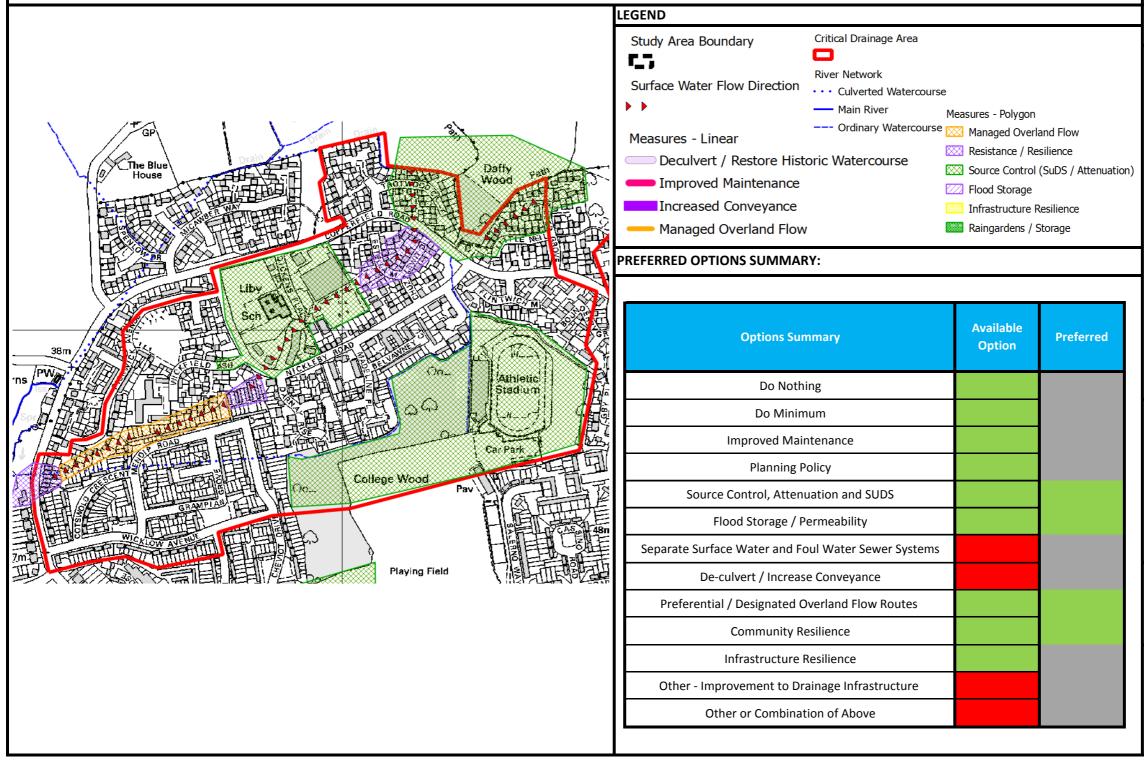
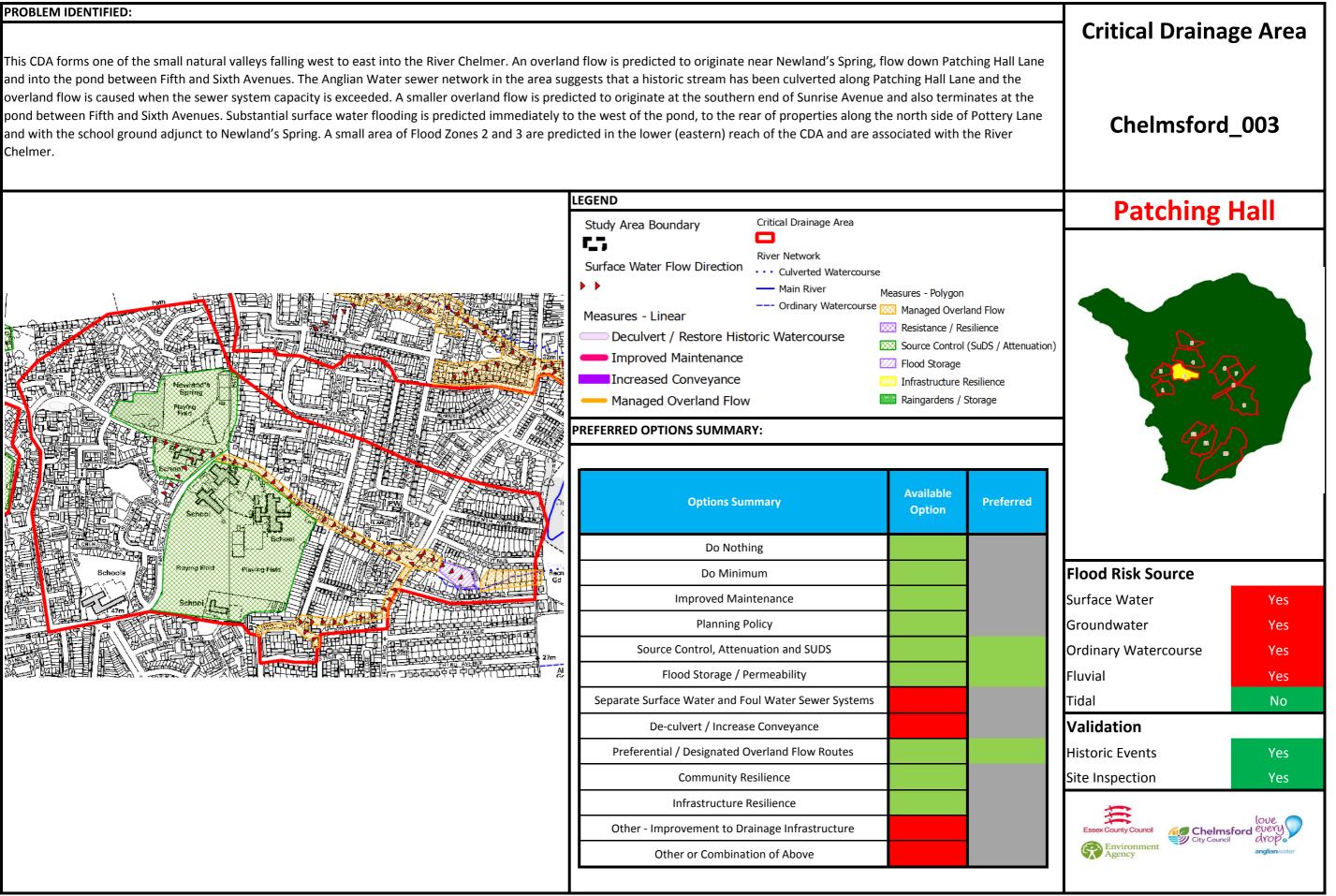


### PROBLEM IDENTIFIED:

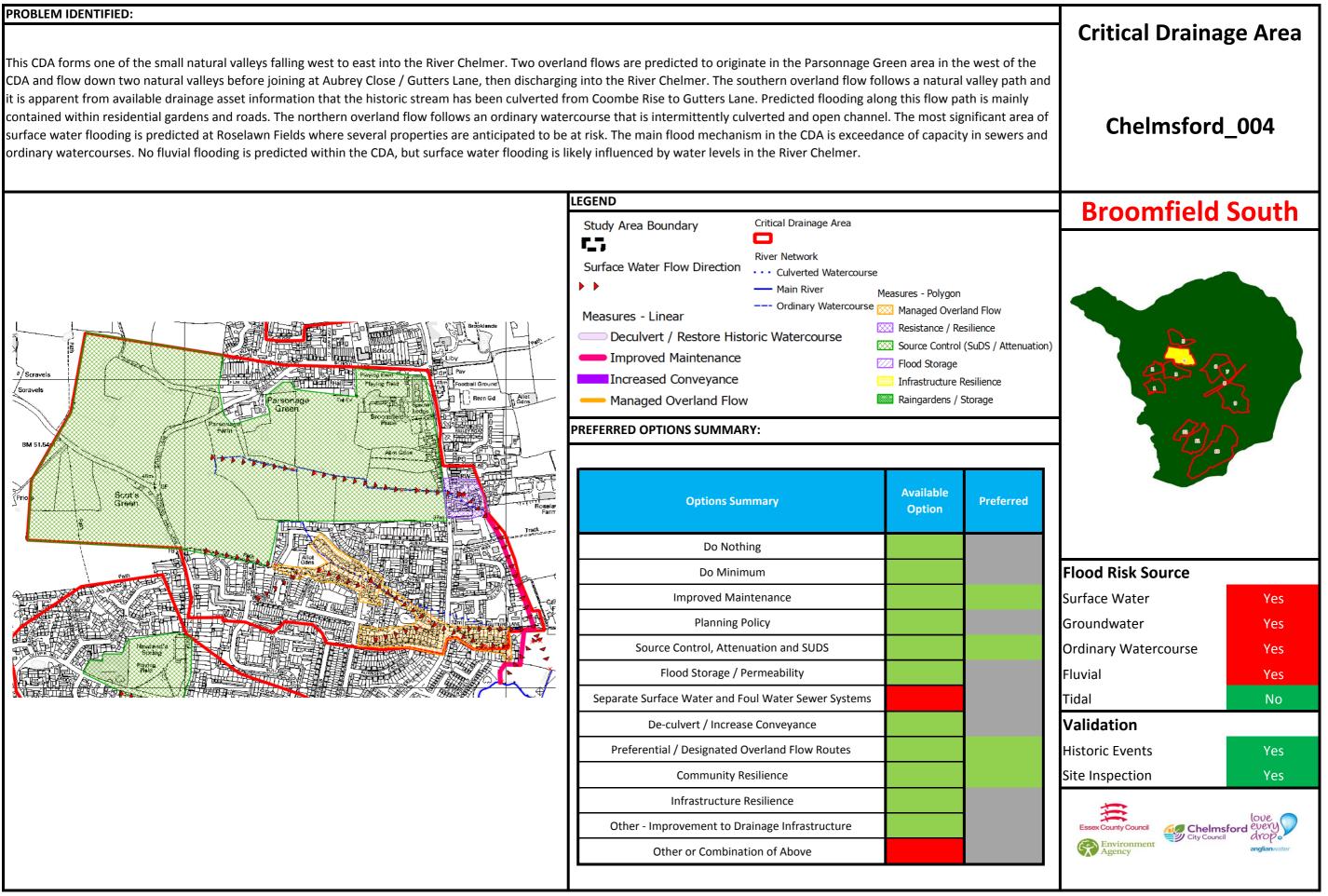
The CDA sits in the northern part of the St Andrews Ward. A significant overland flow is predicted to form through the centre of the CDA. It originates near Daffy Wood, flows through the residential area and joins the One Bridge Brook to the south of Brickbarns Farm. The