

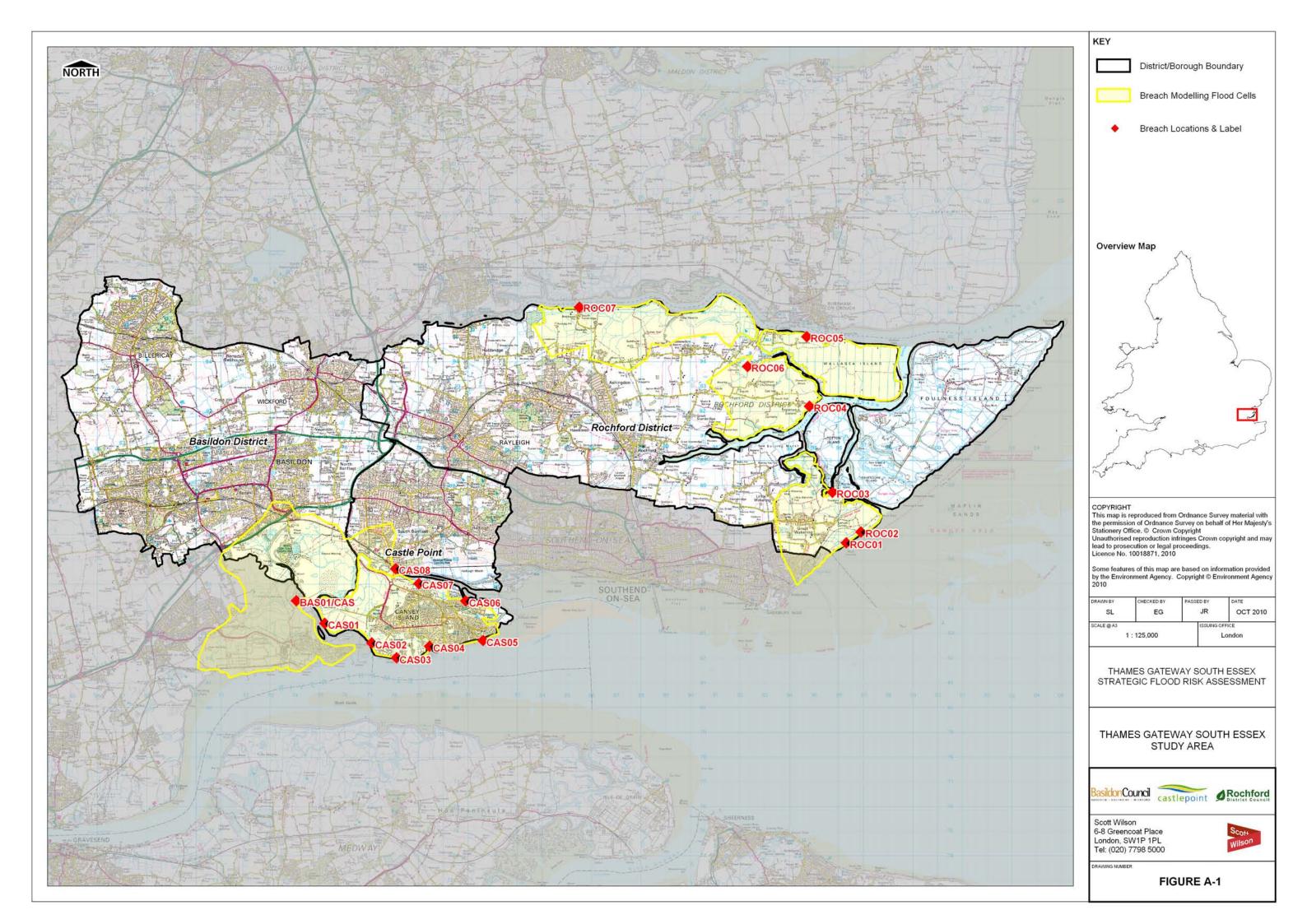
Appendix A: General Figures

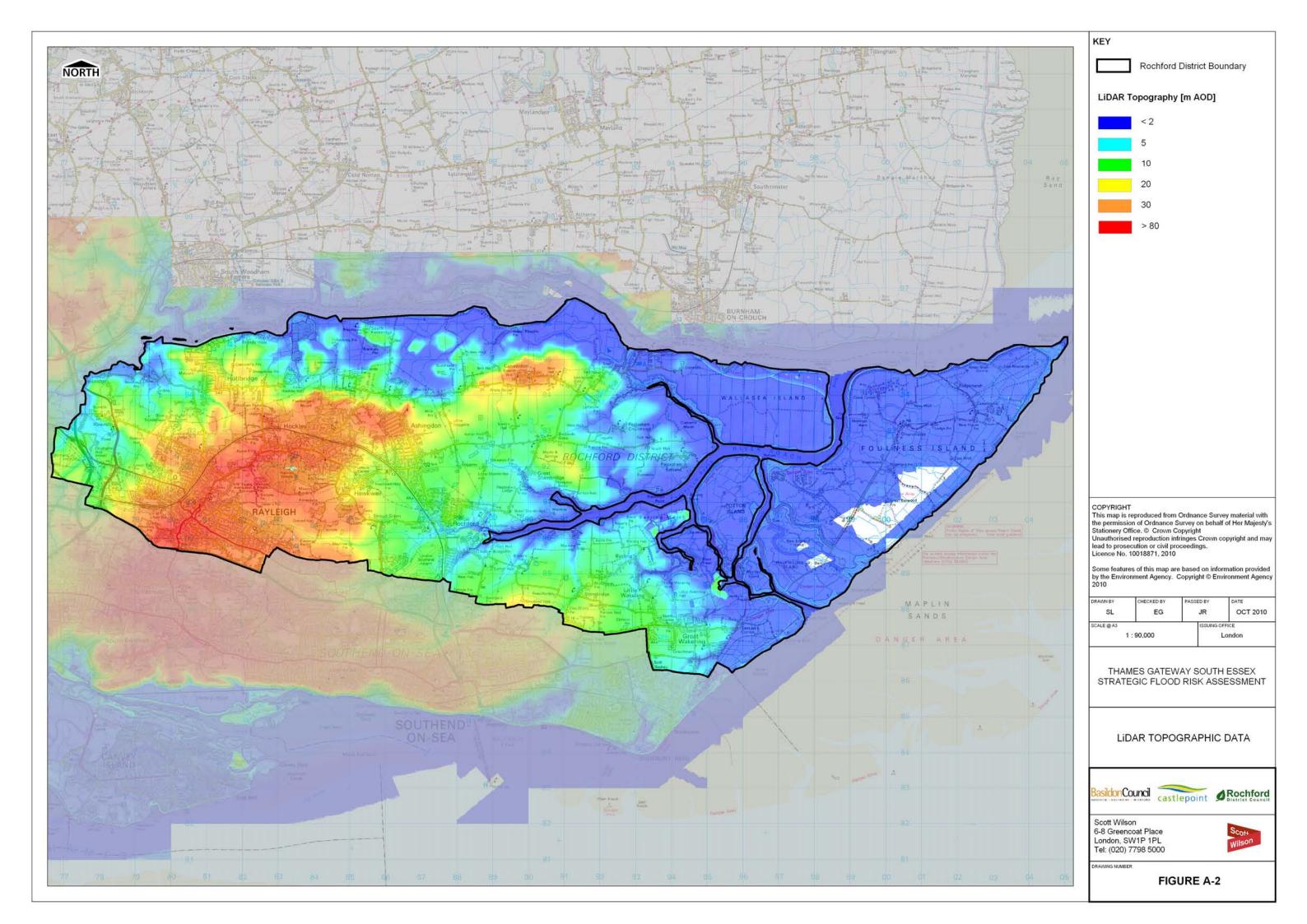
Figure A01 Study Area & Breach Locations Figure A02 LiDAR Topographic Survey Figure A03 Bedrock Geology Figure A04 Superficial Geology Figure A05 Rochford Growth Areas Main Rivers & Critical Ordinary Watercourses Figure A06 Figure