








Appendix D – Summary of Intermediate Risk Assessment (Hotspots Storyboard)

Swale Surface Water Management Plan – Hotspots Storyboard

Notes:

1. Each Hotspot reviewed has been taken from a combination of individual stakeholder meetings, historic and EA FMfSW datasets.
2. Each Hotspot area has been amended marginally to conform to the higher level of detail required for this analysis.
3. All historic flooding incidents comprise of a combination of SWMP anecdotal data which has not been fully filtered so should only be used as a guide.
4. A brief economic assessment has been undertaken for each hotspot area by determining how many address points fall within a 5m buffered zone of the shallow 1 in 30yr EA FMfSW.

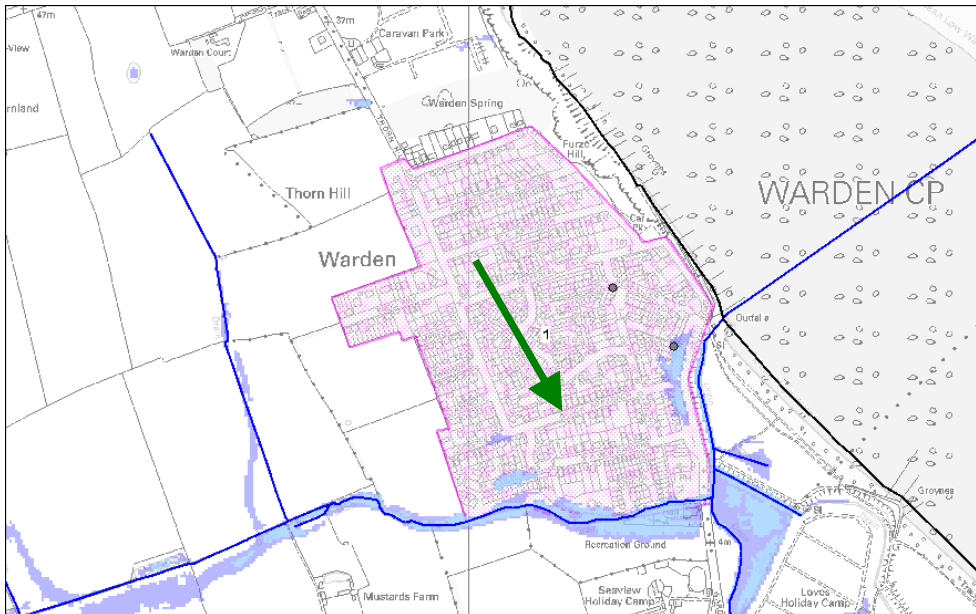
LEGEND for Flooding Data Figures:

-  EA Main River
-  Hotspots
-  EA 1 in 30yr FMfSW (0.1m - 0.3m)
-  EA 1 in 30yr FMfSW (>0.3m)
-  Historic Flooding
-  Stakeholder Information
-  General Flow Direction

Abbreviations:

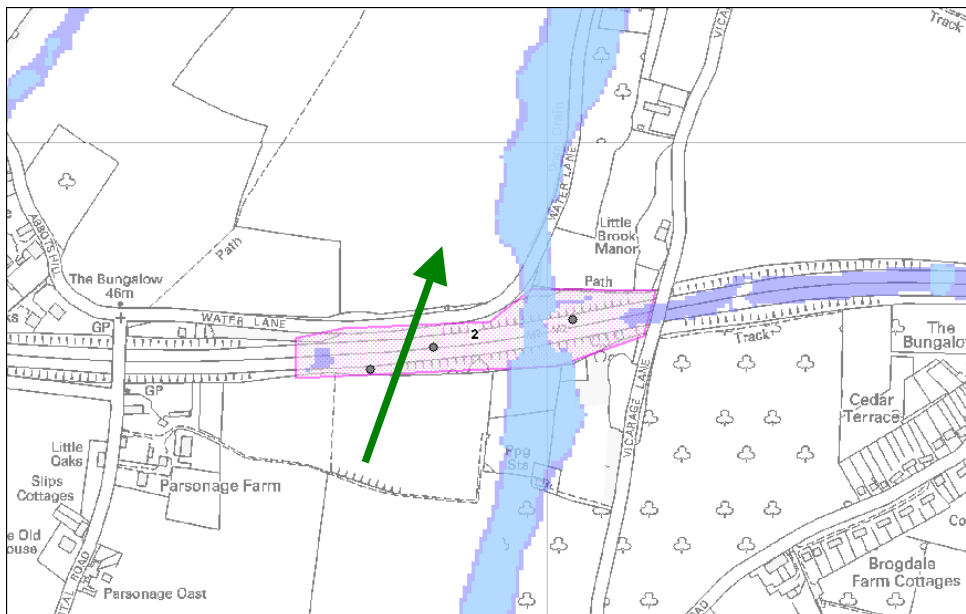
KCC – Kent County Council
SBC – Swale Borough Council
SW – Southern Water
EA – Environment Agency
HA – Highways Agency

Hotspot ID	Area	Stake-holder
01	Warden, Isle of Sheppey	Swale Borough Council

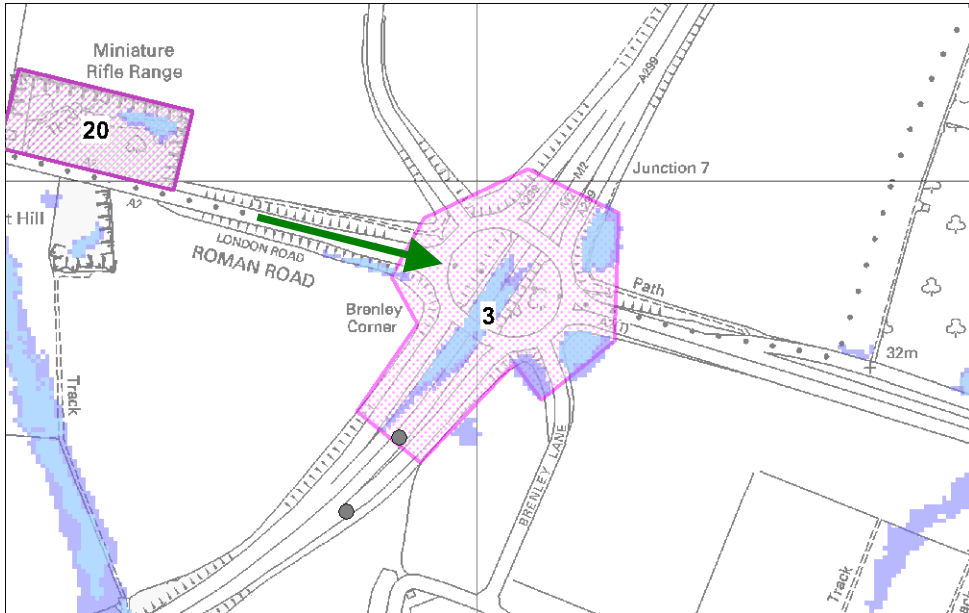


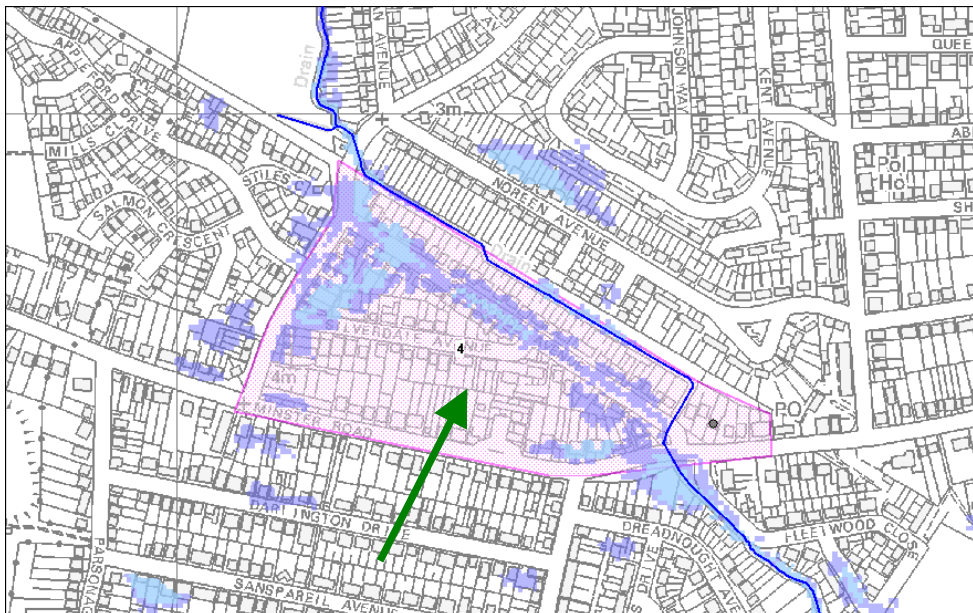
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.34	<p>Actual Flooding: Overloaded sewers on Waterside View and Jetty Road. Groundwater flood risk.</p> <p>Modelled Flooding: Flooding of watercourse to the rear of Sea View Gardens and properties in Jetty Road, Sea View Gardens and Leicester Gardens.</p> <p>Stakeholder Info: SW stated there has been failure of the local pumping station in the past, however the pumps have since been refurbished. The tidal flapped gate has been known to be have been blocked and unable to operate effectively. Known groundwater flood risk in the area.</p> <p>Mapped Features: Urban.</p> <p>Main type of Receptors: Residential and Sewage Pumping Station.</p>	Initial Assessment: Risk Identified
Actual Flooding			<p>Source: Sewerage system & Groundwater</p> <p>Pathway: Highway & overland flow</p> <p>Receptors: Residential properties & highway</p>
No. of Flooding Incidents	4		
Occurrence	2004, 2006, 2008		
Source of Data	SW		<p>Recommendation: Maintenance of the tidal outfall required to prevent failure of the flapped gate</p> <p>Possible Options: Maintenance of the tidal outfall required to prevent failure of the flapped gate</p>
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	36		

