

5 Action Plan

This section includes the summary action plan for the Essex and South Suffolk SMP. This action plan is a very important element of the SMP, and particularly for the Essex and South Suffolk SMP. The plan has identified that there are a number of important uncertainties and that we need to improve our understanding to support firmer policy decisions in the next SMP and beyond.

The Action Plan summarises specific actions that are required to implement the Plan and the policies. This includes actions by the Environment Agency and local authorities to develop flood and erosion defence strategies and schemes, but it also includes actions involving the other bodies, for example where there are implications for land use planning or where there is a need for adaptation of communities, businesses and other organisations. The actions in this plan have been developed by the SMP partnership with input from over 200 key stakeholders and the public. The SMP partners, through discussion, have prioritised the most important actions needed to be carried forward to progress the SMP over the next 20 years and ensure any subsequent SMP review has the most relevant data and information to address any areas of uncertainty for subsequent SMP reviews.

There are a range of existing partnerships already involved with the management of the estuaries and coastline such as the Essex Coastal Renaissance Board, the Stour & Orwell Management Group, the Colne Estuary Partnership, the Essex Coastal Renaissance Board and the Suffolk Coast and Heaths AONB Partnership. These partnerships will also have an important role in the implementation of the SMP and its Action Plan. In addition these partnerships will have an important role in supporting local communities, businesses, asset owners and landowners in taking forward flood and coastal risk management, spatial and emergency planning and environmental management approaches at a local level. Implementing SMP policies will depend on funding being available. This is not only the case for building and maintaining flood defences, but also for all the other actions needed to implement the plan. This funding may be available from the national flood and coastal erosion risk management budget, but it could also come from other national sources or from local and/or third-party funding.

The SMP Partnership will actively seek opportunities for funding and partnership working that will support communities faced with coastal change and adaptation at key coastal locations.

The Action Plan aims to identify owners for the actions and ensure that actions are monitored for progress. The Action Plan is set up for use as a living document, to enable management of the actions in the period up to the next SMP review, which is expected within the next 10 years.

The table below is a summary of the Essex and South Suffolk SMP Action plan. The plan is in 2 sections – a set of strategic actions across the Essex and South Suffolk coastal frontage and then individual more detailed local actions for each of the coastal management units.

Strategic actions are not repeated under local actions to avoid duplication but many strategic actions will need local activities within the separate coastal management units to ensure delivery of the strategic aims of the plan. The complete version of the action plan has been developed in an Access database, for use as a living document in the coming years. For brevity, a number of abbreviations have been used – a full list of these is provided below;

ABP	Associated British Ports	MoD	Ministry of Defence
ACAG	Anglian Coastal Advisory Group	MMO	Marine Management Organisation
AONB	Area of Outstanding Natural Beauty	MR	Managed Realignment
BDC	Babergh District Council	NCERM	National Coastal Erosion Risk Mapping Project
CEP	Colne Estuary partnership	NE	Natural England
CI	Coastal Initiative (East of England CI led by GOEAST)	NFU	National Farmers Union
CLA	Country Land and Business Association	NT	National Trust
CLG	Department for Communities and Local Government	PDZ	Policy Development Zone
CBC	Colchester Borough Council	RDC	Rochford District Council
Defra	Defra Department for Food and Rural Affairs	RHCP	Regional Habitat Creation Programme
EA	Environment Agency	RFDC	Regional Flood Defence Committee
ECC	Essex County Council	RSPB	Royal Society for the Protection of Birds
ECRB	Essex Coastal Renaissance Board	S&OEMG	Stour and Orwell Estuary Management Group
EH	English Heritage	SBC	Southend Borough Council
EWT	Essex Wildlife Trust	SCC	Suffolk County Council
HHA	Harwich haven Authority	SCDC	Suffolk Coastal District Council
HLS	High Level Scheme (Natural England's rural payments scheme)	SCHU	Suffolk Coast and Heaths Unit
IBC	Ipswich Borough Council	SMP	Shoreline Management Plan
ICZM	Integrated Coastal Zone Management	SWT	Suffolk Wildlife Trust
LA	Local Authorities	TDC	Tendring District Council
MCC	Managing Coastal Change Project	WFD	Water Framework Directive
MDC	Maldon District Council	WT	Wildlife Trusts