A07 Fluvial & Tidal Flood Zones - Overview of the District Figure A08 Fluvial & Tidal Flood Zones - Hawkwell Figure A09 Fluvial & Tidal Flood Zones - Rayleigh Figure A10 Fluvial & Tidal Flood Zones - Rochford

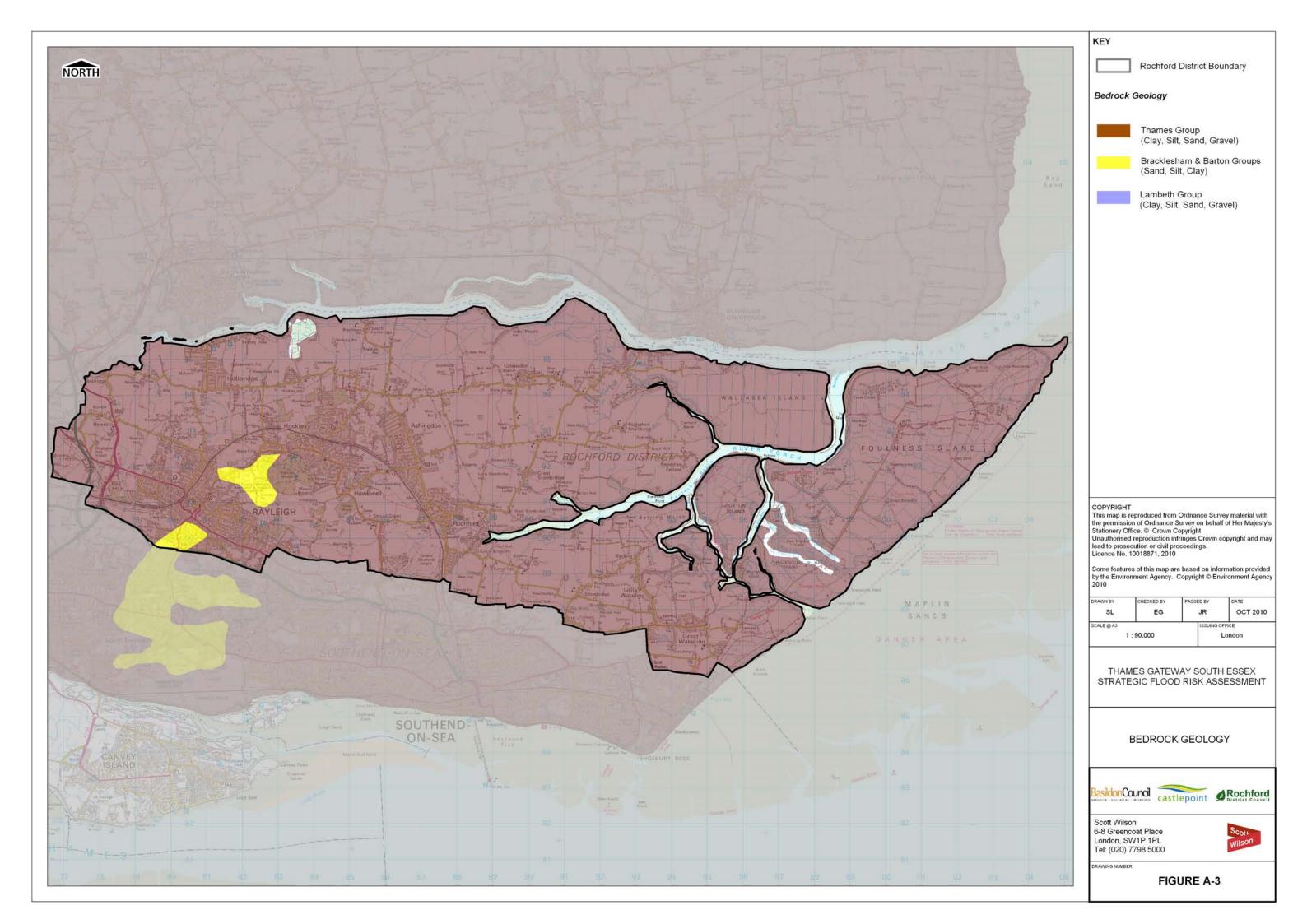
Figure A11 Areas Susceptible to Surface Water Flooding & Surface Water Flooding Records