overland flow is predicted to mainly impact residential gardens and some sections of road, but the flow is predicted to flow through approximately six residential blocks between Nickelby Road and Mendip Road. Predicted flooding at the western edge of the CDA may also be exacerbated by a culverted watercourse originating near College Wood. No significant main river flooding is shown within the CDA, but this may be due to the fact that the adjacent tributary of the One Bridge Book has not been included in recent EA modelling.



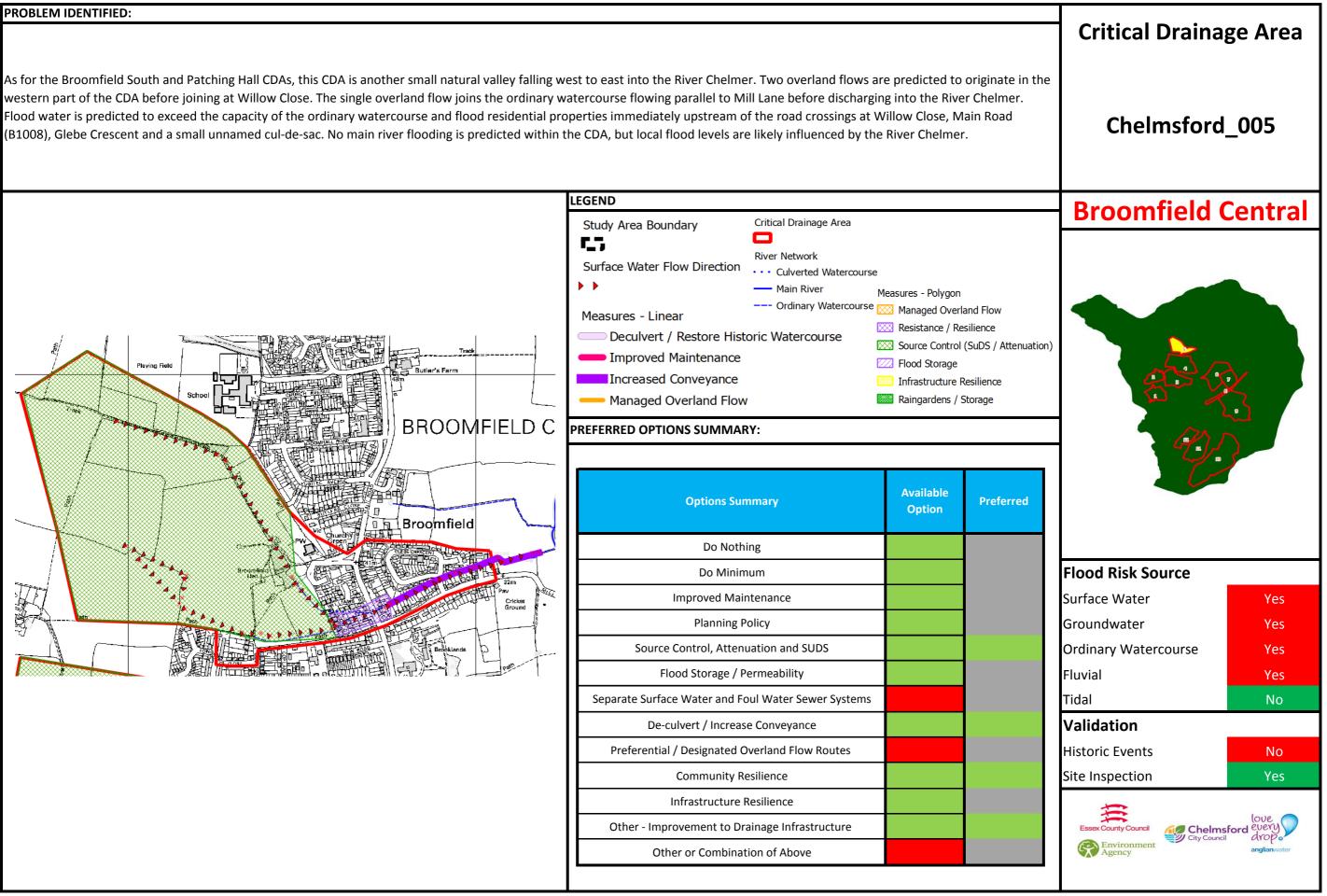
Critical Drainage Area	
Chelmsford_002	
St Andrews - North	
Flood Risk Source	
Flood Risk Source Surface Water	Yes
	Yes Yes
Surface Water	
Surface Water Groundwater	Yes
Surface Water Groundwater Ordinary Watercourse	Yes Yes
Surface Water Groundwater Ordinary Watercourse Fluvial	Yes Yes No
