

Essex Flood Partnership Board Agenda Item 4:

# **Update on Regional Flood Risk Management Plans (FRMPS) - Cycle 2**

Presentation by:

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**Surface Water Planning Engineer**



Essex County Council

# 01 – Essex FRMP Measures:

Measure ID	Measure
0208805002	By 2022, Essex County Council will ensure that information regarding all Risk Management Authority (RMA) goals are accessible via the Local Flood Risk Management Strategy to develop a joint strategic vision in Essex to provide a delivery plan and set out our priorities/vision.
0208805003	Between 2021 and 2027, Essex County Council will conduct a twice yearly review with local RMA partners in Essex, to review current schemes and ensure that, where appropriate, an adaptive approach is taken to enhance resilience.
0208805004	Between 2021 and 2027, Essex County Council will continue to progress the floods capital programme, where funding allows, in Essex to reduce the risk of flooding.
0208805005	Between 2021 and 2027, Essex County Council will carry out annual asset inspections on completed capital schemes to review maintenance needs in Essex to identify any future investment needs.

## 02 – Essex FRMP Measures (Cont'd):

Measure ID	Measure
0208805006	Between 2021 and 2027, Essex County Council will attend quarterly Catchment Partnership meetings in Essex to share expertise on natural flood management delivery and look for opportunities to deliver cross partnership schemes.
0208805007	By 2022, Essex County Council will identify any key infrastructure that the LLFA deems to be at significant risk of surface water flooding.
0208805009	By 2022, Essex County Council will provide guidance about resilience measures to owners of key infrastructure at significant flood risk.
0208805010	Between 2021 and 2027, Essex County Council will run a yearly SuDS workshop to better understand the challenges faced by developers when meeting the requirements laid out in local guidance in Essex to improve the quality of SuDS applications.

## 03 – Essex FRMP Measures (Cont'd):

Measure ID	Measure
0208805011	Between 2021 and 2027, Essex County Council will undertake a yearly review of the SuDS guide and make changes where appropriate in Essex, to continuously improve guidance.
0208805012	Between 2021 and 2027, Essex County Council will feed into the Local Plan development process in Essex to ensure that local planning policy strengthens national planning legislation.
0208805013	Between 2021 and 2027, Essex County Council will act on recommendations within the Green Infrastructure Strategy and Climate Action Commission in Essex to ensure cross-cutting multiple outcomes.
0208805014	Between 2021 and 2027, Essex County Council will continue marketing of the Property Flood Resilience grant scheme in targeted areas known to be at highest risk in Essex to protect properties experiencing flooding.

## 04 – Essex FRMP Measures (Cont'd):

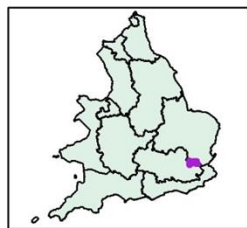
Measure ID	Measure
0208805015	Between 2021 and 2027, Essex County Council will continue delivery of educational communications and marketing campaigns of the council's 'Know Your Flood Risk' webpages in Essex to increase awareness of flood risk.
0208805016	Between 2021 and 2027, Essex County Council will work closely with the Essex Flood Board partnership members to more actively promote awareness of flood risk and the dangers associated with flood water, along with understanding of various roles in response and recovery in Essex to promote individual and community resilience.
0208805017	Between 2021 and 2027, Essex County Council will identify community groups at risk and promote the formation of a flood groups to promote community resilience.

# 05 – Essex Flood Risk Area's (FRA's):

## South Essex FRA:



Flood Risk Area: South Essex, Anglian



Flood Risk Area: Surface Water  
 River Basin Districts

0 2.5 5 7.5 10 Kilometres



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### Overview of Surface Water Flood Risk:

Surface water flooding occurs when high intensity rainfall (often of short duration) is unable to infiltrate into the ground, or exceeds the capacity of local drainage networks, causing water to flow overland.

The flood hazard and risk maps show that in the South Essex FRA some 88,176 of the 479,110 people are in areas at risk of flooding from surface water, of which 18% are considered to be in areas of high risk, 17% in areas at medium risk, and 65% are in areas considered to be at low risk.