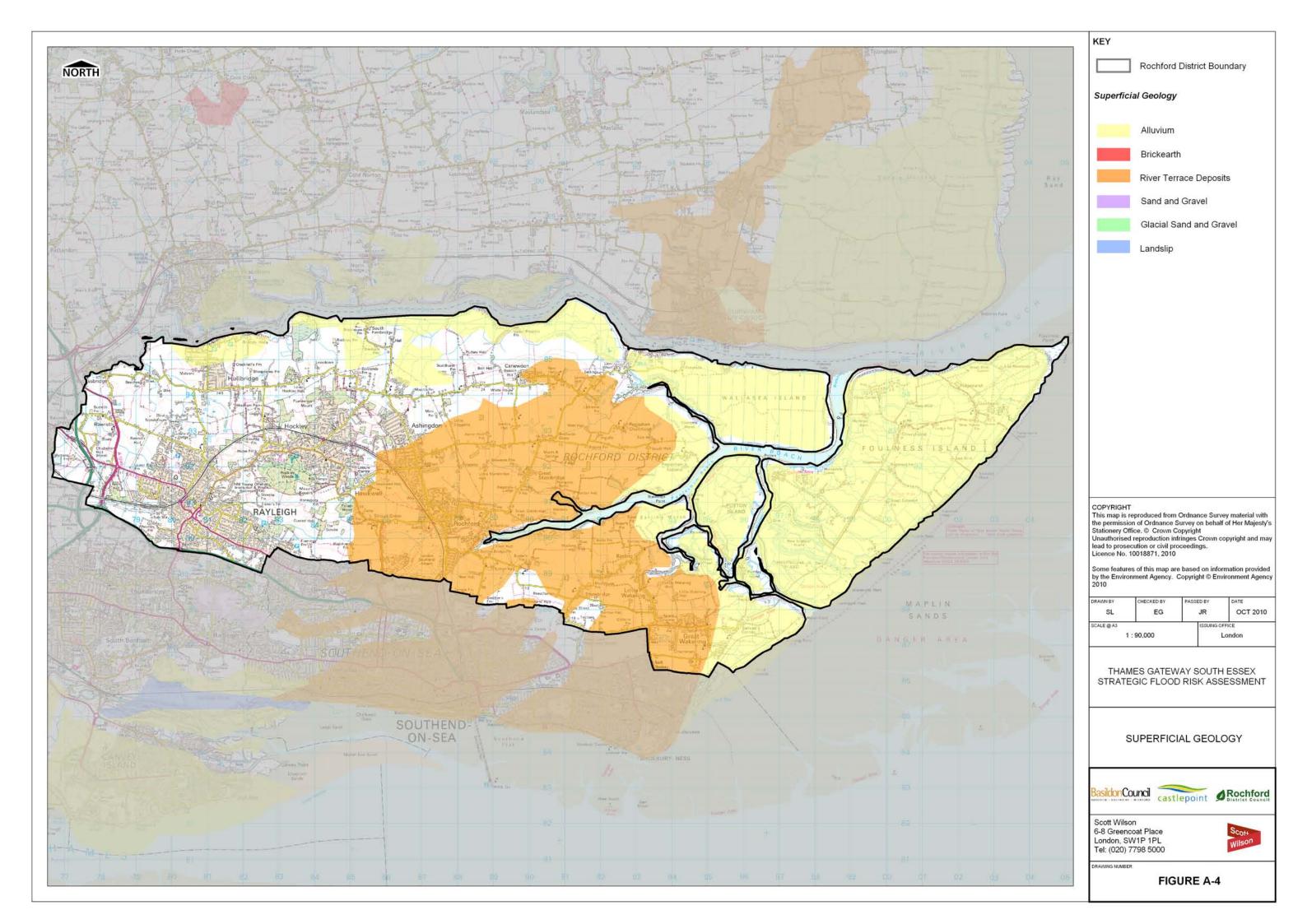
Figure A12 Flood Defences Design Standard (NFCDD)