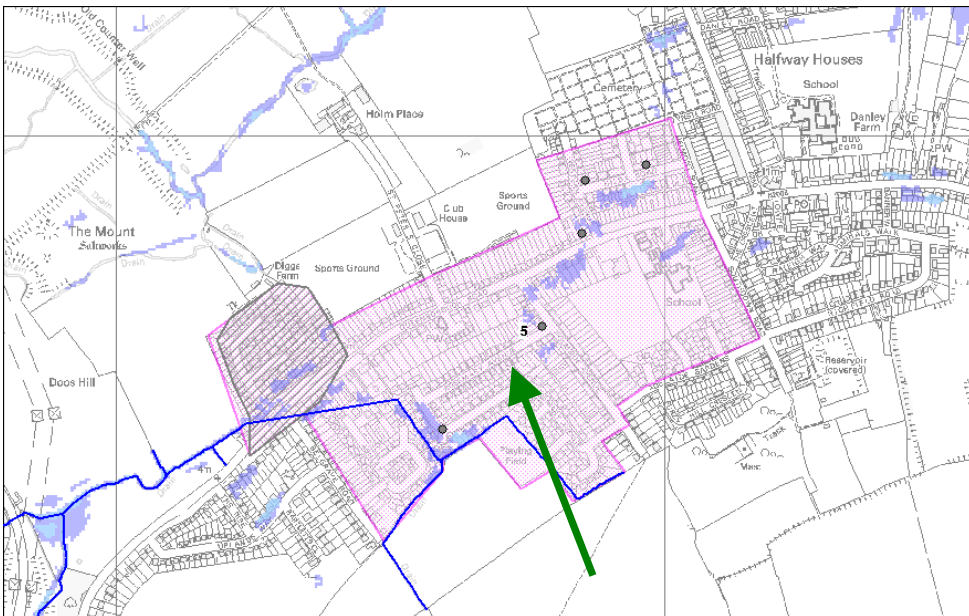
Hotspot ID	Area	Stake-holder
02	M2, near to Painter's Fortsal	Swale Borough Council

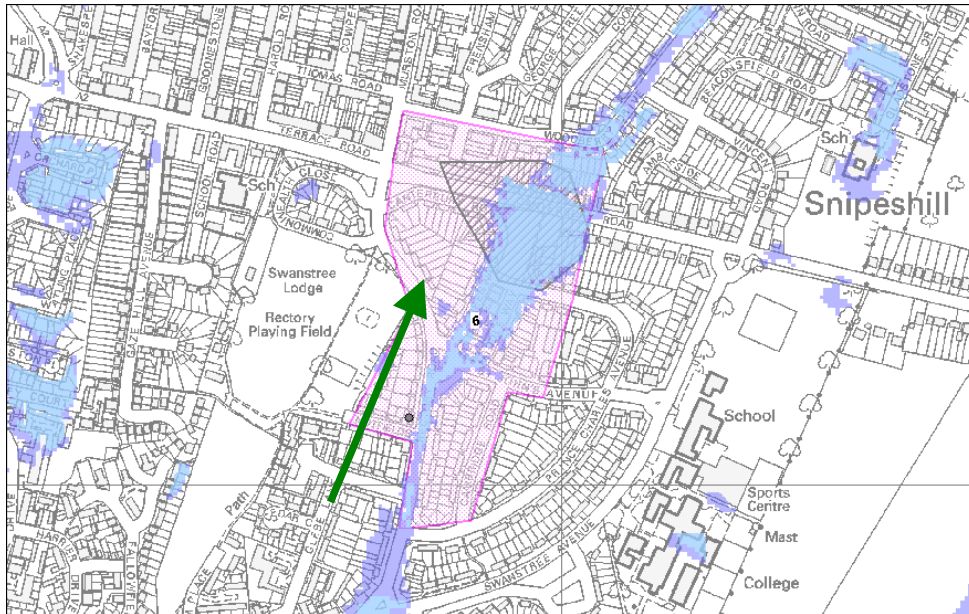


Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.03	Actual Flooding: Flooding incidents along the M2. Modelled Flooding: Flooding across both carriageways of M2. Stakeholder Info: No known flooding issues Mapped Features: Rural and Key Trunk Road. Main type of Receptors: Trunk road.	Initial Assessment: No Significant Risk
Actual Flooding			Source: Surface runoff
No. of Flooding Incidents	3		Pathway: Highway
Occurrence	2006, 2009		Receptors: Highway
Source of Data	HA		Recommendation: No further work required
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	0		

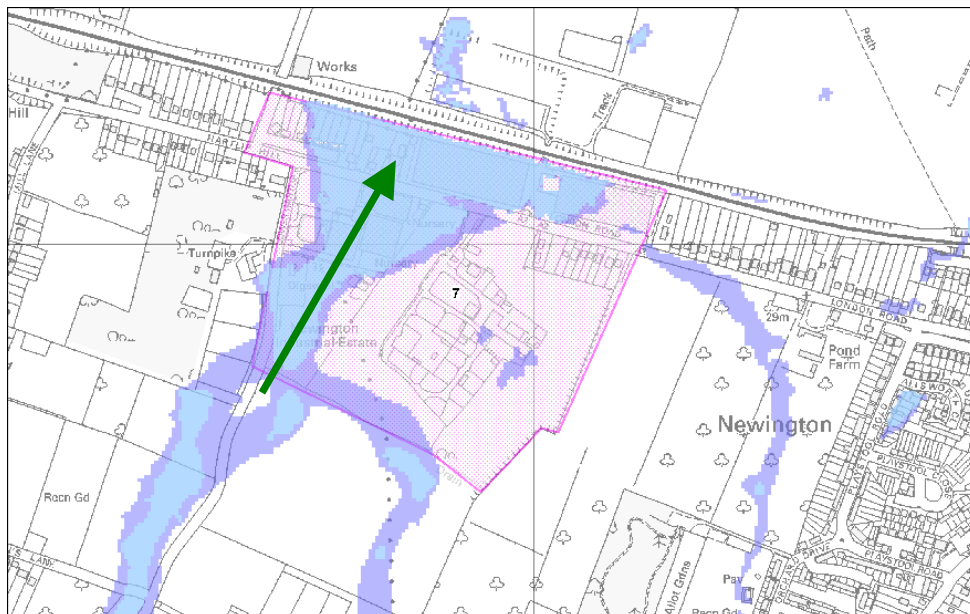
Hotspot ID	Area	Stake-holder	
03	M2 Junction 7	Swale Borough Council	
			
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.05	Actual Flooding: Flooding incidents along the M2. Modelled Flooding: Flooding across both carriageways of M2. Stakeholder Info: No known flooding issues Mapped Features: Rural and Key Trunk Road. Main type of Receptors: Trunk road.	Initial Assessment: No Significant Risk
Actual Flooding			Source: Surface runoff
No. of Flooding Incidents	1		Pathway: Highway
Occurrence	2004		Receptors: Highway
Source of Data	HA		Recommendation: No further work required
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	3		

