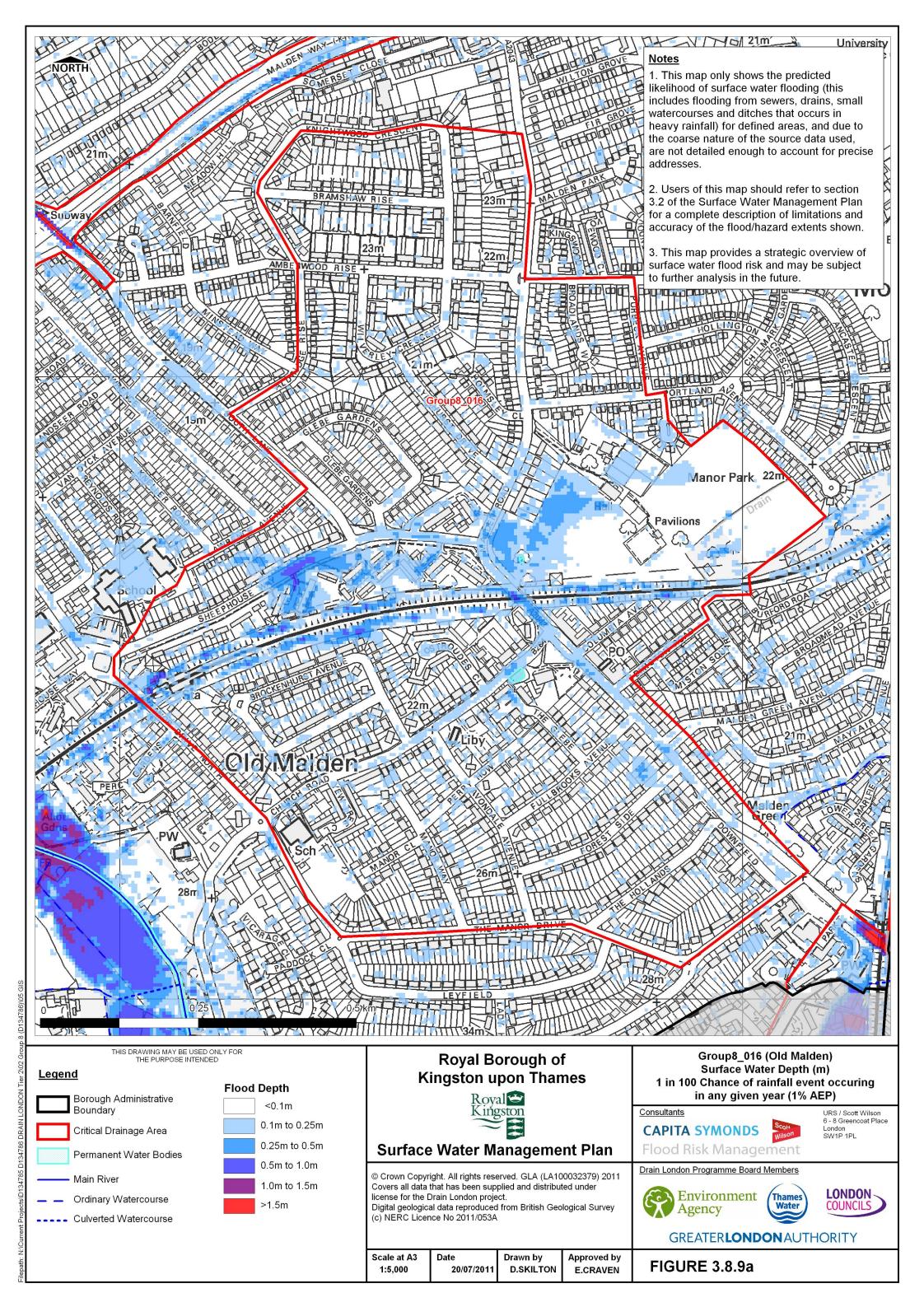
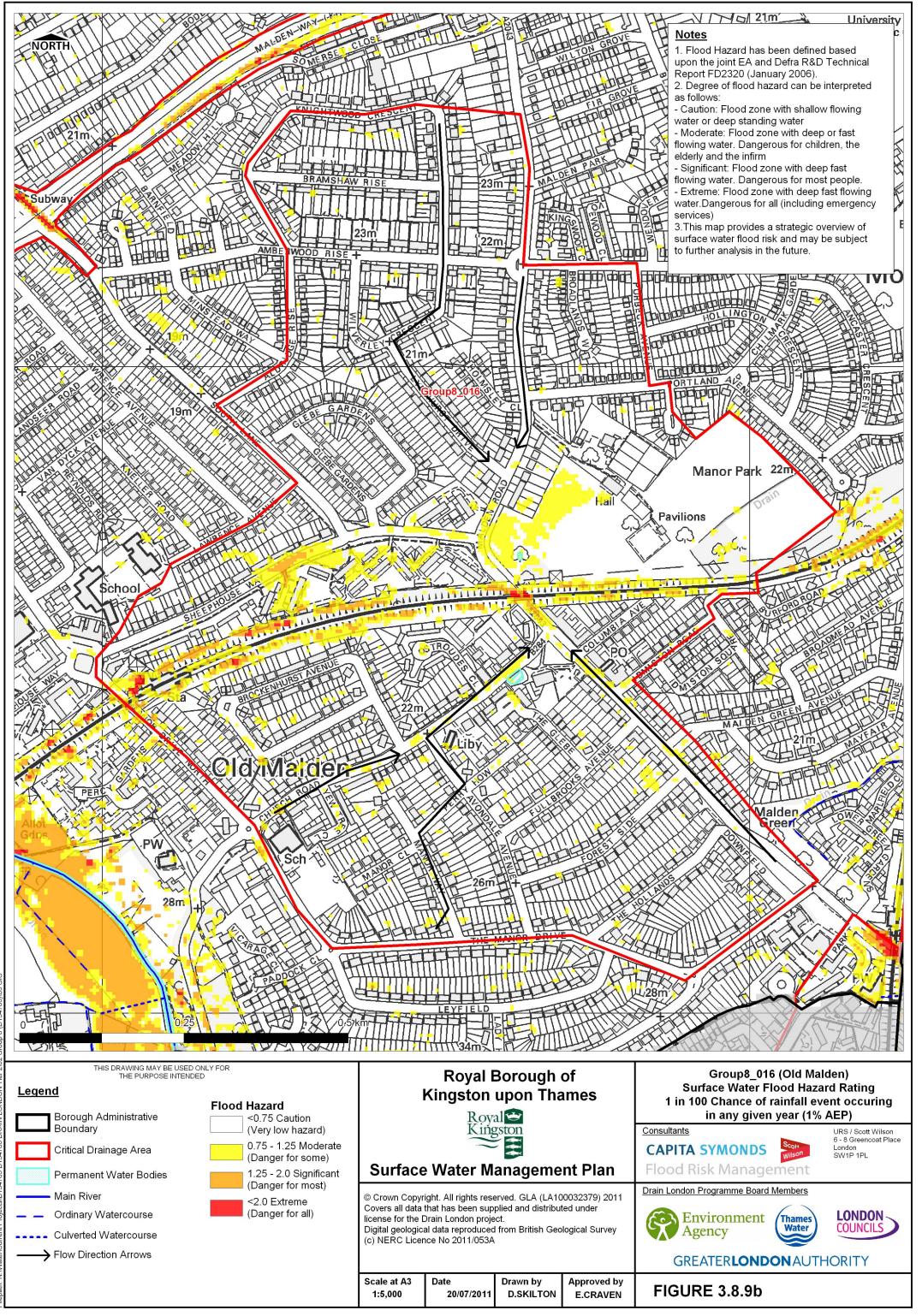