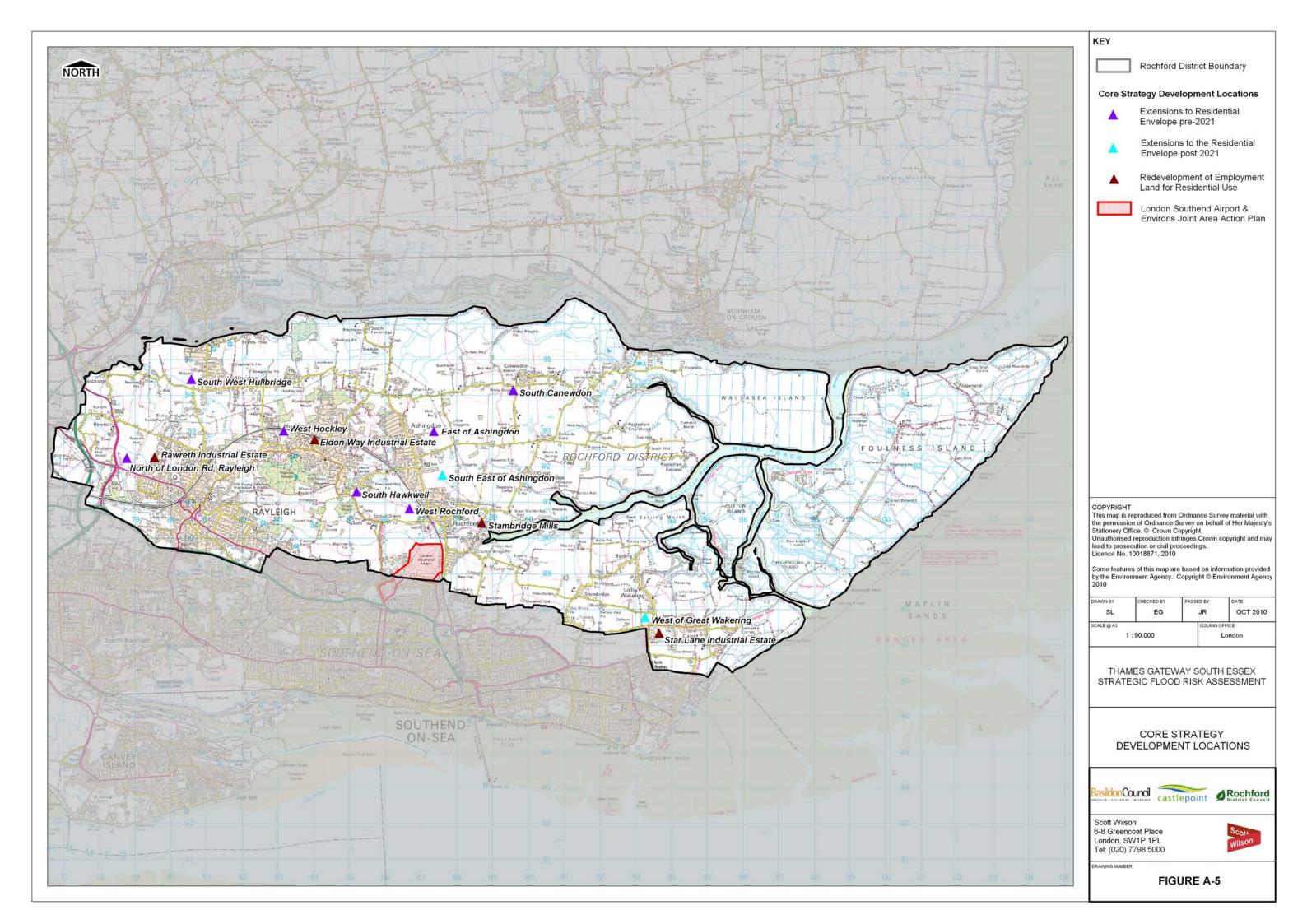
Figure A13 NaFRA (National Flood Risk Assessment Dataset)