Also shown to be at risk of flooding from surface water are: -

- 3400 non-residential properties
- 1 airport
- 167 out of 2428 services
- 20.68 km of railways
- 11.67 km of roads
- 2 bathing water sites
- 5 sites regulated under the EPR
- 11 licensed water abstraction sites
- 38 listed buildings
- ~1508 ha of agricultural land, of which around 526ha is at high risk
- ~0.1 ha of SAC
- ~0.1 ha of SPA
- ~6.75 ha of Scheduled Ancient Monument
- ~59.34 ha of SSSI
- ~0.16 ha of Ramsar sites

# 06 – Essex FRA's Cont'd:


## Canvey Island FRA:



Flood Risk Area: Canvey Island, Thames



 Flood Risk Area: Surface Water  
 River Basin Districts

 Kilometres  
0 0.5 1 1.5 2

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### Overview of Surface Water Flood Risk:

Surface water flooding occurs when high intensity rainfall (often of short duration) is unable to infiltrate into the ground, or exceeds the capacity of local drainage networks, causing water to flow overland.

The flood hazard and risk maps show that in the Canvey Island FRA some 10,082 of the 39,401 people are in areas at risk of flooding from surface water, of which 5% are considered to be in areas of high risk, 13% at medium risk, and 82% at low risk.

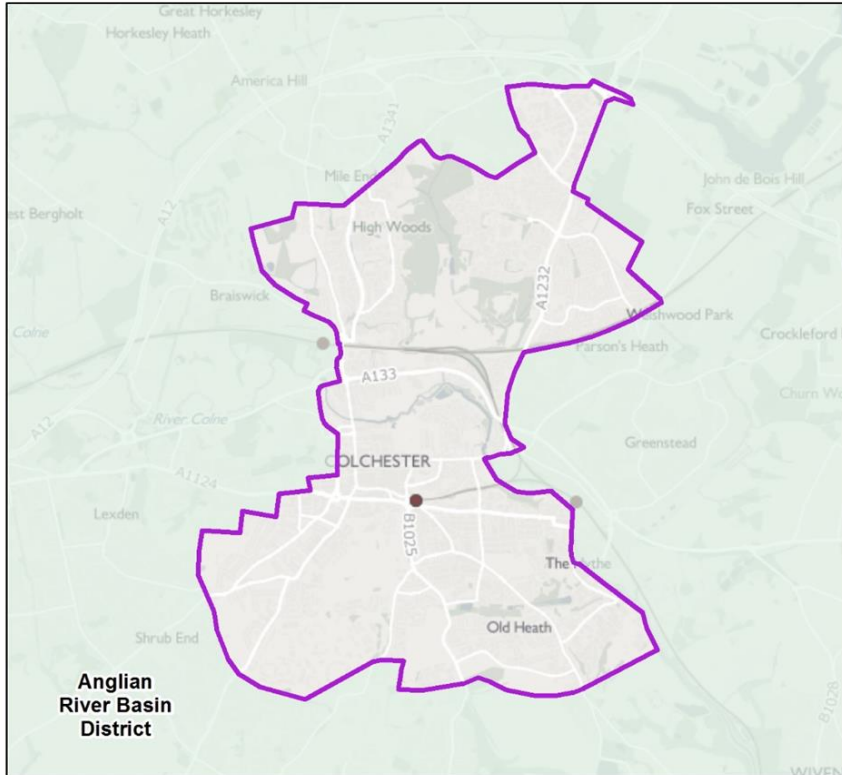
Also shown to be at risk of flooding from surface water are:

- 461 non-residential properties
- 9 out of 163 services
- ~16.32 ha of agricultural land, of which around 2.72 ha is at high risk
- Small areas of SPA
- Small areas of Scheduled Ancient Monument
- Small areas of SSSI
- Small areas of Ramsar sites



# 07 – Essex FRA's Cont'd:

## Colchester FRA:



### Overview of Surface Water Flood Risk:

Surface water flooding occurs when high intensity rainfall (often of short duration) is unable to infiltrate into the ground, or exceeds the capacity of local drainage networks, causing water to flow overland.