Hotspot ID	Area	Stake-holder	
04	Minster, Isle of Sheppey	Swale Borough Council	
			
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.08	Actual Flooding: Overloaded sewers on Sunnyside Avenue. General groundwater flood risk. Modelled Flooding: Flooding of properties in Sunnyside Avenue and Scrapsgate Road. Stakeholder Info: No known flooding issues Mapped Features: Urban. Main type of Receptors: Residential.	Initial Assessment: No Significant Risk
Actual Flooding			Source: Sewerage system & Groundwater
No. of Flooding Incidents	1		Pathway: Highway & overland flow
Occurrence	2007		Receptors: Residential properties & highway
Source of Data	SW		Recommendation: No further work required
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	103		

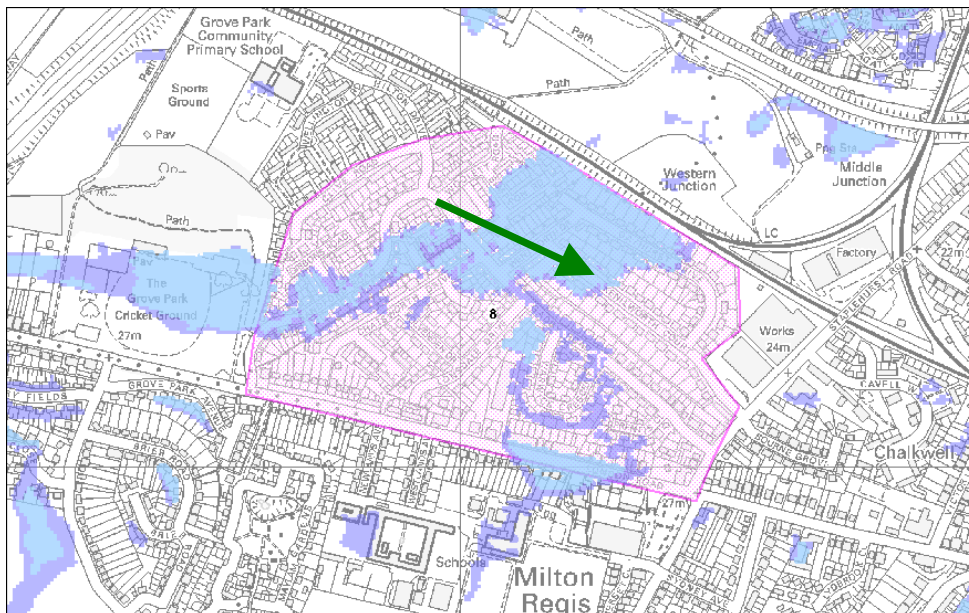
Hotspot ID	Area	Stake-holder															
05	Halfway Houses, Isle of Sheppey	Swale Borough Council															
																	
Hotspot Information		Flooding Data	Conclusion														
<table><tr><td>Hotspot Area (km²)</td><td>0.36</td></tr><tr><td colspan="2">Actual Flooding</td></tr><tr><td>No. of Flooding Incidents</td><td>6</td></tr><tr><td>Occurrence</td><td>2000, 2007, 2008</td></tr><tr><td>Source of Data</td><td>SBC, SW</td></tr><tr><td colspan="2">Predicted Flooding</td></tr><tr><td>No. of buildings within the EA's 1 in 30yr shallow flood extent</td><td>105</td></tr></table>		Hotspot Area (km ²)	0.36	Actual Flooding		No. of Flooding Incidents	6	Occurrence	2000, 2007, 2008	Source of Data	SBC, SW	Predicted Flooding		No. of buildings within the EA's 1 in 30yr shallow flood extent	105	<p>Actual Flooding: Overloaded sewers on Rosemary Avenue & Hilda Rd. Flooding in Sunny Fields Drive. General groundwater flood risk.</p> <p>Modelled Flooding: Flooding of properties in Rosemary Avenue, Hilda Road and Sunny Fields Drive.</p> <p>Stakeholder Info: Low-lying land in Sunnyfields Drive, water runs off from pumps. SW stated the flood risk from the pumping station to the west appears to now have been resolved. Runoff from a surcharging manhole adjacent to cemetery due to 90 degree bend and pipe size reducing results in flooding of the low-lying cemetery. Poor highway drainage in local area with high groundwater levels.</p> <p>Mapped Features: Urban.</p> <p>Main type of Receptors: Ambulance Station, Sewage Pumping Station and Residential.</p>	<p>Initial Assessment: Risk Identified</p> <p>Source: Sewerage system & Groundwater</p> <p>Pathway: Highway & overland flow</p> <p>Receptors: Residential properties & highway</p> <p>Recommendation: Investigate feasibility for improving drainage system and conveyance of the local drainage ditches.</p> <p>Possible Options: Jetting of the system and clearance of local ditches required to improve capacity of the system.</p>
Hotspot Area (km ²)	0.36																
Actual Flooding																	
No. of Flooding Incidents	6																
Occurrence	2000, 2007, 2008																
Source of Data	SBC, SW																
Predicted Flooding																	
No. of buildings within the EA's 1 in 30yr shallow flood extent	105																

Hotspot ID	Area	Stake-holder															
06	Snipeshill	Swale Borough Council															
																	
Hotspot Information		Flooding Data	Conclusion														
<table><tr><td>Hotspot Area (km²)</td><td>0.10</td></tr><tr><td colspan="2">Actual Flooding</td></tr><tr><td>No. of Flooding Incidents</td><td>2</td></tr><tr><td>Occurrence</td><td>Frequently</td></tr><tr><td>Source of Data</td><td>SW</td></tr><tr><td colspan="2">Predicted Flooding</td></tr><tr><td>No. of buildings within the EA's 1 in 30yr shallow flood extent</td><td>97</td></tr></table>		Hotspot Area (km ²)	0.10	Actual Flooding		No. of Flooding Incidents	2	Occurrence	Frequently	Source of Data	SW	Predicted Flooding		No. of buildings within the EA's 1 in 30yr shallow flood extent	97	<p>Actual Flooding: Flooding incident in Rectory Road and Canterbury Road.</p> <p>Modelled Flooding: Flooding of properties in Rectory Road, Greenways, Middle Way and Canterbury Road.</p> <p>Stakeholder Info: Flooding on Canterbury Road, this is caused by a dip in the road resulting in a run off from the highway. Two soakaways draining the highway located immediately north of Canterbury Road flood regularly as the ground is unable to accept runoff due to high groundwater levels. An existing scheme comprising of three offline storage pipes for highway runoff are believed to be highway structures and are likely to be heavily silted due to lack of maintenance.</p> <p>Mapped Features: Urban.</p> <p>Main type of Receptors: Residential.</p>	<p>Initial Assessment: Risk Identified</p> <p>Source: Surface runoff & drainage system</p> <p>Pathway: Highway & overland flow</p> <p>Receptors: Residential properties & highway</p> <p>Recommendation: Review effectiveness of existing soakaways.</p> <p>Existing Schemes: Existing offline storage pipes located in open space to store runoff from highway.</p> <p>Possible Options: Improved maintenance regime of storage pipes. Above ground attenuation ponds in open ground.</p>
Hotspot Area (km ²)	0.10																
Actual Flooding																	
No. of Flooding Incidents	2																
Occurrence	Frequently																
Source of Data	SW																
Predicted Flooding																	
No. of buildings within the EA's 1 in 30yr shallow flood extent	97																

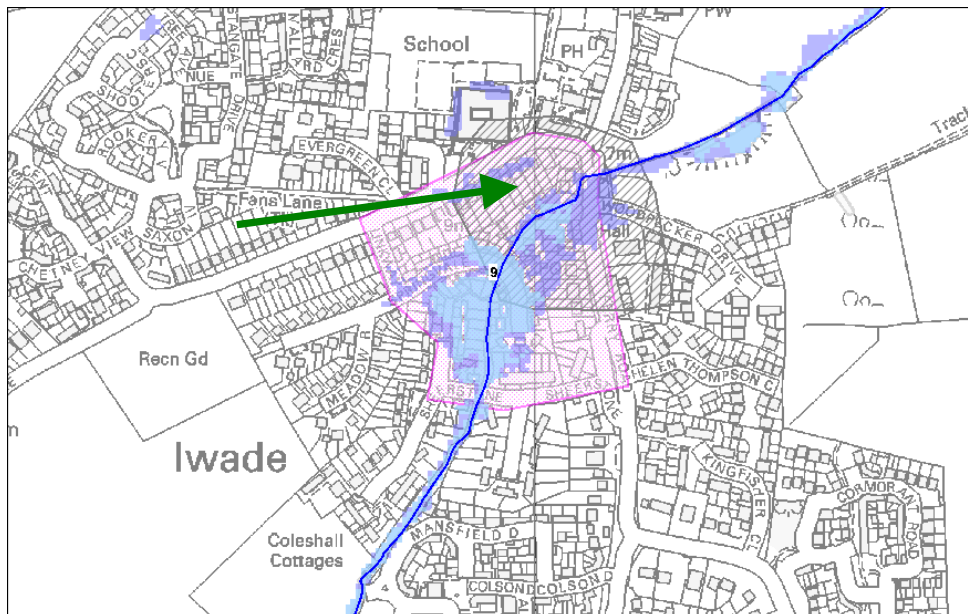
Hotspot ID	Area	Stake-holder
07	Newington	Swale Borough Council



Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.22	Actual Flooding: None recorded. Modelled Flooding: Flooding of properties and industrial estate along London Road and Lower Hartlip Road. Stakeholder Info: No known flooding issues Mapped Features: Rural and Railway Line. Main type of Receptors: Residential and Industrial Estate.	Initial Assessment: No Significant Risk
Actual Flooding			Source: Surface runoff
No. of Flooding Incidents	0		Pathway: Overland flow
Occurrence			Receptors: Residential properties & commercial premises
Source of Data			Recommendation: No further work required
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	38		

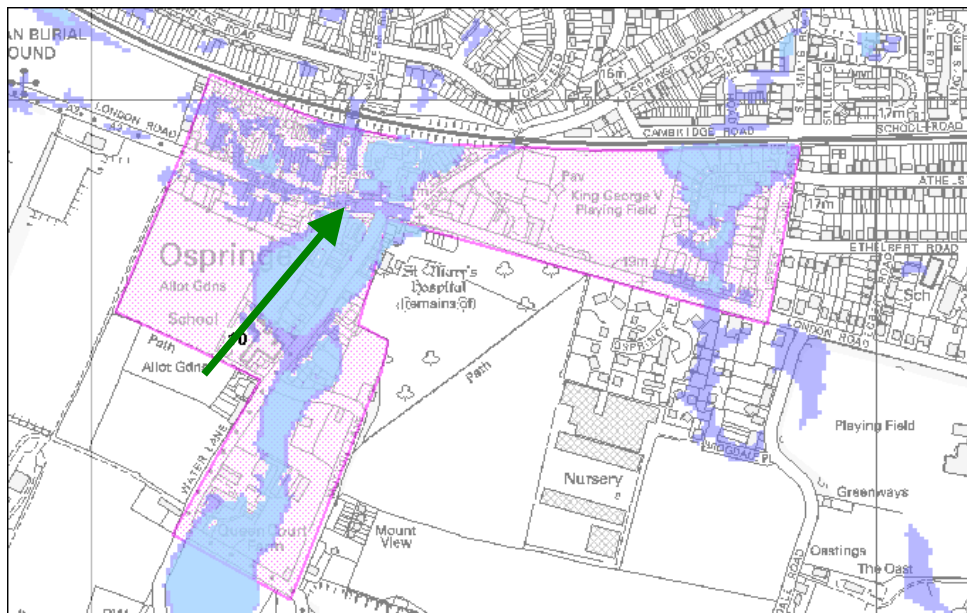
Hotspot ID	Area	Stake-holder															
08	Milton Regis	Swale Borough Council															
																	
Hotspot Information		Flooding Data	Conclusion														
<table><tr><td>Hotspot Area (km²)</td><td>0.28</td></tr><tr><td colspan="2">Actual Flooding</td></tr><tr><td>No. of Flooding Incidents</td><td>0</td></tr><tr><td>Occurrence</td><td></td></tr><tr><td>Source of Data</td><td></td></tr><tr><td colspan="2">Predicted Flooding</td></tr><tr><td>No. of buildings within the EA's 1 in 30yr shallow flood extent</td><td>388</td></tr></table>		Hotspot Area (km ²)	0.28	Actual Flooding		No. of Flooding Incidents	0	Occurrence		Source of Data		Predicted Flooding		No. of buildings within the EA's 1 in 30yr shallow flood extent	388	<p>Actual Flooding: None recorded.</p> <p>Modelled Flooding: Flooding of properties within the vicinity of Sandford Road, Wentworth Drive and Gadby Road.</p> <p>Stakeholder Info: No known flooding issues</p> <p>Mapped Features: Urban and Railway Line.</p> <p>Main type of Receptors: Residential.</p>	<p>Initial Assessment: No Significant Risk</p> <p>Source: Surface runoff</p> <p>Pathway: Overland flow</p> <p>Receptors: Residential properties</p> <p>Recommendation: No further work required</p>
Hotspot Area (km ²)	0.28																
Actual Flooding																	
No. of Flooding Incidents	0																
Occurrence																	
Source of Data																	
Predicted Flooding																	
No. of buildings within the EA's 1 in 30yr shallow flood extent	388																

Hotspot ID	Area	Stake-holder
09	Iwade	Swale Borough Council



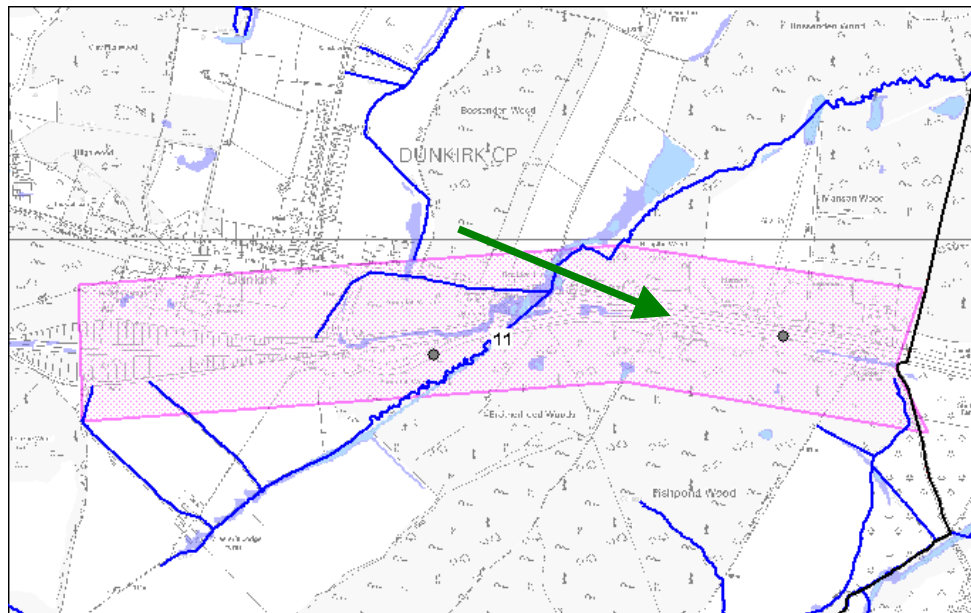
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.05	<p>Actual Flooding: Flooding incidents in Ferry Road (West).</p> <p>Modelled Flooding: Flooding of properties in Springvale, Sheerstone and Ferry Road.</p> <p>Stakeholder Info: Green adjacent to WPS floods, has developed in the last 15 years. MT stated the EA are planning on undertaking fluvial modelling of the EA Main River in this area under the MTP.</p> <p>Mapped Features: Rural.</p> <p>Main type of Receptors: Sewage Pumping Station and Residential.</p>	Initial Assessment: No Significant Risk
Actual Flooding			Source: Watercourse
No. of Flooding Incidents	1		Pathway: Overtopping
Occurrence	Couple of years ago		Receptors: Residential properties
Source of Data	SW		Recommendation: No further work required
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	74		