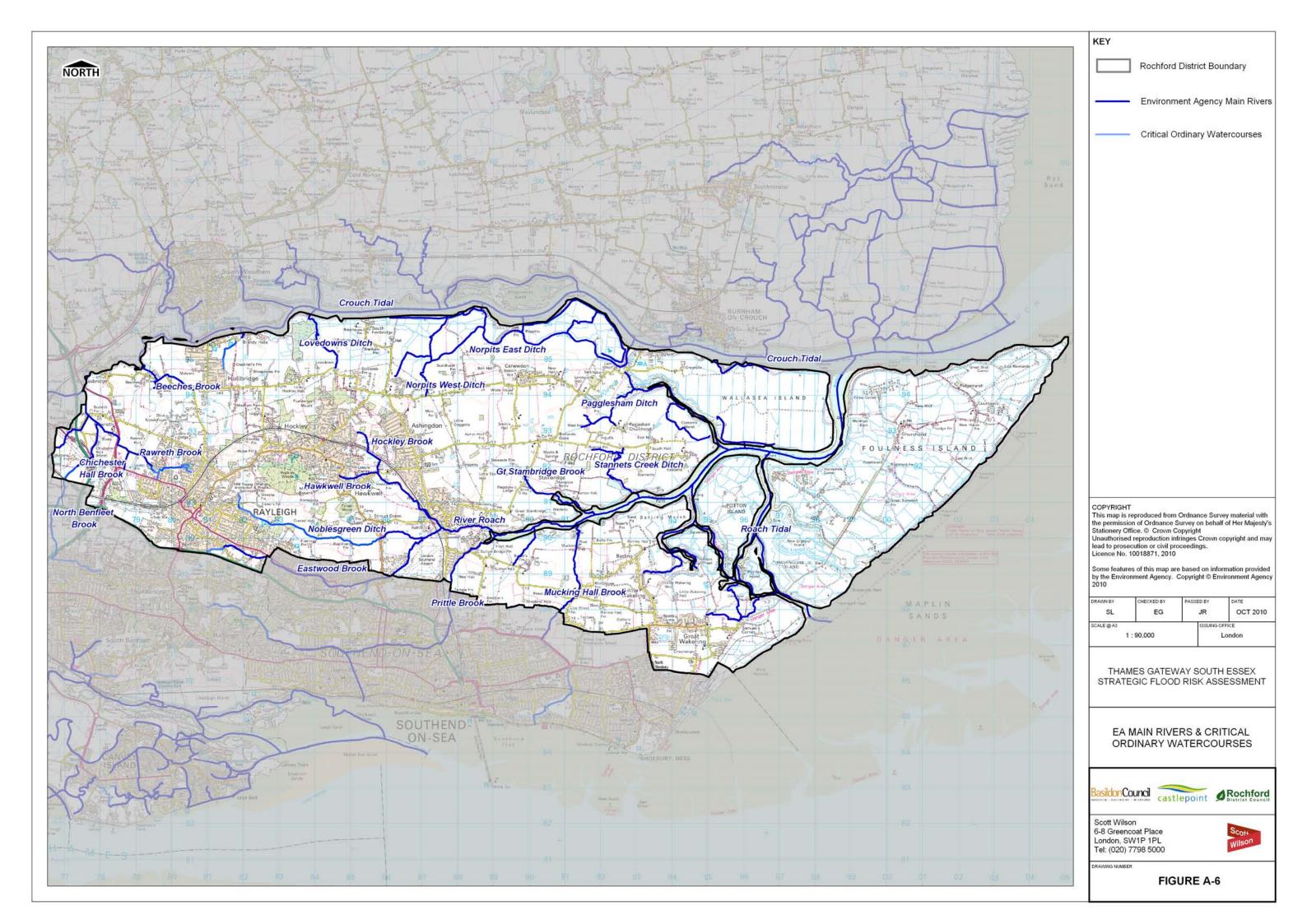


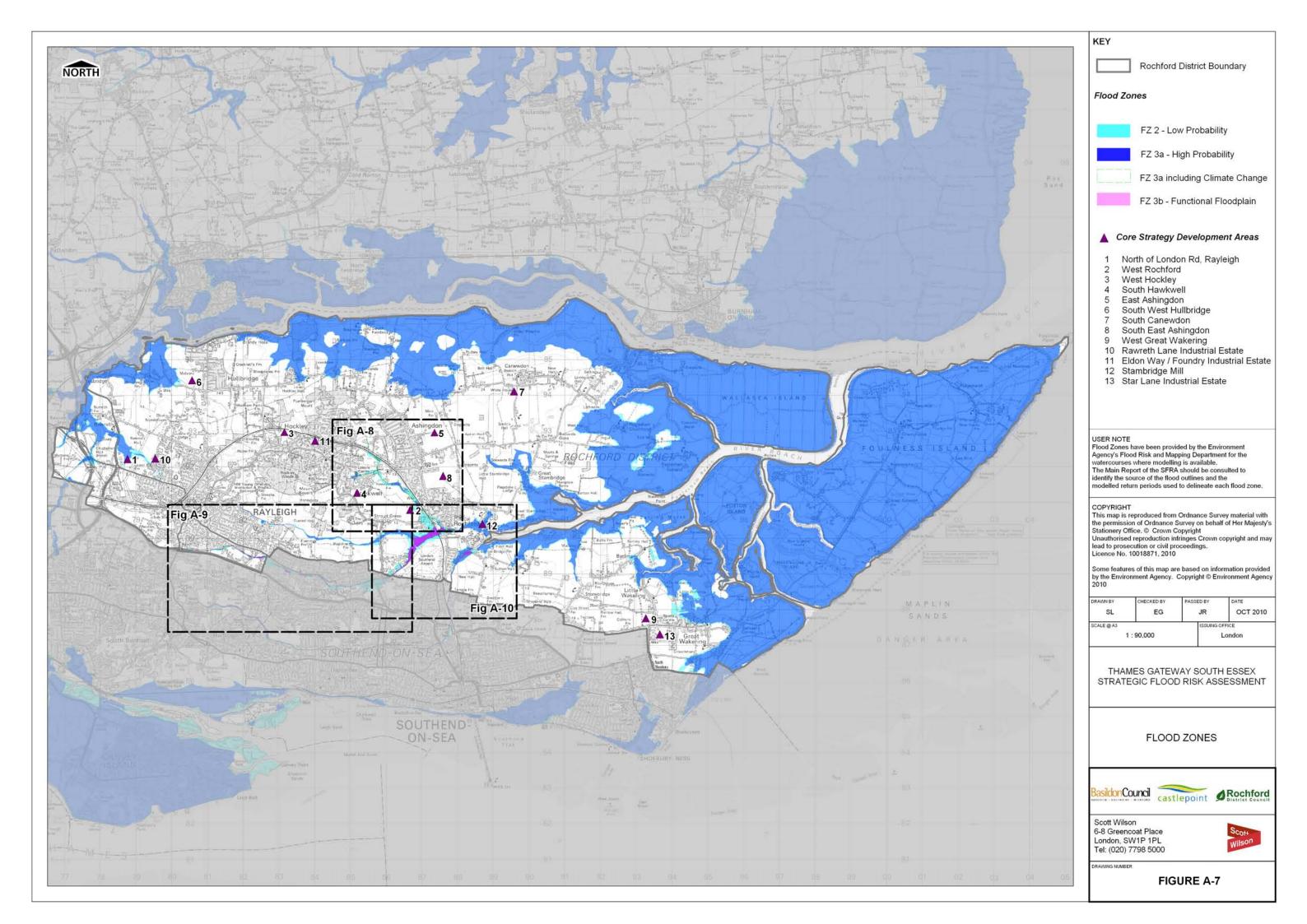


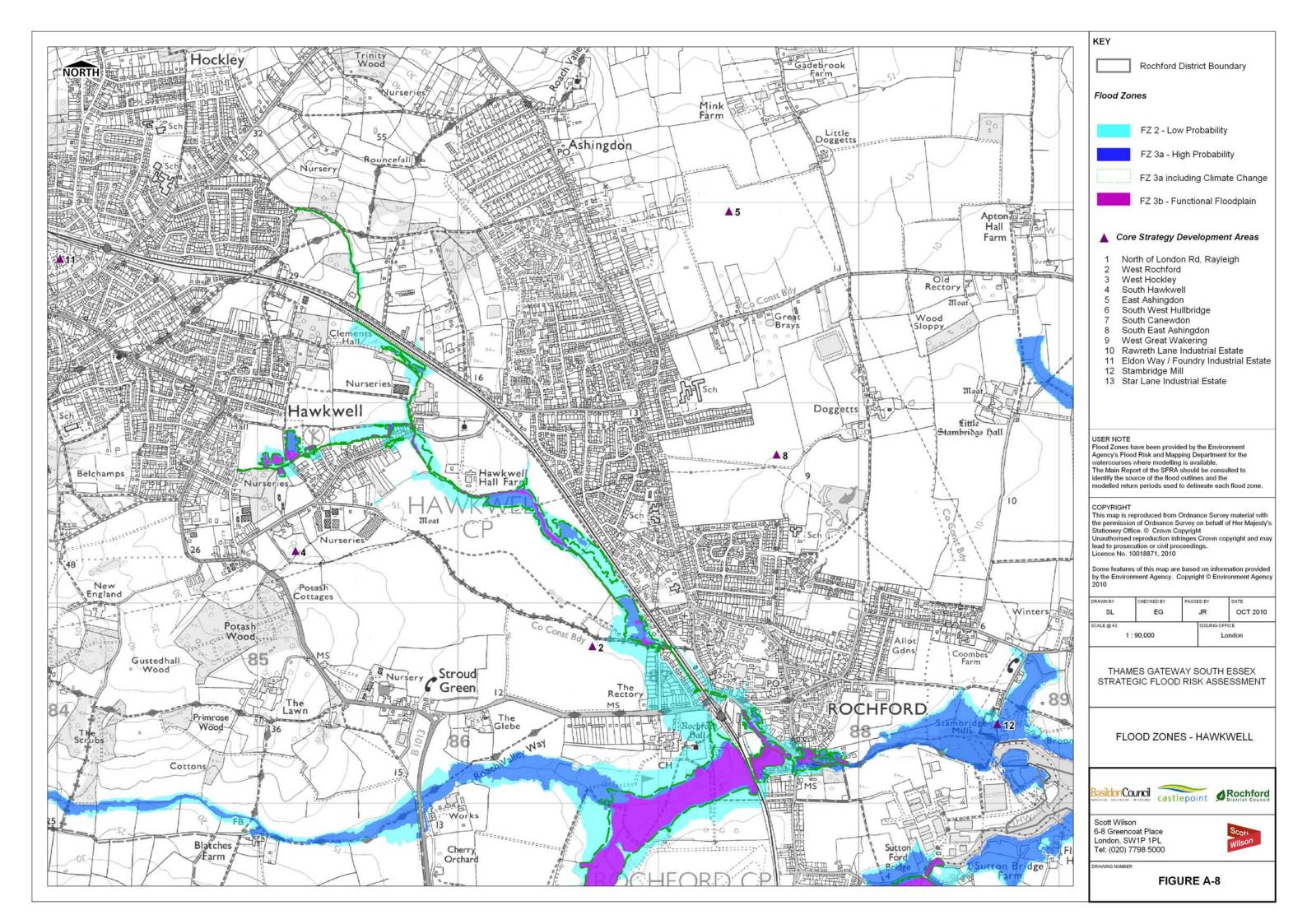


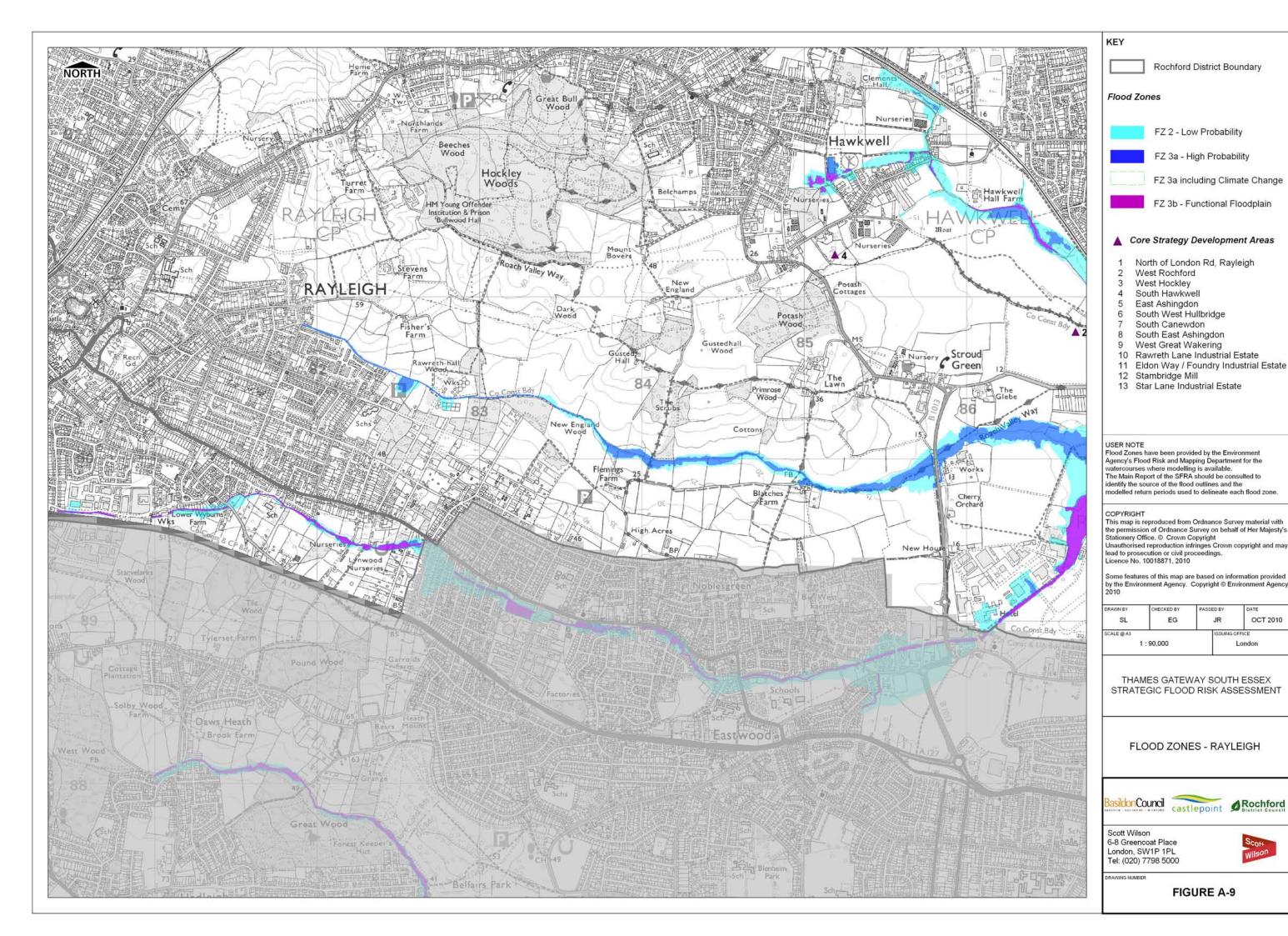


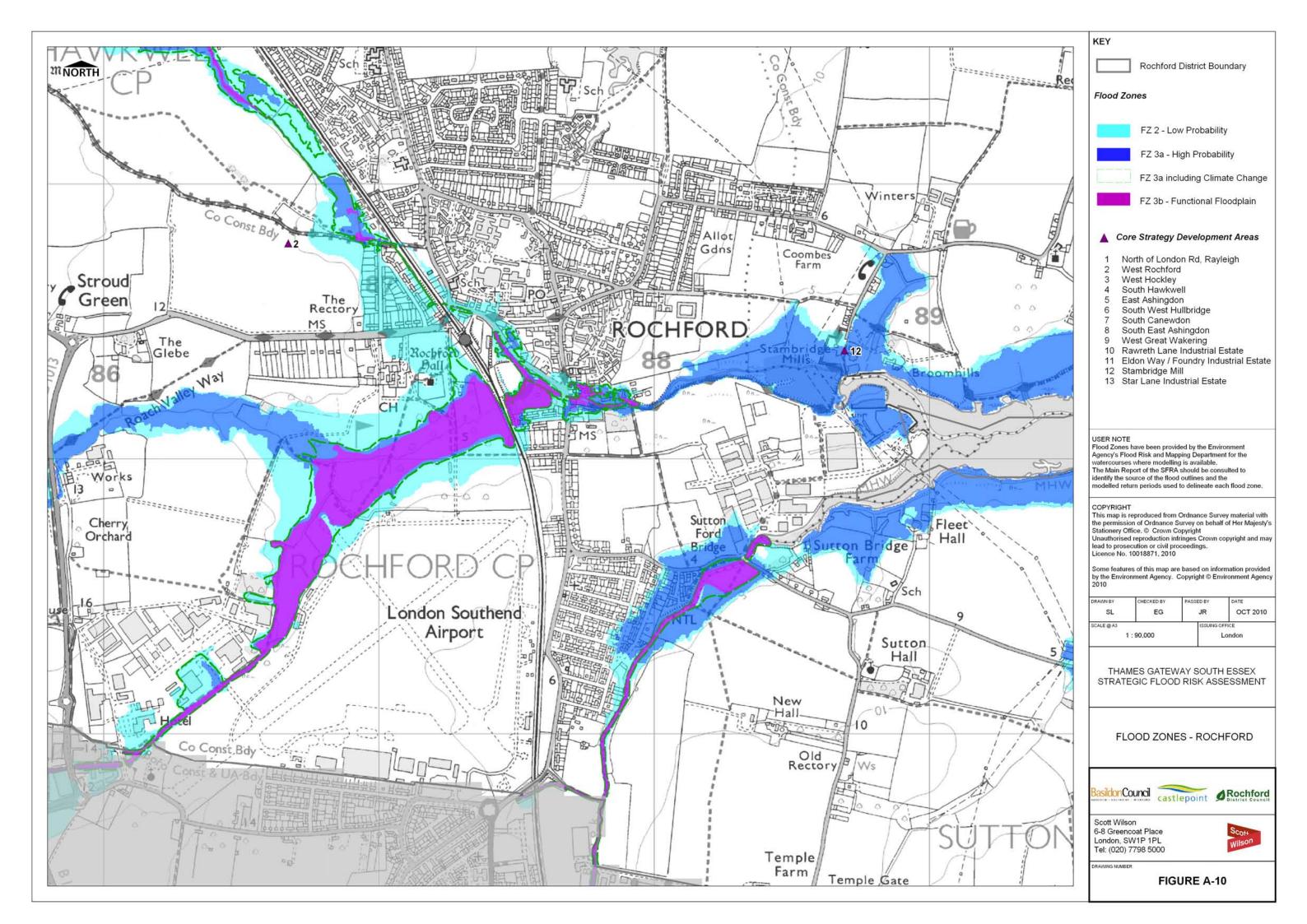


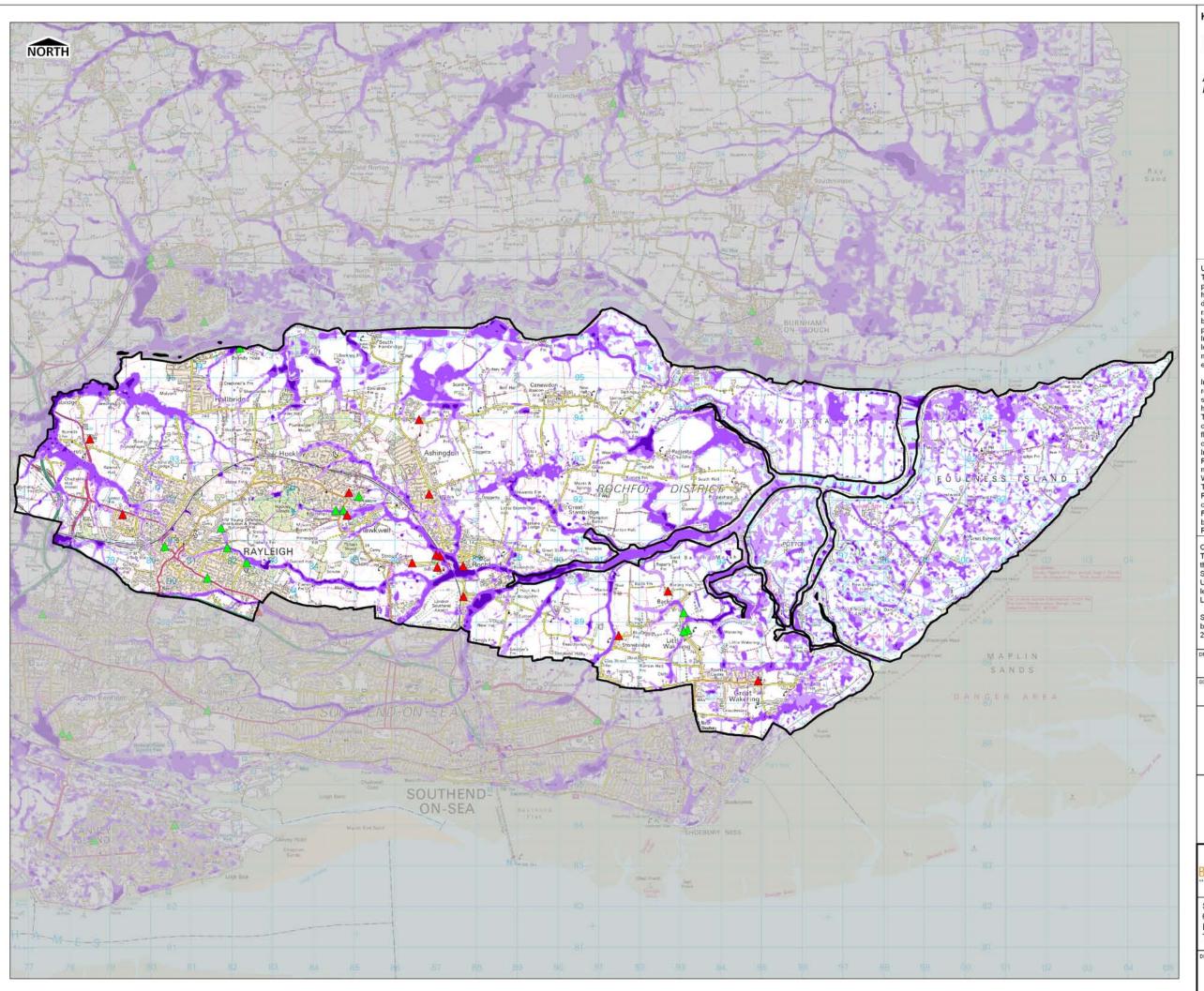


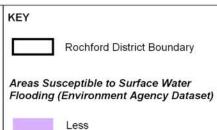












Intermediate

More

Records of Flooding within Rochford DC

Sewer Flooding Records (Anglian Water DG5 Records)

USER NOTE

USER NOTE
The Areas Susceptible to Surface Water Flooding dataset provides national coverage and has been produced using a highly simplified method that excludes