King's Lynn and West Norfolk Borough Strategic Flood Risk Assessment Level 2 Community Level Guidance Tables			
Completed by	JBA consulting		
Date	March 2019		
Author	Freyja Scarborough		
Reviewer / Sign-off	Hannah Coogan		
Version Number	Version 2.0		

Level 2 Community Level Guidance Tables					
	Community	Watlington			
Community details	Flood Risk	Highest risk flooding mechanism Tidal		Coastal	
	Summary	Most likely source	of flooding	Surfac	e Water
	Existing drainage features	 There are several areas of open watercourse both within the community and adjoining the community boundary. The River Great Ouse flows to the west of the community boundary. There are a number of fluvial drains surrounding the community the main concentration of which are in the north and east. 			dary. If the community In the community
	Fluvial	No			
Sources of flood risk	Tidal	Minor impact from Flood Zone 3a			
	Surface Water	Impact from 3.3% /	AEP event and ab	ove	
	Residual Risk	 Encroachment from Tidal Breach in the west of the community from the Tidal Great Ouse. Minor impact from fluvial breach on the Fenland River. 			
	IDB watercourse present?	This western area of the community is covered by the East of Ouse Polver & Nar Internal Drainage Board (IDB), in the administration area of the Downham Market Group of IDBs. The drains near the community are: Blue Arch Little Goole Mud Lane Drain			
	Flood history	An internet search found records of flooding in July 201 internal flooding was recorded at Watlington Primary Schoffrom surface water flooding. There are no records of sewer flooding in this community.			Primary School
	Defences	Defence Type	Flooding Type	Standard of Protection	Condition
Flood risk		Wall (x3)	Tidal	100	3 (Fair)
management infrastructure		Embankment (x8)	Tidal	100	3 (Fair)
		The community is benefitting from tidal defences along the River Great Ouse to the West and protect the western area of the community.			
Opportunities for sustainable development	Asset management	No EA pipeline schemes at or near this community.			
	Capital investment policy and regeneration	No current schemes identified for this community.			

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Community details	Flood Risk	Highest risk flooding mecha	Tidal / Coastal	
	Summary	Most likely source of flooding	ng	Surface Water
	Higher level policy	 This area is within the Great Ouse Catchment Flood Management Plan and sub area 10, the Fens. Within this subarea the current flood risk is appropriately managed. However, the risk is expected to significantly rise in the future with impacts from climate change. Actions should be taken to manage the increase in risk. Watlington is designated as low-lying fenland in the hinterland of the Wash Shoreline Management Plan (SMP) 2 and is protected by defences along the wash coastline and is therefore relevant to the SMP. The policy within this area (PDZ1) is to maintain the current defences into the future, considering an 'envelope of potential developments' for all future scenarios. CFMP/ SMP policies set the high level and strategic direction for flood risk and coastal change management. There is no guarantee that funding will be available from national, regional or local sources to implement the policy. More detailed strategy and scheme work considers funding needs and availability at a community level. 		
Emergency planning	Flood warning	The western area of the community is covered by the 'Tidal River Great Ouse east bank breach from Watlington to south King's Lynn' Flood Warning Area and the 'Tidal River from Denver to south of King's Lynn' Flood Alert Area.		
	Access and egress	 Access and egress are possible in all tidal and fluvial events there may be small minor impacts in the north-western corne the community from the 0.5% AEP event. Localised impacts on access and egress from the 3.3% AEP surface water event and above, especially in the western are of the community. 		pacts in the north-western corner of AEP event. and egress from the 3.3% AEP
Climate Change	Implications for the community	 Climate change modelling does not show any impact to the defended tidal scenario (which assumes no breach occurs). However, it may have a significant impact on the frequency and severity of storm surges which have not been modelled for the SFRA. There is a small increase in the impact of surface water when taking into account the future effects of climate change. 		
Requirements	Broad scale assessment of possible SuDS	Bedrock Geology Superficial Geology	Mudstone Clay and	silt; gravel
for drainage control and impact mitigation		Soil Type		siii, gravei high groundwater
		Groundwater Source Protection Zone	No	g groundmator
J		Historic Landfill Site	No	

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details	Flood Risk	Highest risk flooding mechanism Tidal / Co			
	Summary	Most likely source of flooding		Surface Water	
		 Further investigation SuDS on a site-specific basis due to the variety or levels of risk from groundwater identified for this community in the Areas Susceptible to Groundwater Flooding dataset. Source control techniques are likely to be suitable for this community. Mapping suggest groundwater flooding may be an issue in this community, providing the site is not at medium to high risk from groundwater flooding infiltration techniques may be suitable. Detention features may be feasible providing site slopes are <5% at the location of the detention feature. If groundwater is a risk to the site, then a liner may be required to mitigate against potential contamination issues. Filtration systems are probably suitable providing site slopes are <5% and the depth to the water table is >1m. If the site is at risk from groundwater, then a liner will be required. All forms of conveyance features are likely to be suitable. Where slopes are >5%, features should follow contours or utilise check dams to slow flows. 			
Existing Loc Consideratio		 In the Borough Council's Local Plan, Watlington was designated as a Key Rural Service Centre and allocated a total of 32 new dwellings. 			
NPPF and planning implications	Requirements and guidance for site-specific Flood Risk Assessment	 Detailed hydraulic modelling will need to consider any drai within and surrounding the community that are likely to affer the site to assess fluvial flood risk in the community (including IDB drains). Hydraulic modelling should also seek understand the impact of residual risk from culvert blockage any proposed site, as appropriate The Flood Risk Assessment should address all forms of floorisk impacting this community (tidal, surface water all groundwater). 			
Conclu	oiene end	Tidal and Coastal	Fluvial	Surface Water	
Conclusions and		0.5% AEP and Breach	Breach	3.3% AEP	

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Level 2 Commu	nity Level Guidan	ce Tables		
Community	Community	Watlington		
Community details	Flood Risk	Highest risk flooding mechanism	Tidal / Coastal	
details	Summary	Most likely source of flooding	Surface Water	
recommendations		 Majority of the community is in Flood Zone 1, but there is a risk from other sources and from a breach No historical records of flooding. Consider the impacts of tidal breach. Consideration of safe access and egress. Early consultation with Downham Market Group of IDBs is strongly recommended in this area. 		
		Mapping Information		
Flood Zones		 Flood Zone 3b is comprised of supplied outlines from: the Fenland, 2016 fluvial model and The Wash, 2018 tidal model. Flood Zone 3a is comprised of supplied outlines from: Eastern Rivers MP2 – River Nar, 2016 fluvial model; The Wash, 2018 tidal model; and outlines from Environment Agency Flood Zone 3 from fluvial and tidal models. Flood Zone 2 is comprised of supplied outlines from: Eastern Rivers MP2 – River Nar, 2016 fluvial model; The Wash, 2018 tidal model; and outlines from Environment Agency Flood Zone 2 from fluvial and tidal models. 		