

RESIDUAL RISK - COMPOSITE MAP OF ALL MODELLED BREACH LOCATIONS

KEY

- Flood Cell CAS
- Basildon BC Boundary
- ◆ Breach Location

Flood Hazard Rating

- Low Hazard
- Moderate Hazard (Danger for Some)
- Significant Hazard (Danger for Most)
- Extreme Hazard (Danger for All)

TECHNICAL NOTE

Hydraulic modelling has been undertaken using 2D hydraulic modelling software MIKE21-HDFM (ver. 2009), to assess the effect of breaches at specified points and/or overtopping of defences. The model simulates 3 tidal cycles with the peak level occurring on the second peak and two slightly smaller peaks either side. Breaches in the defence walls are modelled to occur immediately before the peak tidal level to assess the potential impact of rapid inundation of floodwater.

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It should be noted that the breach width and depth, though based on EA guidance, are arbitrary and do not necessarily represent the actual dimensions of a potential breach at a given location.

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THAMES GATEWAY SOUTH ESSEX
STRATEGIC FLOOD RISK ASSESSMENT

COMPOSITE FLOOD HAZARD RATING
0200YR (2010)
ALL BREACHES (BAS01&CAS08) & OVERTOPPING

Basildon Council
castlepoint
Rochford District Council

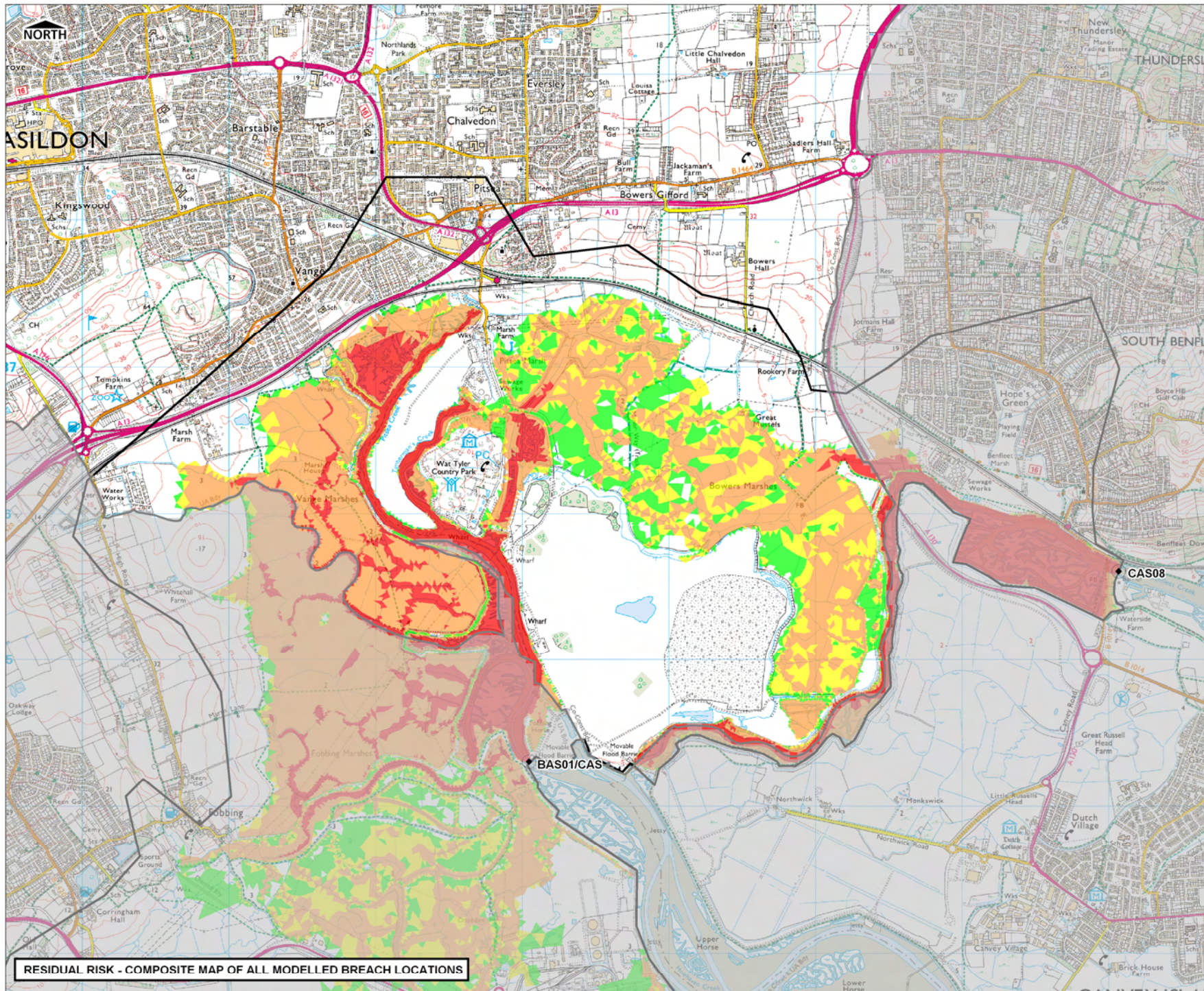
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Tel. (020) 7798 5000