CDA 016 OLD MALDEN

- 3.8.28 CDA-016 is located in the east of the Borough. Surface water flows from the north and south towards the centre of this CDA where flooding is shown along Sheephouse Way and Malden Road, with peak depths experienced at the rail bridge crossing. A large extent of flooding within this CDA is contained within Manor Park.
- 3.8.29 Thames Water DG5 records identify the CDA as being located within a post code boundary with 1-5 records of sewer flooding (Figure D-5).
- 3.8.30 The CDA is not identified as being at risk of groundwater flooding, and the Environment Agency has no records of groundwater flooding at this location (Figure 3).

Summary Table – CDA 016 Old Malden		
LLFA	Royal Borough of Kingston upon Thames	
Flood Risk	Surface water, sewer flooding	
Categorisation:		
Property Count	Approximately 539 non • 0 non deprived households	
1% AEP	deprived households are are identified to be at risk of	
	identified to be at risk of flooding flooding to a depth > 0.5m.	
	to a depth > 0.03m • 0 non deprived households	
	• 0 non deprived households with basements are identified	
	with basements are identified to be at risk of flooding to a	
	to be at risk of flooding to a depth >0.5m	
	depth > 0.03m	
	There are no deprived households identified as being at risk within the	
	CDA	
Critical	There are no pieces of critical infrastructure identified within this CDA	
Infrastructure		
Validation	The Council do not have any records of surface water flooding at this	
	location.	
Figures	Figure 3.8.9a – Surface Water Depth (1% AEP)	
	Figure 3.8.9b – Surface Water Flood Hazard (1% AEP)	



