	SITE ASSESSME	NT - Hawks R	oad Clir	nic				
Address: Hawks Road, Kingston, KT1 3EW	Area: 0.32 Ha Site Reference: SA 045				Current Ris	sk Summary	,	
			Fl	uvial / Tid	al	6	Groundwate	er
Current Use	Proposed Use		FZ2	0	% of Site	<25	100	[
			FZ3a	0	% of Site	25-50	0	
Former Health Clinic, Car Park	Mixed Use (Residential, Health Clinic) - 23 residential unit	s 🛛	FZ3b	0	% of Site	50-75	0	
		Surface Water >75			>75	0	Γ	
			1 in 30 0 % of Site Arti		Artificial			
Current Vulnerability Classification	Proposed Vulnerability Classification		1 in 100	in 100 0 % of Site Reserv			N	Γ
			1 in 1000	24.6	% of Site	Canal	N	Γ
Less Vulnerable	More Vulnerable		Sewer Flooding			Town Centre		
			No. Inci	dents	128	Y/N		N

FLUVIAL / TIDAL

Ri	sk Assessm	ent (Defende	ed)			
Parameter	FZ3b	FZ3a	*FZ3a+CC	Units	Description of Flood Mechanism	Site Access / Egress
Speed of inundation	N/A	N/A	N/A	Hrs	N/A - No fluvial / tidal risk is predicted at	N/A - No fluvial / tidal risk is
Min. Depth	N/A	N/A	N/A	m	this site.	predicted at this site.
Max. Depth	N/A	N/A	N/A	m		
Max. Velocity	N/A	N/A	N/A	m/s		
Max Flood Level	N/A	N/A	N/A	m AOD		
Max Ground Level	N/A	N/A	N/A	m AOD		
Min Ground Level	N/A	N/A	N/A	m AOD		
Max Flood Hazard	N/A	N/A	N/A	N/A		
Duration of Flood	N/A	N/A	N/A	Hrs		
The +35% Climate Change All	owance event (ι	upper end allowa	nce extreme case	e) is reviewed		
Risk Asse	ssment (Un	defended)				
Parameter	FZ3a	*FZ3a+CC	Units			
Speed of inundation	N/A	N/A	Hrs			
Min. Depth	N/A	N/A	m			
Max. Depth	N/A	N/A	m			
Max. Velocity	N/A	N/A	m/s			
Max. Hazard	N/A	N/A	N/A		Figure 1 - Fluvial Flood Depth Map	Figure 2 - Fluvial Flood Hazard Map
Duration of Flood	N/A	N/A	Hrs			
					SURFACE	WATER
	Risk Ass	sessment				
Parameter	1 in 30	1 in 100	1 in 1000	Units	Site Access / Egress	Mitigation - Flood Risk Require
Min. Depth	0	0	0.00-0.15	m	Safe egress routes should be directed	Development should be directed away

Risk Assessment							
Parameter	1 in 30 1 in 100		1 in 1000	Units			
Min. Depth	0	0	0.00-0.15	m			
Max. Depth	0	0	0.30-0.60	m			
Max. Velocity	0	0	0.50-1.00	m/s			
Max. Hazard	0	0	1.25-2.00	N/A			
*The 1 in 1000 annual probability extent represents the potential climate change adjusted impact of current ris							
Description of Flood Mechanism							
• The site is currently at low risk of surface water flooding							

- The site is currently at low risk of surface water flooding.
 Hawks Road to the north of the site, and Washington Road to the east of
- the site are predicted to be at risk from surface water flooding.
- Climate change is predicted to increase the flood extent, depth, velocity,

and hazard in the 1 in 1000 year scenario.

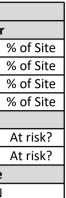
Safe egress routes should be directed towards the south of the site towards Wimpole Close where there is a lower risk of flooding.

Figure 3 - RoFSW Flood Depth Map

Development should be directed away from the eastern area of the site and western edge where there is higher risk of surface water flooding.
See also SFRA Level 2 Report mitigation requirement numbers 4.2, 4.4, 4.5 and 4.6 for further development stipulations.