SCOTT WILSON

DRAWING NUMBER

FIGURE C-1

REV 02



RESIDUAL RISK - COMPOSITE MAP OF ALL MODELLED BREACH LOCATIONS

KEY

- Flood Cell CAS
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- Breach Location

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THAMES GATEWAY SOUTH ESSEX STRATEGIC FLOOD RISK ASSESSMENT

COMPOSITE FLOOD HAZARD RATING 1000YR (2010)

ALL BREACHES (BAS01&CAS08) & OVERTOPPING

Basildon Council
 castlepoint
 Rochford District Council

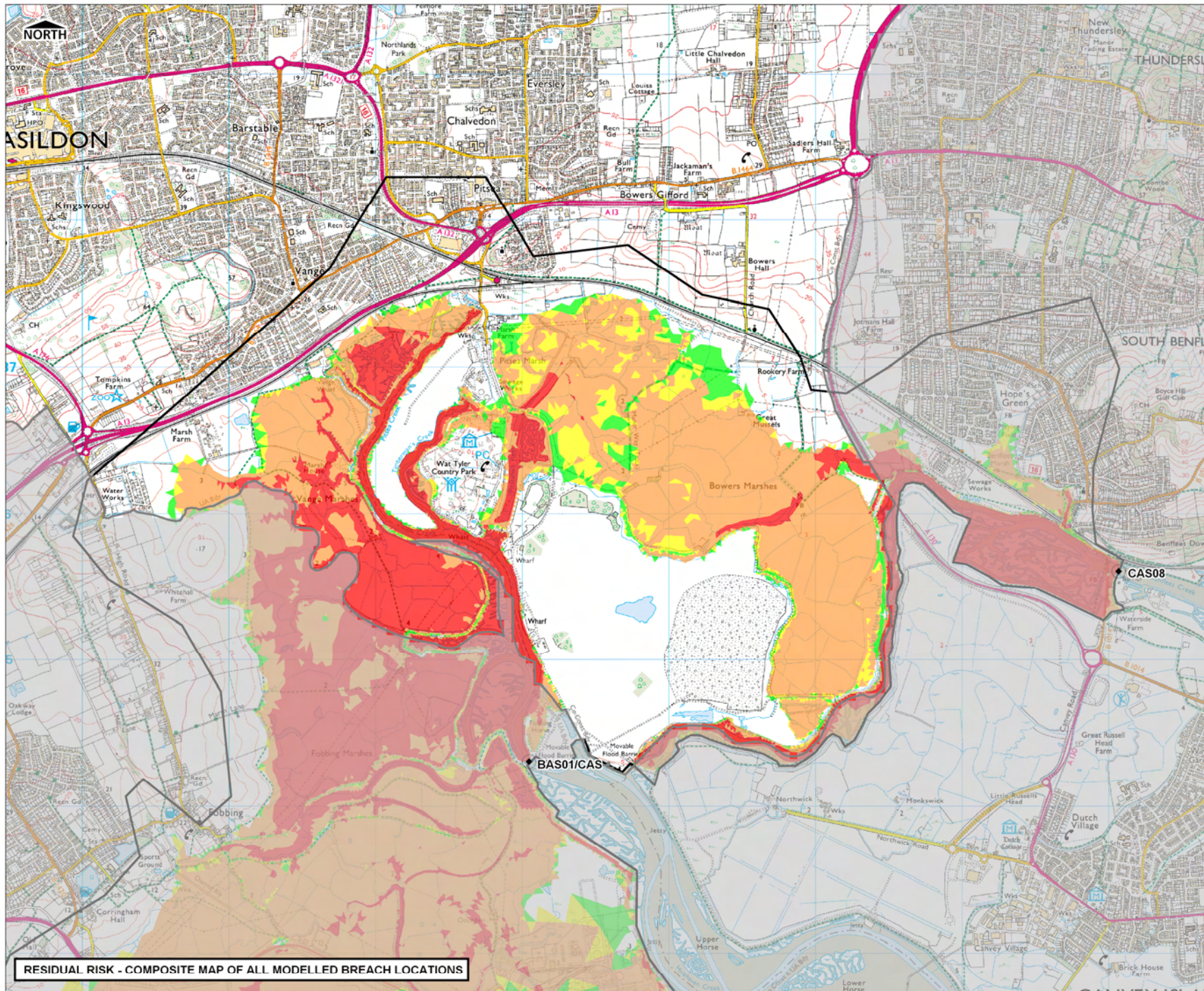
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FIGURE C-2

