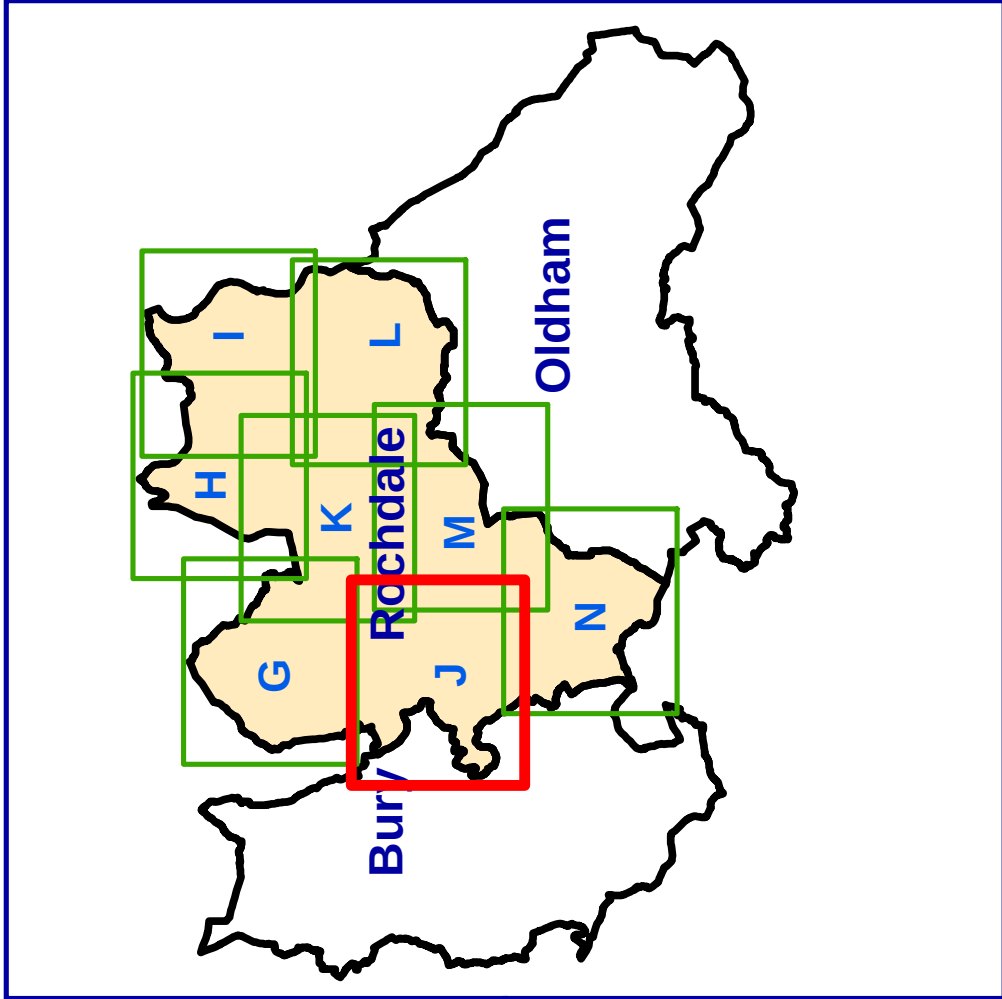
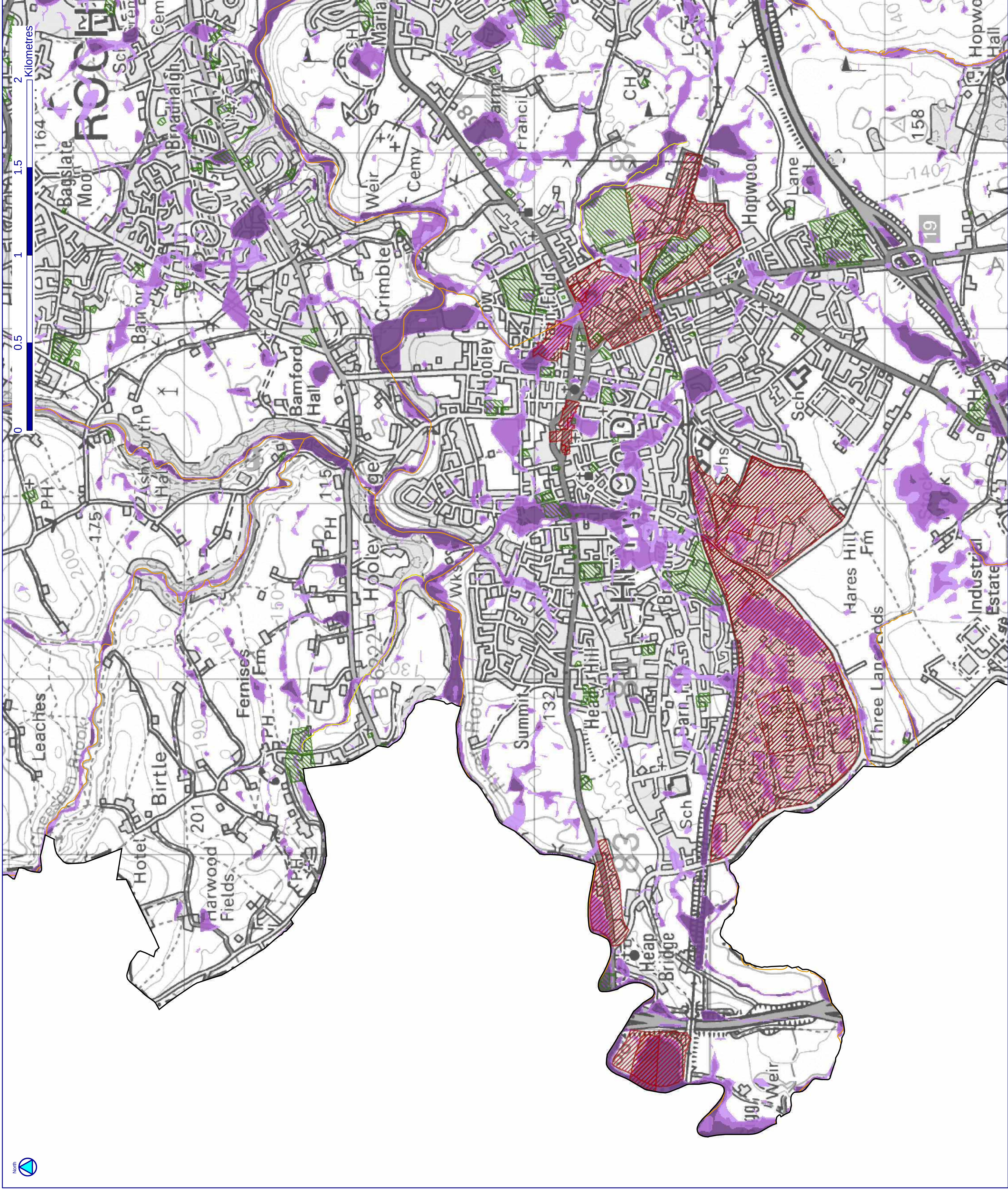