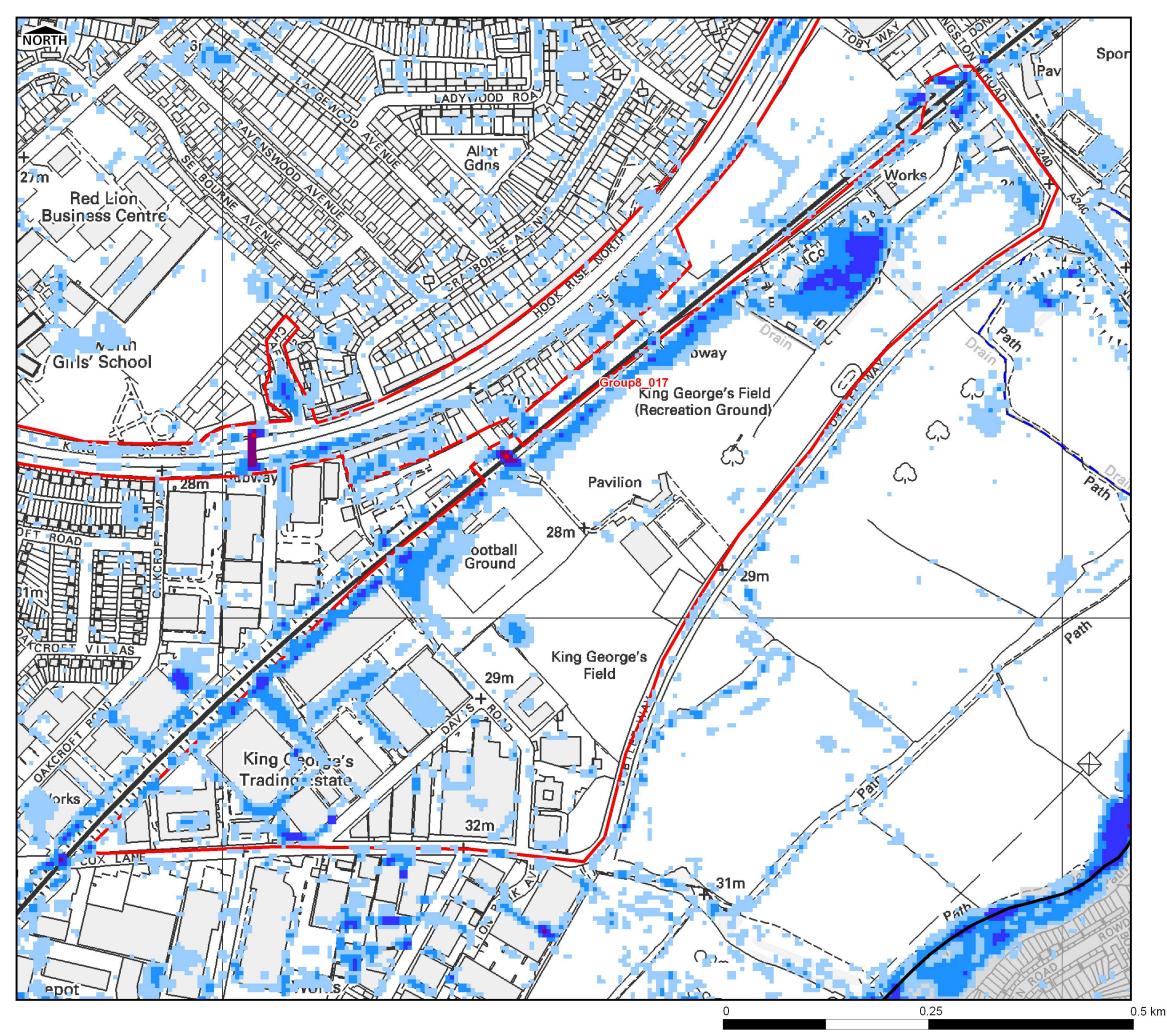




CDA 017 KING GEORGE'S TRADING ESTATE

- 3.8.31 This CDA is located towards the south of the Borough and contains the King George Trading Estate. Surface water from the Trading Estate flows in a north westerly direction and pluvial modelling has identified pooling behind the rail embankment. The Bus Depot located on Kingston Road is shown to be located within a LFRZ.
- 3.8.32 The Borough does not have any records of flooding at this location and the CDA is not identified as an area prone to flooding by Network Rail. The surface water drainage network within the Trading Estate is privately owned and maintained, connecting to Thames Water's network in Cox Lane.
- 3.8.33 The CDA is identified as being at risk of elevated groundwater levels, however the Environment Agency do not have any records of groundwater flooding at this location. Thames Water DG5 records show 11-20 records of sewer flooding in the local post code area.

Summary Table -	Summary Table – CDA 017 King Georges Trading Estate		
LLFA	Royal Borough of Kingston upon Thames		
Flood Risk	Surface water, sewer flooding		
Categorisation:			
Property Count	• 1 non deprived households	• 0 non deprived households	
1% AEP	are identified to be at risk of	are identified to be at risk of	
	flooding to a depth > 0.03m	flooding to a depth > 0.5m.	
	• 0 non deprived households	• 0 non deprived households	
	with basements are identified	with basements are identified	
	to be at risk of flooding to a	to be at risk of flooding to a	
	depth > 0.03m	depth >0.5m	
	There are no deprived households	identified as being at risk within the	
	CDA		
Critical	There are no pieces of critical infrastructure located within this CDA		
Infrastructure			
Validation	The Council do not have any records of flooding at this location		
Assumptions /	The low property count reflects that this CDA contains light industrial		
Comments	uses rather than residential property.		
Figures	Figure 3.8.10a – Surface Water Depth (1% AEP)		
	Figure 3.8.10b – Surface Water Flood Hazard (1% AEP)		