REV 02



RESIDUAL RISK - COMPOSITE MAP OF ALL MODELLED BREACH LOCATIONS

KEY

- Flood Cell CAS
- Breach Location
- Basildon BC Boundary

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THAMES GATEWAY SOUTH ESSEX
STRATEGIC FLOOD RISK ASSESSMENT

COMPOSITE FLOOD HAZARD RATING
0200YR (2110)
ALL BREACHES (BAS01&CAS08) & OVERTOPPING

Basildon Council
castlepoint
Rochford District Council

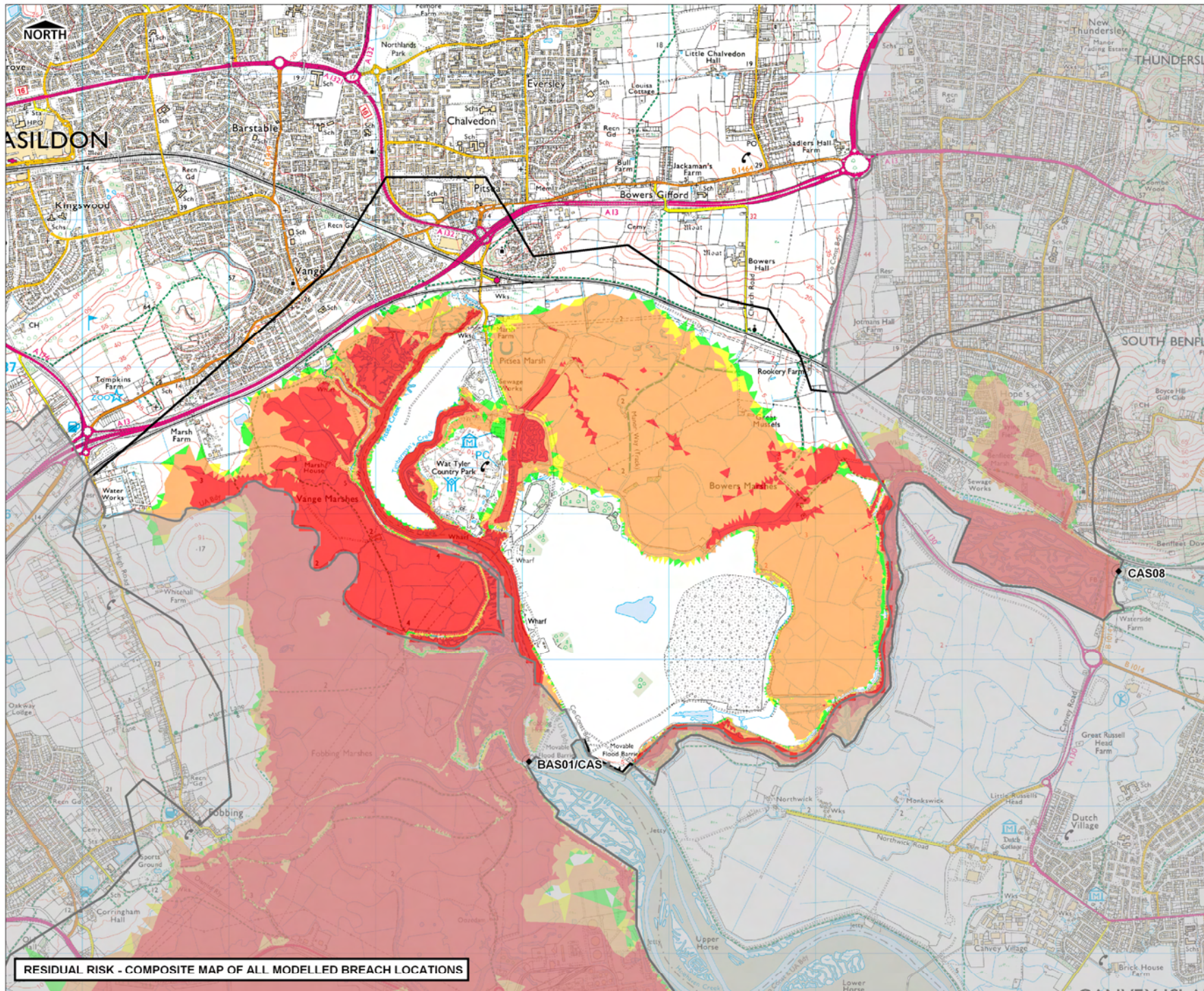
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SCOTT WILSON

