

FLOOD CELL 1 BOYTON AND BUTLEY MARSHES

BENEFIT COST RATIO (BCR) 2.7

Appendix 12

	FEATURES The area in the flood plain to be defined as all land below 5m contour as that conforms to the EA's definition of the floodplain.	STATISTICS	SOURCE OF DATA	DATA REQUIRED/ACTION
Location and Size	From Hollesley Bay Young Offenders Institution, along west side of the Ore Estuary and Butley River as far as Butley Low Corner	765 Hectares	Alde and Ore Futures (AOF)/EA	
Homes and other properties	Total number of residential properties (not valued) Of which: Listed buildings Buildings in conservation area Holiday rentals	13 Dock Farm, Boyton Hall, Valley Farm. Church at Boyton House at Butley High Corner. Butley Priory No conservation areas To be checked with rental companies	AOF/ EA	
	Number of residential properties protected by existing defences	3	AOF/EA	
	Number of other (non-residential) properties	72	AOF/EA	
	Number of other (non-residential) properties protected by existing defences of which : Businesses: e.g. boatyards, Storage, farm buildings	10 Farm businesses are separate from ownership of land and houses *	AOF/EA in all the above local knowledge may also be used	Owen Smith, Banters Barn Farm Grazier Hay Boyton Hall Farms Capel St Andrew Farms Capel Farms Grove Dairy Warren Hill Hollesley HM Prison
Agricultural	Area of agricultural land inside flood cell Of which: Arable	749 ha 90 acres Boyton Hall	AOF/EA	

<p>Land</p>	<p>Grazing</p>	<p>60 acres Boyton Hall</p> <p>180 acres Jamie Greenwell</p>		
	<p>Surrounding land area irrigated by abstraction points inside flood compartment</p> <ol style="list-style-type: none"> 1. Land area irrigated by abstraction points inside flood cell (ha) 2. Land irrigated outside any flood cell from abstraction point within cell 3. Other economically useful land such as golf course, allotments 4. Recreation ground 	<p>Some land may be irrigated from time to time such as to establish new grass seed in a dry season but crops are not regularly irrigated.</p> <p>200 Boyton Hall 800 James Greenwell 200 Edward Greenwell</p> <p>Services running through Stowe Bridge????</p>	<p>AOF/EA ESWAG</p>	
<p>Wildlife and Habitat</p>	<p>A large flood cell running from Hollesley to Butley Low Corner. Most of the Hollesley and Boyton Marshes are in permanent wet grassland with freshwater ditches. Over 60% of the flood cell is in arable. One arm of the cell follows, in a south-westerly direction, the catchment area of the River Tang into the Sandlings Forest SSSI as far as Scotland Fen. Two ancient or semi-natural woodlands, Carmen's and Boyton Wood, are within the flood cell.</p> <p>The eastern and southern boundary of the cell abuts the River Alde/Ore which is part of the network of the Alde/Ore/Butley Estuaries, a designated SAC (Special Area of Conservation) and contains habitats of conservation concern (see the more detailed description at Annex 1).</p> <p>Intertidal habitat in front of the defences is internationally designated. Designations:</p>	<p>Boyton Marshes RSPB nature reserve, Hollesley Marshes RSPB</p>	<p>EA? NE? EA?NE? ANOB SWT Wild life survey 2012 'Ecological assessment- Alde and Ore Estuaries'</p>	