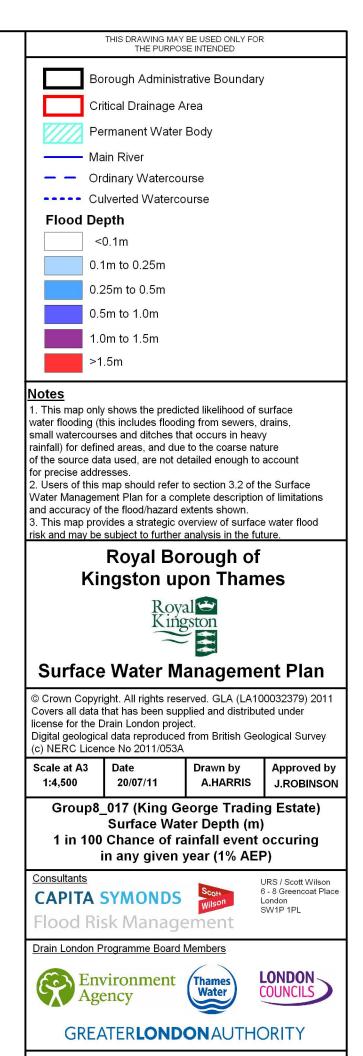
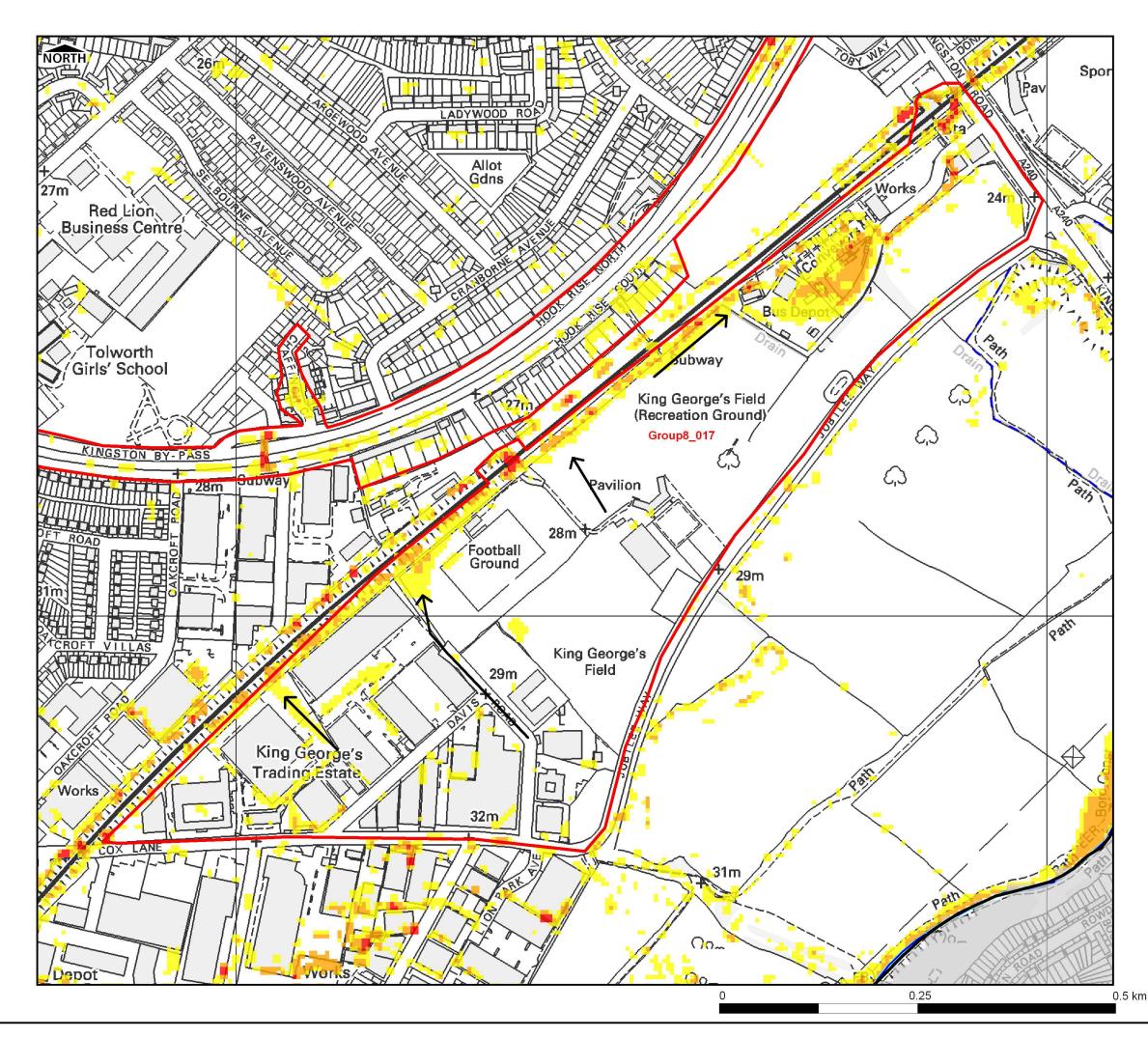