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FIGURE C-3

REV 02



RESIDUAL RISK - COMPOSITE MAP OF ALL MODELLED BREACH LOCATIONS

KEY

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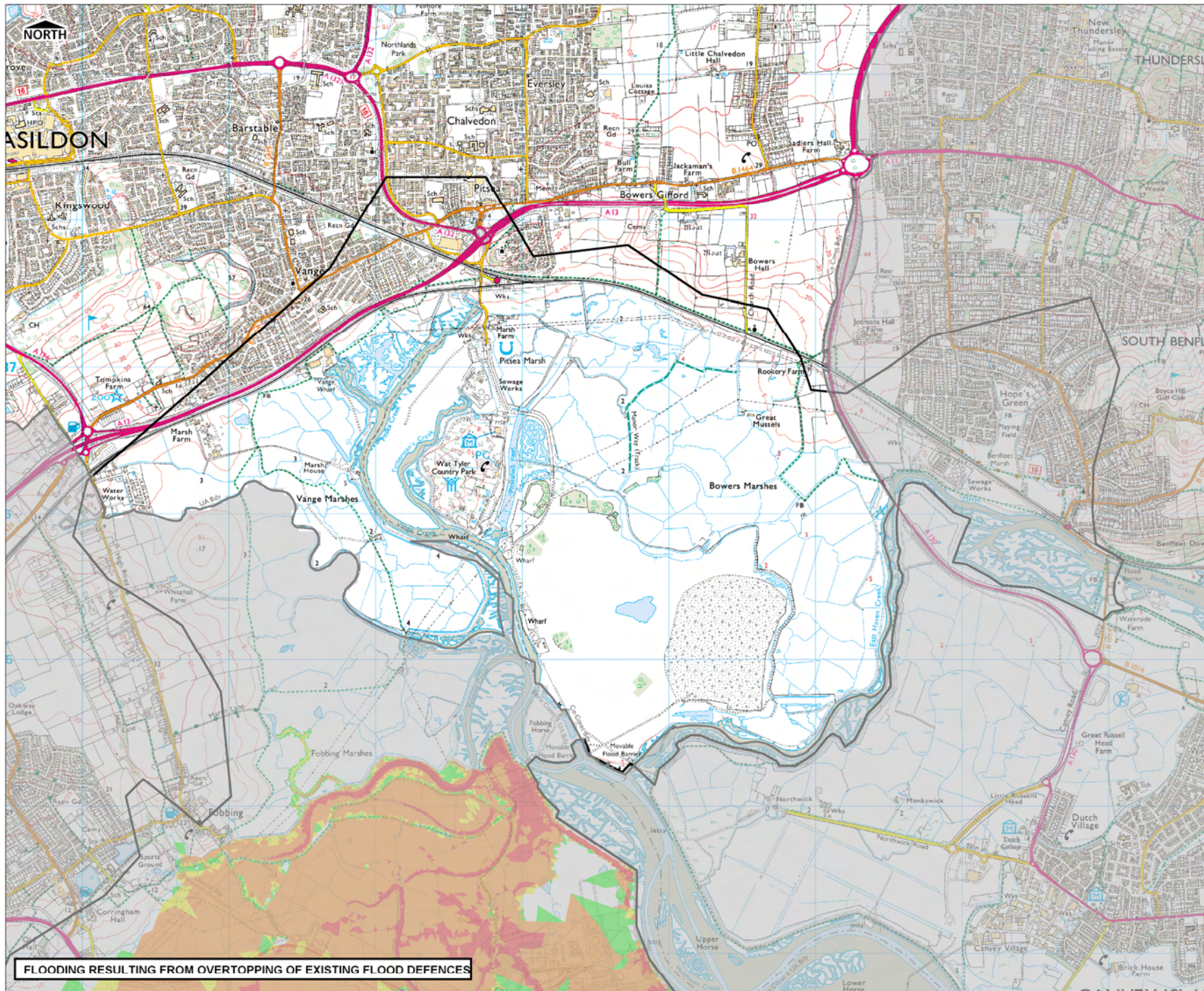
COMPOSITE FLOOD HAZARD RATING 1000YR (2110)