urban sewerage and drainage systems, excludes buildings, and uses a single rainfall event. It is noted that this mapping is intended for use by the Local Resilience Forums solely to inform emergency planning and should not be used for spatial planning decisions. In addition, the Environment Agency strongly recommend that local knowledge is applied to assess the suitability of the mapping as an indicator of surface water flooding before emergency planners make decisions based upon it. emergency planners make decisions based upon it.

In line with these recommendations, incidents of flooding recorded by Rochford DC and records of sewer flooding supplied by Anglian Water from their DG5 register have been used to verify the ASTSW dataset.

The surface water flow paths follow the general topography of the area, as shown in Figure A-2, and the predominant flow paths from the modelling correlate with the tributaries of the Rivers Roach and Crouch.

of the Rivers Roach and Crouch.
Incidents of surface water and sewer flooding recorded in
Rochford, Rayleigh and Hawkwell correlate well with the
modelled dataset. In addition, incidents recorded in Little
Wakering also correlate with the modelling.
There are fewer incidents recorded to the north of the River

Roach, which is to be expected given the lower

concentration of urban development in this area.
Further assessment of surface water across the district will be completed as part of the Surface Water Management Plan for the Rochford DC.

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THAMES GATEWAY SOUTH ESSEX STRATEGIC FLOOD RISK ASSESSMENT

AREAS SUSCEPTIBLE TO SURFACE WATER FLOODING







Scott Wilson 6-8 Greencoat Place London, SW1P 1PL Tel: (020) 7798 5000



RAWING NUMBER

FIGURE A-11