Hotspot ID	Area	Stake-holder
10	Ospringe	Swale Borough Council

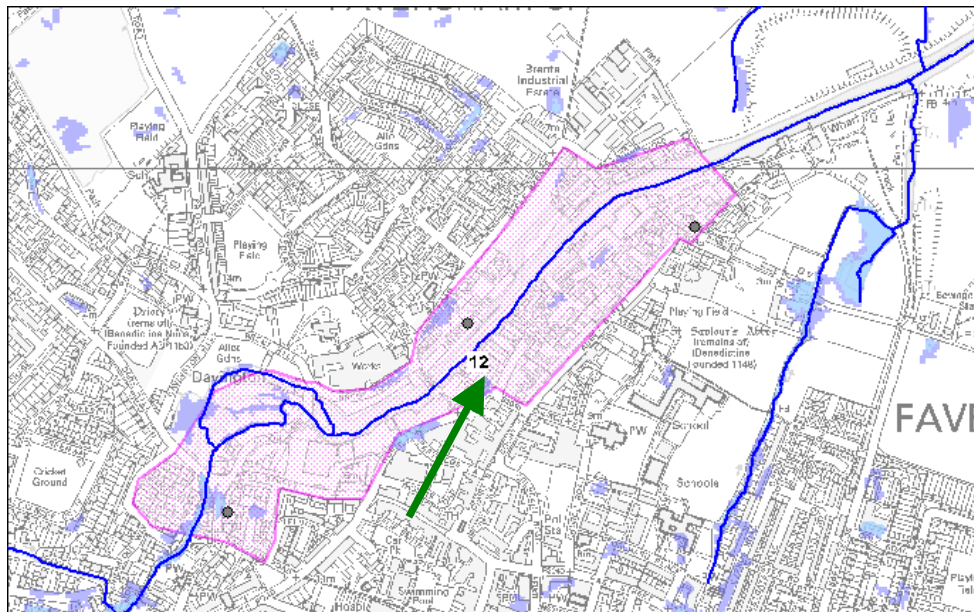


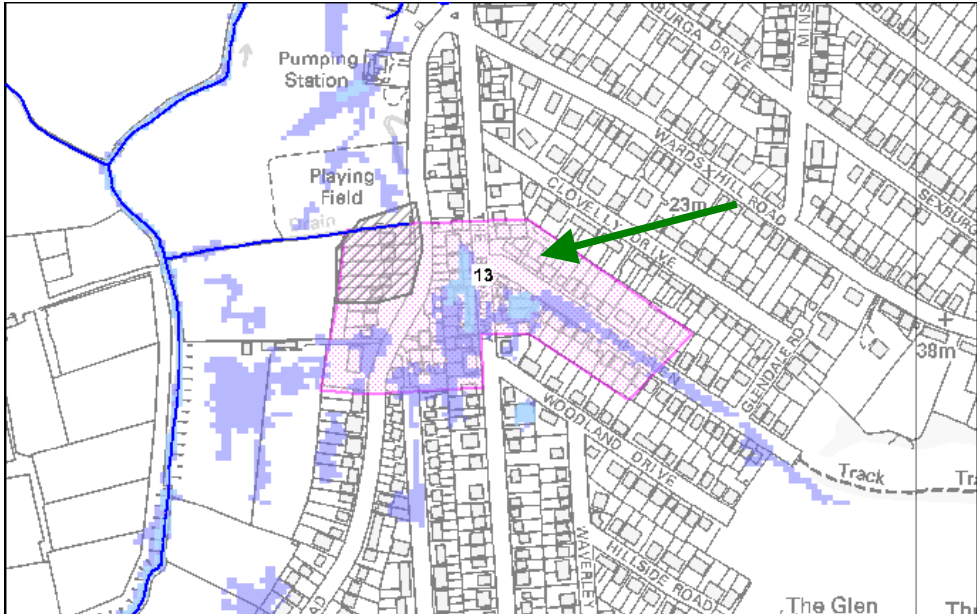
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.22	Actual Flooding: None. Modelled Flooding: Flooding of properties in Ospringe Street, Water Lane and Mount Field. Stakeholder Info: Flood risk in this hotspot is thought to be predominantly fluvial flood risk. Mapped Features: Rural and railway line. Main type of Receptors: Pumping Station, School and Residential.	Initial Assessment: No Significant Risk
Actual Flooding			Source: Surface runoff
No. of Flooding Incidents	0		Pathway: Overland flow
Occurrence			Receptors: Residential properties & school
Source of Data			Recommendation: No further work required
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	279		

Hotspot ID	Area	Stake-holder
11	A2, near to Dunkirk	Swale Borough Council

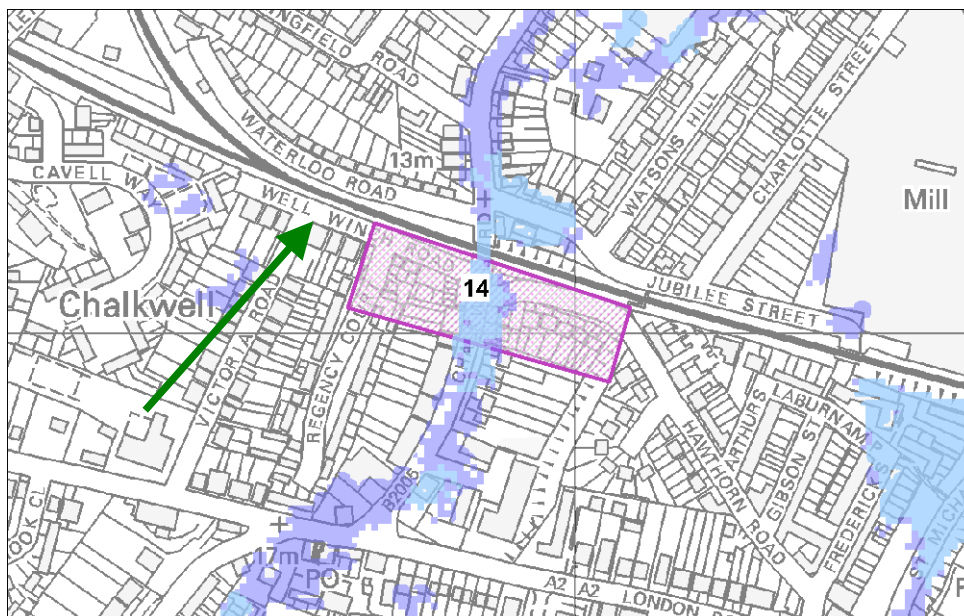


Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.97	Actual Flooding: Flooding incidents along the A2. Modelled Flooding: Flooding across both carriageways of A2. Stakeholder Info: Known highway flooding problem, highway is managed by KCC Highways department. Mapped Features: Rural and Key Trunk Road. Main type of Receptors: Trunk road.	Initial Assessment: Risk Identified
Actual Flooding			Source: Surface runoff & highway drainage Pathway: Highway & overland flow
No. of Flooding Incidents	3		
Occurrence	2008, 2011		Receptors: Highway
Source of Data	HA		
Predicted Flooding			Recommendation: Further investigation required Possible Options: Construction of additional highway gullies to improve conveyance of flows with prioritised gully clearance.
No. of buildings within the EA's 1 in 30yr shallow flood extent	27		

Hotspot ID		Area	Stake-holder														
12		Faversham	Swale Borough Council														
																	
Hotspot Information		Flooding Data	Conclusion														
<table><tr><td>Hotspot Area (km²)</td><td>0.22</td></tr><tr><td colspan="2">Actual Flooding</td></tr><tr><td>No. of Flooding Incidents</td><td>5</td></tr><tr><td>Occurrence</td><td>2006, 2011</td></tr><tr><td>Source of Data</td><td>SW, SBC</td></tr><tr><td colspan="2">Predicted Flooding</td></tr><tr><td>No. of buildings within the EA's 1 in 30yr shallow flood extent</td><td>31</td></tr></table>		Hotspot Area (km ²)	0.22	Actual Flooding		No. of Flooding Incidents	5	Occurrence	2006, 2011	Source of Data	SW, SBC	Predicted Flooding		No. of buildings within the EA's 1 in 30yr shallow flood extent	31	<p>Actual Flooding: Overloaded sewers in Abbey Road and Tanners Street. High tidal conditions in Upper Brents & North Lane.</p> <p>Modelled Flooding: Flooding of properties in Tanners Street and Church Road.</p> <p>Stakeholder Info: There is a tide-locking flood risk which is to be managed by a Southern Water scheme.</p> <p>Mapped Features: Urban and Waterway.</p> <p>Main type of Receptors: Pumping Stations and Residential</p>	<p>Initial Assessment: Risk Identified</p> <p>Source: Tide locked sewerage system</p> <p>Pathway: Highway & overland flow</p> <p>Receptors: Residential properties & highway</p> <p>Recommendation: Further investigation required to confirm if Southern Water's scheme will effectively reduce flood risk.</p> <p>Possible Options: Additional attenuation within the sewerage system.</p>
Hotspot Area (km ²)	0.22																
Actual Flooding																	
No. of Flooding Incidents	5																
Occurrence	2006, 2011																
Source of Data	SW, SBC																
Predicted Flooding																	
No. of buildings within the EA's 1 in 30yr shallow flood extent	31																