Surface Water Groundwater Ordinary Watercourse Fluvial Tidal	Yes Yes No
Surface Water Groundwater Ordinary Watercourse Fluvial Tidal <b>Validation</b>	Yes Yes No No



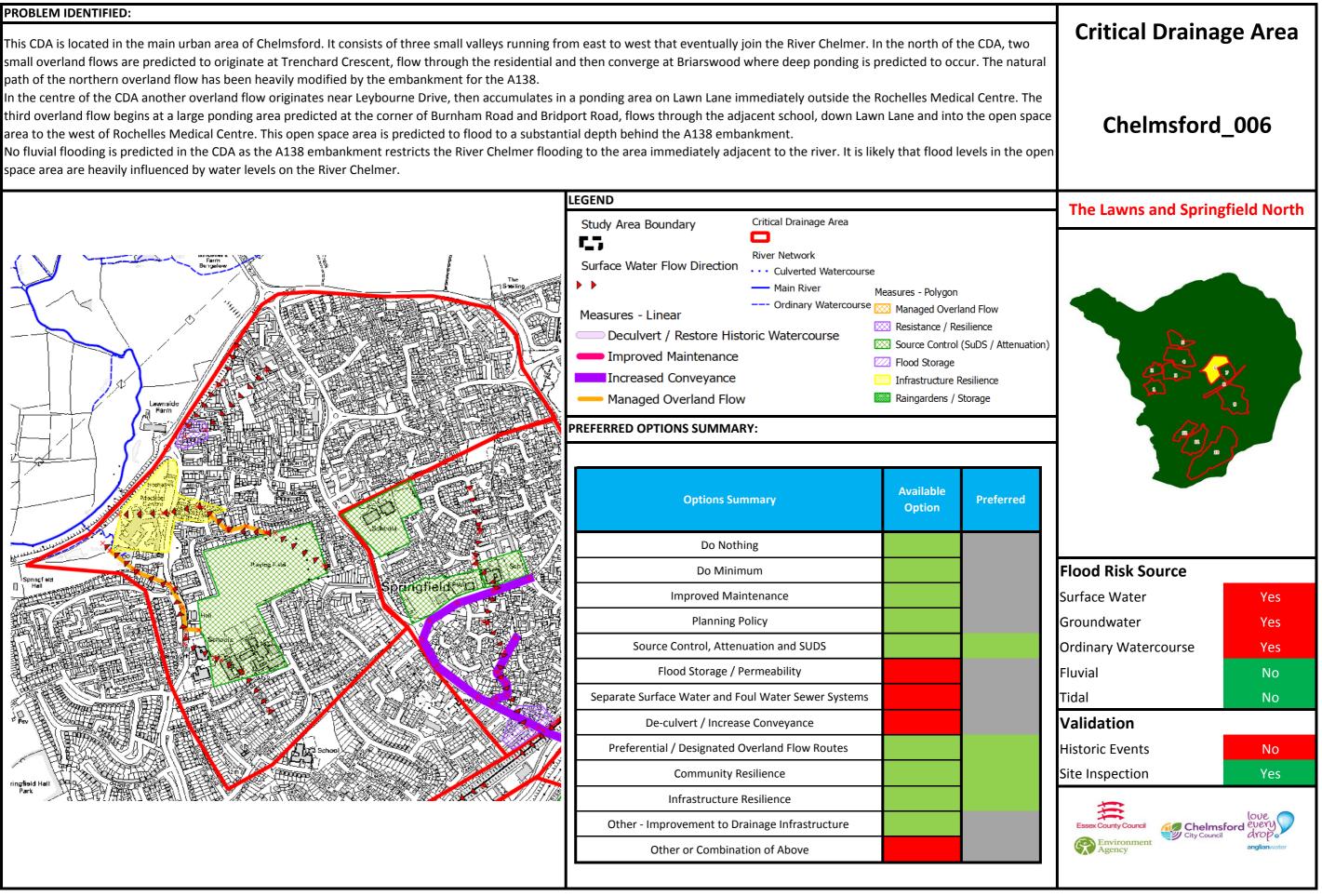
it is apparent from available drainage asset information that the historic stream has been culverted from Coombe Rise to Gutters Lane. Predicted flooding along this flow path is mainly