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 Commun	nity Level Guidance	Tables			
	Community	Southery			
Community	Flood Risk	Highest risk floodir	ng mechanism	Flu	ıvial
details	Summary	Most likely source	~	Flu	uvial
	Existing drainage features	unnamed east of the • There are	 Surrounding the community there are a number of small unnamed drains, the main concentration of which are to the east of the community. There are two drains open watercourse between culvert within the community in the east of the community. 		
	Fluvial	Indicative Flood Zo	one 3b along the s	outhern community	boundary.
	Tidal	No			
	Surface Water	Minor impact from Larger impact in th			P events.
Sources of	Residual Risk	Minor residual risk from fluvial breach from the River Great Ouse on the southern boundary of the community and to the west, in areas of low elevation surrounding the community. Minor risk of flooding from breach of the New Barn Reservoir in the south-west of the community.			
flood risk	IDB watercourse present?	 Partial inclusion in Southery & District Internal Drainage Board (IDB) along the southern boundary of the community. White Bridge drain flows past the south-western corner of the community. Ten Foot drain flows past the south-east corner of the community. 			
	Flood history	 The Environment Agency have no recorded flood outlines or Sewer Records. An internet search provided textural evidence of flooding from overflowing drainage systems in Southery in June 2009. Norfolk County Council flood investigations show that in Summer 2014 there was internal flooding of a property on Lynn Road, caused by run-off from significant rainfall and exceedance of drainage systems. 			
		Defence Type	Flooding Type	Standard of	Condition
Flood risk management	Defences	Embankment (x2)	Fluvial	Protection 100	3 (Fair)
infrastructure		Embankment Fluvial 100 4 (Poor) The areas benefitting from defences information covers a small area of the southern community and most of the surrounding area where high			
Opportunities	Asset management	ground is not present. The proposed works along Ten Mile Bank due to commence post 2021 under the Environment Agency Pipeline will better protect 12 households.			
for sustainable development	Capital investment policy and regeneration	No current schemes identified for this community.			

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Community	Flood Risk	Highest risk flooding mecha	Fluvial	
details	Summary	Most likely source of flooding		Fluvial
	Higher level policy	This community is not explicitly mentioned in any higher-level policy documents. 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. Southery 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.		
	Flood warning	The community is partially covered by the 'Ely Ouse' Environment Agency Flood Alert Area.		
 Emergency planning Access and egress and egress and egress and egress and egress and egress and egress Minor localised impacts on access and egress and egress and egress is the 0.1% AEP event. 		ted, as flood zones surround the ess and egress in the 3.3% and		
Climate Change	Implications for the community	Increase in flooding from surface water due to climate change.		
Requirements		Bedrock Geology	Sandstone a	and siltstone; Mudstone
for drainage	Broad scale	Superficial Geology	Diamicton, S	Sand and Gravel, and Peat
control and	assessment of	Soil Type	Naturally we	t
impact	possible SuDS	Groundwater Source	No	
mitigation		Protection Zone		

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Community details	Flood Risk	Highest risk flooding mechanism	Fluvial
uctans	Summary	Most likely source of flooding	Fluvial
		 Source control techniques are likely to be suitable for this community. Mapping suggests groundwater flooding is unlikely to be an issue in this community, as such infiltration techniques will probably be suitable. Detention features may be feasible providing site slopes are <5% at the location of the detention feature. Filtration systems are probably suitable providing site slopes are <5% and the depth to the water table is >1m. If the site has contamination issues, then a liner will be required. Suitability of conveyance features will be dependent on receiving waterbodies and the extent of pumping, storage and detention in relation to IDB assets and the 10 Mile Bank and River Great Ouse. Where slopes are >5%, features should follow contours or utilise check dams to slow flows. 	
NPPF and planning implications	Existing Local Considerations	Village Southery with 15 add will require SUDS, because been identified as being at care. Southery is in an area benefit be considered, to mitigate the community, that a contribution defence infrastructure may be safeguarding of residual risk.	ting from fluvial defences. It should e impacts of flooding in this n to the maintenance of this

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Community details	Flood Risk	Highest risk flooding mecha	ınism		Fluvial
uctans	Summary	Most likely source of flooding	ıg		Fluvial
	Requirements and guidance for site-specific Flood Risk Assessment	recommended depending on site location and impact drains. The Flood Risk Assessment (FRA) should address a flood risk impacting this community (fluvial and pluvia) Ensure safe access and egress from the site in surface water flood events and prepare a flood evact for the site. Detailed hydraulic modelling will need to consider within and surrounding the community that are like the site to assess fluvial flood risk in the community IDB drains). Hydraulic modelling should also understand the impact of residual risk from culvert to any proposed site. Consider the impact of a tidal or fluvial breach by seplacing the highest vulnerability part of the developm areas of lowest flood risk, applying the Councils Design Guidance and creating a site-specific emer for flood events. Consider the impacts of climate change especially flood risk. An FRA should suggest appropriate mitigation (flood measures). The FRA must demonstrate how the developm provide wider sustainability benefits to the commoutweigh the risk associated with flooding and development would be safe for its lifetime without flood risk elsewhere and, where possible, would rerisk overall. Consider the impacts of fluvial defence breach on the community.		uld address all forms of ial and pluvial). the site in fluvial and a flood evacuation plant to consider any drains that are likely to affect the community (including should also seek to from culvert blockage to breach by sequentially the development in the ecouncils Flood Risk specific emergency plant e especially from fluvial tigation (flood resilience the development would to the community that flooding and that the time without increasing ole, would reduce flood	
		No Risk	5% AE		3.3% AEP
Conclusions and recommendations			Bea		
		 Much of the community is situated on high ground and in Flood Zone 1. 			
		 Ensure safe access and egress especially in fluvial events and recommend that a flood evacuation plan is put in place. 			
		 New development will require SUDS, because the Surface 			
		Water Network has been identified as being at capacity.			
		 Historical records of drainage exceeding capacity. Strongly recommend early consultation with Downham Group of 			
		IDBs where applicable.			
		 Consider mitigation for surface water flooding. Consideration should be given to providing a contribution to the 			
		defences protecting this community.			

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Mapping Information				
Flood Zones		All Flood Zones are comprised of Environment Agency Flood Zones containing fluvial outlines.		