B.2 DA02 Pedlinge, Saltwood, Horn Street, Newington and Peene Village

Folkestone and Hythe Stage 1 SWMP : Summary and Actions
Drainage Area 02

Area overview

Area (km^2)	11.9

Drainage assets/systems	Type	Known Issues/problems	Responsibility
Brockhill Stream	Main River	There are issues in the upper reaches where capacity is exceeded.	Environment Agency
Saltwood and Mill Lease Stream	Main River	No recorded incidents of flooding from fluvial sources on the Saltwood and Mill Lease Stream within this drainage area.	Environment Agency
Seabrook Stream	Main River	There are known problems in the upper reaches of the Seabrook Stream in Newington.	Environment Agency
Drains	Ordinary Watercourse	No known problems along drains	Kent County Council
Sewer network	Sewers (combined, foul and surface water)	Known problems of surcharging at locations across the drainage area.	Southern Water

Flood risk

Receptor	Source	Pathway	Historic Evidence
A: Peene	Heavy rainfall resulting in overloaded sewers	Southern Water sewers	There is historic evidence of flooding from Southern Water due to overloaded sewers.
B: Newington	Heavy rainfall resulting in overloaded sewers and surface water flooding	Southern Water sewers Flow paths for surface water are from north to south following the natural topography of the Seabrook Stream, and historical records suggest the Newington Road was one of the main pathways.	There have been incidents of both surface water and sewer flooding in the past.
C: Frogholt	Restricted grill on highway	Historical records suggest the Ashford Road was one of the main pathways during these surface water events	There have been incidents of surface water flooding in the past.
D: Horn Street	Heavy rainfall resulting in overloaded sewers and surface water flooding. Onc sewer incident (foul) caused by suspected blockage.	Southern Water sewers Flow paths for surface water were from runoff from surrounding area.	There have been incidents of both surface water and sewer flooding in the past. Note that a new FSA was installed in 2000 (assumed in response to surface water flooding)

E: Sandling Lane, Saltwood	Heavy rainfall	Highway drain along Sandling Lane	There have been incidents of surface water flooding in the past.
F: Pedlinge	Heavy rainfall resulting in overtopping from local drainage network	Local drains	There have been incidents of fluvial flooding in the past.
G: Brockhill College & Electricity Sub Station	Heavy rainfall	Ponding in topographic depressions	There have been no incidences of flood risk, highlighted through deep FMfSW

Summary of Location-specific Actions

Area of benefit	Location of action	Action	Action owner	Priority
Newington	Newington	1. Commission modelling study to better understand risk within Newington 2. Maintain culvert inlets of both Main River (Seabrook Stream) and Ordinary Watercourse 3. Feasibility options could include flood storage, culvert resizing and/or diversion or flood bunds. There may also be opportunities for deculverting the Ordinary Watercourse entering Newington from the north west and exploring the potential for open storage and river restoration. However, the scale of problem within Newington is unlikely to result in positive cost benefit for costly works.	EA & KCC	1 to 3 = Long Term

Frogholt	Ashford Road, Frogholt	Ensure maintenance of highway grills	KCC	Quick Win
Sandling Road Saltwood	Sandling Road Saltwood	Consider use of green infrastructure or localised measures (kerbing, minor bunding, signage etc) to improve management of surface water during intense rainfall.	KCC	Long Term

North

POSTLING CP

NEWINGTON CP

SALTWOOD CP

HYTHE

A

B

C

D

E

F

G

Legend

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

Receptors

A	Peene
B	Newington
C	Frogholt
D	Horn Street
E	Sandling Road, Saltwood
F	Pedlinge
G	Brockhill College & Electricity Sub Station

Client:

Kent County Council

Partners:

Southern Water

Environment Agency

Folkestone Hythe & Romney Marsh Shepway District Council

Consultant:

JBA consulting

Scale 1:21,000

Folkestone and Hythe SWMP Stage 1

Watercourses and Drainage Systems

DA02

North

POSTLING CP

NEWINGTON CP

SALTWOOD CP

HYTHE CP

HYTHE

A

B

C

D

E

F

G

Legend

Receptors

- **A** Peene
- **B** Newington
- **C** Frogholt
- **D** Horn Street
- **E** Sandling Road, Saltwood
- **F** Pedlinge
- **G** Brockhill College & Electricity Sub Station

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

Historic flooding (other RMAs)

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

Sewer flooding incidents (Southern Water)*

Number of flood occurences per postcode area

- 1 - 5
- 6 - 15
- >16

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

Client: Kent County Council

Partners: Southern Water, Environment Agency

Consultant: JBA consulting

Folkestone Hythe & Romney Marsh Shepway District Council www.shepway.gov.uk

Scale 1:21,000

Folkestone and Hythe SWMP Stage 1

Historic Flooding

DA02

North

Legend

- Main River (EA) - open channel
- Main River (EA) - culverted
- Ordinary Watercourse - open channel
- Ordinary Watercourse - culverted
- Education (Nursery, Primary School, Higher Education)
- Hospital
- Emergency Services (Ambulance, Fire and Police Stations)
- Nursing and Retirement Homes
- Water Utilities
- Electricity and Gas / Communications
- Military Barracks

Cleared gullies

- (based on data received from SDC)

Receptors

- **A** Peene
- **B** Newington
- **C** Frogholt
- **D** Horn Street
- **E** Sandling Road, Saltwood
- **F** Pedlinge
- **G** Brockhill College & Electricity Sub Station

FMfSW 1 in 30yr AEP

- > 0.3m deep

FMfSW 1 in 200yr AEP

- > 0.3m deep

Client: Kent County Council

Partners: Southern Water; Environment Agency

Consultant: JBA consulting; Folkestone Hythe & Romney Marsh Shepway District Council

Scale 1:21,000

Folkestone and Hythe SWMP Stage 1

Surface Water and Critical Infrastructure
DA02