 National Centrelines (v7)
 Ordinary Watercourses
 Residential Sites
 Employment Sites
 High Susceptibility to Surface Water Flooding
 Medium Susceptibility to Surface Water Flooding
 Low Susceptibility to Surface Water Flooding

This plan has been produced in accordance with PPS25: Development and Flood Risk and its Practice Guide.

"Surface water flooding frequently develops quickly and is difficult to predict. It occurs when natural and man-made drainage systems have insufficient capacity to deal with the volume of rainfall. The critical factors for surface water flooding are the volume of rainfall, its intensity, where it falls and the permeability of the surface it falls onto. In urban areas sudden and intense rainfall cannot drain away as quickly as it can in rural areas where vegetation and soil can slow down the process of run-off." PPS26 Practice Guide pg.87

Without detailed sewer models, alternative approaches are required to assess the potential scale and extent of surface water flooding. A 2D modelling software JFLOW has been used to derive the results, which is driven primarily by topography. The model works by evenly distributing a 200 year rainfall event over a digital ground model, which is cell-based. The rainfall inputs convert to flows which flow from higher cells to lower ones. The drainage system is presumed to be at capacity.

The results of the modelling have been divided into the zones; less intermediate and more representing the susceptible of surface water flooding across the local authority area. This map should be used to assess other sources of flooding within Bury Rochdale and Oldham as illustrated within the Sequential Testing Survey process and should be used in conjunction with the PPS25 Flood Zone Map and not as an alternative.


Other offices at: Haverhill, Dorchester, Exmouth, Lymington, Newcastle upon Tyne, Northampton,
Nottingham, Salford, Southampton, Telford, Wakefield & Warrington

**Bury, Rochdale & Oldham
Strategic Flood Risk Assessment**

Rochdale: Surface Water Flooding

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drawn by: P Grace	checked by: C Shierwood	approved by: H O Callaghan	Date: 10-Aug-2009		
File Name: ArcView\MapInfo\Rocheile_SWF_Map.mxd				Status: FINAL	
Drawing Number: Map 1.4 J (Rocheile)					