Community details	Community	West Winch				
	Flood Risk Summary	Highest risk flooding mechanism Surface Water		e Water		
		Most likely source of flooding Surface Water		e Water		
Sources of flood risk	Existing drainage features	There are numerous small areas of open watercourse between culverts mainly concentrated along the western community boundaries.				
	Fluvial	Flood Zone 1				
	Tidal	Flood Zone 1				
	Surface Water	Impact from 3.3% AEP event and above.				
	Residual Risk	Small residual risk from tidal breach on the River Great Ouse in the western parts of the community.				
	IDB watercourse present?	 East of Ouse Polver & Nar IDB which are under the administration area of Downham Market Group of IDBs. Puny Drain and its associated tributaries run parallel to the community along the western boundary. 				
	Flood history	 Norfolk County Council flood investigations show that in Summer 2014 a property on Main Road was flooded from surface water There are records of sewer flooding in this community (date of flood unknown). 				
Flood risk management infrastructure	Defences	Defence Type	Flooding Type	Standard of Protection	Condition	
		Embankment (x4)	Fluvial	50	3 (Fair)	
		The areas benefiting from defences information mainly benefits areas to the west of the community with some encroachment into the western boundary 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.				

Community details	Community	West Winch			
	Flood Risk Summary	Highest risk flooding mechanism	Surface Water		
		Most likely source of flooding	Surface Water		
	Higher level policy	 This area is within the Great Ouse Catchment Flood Management Plan and sub area 10, the Fens. Within this sub- area 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. West Winch is designated as low-lying fenland in the hinterland of the Wash Shoreline Management Plan (SMP) 2 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 community is partially in the 'Tidal River Great Ouse east bank breach from Watlington to south King's Lynn' Flood Warning Area and two Flood Alert Areas: 'King's Lynn, West Lynn and the Wash Frontage' and 'North West Norfolk'.			
	Access and egress	 All routes are possible during a fluvial or tidal event. Issues with access and egress in some areas of the community in the 1% and 0.1% AEP surface water events. 			
Climate Change	Implications for the community	 There is a small increase in the impact of surface water when taking into account the future effects of climate change. 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. 			

Community details	Community	West Winch			
	Flood Risk	Highest risk flooding me	chanism	Surface Water	
	Summary	Most likely source of flooding		Surface Water	
Requirement s for drainage control and impact mitigation	Broad scale assessment of possible SuDS	Bedrock Geology Central area: Mudstone Eastern area: Sand Superficial Geology Western area: Clay and silt Central area: Clay, silt, sand and gravel; diamicton; gravel Soil Type Freely draining Groundwater Source Protection Zone No Historic Landfill Site No • 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			
NPPF and planning implications	Existing Local Considerations	 The Borough Council's Local Plan has designated this area as one of the strategic 'urban expansion' areas around King's Lynn. The Core Strategy has allocated at least 1,600 new homes to West Winch. West Winch and North Runcton Parish Councils recently completed a Neighbourhood Plan and it was adopted in October 2017. This plan enables the Parish Councils to help shape proposed developments. Local residents can also get involved and share their opinion. 			

Community details	Community	West Winch				
	Flood Risk Summary	Highest risk flooding mechani	ism	Surface Water		
		Most likely source of flooding Surface Water			ace Water	
	Requirements and guidance for site - specific Flood Risk Assessment	 Early consultation with Downham Market Group of IDBs is strongly recommended where relevant. 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. Consider the impact of a tidal or fluvial breach by sequentially placing the highest vulnerability part of the development in the areas of lowest flood risk, applying the Councils Flood Risk Design Guidance and creating a site-specific emergency plan for flood events. Detailed hydraulic modelling will need to consider any drains within and surrounding the community that are likely to affect the site to assess fluvial flood risk in the community (including IDB drains). Hydraulic modelling should also seek to understand the impact of residual risk from culvert blockage to any proposed site from structures along these watercourses. Should explain how surface water drainage will be managed. Consider the impacts of climate change on all flooding mechanisms and breach scenarios. 				
		Tidal and Coastal	Fluvial		Surface Water	
		Breach	Low Risk	and Zore 1	3.3% AEP	
Conclusions and recommendations		 All of the community is within Flood Zone 1. The Borough Council's Local Plan has designated this area as a strategic 'urban expansion' area allocating at least 1,600 new homes to West Winch. Consider the impact of tidal defence breach. Early consultation with Downham Market Group of IDBs is strongly recommended where relevant. 				
Mapping Information						
Flood Zones		 Flood Zone 3b is comprised of Environment Agency supplied outlines from the fluvial Fenland, 2016 model, the tidal Wash, 2018 model and the fluvial Eastern Rivers MP2 – Nar, 2016 model. Flood Zone 3a is comprised of Environment Agency supplied outlines from the tidal Wash, 2018 model, the fluvial Eastern Rivers MP2 – Nar, 2016 model and from Environment Agency Flood Zones 3 containing tidal outlines. Flood Zone 2 is comprised of Environment Agency supplied outlines from the tidal Wash, 2018 model, the fluvial Eastern Rivers MP2 – Nar, 2016 model and from Environment Agency supplied outlines from the tidal Wash, 2018 model, the fluvial Eastern Rivers MP2 – Nar, 2016 model and from Environment Agency Supplied outlines from the tidal Wash, 2018 model, the fluvial Eastern Rivers MP2 – Nar, 2016 model and from Environment Agency Flood Zones 2 containing tidal outlines. 				