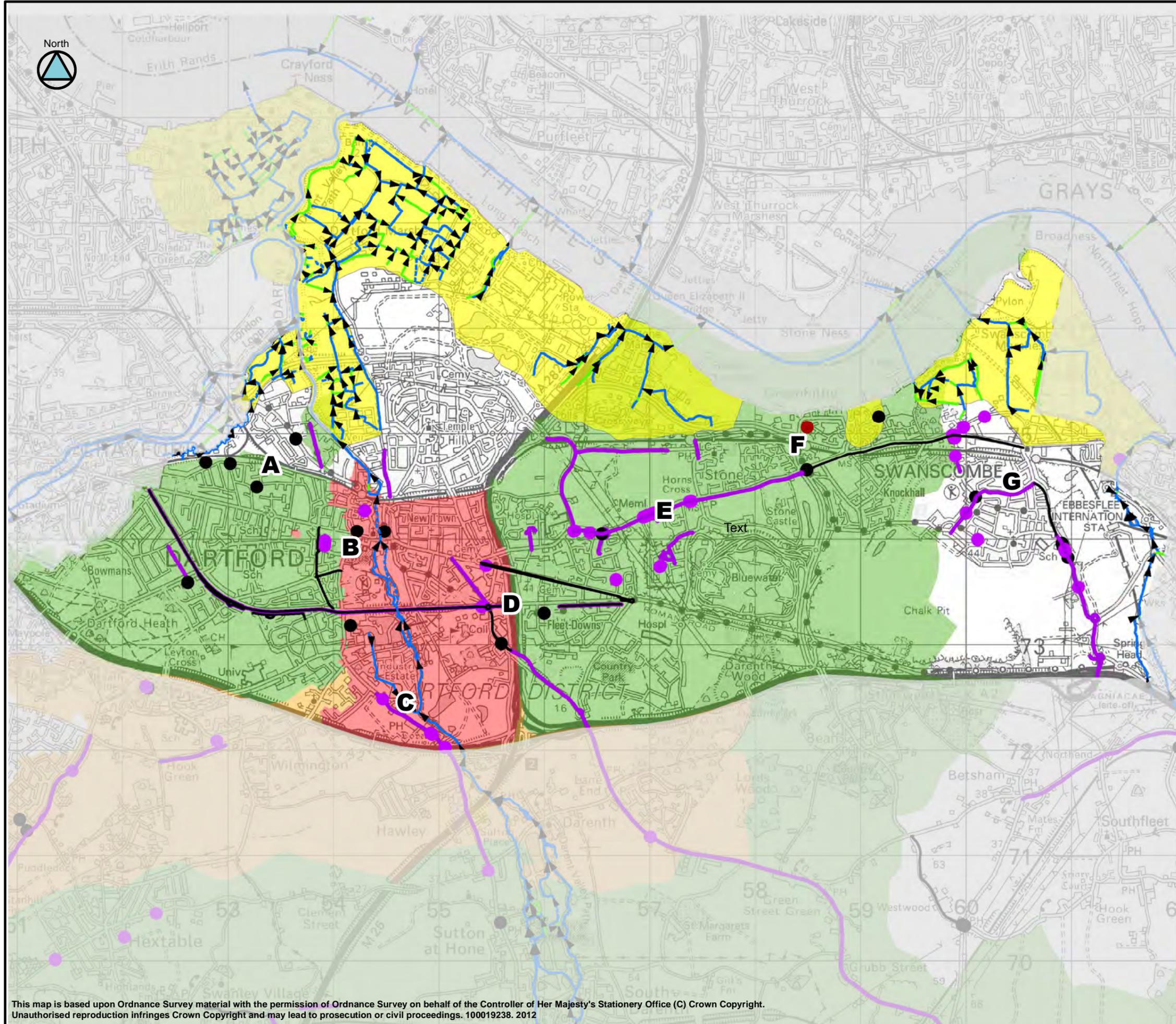
<b>Client:</b>	<b>Consultant:</b>
<b>Partners:</b>	

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Scale 1:35,000

**Thameside Stage 1 SWMP**  
 Watercourses and Drainage Systems  
 DA01

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### Legend

- Main River (EA) - open channel
- Main River (EA) - culverted
- Ordinary Watercourse - open channel
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- A** Dartford North West
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**Historic flooding (other RMAs)\***

- Other/Unknown
- Fluvial
- Groundwater
- Combined
- Surface Water
- Sewer
- Tidal

\* Where an entire road has been highlighted in the historic layer; this does not mean that all the road has flooded in the past but rather no specific location was identified in the records received.

