

B Detailed Summary Sheets and Mapping

B.1 DA01 Dartford Town

Thameside Stage 1 SWMP : Summary and Actions

Drainage Area 01

Area overview

Area (km²) 35

| 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 |
|---------------------------------------|--|---|-------------------|--|
| A: Dartford North West | 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: Dartford Central | 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) |
| C: Dartford South/ Hawley Road | 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) |
| D: Dartford South East | 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) |
| E: Stone | 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) |

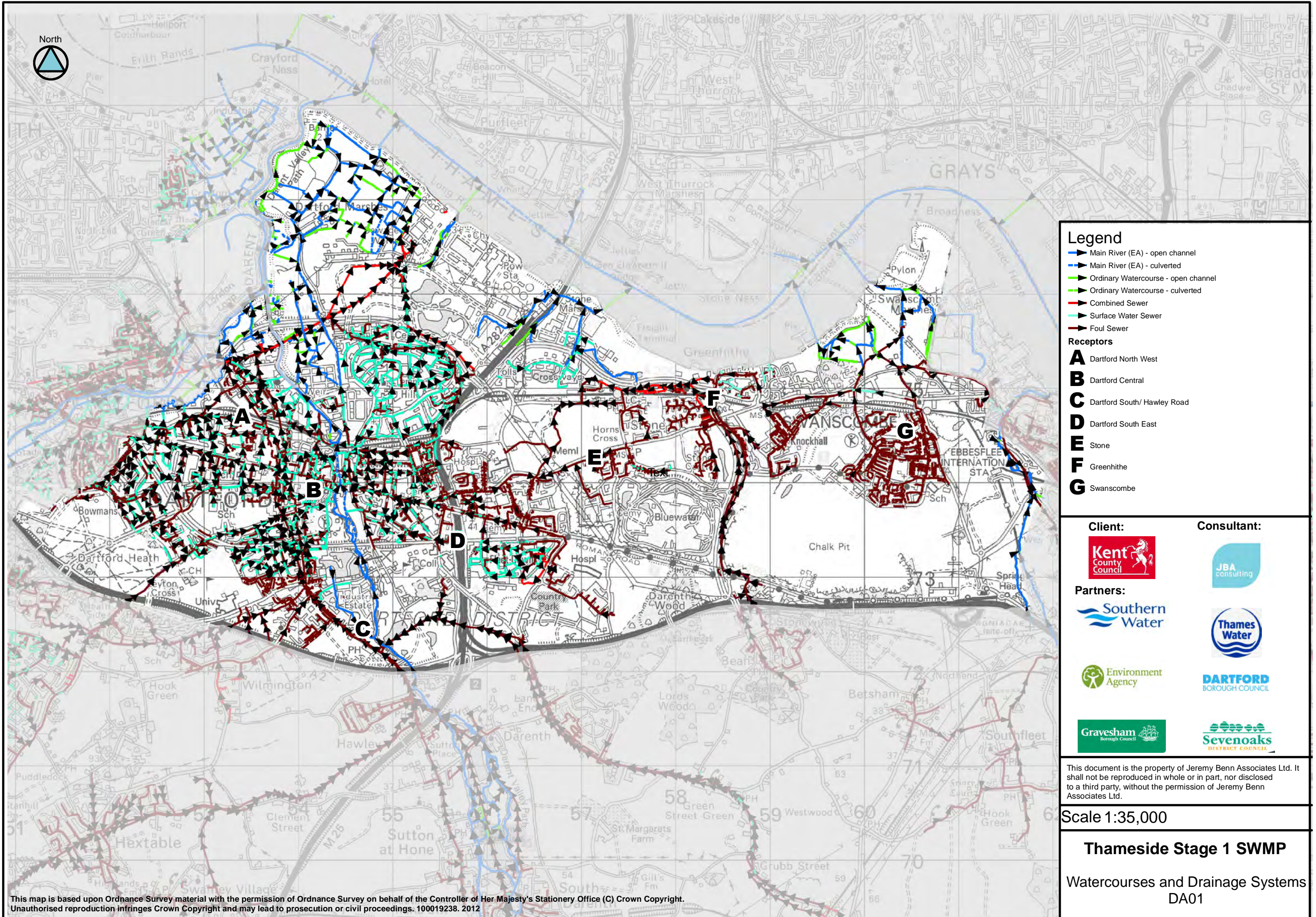
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|----------------------|---|--|--|
| F: Greenhithe | Heavy rainfall resulting in surface water run off and overloaded sewers | Thames Water sewers Southern Water Sewers Surface water flows along Crossways Boulevard in a north west direction Ponding 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) |
| G: Swanscombe | 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 | <p>1. Investigate the method of surface water drainage on this road, i.e. check records to assess where the surface water is draining to.</p> <p>2. Install green infrastructure or localised measures (kerbing, minor bunding, signage etc) to improve management of surface water during intense rainfall.</p> | 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