The flood hazard and risk maps show that in the Colchester FRA some 5728 of the 59,030 people are in areas at risk of flooding from surface water, of which 10% are considered to be in areas of high risk, 18% at medium risk, and 72% at low risk.

Also shown to be at risk of flooding from surface water are:

- 355 non-residential properties
- 8 out of 399 services
- 2.54 km of railways
- 0.5 km of roads
- 2 licensed water abstraction sites
- 13 listed buildings
- ~56 ha of agricultural land, around 7ha of which is at high risk
- ~7 ha of parks and gardens
- ~3 ha of Scheduled Ancient Monuments
- Small areas of SSSI

Flood Risk Area: Colchester, Anglian



■ Flood Risk Area: Surface Water  
■ River Basin Districts

0 1 2 3 Kilometres

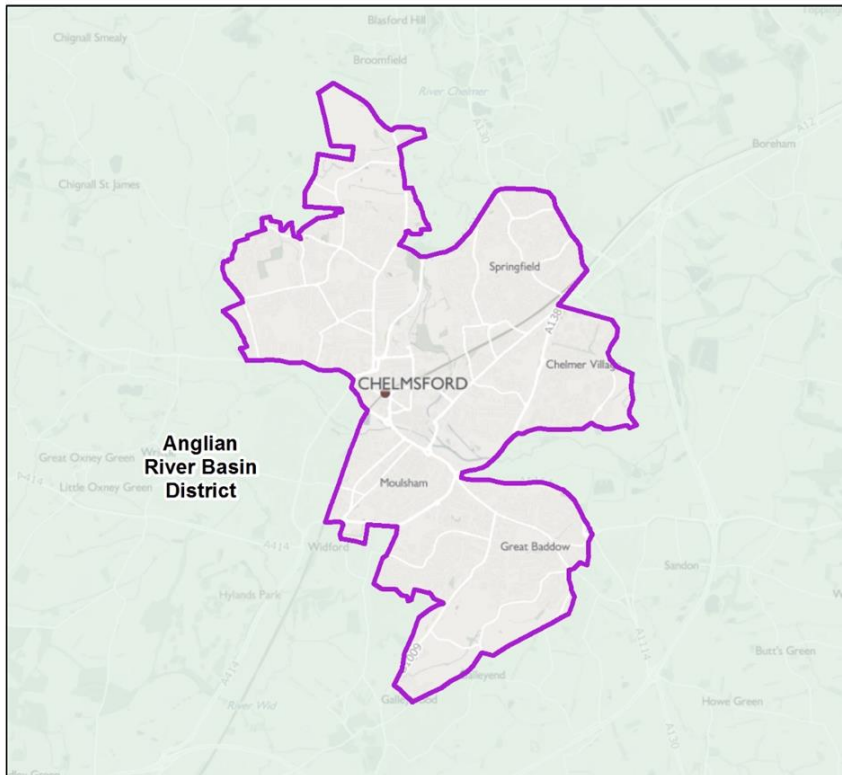


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## 08 – Essex FRA's Cont'd:

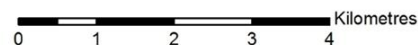
### Chelmsford FRA:



Flood Risk Area: Chelmsford, Anglian



 Flood Risk Area: Surface Water  
 River Basin Districts



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### Overview of Surface Water Flood Risk:

Surface water flooding occurs when high intensity rainfall (often of short duration) is unable to infiltrate into the ground, or exceeds the capacity of local drainage networks, causing water to flow overland.

The flood hazard and risk maps show that in the Chelmsford FRA some 12,134 of the 85,249 people are in areas at risk of flooding from surface water, of which 8% are considered to be in areas of high risk, 13% at medium risk, and 79% at low risk.