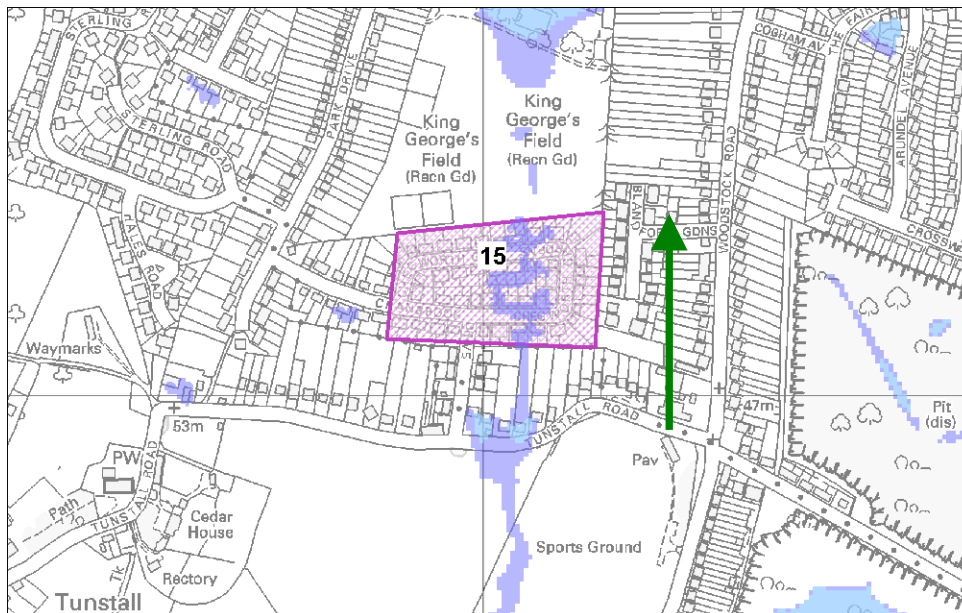
Hotspot ID	Area	Stake-holder															
13	Minster, Isle of Sheppey	Swale Borough Council															
																	
Hotspot Information		Flooding Data	Conclusion														
<table><tr><td>Hotspot Area (km²)</td><td>0.04</td></tr><tr><td colspan="2">Actual Flooding</td></tr><tr><td>No. of Flooding Incidents</td><td>1</td></tr><tr><td>Occurrence</td><td></td></tr><tr><td>Source of Data</td><td>SW</td></tr><tr><td colspan="2">Predicted Flooding</td></tr><tr><td>No. of buildings within the EA's 1 in 30yr shallow flood extent</td><td>30</td></tr></table>		Hotspot Area (km ²)	0.04	Actual Flooding		No. of Flooding Incidents	1	Occurrence		Source of Data	SW	Predicted Flooding		No. of buildings within the EA's 1 in 30yr shallow flood extent	30	<p>Actual Flooding: Poor conveyance and low lying properties in Scrapsgate Road. General groundwater flood risk.</p> <p>Modelled Flooding: Flooding of properties in The Broadway and The Glen.</p> <p>Stakeholder Info: Two properties now have sealed manholes to prevent surcharging manholes and curtilage flooding of properties on Scrapsgate Road. The Road experiences heavy surface water runoff which runs along the camber of the road and floods the low-lying properties. There also appears to be some infiltration into sewers which are thought to be in good condition. The area to the west of the hotspot is very marshy with poor drainage.</p> <p>Mapped Features: Urban.</p> <p>Main type of Receptors: Residential.</p>	<p>Initial Assessment: Risk Identified</p> <p>Source: Sewerage system, surface runoff & groundwater</p> <p>Pathway: Highway & overland flow</p> <p>Receptors: Residential properties & highway</p> <p>Recommendation: Further investigation required</p> <p>Possible Options: Management of overland flow paths and storage of runoff in open areas.</p>
Hotspot Area (km ²)	0.04																
Actual Flooding																	
No. of Flooding Incidents	1																
Occurrence																	
Source of Data	SW																
Predicted Flooding																	
No. of buildings within the EA's 1 in 30yr shallow flood extent	30																

Hotspot ID	Area	Stake-holder
14	Chalkwell	Swale Borough Council



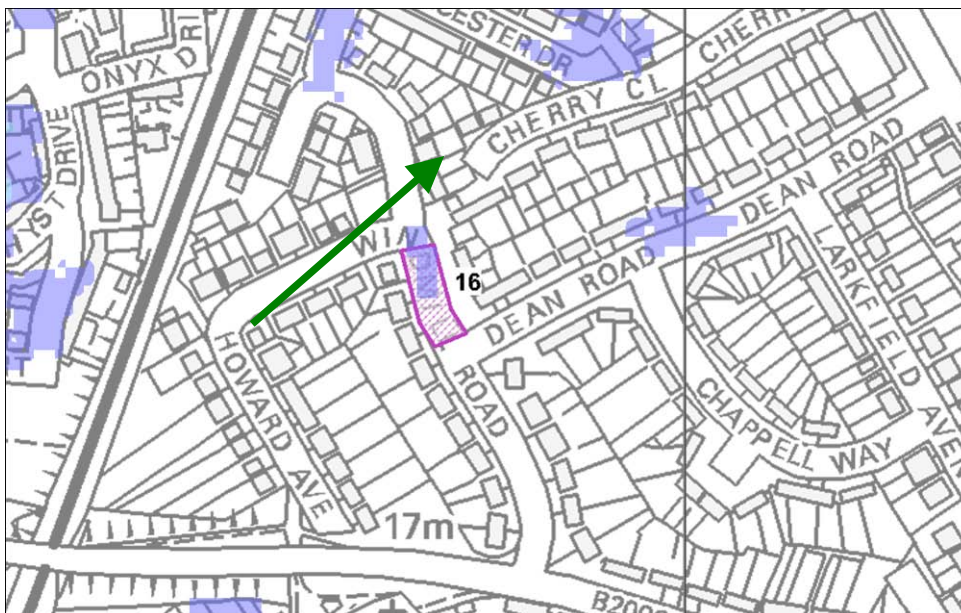
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.01	Actual Flooding: Highway flooding in Chalkwell. Modelled Flooding: Flooding of highway and properties in Chalkwell. Stakeholder Info: SBC stated frequent highway flooding, due to a natural low point. Mapped Features: Urban & Railway Line Main type of Receptors: Residential	Initial Assessment: Risk Identified
Actual Flooding			Source: Surface runoff & highway drainage
No. of Flooding Incidents	1		Pathway: Highway & overland flow
Occurrence	Frequently		Receptors: Residential properties & highway
Source of Data	SBC		Recommendation: Further investigation required Possible Options: Construction of additional highway gullies to improve conveyance of flows with prioritised gully clearance.
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	12		

Hotspot ID	Area	Stake-holder
15	Fernleigh	Swale Borough Council



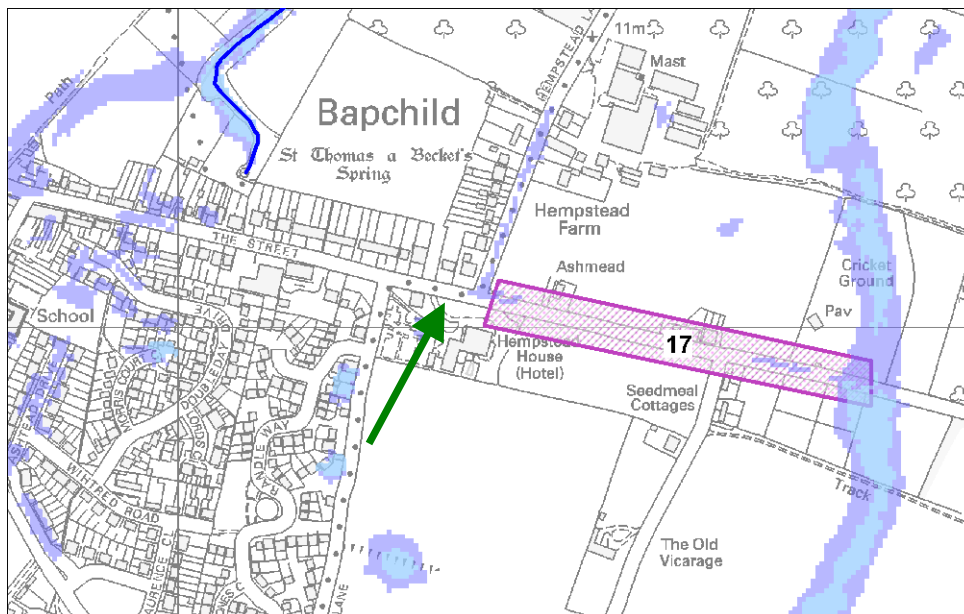
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.03	<p>Actual Flooding: Groundwater problems in Chegworth Gardens</p> <p>Modelled Flooding: Flooding of highway and properties in Chegworth Gardens.</p> <p>Stakeholder Info: SBC stated soakaway is unable to remove flooding sufficiently.</p> <p>Mapped Features: Urban</p> <p>Main type of Receptors: Residential</p>	<p>Initial Assessment: Risk Identified</p>
Actual Flooding			<p>Source: Surface runoff, groundwater & highway drainage</p> <p>Pathway: Highway & overland flow</p> <p>Receptors: Residential properties & highway</p>
No. of Flooding Incidents	1		
Occurrence	Twice a year		
Source of Data	SBC		<p>Recommendation: Further investigation required</p> <p>Existing Schemes:</p> <p>Possible Options: Construction of attenuation tanks/pond and with prioritised gully and soakaway maintenance.</p>
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	24		