surface water flooding is predicted at Roselawn Fields where several properties are anticipated to be at risk. The main flood mechanism in the CDA is exceedance of capacity in sewers and



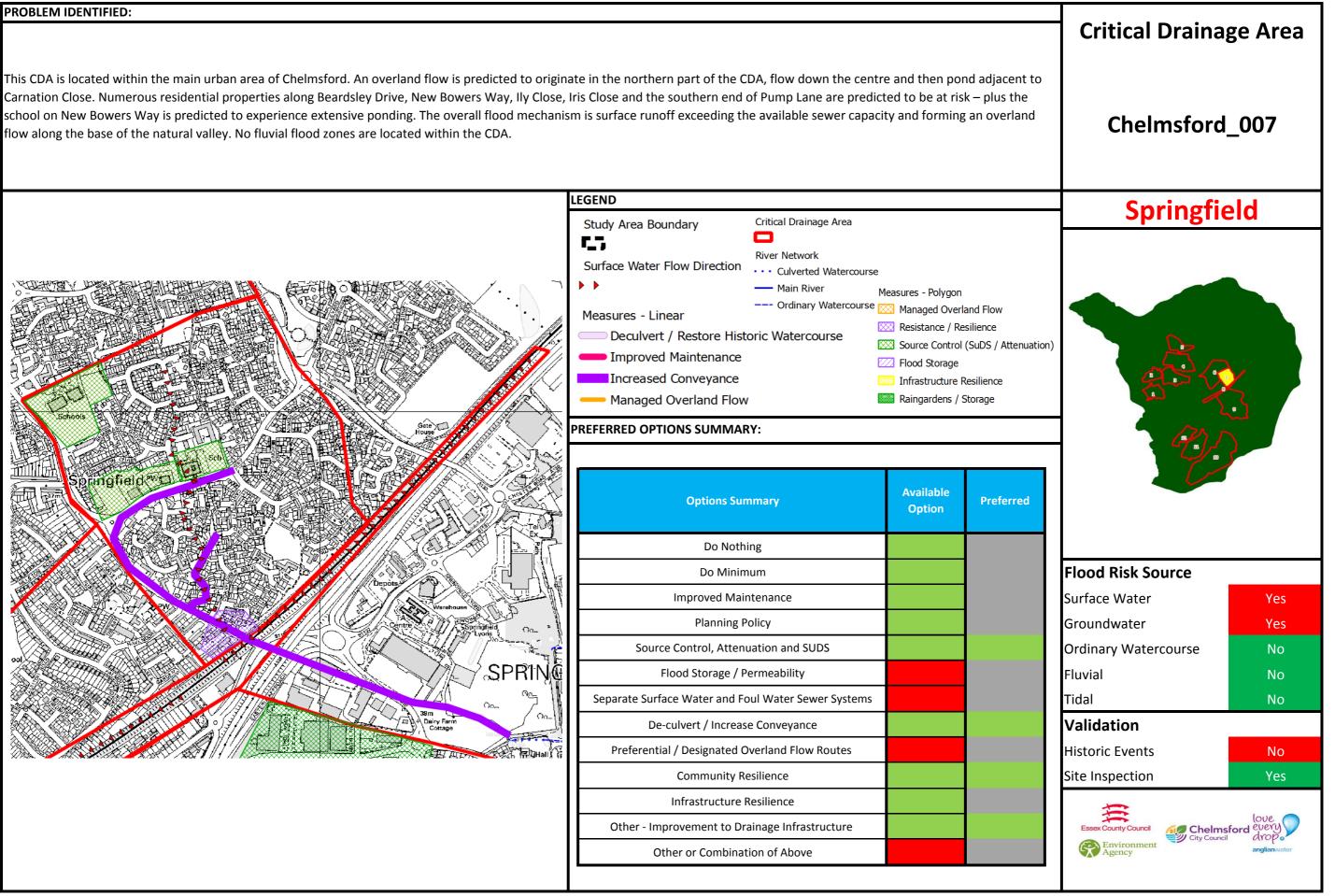
western part of the CDA before joining at Willow Close. The single overland flow joins the ordinary watercourse flowing parallel to Mill Lane before discharging into the River Chelmer.