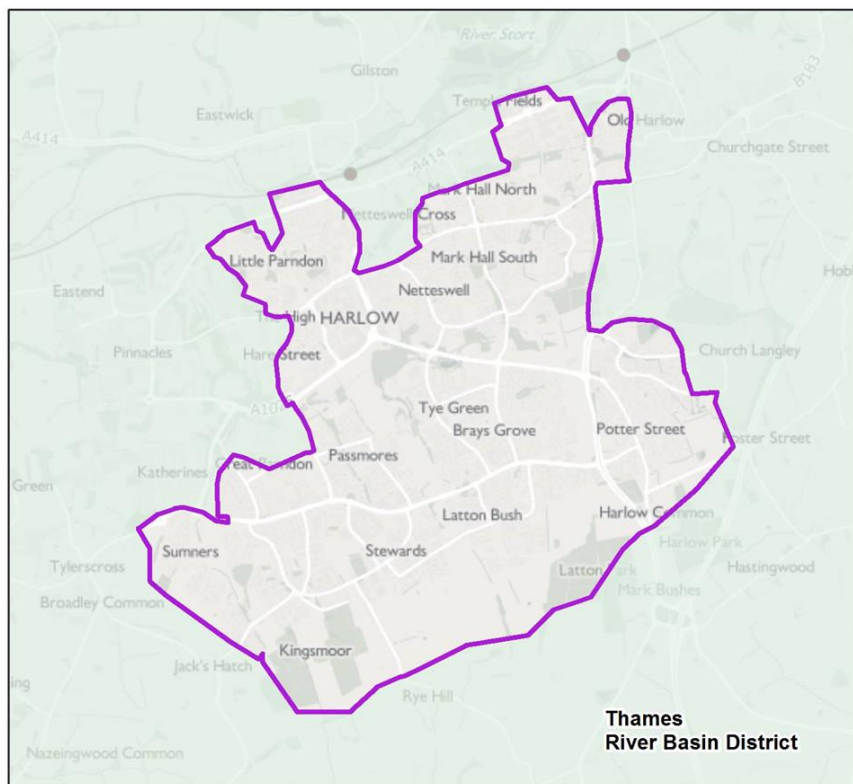
Also shown to be at risk of flooding from surface water are:

- 523 non-residential properties
- 36 out of 516 services
- 2.21 km of railways
- Small sections of roads
- 2 licensed water abstraction sites
- 18 listed buildings
- ~82 ha of agricultural land, around 13ha of which is at high risk

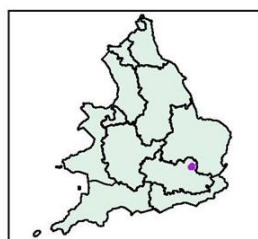



# 09 – Essex FRA's Cont'd:

## Harlow FRA:



Flood Risk Area: Harlow, Thames



 Flood Risk Area: Surface Water  
 River Basin Districts

 Kilometres  
0 1 2 3

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### Overview of Surface Water Flood Risk:

Surface water flooding occurs when high intensity rainfall (often of short duration) is unable to infiltrate into the ground, or exceeds the capacity of local drainage networks, causing water to flow overland.

The Flood Risk and Hazard Map show an estimated 86,974 people living within the Harlow SW FRA. Of those, 11,045 (12.7%) are at risk of flooding from surface water.

Additional receptors at risk of surface water flooding within this FRA include:

- 37 services (8% of the total in the area). (Please call out any key services, you feel need to be mentioned here)
- 502 non-residential properties (21.3% of the total in the area).
- 1.5 kilometres of road (39% of the total in the area) and 0.4 kilometres of railway (90.8% of the total in the area). Disruption to transport routes as a result of flood risk can have an impact at both local and larger scales. The lengths of road or railway at risk only provide part of the picture of transport network flood risk as the duration of possible flooding has implications for wider impacts due to closure or restriction of routes or services.
- 15 kilometres of agricultural land (9.9% of the total in the area).
- 1 Environmental Permitting Regulation installation (100% of the total in the area) and 3.3 hectares of Sites of Special Scientific Interest (8.4% of the total in the area).
- 0.6 hectares of Scheduled Ancient Monument (54.8% of the total in the area) and 15 listed buildings (15.8% of the total in the area).

# Questions ?

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