Hotspot ID	Area	Stake-holder
16	Milton Regis	Swale Borough Council



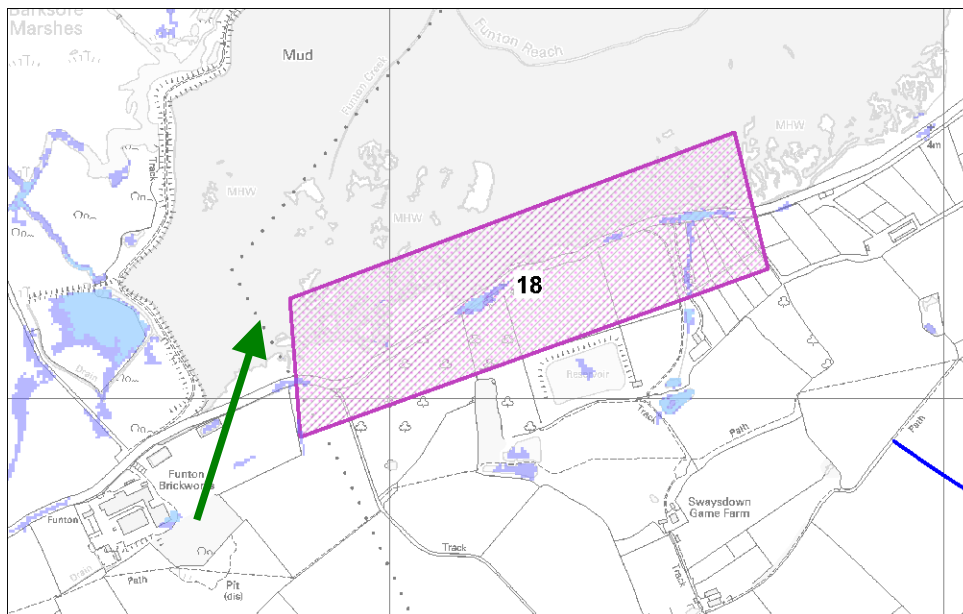
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.001	Actual Flooding: Highway flooding in Windmill Road Modelled Flooding: Highway flooding in Windmill Road Stakeholder Info: SBC stated highway floods 3-4 times a year, however it does not affect any properties. Mapped Features: Urban and Railway Line Main type of Receptors: Residential	Initial Assessment: Risk Identified
Actual Flooding			Source: Highway drainage
No. of Flooding Incidents	1		Pathway: Highway
Occurrence	3-4 times a year		Receptors: Highway
Source of Data	SBC		Recommendation: Investigate the feasibility for prioritised highway gully clearance. Possible Options: Prioritised highway gully clearance.
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	0		

Hotspot ID	Area	Stake-holder
17	Babchild	Swale Borough Council



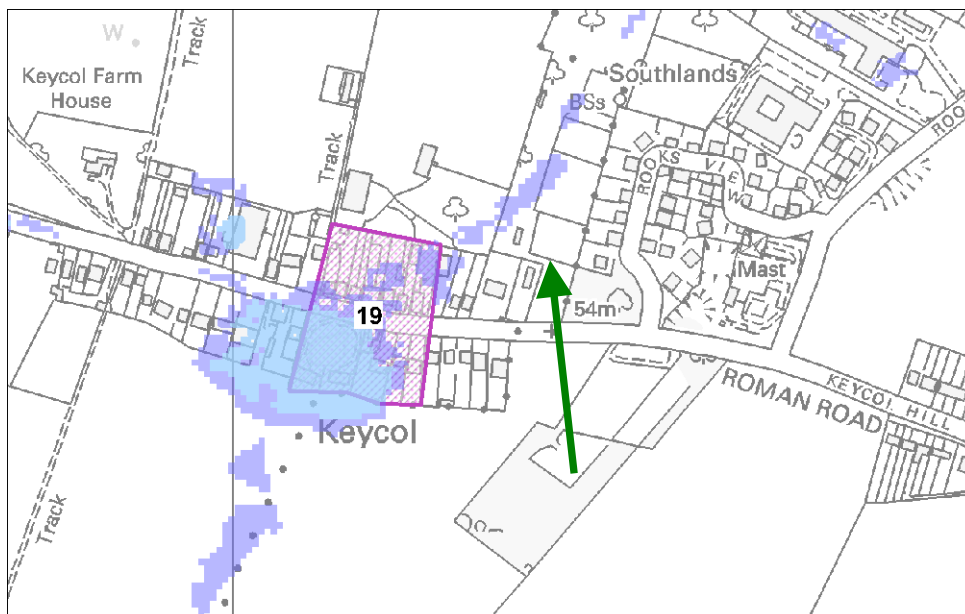
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.02	<p>Actual Flooding: Flooding of highway along The Street.</p> <p>Modelled Flooding: Small patches of highway flooding along The Street.</p> <p>Stakeholder Info: SBC stated issue has arisen many times, floods approximately half of the highway.</p> <p>Mapped Features: Rural</p> <p>Main type of Receptors: Residential</p>	<p>Initial Assessment: Risk Identified</p>
Actual Flooding			<p>Source: Highway drainage</p>
No. of Flooding Incidents	1		<p>Pathway: Highway</p>
Occurrence	1-2 times a year		<p>Receptors: Highway</p>
Source of Data	SBC		<p>Recommendation: Investigate the feasibility for prioritised highway gully clearance.</p> <p>Possible Options: Prioritised highway gully clearance.</p>
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	0		

Hotspot ID	Area	Stake-holder
18	Lower Halstow	Swale Borough Council



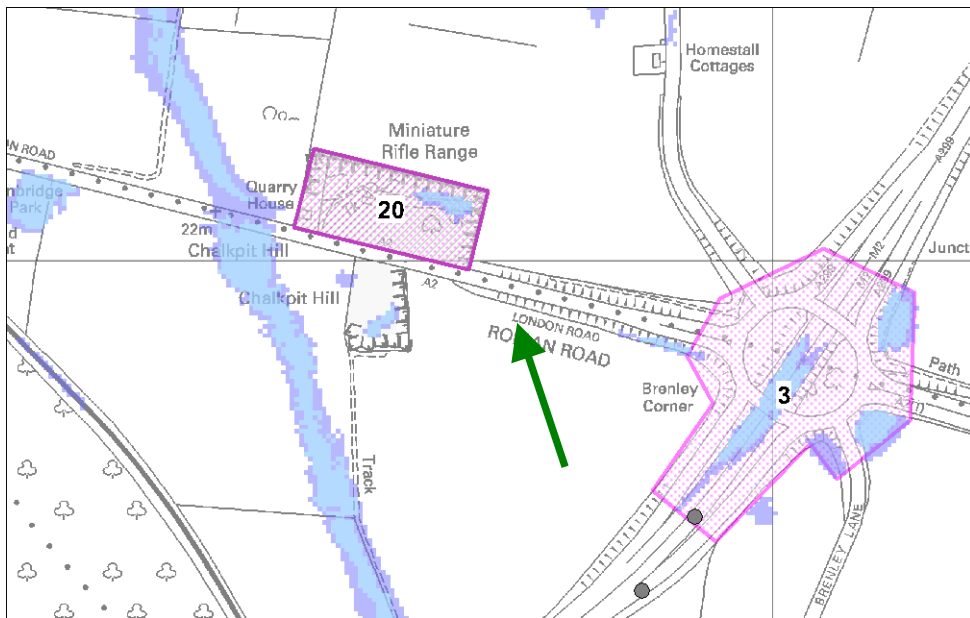
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.22	<p>Actual Flooding: Tidal flooding of the Raspberry Hill Lane</p> <p>Modelled Flooding: Small patches of highway flooding along Raspberry Hill Lane.</p> <p>Stakeholder Info: SBC stated complete flooding of the highway, 1-2 times a year. However no properties are affected.</p> <p>Mapped Features: Rural</p> <p>Main type of Receptors: None</p>	Initial Assessment: Risk Identified
Actual Flooding			Source: Tidal & highway drainage
No. of Flooding Incidents	1		Pathway: Highway
Occurrence	1-2 times a year		Receptors: Highway
Source of Data	SBC		<p>Recommendation: Investigate the feasibility for prioritised highway gully clearance.</p> <p>Possible Options: Prioritised highway gully clearance</p>
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	0		