FIGURE 3.8.10a



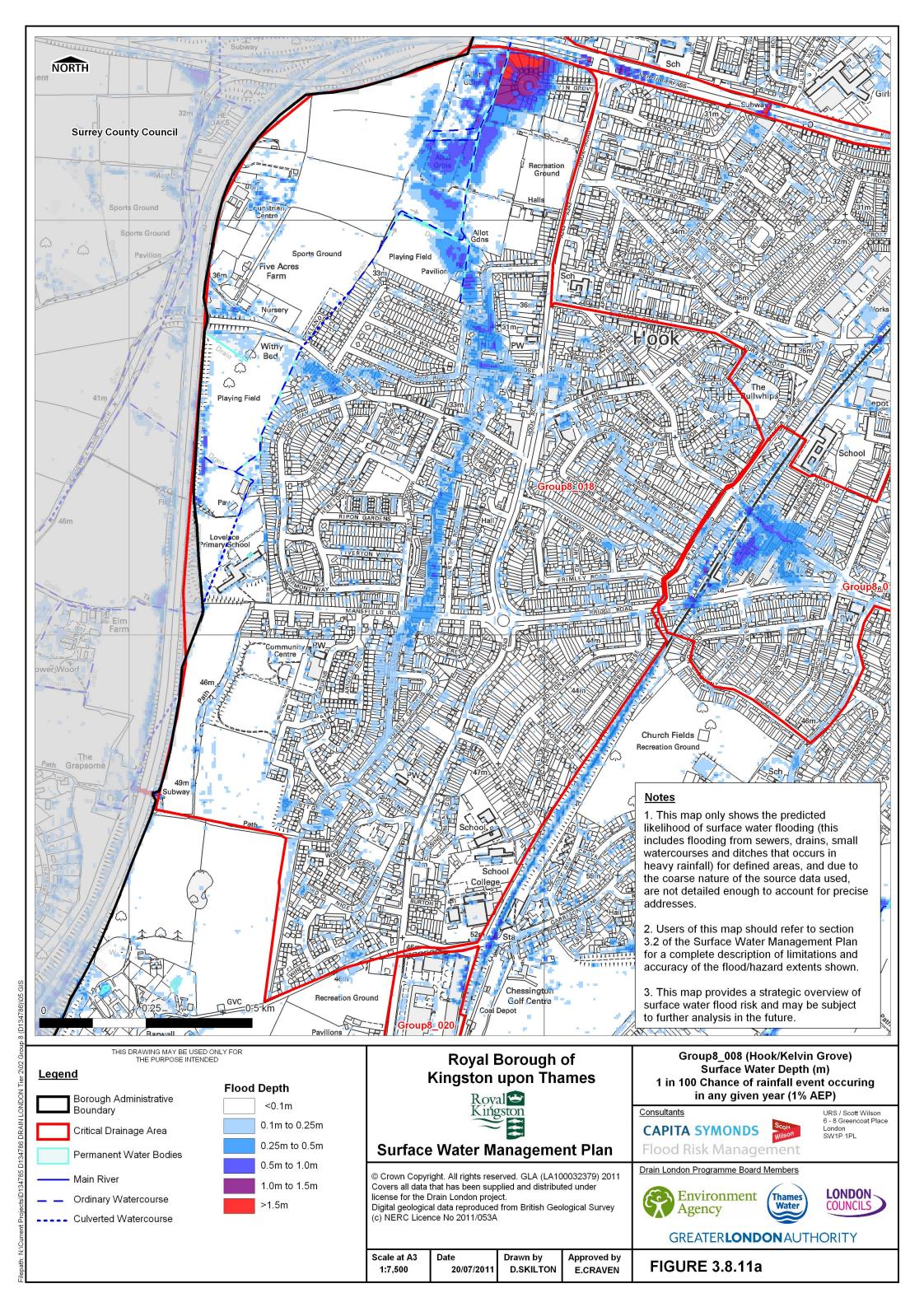


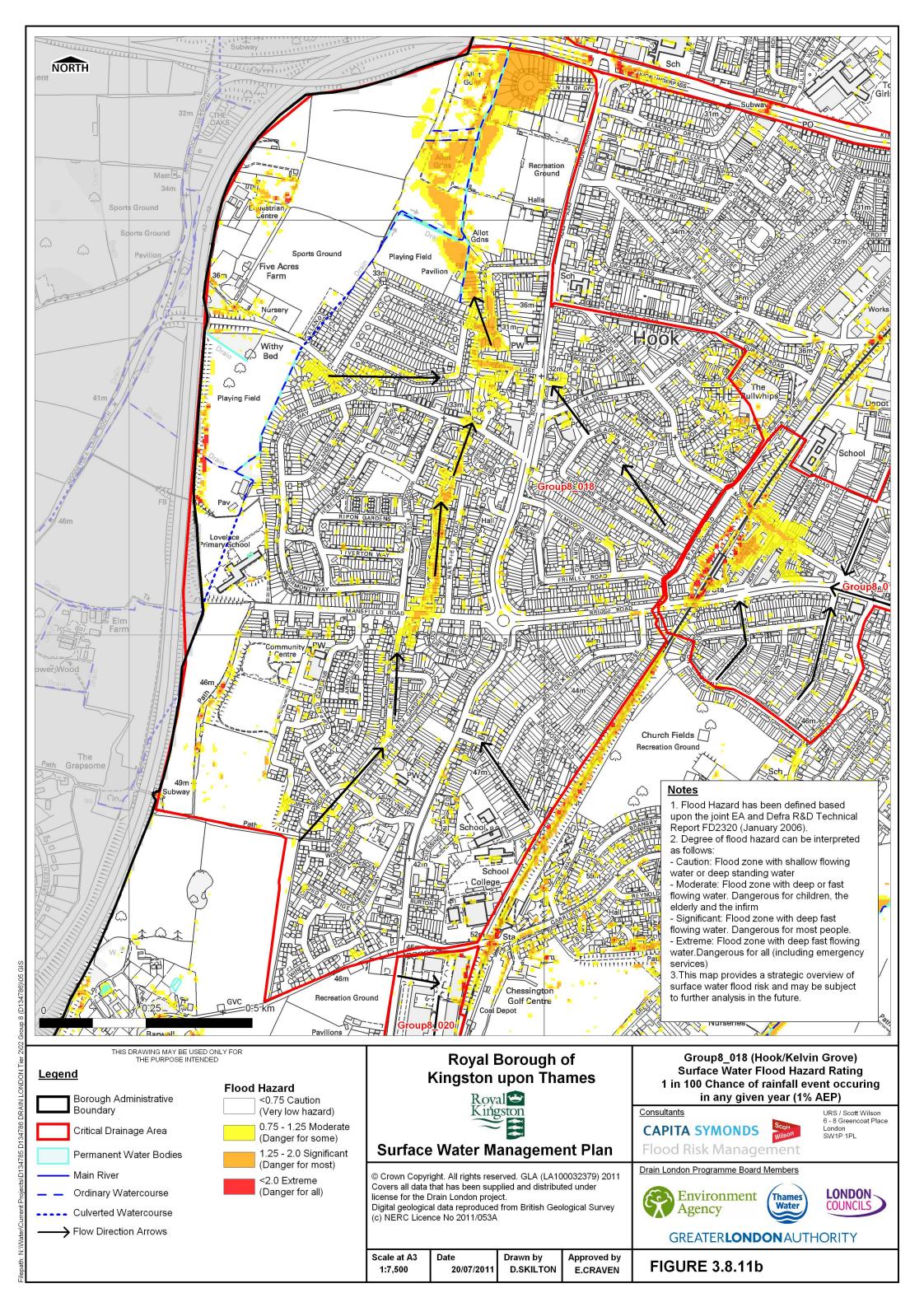


CDA 018 HOOK KELVIN GROVE

- 3.8.34 This CDA is located in the south west of the Borough, within the upper catchment of the Surbiton Stream. The north of the CDA including part of Kelvin Grove is located within the Environment Agency Flood Zone 3 outline. Pluvial modelling has also identified three overland flow paths leading towards drainage channels in the playing fields located to the north. These include Sussex Gardens/Hartfield Road to the south, Clayton and Selwood Road to the west and Moorfield/Elm Road to the east.
- 3.8.35 The Royal Borough of Kingston upon Thames do not have any records of flooding at this location, however it is known to be situated at a topographical low point. Historical records show existence of a drainage ditch shown to be located within the LFRZ. Thames Water records show a CSO outfall to the Surbiton Stream within the southern extent of the CDA at Barwell Court. The Royal Borough of Kingston upon Thames is aware of flooding problems in fields near to Woodall Close where there is a grate and culvert feature in the vicinity of the Thames Water CSO outfall. Thames Water DG5 records show 11-20 records of sewer flooding in the north of the CDA and 6-10 sewer flooding records in the south of the CDA (Figure D-5).