Figure 4 - RoFSW Flood Hazard Map





Flood Defences

The site is not in an area benefitting from flood defences.

Flood Warning Area

This site is not within a flood warning area.

Mitigation / FRA Requirements

vial / tidal risk is predicted at this site.

Mitigation - Surface Water Drainage

A Kingston SuDS Proforma must be submitted with planning application.
Developments should apply the Sustainable Drainage Hierarchy set out in Policy SI13 of the London Plan.
Ground investigations are required to confirm whether infiltration SuDS are

confirm whether infiltration SuDS are suitable.

	SITE ASSESSMENT - Hawks Road Clinic	
SEWER	GROUNDWATER	
Risk Assessment	Risk Assessment	
 The site falls within a postcode area where there are 128 reported flood incidents from sewer flooding. The site is served by separate surface water and foul sewer networks. 	 The site is classified as having <25% susceptibility to groundwater flooding. The site is underlain by London Clay bedrock geology. 	 This site is at risk of flooding fr Barwell Court Lake, Chertsey Set Sunnyside), Island Barn, Queen I Walton (Knight), and Wraysbury The reservoir extent map pred the site will be at risk of flooding
Figure 5 - Thames Water Sewer Flood Map	Figure 6 - Areas Susceptible to Groundwater Flooding Map	Figure 7 - Outline Reservoir Fl
Mitigation Requirements	Mitigation Requirements	M
 Applicant must consult with TWUL to confirm if the development site has historically flooded. TWUL must agree to any proposed sewer connections. Where historic flooding has occurred, the applicant must show how this risk will be managed for the lifetime of the development. 	 Applicant should carry out a screening study (as a minimum) to establish if there are any subterranean flood risk issues that may require further investigation. If there is a potential level of impact, mitigation actions must be proposed. Must be prepared by a chartered professional or specialist. 	 Propose appropriate and prop A suitable emergency response warning system in the event of a Local Authority Emergency Pla reservoir failure emergency and
	PLANNING CONSIDERATIONS	
	Safety of Development	
 / biodiversity benefits as per London Plan Policy SI 13. See SFRA - Level 2 Report mitigation requirement number 4.5 for cor C. What is the cumulative impact of the development land use change The development land use is changing from the 'Less Vulnerable' to t The site is currently a brownfield site with hardstanding areas. Howe managed properly. D. How can the development reduce risk overall? Direct development away from the eastern section and western edge Include SuDS to manage surface water runoff and reduce run-off rate Safe egress routes should be directed towards the south of the site to By complying with SFRA - Level 2 Report mitigation requirement num E. Will development require a flood risk permit/watercourse consent No. The site is not located within 8m of a Main River or 5m of an Ord F. Is the Exception Test required? No. The Exception Test is not required for this site as there are no are 	to manage surface water runoff onsite through above ground SuDS and / or below ground attenumpensatory flood storage stipulations. ge and will flood risk increase? the 'More Vulnerable' classification, as residential and health clinic uses have been proposed. ever, there are strips of green space surrounding the building and car park. An increase in imperr es of the site where there is higher risk of surface water flooding. es to comply with Policy DM 4 in Kingston's Core Strategy. Howards Wimpole Close where there is a lower risk of flooding. hbers 4.2, 4.4 and 4.5. t? linary Watercourse. eas within Flood Zone 3a. ing flood risk elsewhere (see questions A, B, and C). The site could also reduce flood risk overall	meable area coverage on site will incr



ARTIFICIAL

Risk Assessment

ing from a number of different reservoirs including the ey Settling, Hampton (Distributing, Grand Junction and leen Elizabeth II, Queen Mother, Staines (North and South), sbury.

predicts that if any of these reservoirs breach on a wet day, oding.

oir Flood Map

Mitigation Requirements

proportionate risk management measures.

ponse plan should be put in place, including an emergency at of a reservoir flooding incident.

cy Planning Officers must be consulted to create a

and evacuation plan.

cture should be prioritised to provide wider ecological

l increase surface water runoff and flood risk if not

storage compensation measures implemented (see