Hotspot ID	Area	Stake-holder
19	Keycol	Swale Borough Council



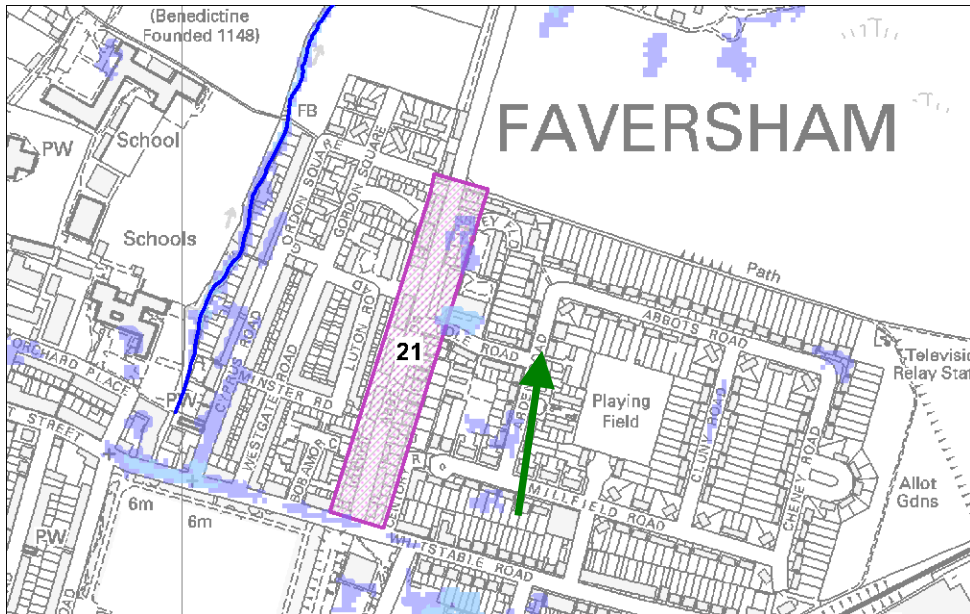
Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.01	Actual Flooding: Flooding of properties in Keycol Hill. Modelled Flooding: Flooding in of highway and Properties in Keycol Hill. Stakeholder Info: SBC stated occurs due to a natural low point, with runoff in to the pond. Mapped Features: Rural Main type of Receptors: Residential	Initial Assessment: Risk Identified
Actual Flooding			Source: Surface runoff & highway drainage
No. of Flooding Incidents	1		Pathway: Highway & overland flow
Occurrence	3-4 times a year		Receptors: Residential properties & Highway
Source of Data	SBC		Recommendation: Further investigation required Possible Options: Increase capacity of existing pond and construction of additional highway drainage to improve conveyance away from local low spot.
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	18		

Hotspot ID	Area	Stake-holder
20	A2, near Junction 7	Swale Borough Council


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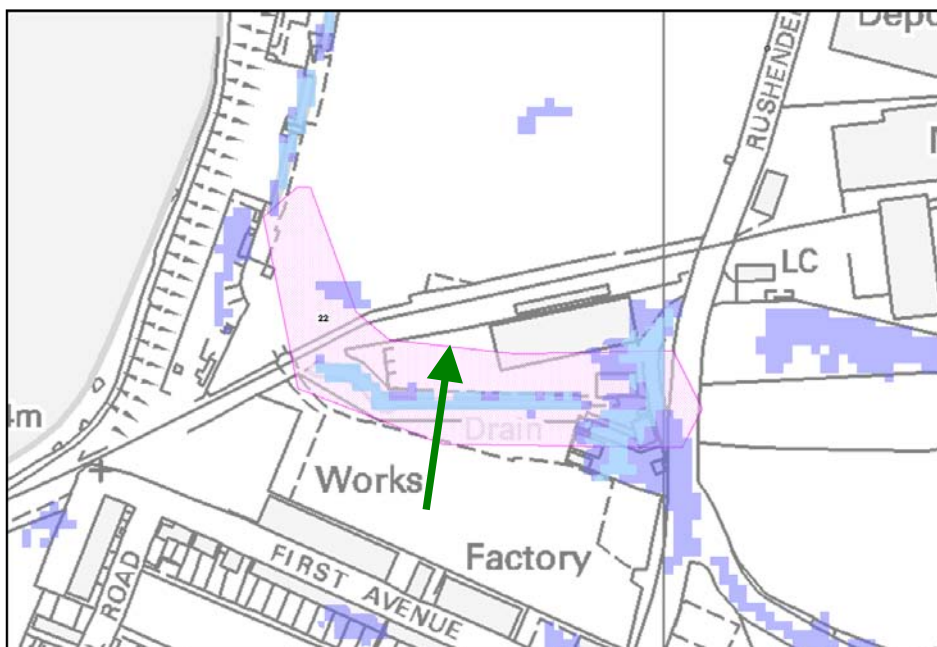
Hotspot Information	Flooding Data	Conclusion														
<table><tr><td>Hotspot Area (km²)</td><td>0.02</td></tr><tr><td colspan="2">Actual Flooding</td></tr><tr><td>No. of Flooding Incidents</td><td>1</td></tr><tr><td>Occurrence</td><td></td></tr><tr><td>Source of Data</td><td>SBC</td></tr><tr><td colspan="2">Predicted Flooding</td></tr><tr><td>No. of buildings within the EA's 1 in 30yr shallow flood extent</td><td>1</td></tr></table>	Hotspot Area (km²)	0.02	Actual Flooding		No. of Flooding Incidents	1	Occurrence		Source of Data	SBC	Predicted Flooding		No. of buildings within the EA's 1 in 30yr shallow flood extent	1	<p>Actual Flooding: Large amount of flooding occurs at Quarry House.</p> <p>Modelled Flooding: Small patch of flooding within the Rifle Range.</p> <p>Stakeholder Info: MK stated there has been known highway flooding of the A2 carriageway which is dangerous due to high speed vehicles.</p> <p>Mapped Features: Rural.</p> <p>Main type of Receptors: Residential.</p>	<p>Initial Assessment: Risk Identified</p> <p>Source: Surface runoff & highway drainage</p> <p>Pathway: Highway & overland flow</p> <p>Receptors: Highway</p> <p>Recommendation: Investigate the feasibility for prioritised highway gully clearance.</p> <p>Possible Options: Improve existing highway drainage and bunding to prevent runoff from surrounding land to enter the highway.</p>
Hotspot Area (km²)	0.02															
Actual Flooding																
No. of Flooding Incidents	1															
Occurrence																
Source of Data	SBC															
Predicted Flooding																
No. of buildings within the EA's 1 in 30yr shallow flood extent	1															

Hotspot ID		Area	Stake-holder
21		Faversham	Swale Borough Council



Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km²)	0.02	<p>Actual Flooding: Flooding along Abbey Fields that affects properties.</p> <p>Modelled Flooding: Flooding of properties in Abbey Fields and Cole Road.</p> <p>Stakeholder Info: Known flooding problems in Abbey Fields flooding fields and some properties in the low spot</p> <p>Mapped Features: Urban.</p> <p>Main type of Receptors: Residential.</p>	<p>Initial Assessment: Risk Identified</p>
Actual Flooding			<p>Source: Surface runoff</p>
No. of Flooding Incidents	1		<p>Pathway: Highway & overland flow</p>
Occurrence			<p>Receptors: Residential properties</p>
Source of Data	SBC		<p>Recommendation: Further investigation required</p> <p>Possible Options: Improved local drainage in local low-spot to convey flows to surrounding open spaces</p>
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	9		

Hotspot ID	Area	Stake-holder
22	Queensborough	Swale Borough Council



Hotspot Information		Flooding Data	Conclusion
Hotspot Area (km ²)	0.56	<p>Actual Flooding: Highway run-off from large car park to draining to the east of the site. Surface water unable to discharge along watercourse due to blocked culvert</p> <p>Modelled Flooding: Flooding to properties along Rushenden Road.</p> <p>Stakeholder Info: IDB stated known surface water flooding occurred due to lack of maintenance of existing drainage ditch</p> <p>Mapped Features: Urban.</p> <p>Main type of Receptors: Commercial and residential.</p>	<p>Initial Assessment: Risk Identified</p>
Actual Flooding			<p>Source: Surface runoff</p>
No. of Flooding Incidents	1		<p>Pathway: Highway & overland flow</p>
Occurrence	2000		<p>Receptors: Residential properties</p>
Source of Data	IDB		<p>Recommendation: Investigate the feasibility for prioritised ditch clearance.</p> <p>Possible Options: Maintenance of existing drainage ditch</p>
Predicted Flooding			
No. of buildings within the EA's 1 in 30yr shallow flood extent	2		

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