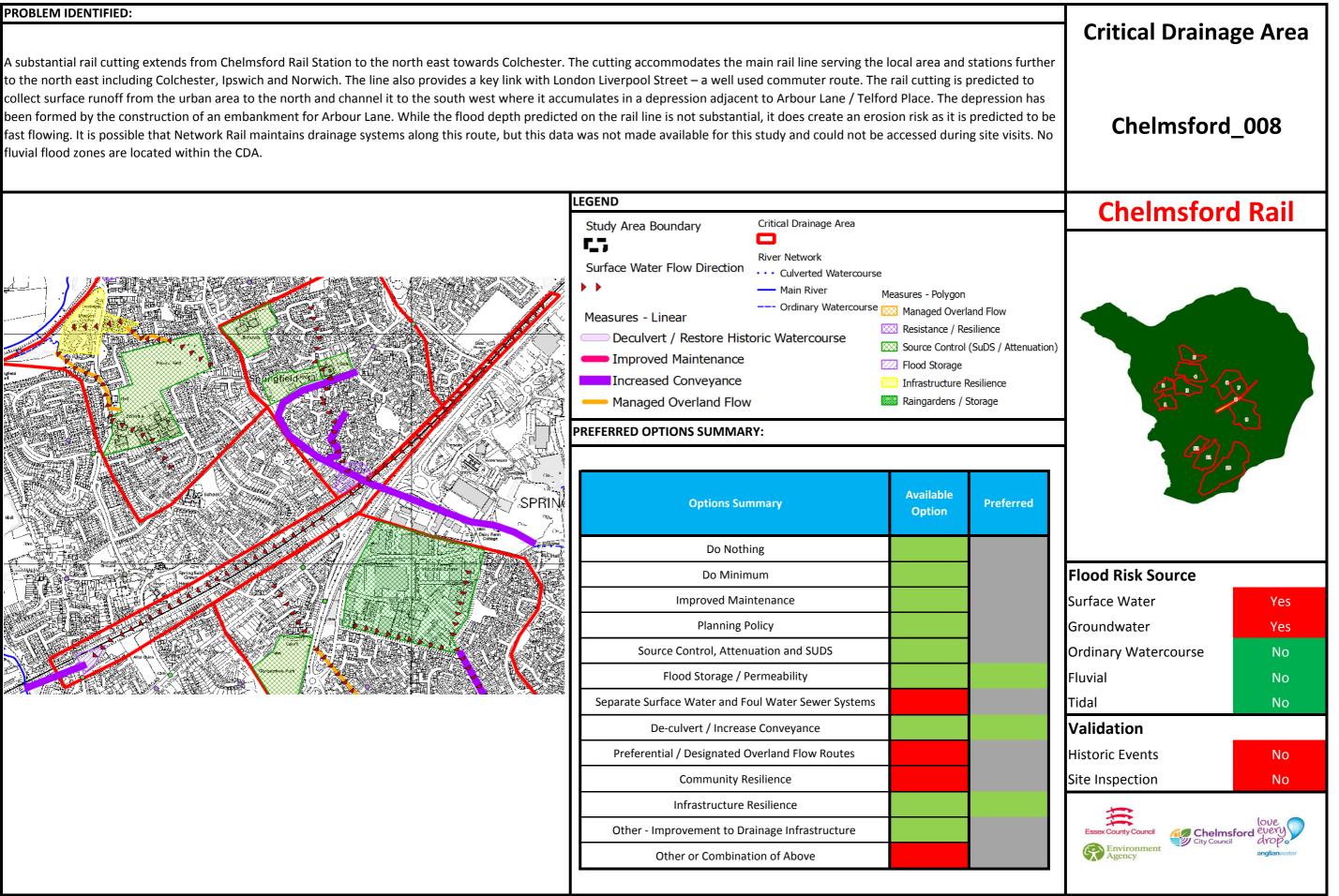
small overland flows are predicted to originate at Trenchard Crescent, flow through the residential and then converge at Briarswood where deep ponding is predicted to occur. The natural



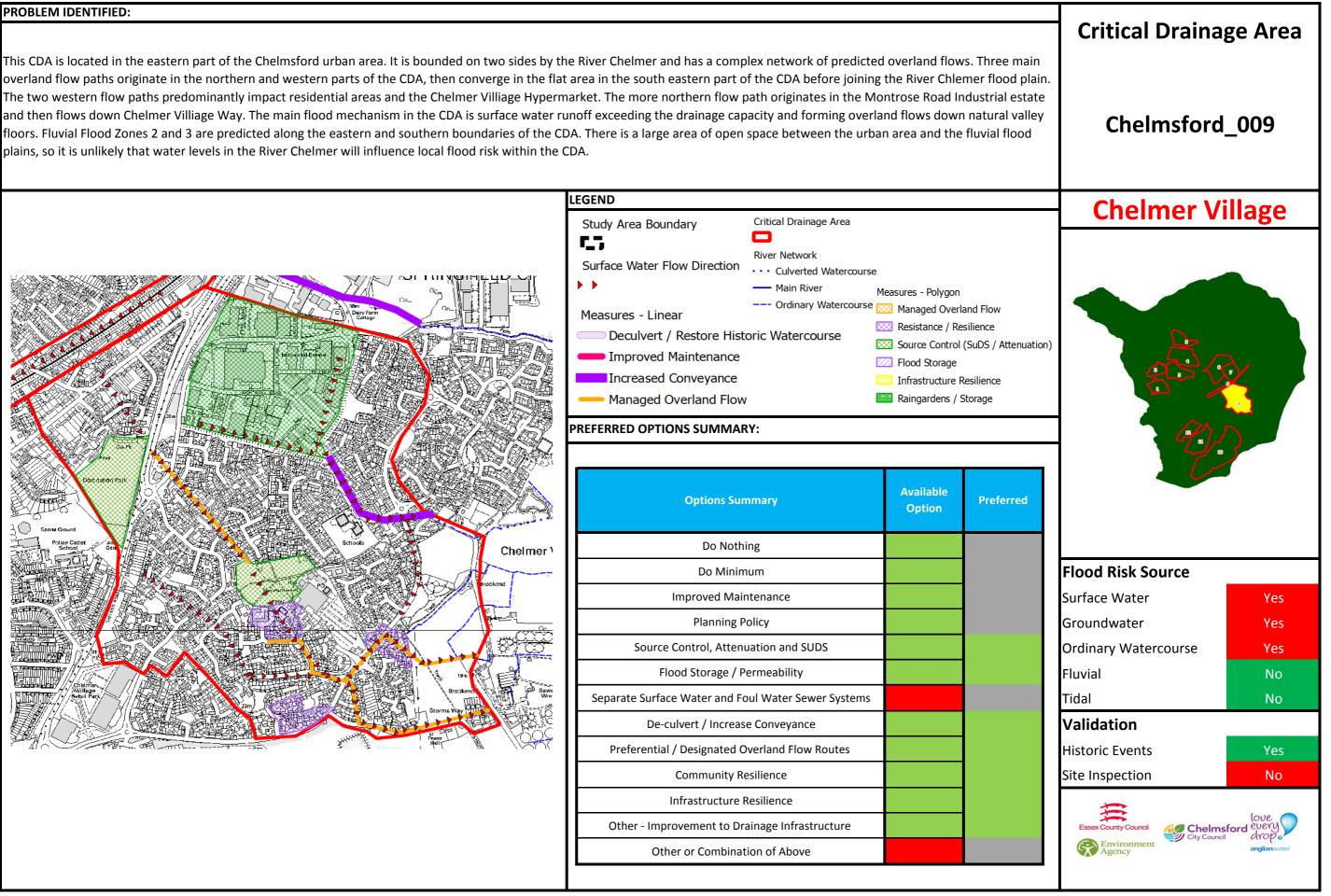
This CDA is located within the main urban area of Chelmsford. An overland flow is predicted to originate in the northern part of the CDA, flow down the centre and then pond adjacent to Carnation Close. Numerous residential properties along Beardsley Drive, New Bowers Way, Ily Close, Iris Close and the southern end of Pump Lane are predicted to be at risk – plus the school on New Bowers Way is predicted to experience extensive ponding. The overall flood mechanism is surface runoff exceeding the available sewer capacity and forming an overland flow along the base of the natural valley. No fluvial flood zones are located within the CDA.