- 3.8.36 The centre of the CDA is identified as having an increased potential for groundwater flooding, however the Environment Agency only has one record of groundwater flooding at this location.

Summary Table – CDA 018 Hook, Kelvin Grove			
LLFA	Royal Borough of Kingston upon Thames		
Flood Risk	Surface water, sewer flooding, groundwater flooding (1 record)		
Categorisation:			
Property Count	Approximately 1698 non	• 16 non deprived households	
1% AEP	deprived households are	are identified to be at risk of	
	identified to be at risk of flooding	flooding to a depth > 0.5m.	
	to a depth > 0.03m	• 0 non deprived households	
	Approximately 7 non deprived	with basements are identified	
	households with basements	to be at risk of flooding to a	
	are identified to be at risk of	depth >0.5m	
	flooding to a depth > 0.03m		
	There are no deprived households	identified as being at risk within the	
	CDA		
Critical	There is an electricity substation located in the south of the CDA on		
Infrastructure	Orchid Close. The western boundary of the CDA is the A3, the western		
	boundary is in part identified by the London Waterloo rail link		
Validation	The Council have known flooding problems in fields near to Woodall		
	Close where there is a grate and culvert feature in the vicinity of the		
	Thames Water CSO outfall		
Figures	Figure 3.8.11a – Surface Water Depth (1% AEP)		
	Figure 3.8.11b – Surface Water Flood Hazard (1% AEP)		