ALL BREACHES (BAS01&CAS08) & OVERTOPPING

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DRAWING NUMBER: **FIGURE C-4**

REV 02



FLOODING RESULTING FROM OVERTOPPING OF EXISTING FLOOD DEFENCES

KEY

- Flood Cell CAS
- Basildon BC Boundary

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**THAMES GATEWAY SOUTH ESSEX
STRATEGIC FLOOD RISK ASSESSMENT**

**COMPOSITE FLOOD HAZARD RATING
0200YR (2110)
OVERTOPPING**

Basildon Council castlepoint Rochford District Council

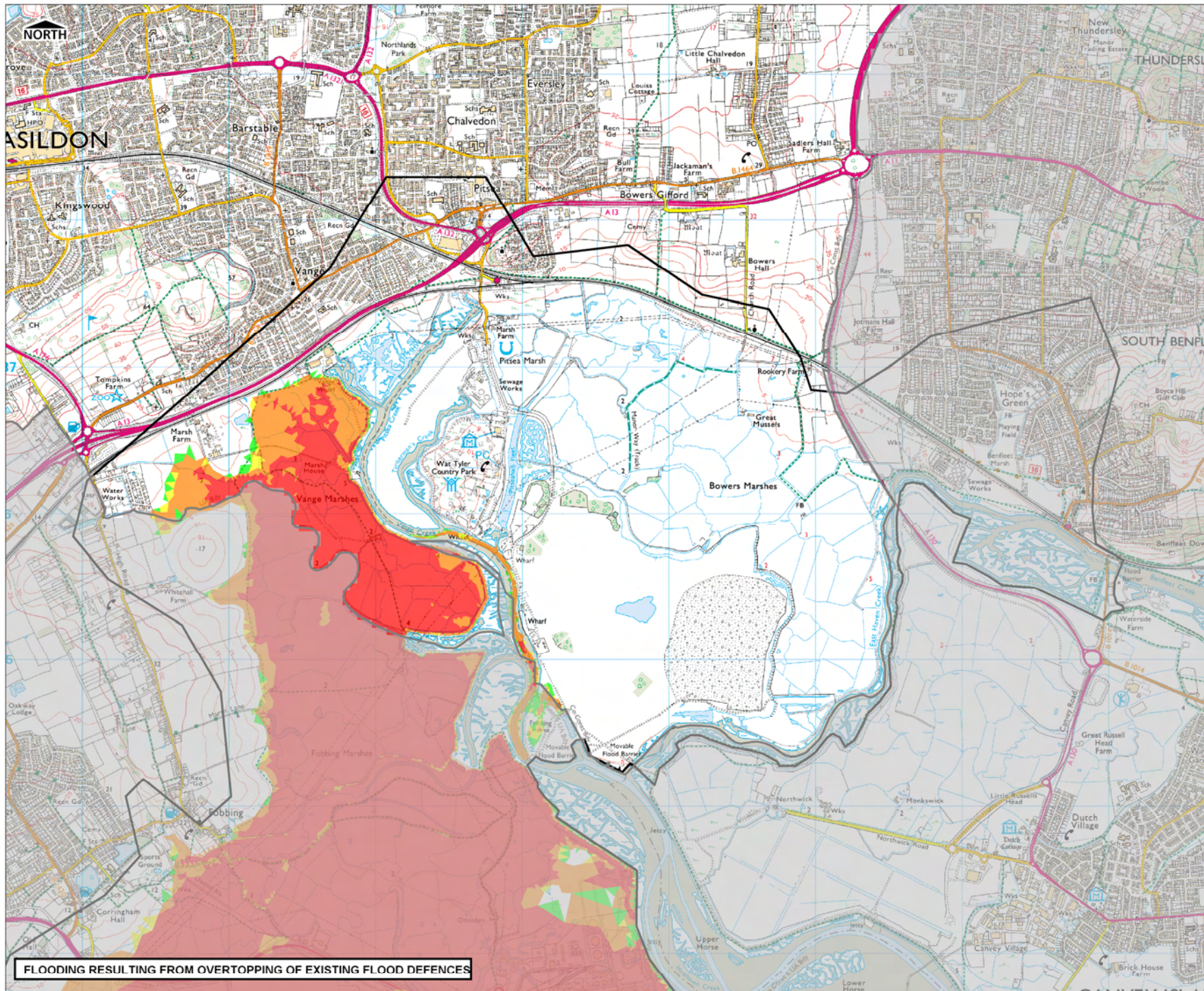
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FIGURE C-5

REV 02



FLOODING RESULTING FROM OVERTOPPING OF EXISTING FLOOD DEFENCES

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FIGURE C-6

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