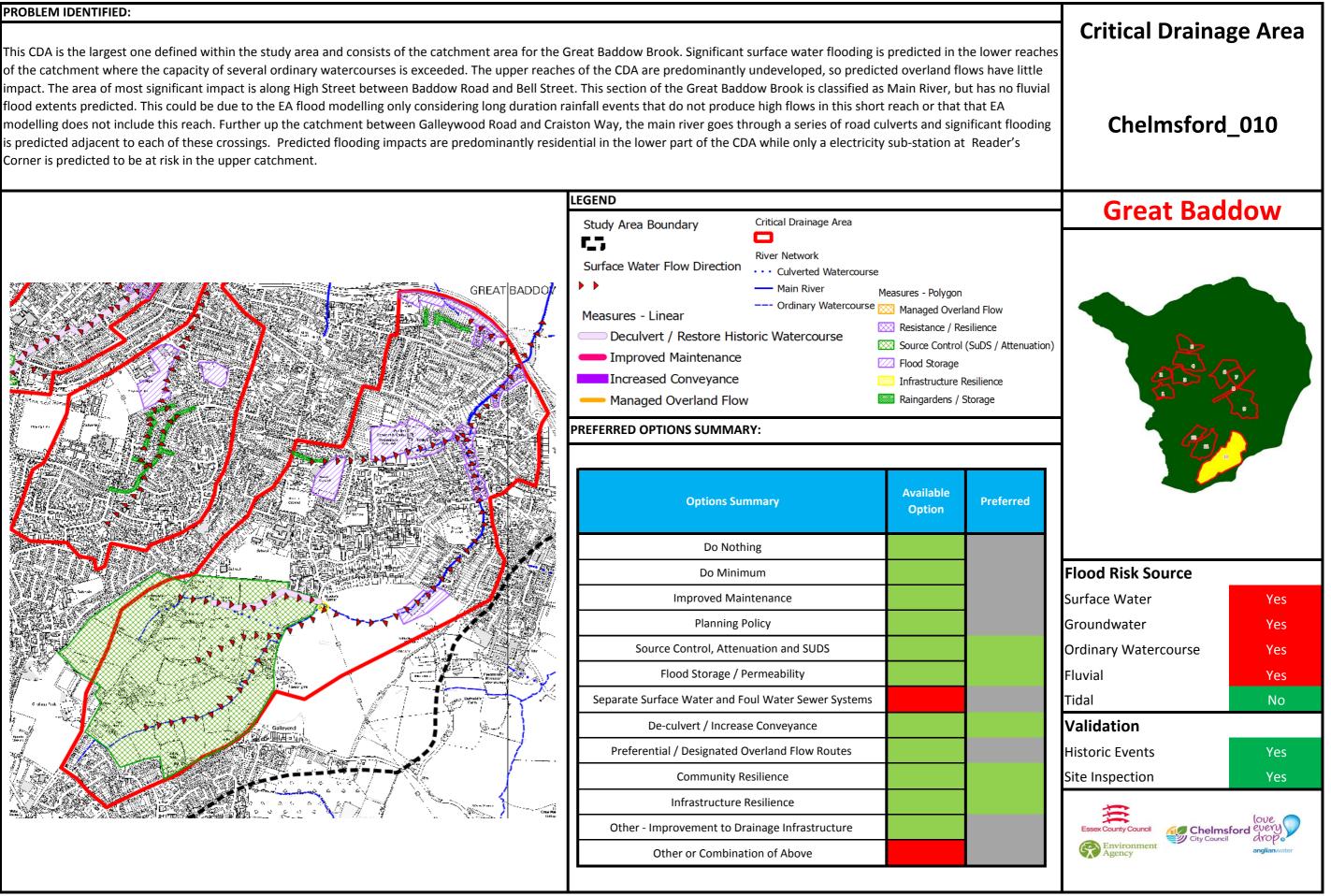
collect surface runoff from the urban area to the north and channel it to the south west where it accumulates in a depression adjacent to Arbour Lane / Telford Place. The depression has fast flowing. It is possible that Network Rail maintains drainage systems along this route, but this data was not made available for this study and could not be accessed during site visits. No



overland flow paths originate in the northern and western parts of the CDA, then converge in the flat area in the south eastern part of the CDA before joining the River Chlemer flood plain. The two western flow paths predominantly impact residential areas and the Chelmer Villiage Hypermarket. The more northern flow path originates in the Montrose Road Industrial estate and then flows down Chelmer Villiage Way. The main flood mechanism in the CDA is surface water runoff exceeding the drainage capacity and forming overland flows down natural valley floors. Fluvial Flood Zones 2 and 3 are predicted along the eastern and southern boundaries of the CDA. There is a large area of open space between the urban area and the fluvial flood plains, so it is unlikely that water levels in the River Chelmer will influence local flood risk within the CDA.



of the catchment where the capacity of several ordinary watercourses is exceeded. The upper reaches of the CDA are predominantly undeveloped, so predicted overland flows have little impact. The area of most significant impact is along High Street between Baddow Road and Bell Street. This section of the Great Baddow Brook is classified as Main River, but has no fluvial flood extents predicted. This could be due to the EA flood modelling only considering long duration rainfall events that do not produce high flows in this short reach or that that EA modelling does not include this reach. Further up the catchment between Galleywood Road and Craiston Way, the main river goes through a series of road culverts and significant flooding is predicted adjacent to each of these crossings. Predicted flooding impacts are predominantly residential in the lower part of the CDA while only a electricity sub-station at Reader's Corner is predicted to be at risk in the upper catchment.



exceeds the capacity of the drainage network. Surface water flood is predicted to impact residential properties along Lime Walk, Gloucester Avenue, Crossways, St Anthony's Drive,