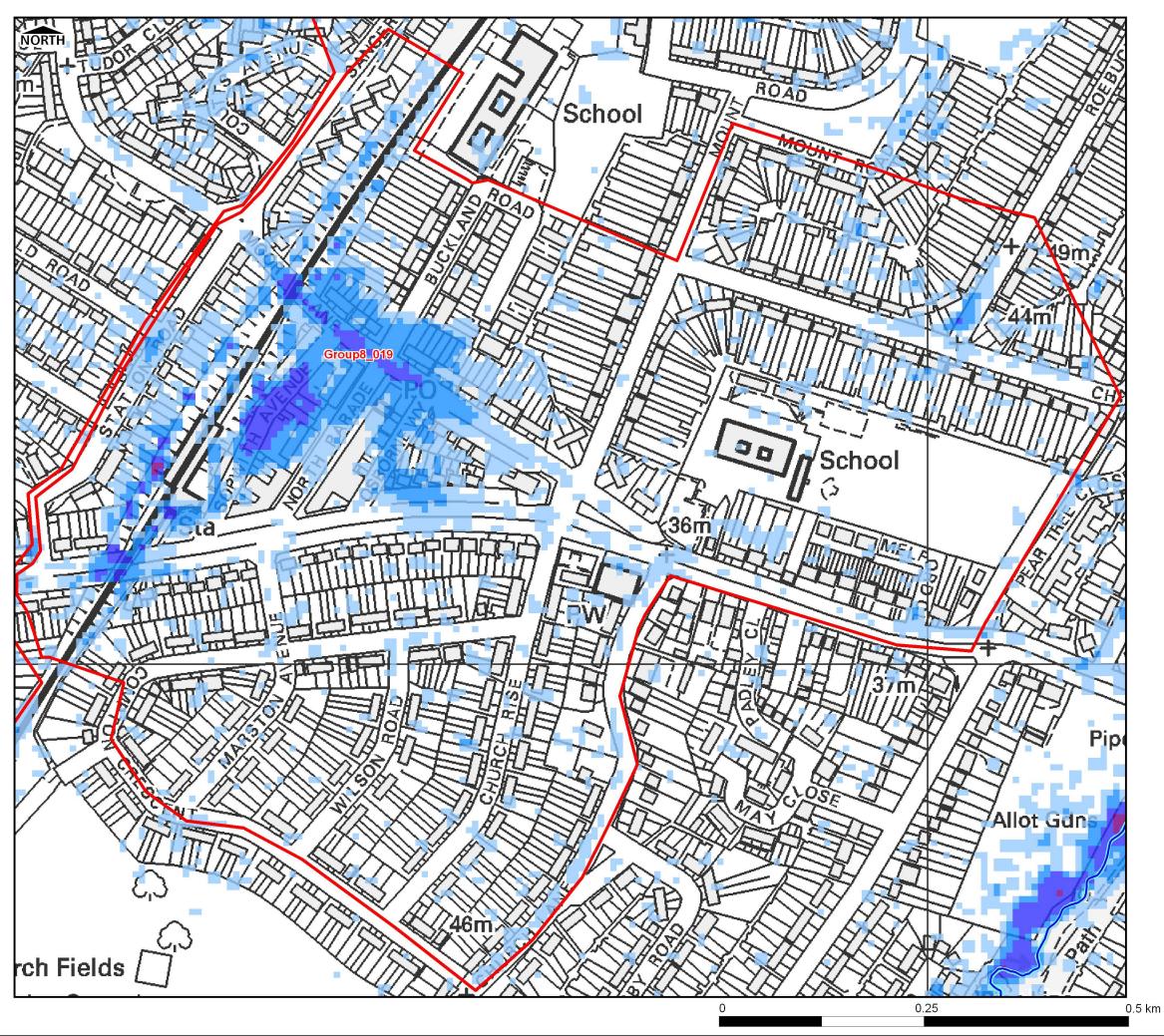




CDA 019 CHESSINGTON NORTH STATION

3.8.37 This CDA is located in a topographical low point associated with the rail embankment. Surface Water from the south, north and east flows towards the railway embankment where water pools in the highway at Moor Lane and Bridge Road. The Royal Borough of Kingston upon Thames has no records of flooding at this location. The CDA is not identified to be in an area at increased potential for groundwater flooding. Thames Water records show 6-10 records of sewer flooding in the south of the Borough.

Summary Table – CDA 019 Chessington North Station		
LLFA	Royal Borough of Kingston upon Thames	
Flood Risk	Surface water, sewer flooding	
Categorisation:		
Property Count	Approximately 399 non • 0 non deprived households	
1% AEP	deprived households are are identified to be at risk of	
	identified to be at risk of flooding flooding to a depth > 0.5m.	
	to a depth > 0.03m • 0 non deprived households	
	• 0 non deprived households with basements are identified	
	with basements are identified to be at risk of flooding to a	
	to be at risk of flooding to a depth >0.5m	
	depth > 0.03m	
	There are no deprived households identified as being at risk within the	
	CDA	
Critical	There is one piece of critical infrastructure located within this CDA,	
Infrastructure	being an electricity substation on Compton Crescent	
Validation	The Council has no record of flooding at this location.	
Figures	Figure 3.8.12a – Surface Water Depth (1% AEP)	
	Figure 3.8.12b – Surface Water Flood Hazard (1% AEP)	