Client:



Consultant:



Partners:

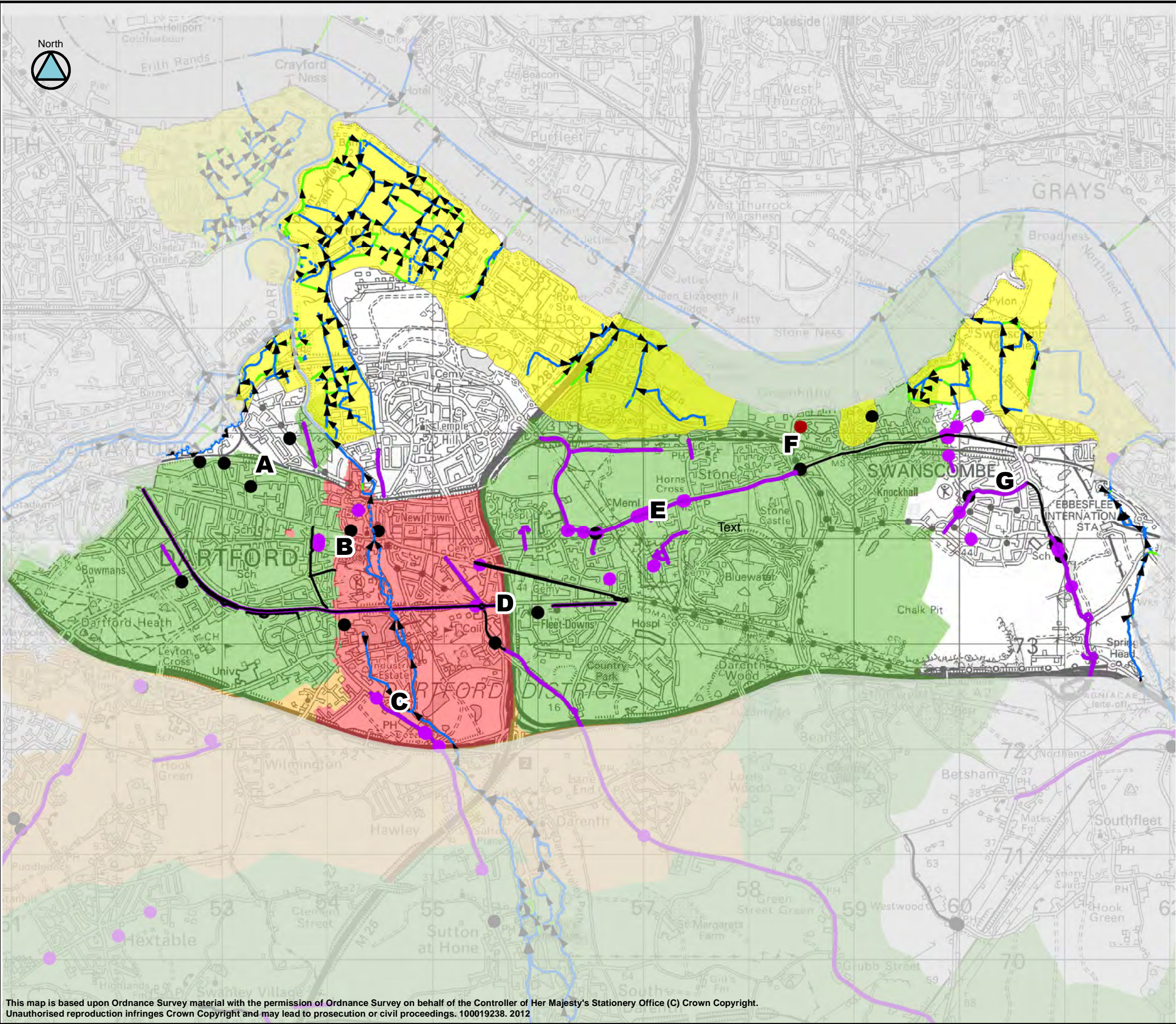


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Thameside Stage 1 SWMP

Watercourses and Drainage Systems
DA01



Legend

- Main River (EA) - open channel
- Main River (EA) - culverted
- Ordinary Watercourse - open channel
- Ordinary Watercourse - culverted

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

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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Historical Flooding
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