**Sewer Flooding Incidents (Thames Water)\*\***

**Number of flood occurrences per postcode area**

- 1 - 3
- 4 - 6
- 7 - 8+

\*\* Polygons only represent the postcode area and not the flood extent

**Client:**

**Consultant:**

**Partners:**

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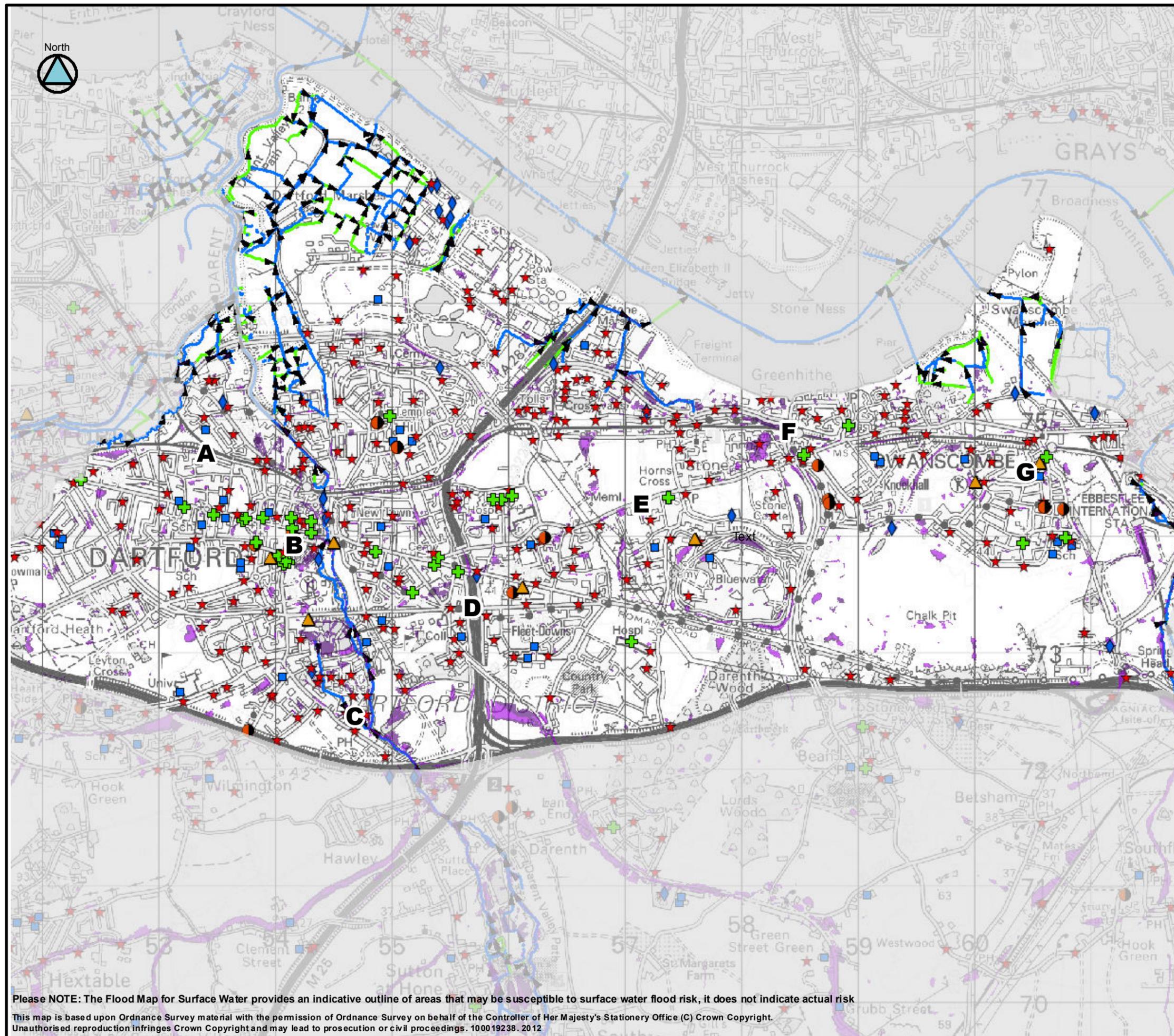
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**Thameside Stage 1 SWMP**

Historical Flooding  
DA01

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### Legend

- Main River (EA) - open channel
- Main River (EA) - culverted
- Ordinary Watercourse - open channel
- Ordinary Watercourse - culverted
- Education
- Healthcare
- Emergency Services
- Nursing, Retirement Homes and Hospices
- Water Utilities
- Electricity, Gas and Communications

#### Receptors

- A** Dartford North West
- B** Dartford Central
- C** Dartford South/ Hawley Road
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- E** Stone
- F** Greenhithe
- G** Swanscombe

**FMfSW 1 in 30yr AEP**

- > 0.3m deep

**FMfSW 1 in 200yr AEP**

- > 0.3m deep

<b>Client:</b>	<b>Consultant:</b>
<b>Partners:</b>	

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**Scale 1:32,000**

**Thameside Stage 1 SWMP**

Surface Water and Critical Infrastructure  
DA01

Please NOTE: The Flood Map for Surface Water provides an indicative outline of areas that may be susceptible to surface water flood risk, it does not indicate actual risk. 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 (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. 100019238. 2012