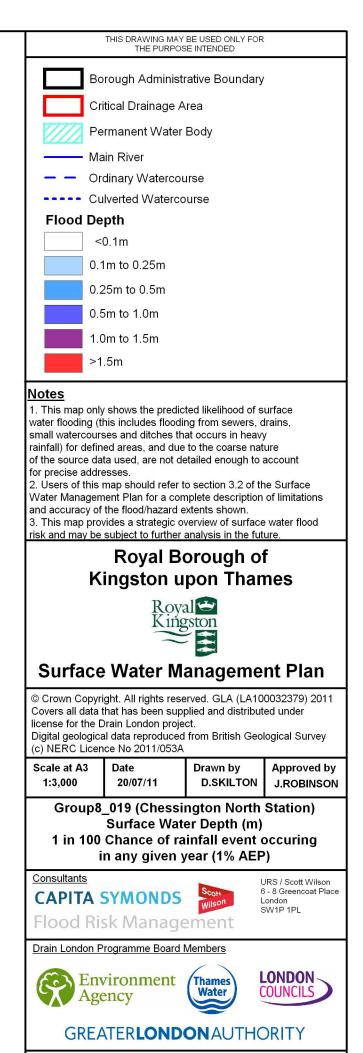
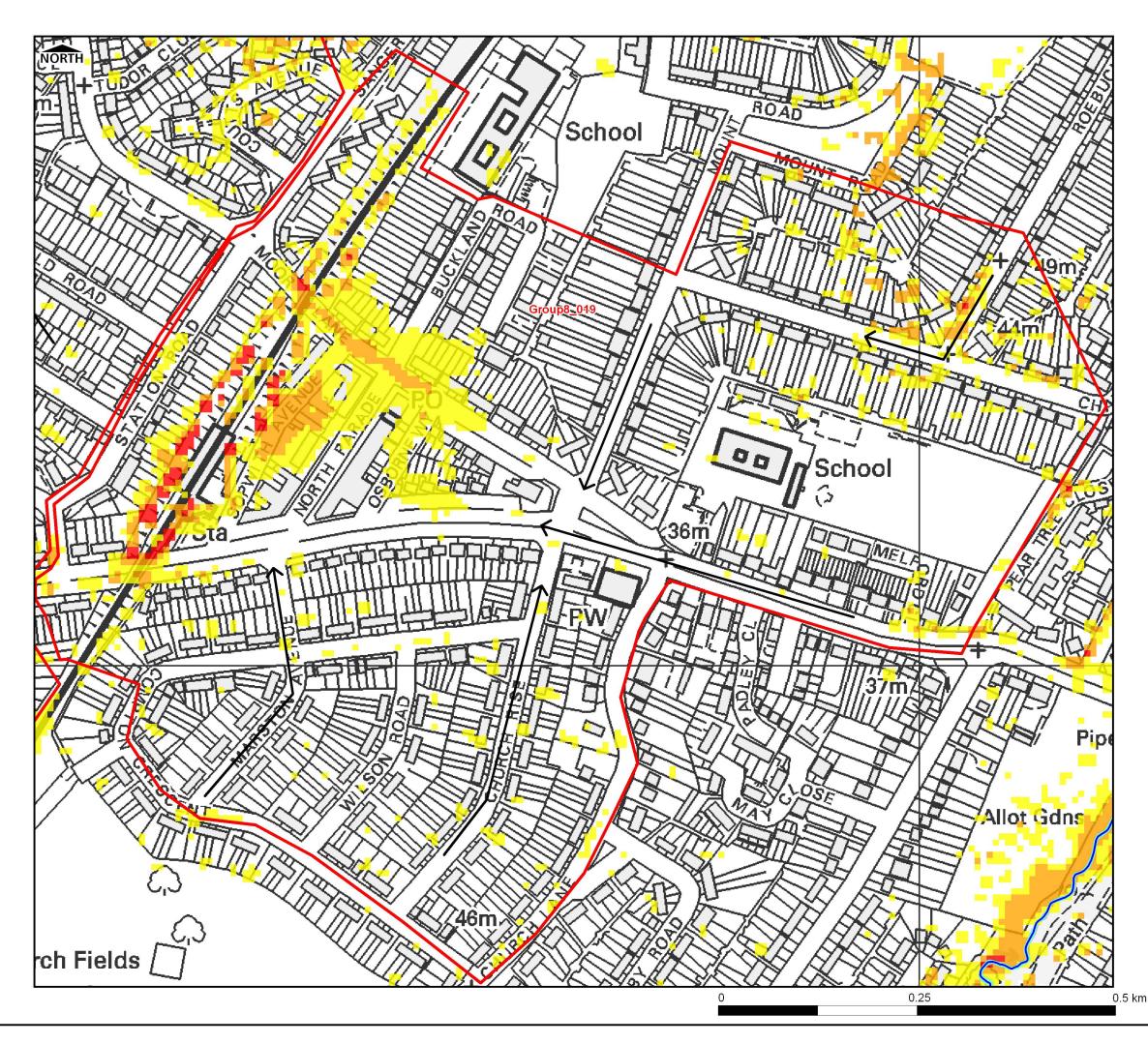


FIGURE 3.8.12a







CDA 020 BARWELL BUSINESS PARK

3.8.38 Pluvial modelling has identified the Business Park to be at greater risk of flooding than the surrounding land. Surface water from the Leatherhead Road flows through the Business Park entrance and pools at the rear of the Park, adjacent to the railway embankment. At this location the surface water sewers are culverted underneath the railway embankment in two pipes 375mm and 610mm (Thames Water data) which outfall to the Bonesgate Stream to the east. Thames Water records show 6-10 records of sewer flooding in the south of the Borough. The CDA is not identified to be in an area at increased potential for groundwater flooding.

Summary Table – CDA 020 Barwell Business Park			
LLFA	Royal Borough of Kingston upon Thames		
Flood Risk	Surface water, sewer flooding		
Categorisation:			
Property Count	• 0 non deprived households	• 0 non deprived households	
1% AEP	are identified to be at risk of	are identified to be at risk of	
	flooding to a depth > 0.03m	flooding to a depth > 0.5m.	
	• 0 non deprived households	• 0 non deprived households	
	with basements are identified	with basements are identified	
	to be at risk of flooding to a	to be at risk of flooding to a	
	depth > 0.03m	depth >0.5m	
		identified as being at risk within the	
	CDA		
Critical	There is no critical infrastructure within this CDA		
Infrastructure			
Validation	The council has no records of flooding at this location		
Assumptions /	Property counts are 0 as the CDA is located at a business park, 20		
Comments	commercial properties are identified as potentially being at risk of		
	surface water flooding (see Table 3-2)		
Figures	Figure 3.8.13a – Surface Water Depth (1% AEP)		
	Figure 3.8.13b – Surface Water Flood Hazard (1% AEP)		