	<p>1. Intertidal habitat in front of defences</p> <ul style="list-style-type: none"> a. saltings b. mudflats <p>2. Pilot schemes to renew Saltings</p> <p>3. Land behind the defences. List special features/species e.g. Wildlife habitat in floodplains behind the walls including ditches with reed buntings, little grebe and kingfisher, fields with hares, flight area of barn and short eared owls, range of birds including lapwing, egret, swans, varieties of gulls (ref: Wild life/Hinterland survey on a section covering all the estuary although each FC may have its own special species). Mostly the species will be the same, but with certain exceptions, e.g. breeding avocets in FC5 and now in Hollesley Marshes</p>	<p>nature reserve, Part of the Sandlings Forest SSSI Within the SAC but adjacent to this flood cell: Simpson's Saltings SWT nature reserve</p> <p>Will EA have area by flood cell? 70 acres James Greenwell 30 Boyton Hall Farms * None in FC1 at present *</p> <p>Flood Cell 1 contains several Priority Species and Habitats which are nationally and locally (Suffolk) important.</p> <p>Priority species include; Common toad <i>Bufo bufo</i> Adder <i>Vipera berus</i> Common lizard <i>Zootoca vivipara</i> Grass snake <i>Natrix natrix</i> Northern lapwing <i>Vanellus vanellus</i> Reed bunting <i>Emberiza schoeniclus</i> Skylark <i>Alauda arvensis</i> Brown hare <i>Lepus europaeus</i> European otter <i>Lutra lutra</i> Water vole <i>Arvicola terrestris</i> European eel <i>Anguilla anguilla</i></p> <p>Priority habitats include; Coastal and floodplain grazing marsh (including dykes) Deciduous woodland</p> <p>Other breeding birds of importance European marsh harrier <i>Circus aeruginosa</i> Pied avocet <i>Recurvirostra avosetta</i></p> <p>Winter assemblages of birds include; Wigeon <i>Anas penelope</i> Teal <i>Anas crecca</i></p>		<p>Value should contribute to BCR</p>
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	<p>4. Higher Level Stewardship Scheme</p> <p>5. Other? Monetary value of Nature Reserves Suffolk Punch Trust Butley Ferry</p> <p>2000 visitors per annum to RSPB reserves Value of coastal community</p>	<p>Lapwing 90 pairs Avocet Hollesley Marsh reserve since completion of new scrapes Bitterns Butley reported by James Greenwell</p> <p>RSPB reserves ELS Capel Farms – changing rules next year.</p> <p>*</p> <p>*</p>		
<p>Defences A&O Futures 2011 assessment</p>	<p>Defences are earth embankments; riverward and landward faces are relatively steep in places. They are generally in fair condition; though in some places the embankments are low and provide poor standard of protection.</p>			
	Length of sea/estuary walls	9.8 Kilometers		
	How soon will major work be required?	Varies within 5 years	AOF/EA 2011	
	Current Standard of Protection (the chance of flooding in any year)	<20% (1 in 5)		
	Currently managed by	EA	AOF/EA	
<p>Features dependent on the maintenance</p>	<p>1. Footpaths</p> <p> a) along river walls (km)</p> <p> b) providing access to river walls but in floodable area</p>	<p>in total 17Km 6500 chains Remainder of total</p> <p>* Hectares or Nos</p>	<p>AOF/ SCC Rights of Way Dept Local knowledge and SCC?</p> <p>Local Local</p>	

<p>of the river walls</p>	<p>2. Allotments 3. Boatyards for building, repairs, winter storage 4. Public car parks 5. Sailing clubs 6. Utilities e.g. Sewage outlet (Anglian water, electricity station?) 7. Wildlife 8. Roads 9. River management and moorings 10. Employment: Jobs at risk if area is flooded 11. Other features to be invited in consultation</p>	<p>n/a n/a * n/a Outflow from Prison sewage treatment plant at Evacuation Sluice At Stone Bridge – Butley At Valley Farm Boyton Butley Ferry. River Tang from Tangham Forest to Butley river by ferry Butley River private – some moorings between Butley river and Gedgrave including Pinney’s fishing boats Hollesley Bay Prison</p>	<p>Local knowledge Anglian, EON? SWT report Highways Dept? Crown Estates, sailing clubs, watermen Local knowledge</p>	<p>Banters Barn Simpsons Saltings – very little maintenance noted over last two years Some utility services run through Stone Bridge area Mainly agricultural workers to be researched further</p>
<p>Proposed Approach</p>	<p>A&O Futures Approach: National funding sources will not be available to maintain or improve the defences in this flood cell because it will cost more than the benefits it will provide to the small number of properties being protected. It will be for the local community to fund work themselves. The Environment Agency will support them through the transition and provide advice to help them develop their plans to maintain and improve defences. Note: REVISED BCR OF 2.7</p> <p>AOEP Approach: Cost £ 922,937 to upgrade the walls + VAT/Supervision fees. See Upgrade designs in Appendix 4</p>			

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Loss of habitat in front of walls through natural erosion. Will require replacement elsewhere in longer term – RSPB comment - No plans for front face of walls. Some areas without any protection at all viz. Flybury Point (see RDC report) this is where cill is suggested if Boyton realignment is carried out. Length is upper Butley River, timber protection to river edge within 1M of foot of wall.