Essex & South Suffolk SMP Action Plan
SMP-wide strategic actions

Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Strategy	Develop a Essex Coastal Strategy to integrate SMP outcomes into wider planning, economic environmental and social work programmes.	EU project Suscod 2010-2013	Medium	ECC (EA and LA support)	Before next SMP review
	Develop a Suffolk Coastal Strategy to integrate SMP outcomes into wider planning, economic environmental and social work programmes.	Suffolk Futures (ICZM) and Stour and Orwell Management Plan	Medium	SCC with SCDC/BDC/IBC /EA/NE	Before next SMP review

Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Asset management	Identify maintenance and improvement schemes for Hold the Line frontages and seek funding for viable schemes	Assets System Management Plans	Variable Per PDZ	EA, TDC, SBC, MoD	Variable per PDZ
	Develop good practice guidance for landowners regarding private maintenance of defences, application for consent.	MCC project + Suffolk Futures ICZM project	High	EA/ECC/MCC EA/SCC/SCDC AONB	Completed
	Desk-based Assessment to identify locations and cultural/ecological significance of coastal historic grazing marshes in South Suffolk and Essex.	English Heritage (National Heritage Protection Plan)	High	EH/NE/ECC/ SCC support AONB/WT's/ RSPB	Before next SMP review
	Investigation to establish the extent of contaminated defences/land and methods for future management Review of policies that concern waste filled sea walls and land following completion.	National EA R&D project. CIRIA project Local desk top study	High	ECC /EA (LA support) MoD	Before next SMP review

Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Asset management	LA Studies that summarise the economic value of defences and what they protect (New information to be used to update policies)	LA information e.g. TDC Pathfinder	Medium	LA's	Before next SMP review
	Update and maintain flood defence asset database (NFCDD) and link with other operating authority/organisation databases.	NFCDD	Medium	EA with SBC, TDC MOD, Networkrail	Next SMP review
	Investigate the currently undefended areas of the coast at erosion risk where assets/properties are at risk and consider management options with asset owners	NCERM	Medium	(LA's) and EA	NCERM Before next SMP review (Shotley ASAP)

Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Communication and Engagement	Review governance framework that ensures delivery of this SMP Action Plan through appropriate groups and networks. Monitor delivery and better integration of wide variety of coastal issues	EA, ECC, SCC ACAG, RFDC, ECRB S&O EMG Suscod	High	All	Upon SMP completion 2010/2011
	Develop a Communications Plan to disseminate the SMP including tools for dissemination	SMP Communication Plan	High	EA with SMP partners	Year 1
	Continue to communicate and raise awareness of flood and erosion risks with coastal communities through existing or improved networks	SMP dissemination Suscod NCERM Pathfinder	High	All partner organisations	Underway- links to NCERM
	Develop a communications plan to ensure active engagement of landowners in habitat creation linked to RHCP	MCC,HLS RHCP -Devereux, Hill House Farm	High	EA, MCC,FWAG, RSPB,WT's, NT's,MCC	ongoing

	Develop a communications plan to ensure active engagement of county-wide spatial and emergency planning officer groups	SMP dissemination Planning Liason Groups Emergency Planning Groups	High	EA, ECC, SCC	Year 1
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Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Emergency response	Develop flood risk guidance specifically for caravan owners, occupants and businesses to raise awareness of risk and emergency plans.	EA Guidance packs for Caravan sites and Communities	High	EA with LA support	ongoing
	Dissemination of flood risk guidance and monitoring that emergency plans are in place for all caravan parks and businesses	Through LA licensing agreements + Flood awareness campaigns	High	LA's with EA support	By year 10
	Ensure landowners have emergency plans in place of a flood event and know what they can do before, during and after a flood event	MCC and Emergency Planners	High	MCC ECC SCC and EA	Year 1 2011
	Ensure key/critical infrastructure owners have emergency plans in place	Multi Agency Flood Plan	High	SCC, ECC, LA's and EA	2015

Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Flood warning and response	Maintain link between SMP outputs and Flood Incident Response team and emergency planners	SMP dissemination Multi Agency Flood Plans LSP/LEP's	High	EA, LA's and ECC/SCC	Year 1
	Proactive engagement with local communities and businesses to raise awareness about flood risk and warning linked to SMP dissemination	SMP dissemination	Medium	SMP Partners	Year 1
	Update flood warning systems to take account of changing SMP policies	EA	Medium	EA	Before next SMP review

Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Interface with planning and land management	Integrate SMP policies into Local Planning Documents and Frameworks including LDF's, Green Infrastructure plans, Open Space reviews and new Marine Plans	Coastal Management Strategy Planning document review process	High	LA's, ECC, SCC MMO	Before Next SMP Review Through LA Planning Document Timetable
	Encourage locally adaptive planning policies that are flexible for the local situation	Planning document review process and planning/licensing applications	High	LA's, ECC, SCC	Through LDF/ LA Planning and Licensing
	Develop planning policy locally for caravan parks within a national policy framework e.g. roll-back policy. This needs to include the issue of permanent residency.	LA's + Caravan Park owner and residents + EA TDC Coastal pathfinder	High	LA's (TDC)	Year 1-5
	Ensure SMP policies feed into Natural England's Coastal access routes for the coast	Natural England Coastal Access Walks	High	NE/EA	Through NE timetable

Provide guidance on liability for landowners who maintain defences with Country Rights Of Way and footpaths that are not designated.	LA's, ECC,SCC,MCC	High	LA's, ECC,SCC, MCC	2011/2012
Provide guidance to planners on liability for breached defences that affect public rights of way and footpaths that run along defences.	LA's, ECC,SCC	Medium	LA's, ECC,SCC	2020
Ensure integration of coastal planning policies with new Marine Management Areas.	Marine Spatial Plans	Medium	LA's	Through Planning process

Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Adaptation	Share lessons learnt from the Coastal Change pathfinders and case studies to support coastal erosion communities	Defra and CI	High	East of England Coastal Initiative	Year 1 2011
	Provide advice for property owners in flood risk areas as to how they can adapt their homes and businesses	Defra and CLG	Medium	Defra and CLG. Local resilience forums	Ongoing
	Study to identify options and tools for adaptation available to farmers to help them adapt to change if faced with a different management policy.	EA, LA's, ECC, SCC MCC, ICZM	Medium	EA and LA's	2020

Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Habitat creation and environmental mitigation	Delivery of intertidal habitat to ensure compliance with the Habitats Regs.	RHCP HLS	Imperative	EA RHCP with NE and landowner support	Functional before losses occur (see Index. .PDZ)
	Investigation of Freshwater habitat replacement opportunities through a local project linked to RHCP	RHCP HLS	Year 1 Imperative	EA RHCP, and local landowner engagement, NE, EWT, SWT, RSPB	2012
	Delivery of freshwater habitat to ensure compliance with Habitats Regs	RHCP HLS	Imperative	EA RHCP, and local landowner engagement, NE, EWT, SWT, RSPB, NT	Functional before losses occur (see Index. .PDZ)

	Delivery of freshwater habitat to ensure compliance with BAP and SSSI	RHCP HLS	High	EA RHCP, and local landowner engagement, NE, EWT, SWT, RSPB, NT	Functional before losses occur (see Index. .PDZ
	Undertake studies through proposed MR schemes there are no significant impacts on seaward activities such as oyster farms, navigation, fisheries, flow within channels and siltation.	EA and NE + LA's	Per PDZ	EA or NE?	Per PDZ

Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Monitoring and Data	Establish a saltmarsh monitoring programme and create a 2010/2011 baseline for future work and discussions about coastal habitat loss. Include local involvement to agree an approach to give a shared confidence in the data.	Regional and local monitoring programmes (EA/NE) Port monitoring HHA	High	EA/NE MOD	Year 1
	Establish a partner/stakeholder group to steer saltmarsh monitoring and ensure transparency of results and promote joined up work programmes.	EA/NE,MCC/Network	High	EA lead with NE and HHA plus others	Year 1
	Beneficial use of Dredging Study to consider opportunities to use dredgings to recharge intertidal areas involving marina's, ports and landowners to establish source/reception possibilities.	New Project	High	EA with linked partners	Year 1-5

	Review and revise the Rapid Coastal Zone Assessment Surveys, particularly for Essex, and contribute to plans for any advance investigative work requirements at PDZ's with changing management policies.	EH,RCZA,ECC	High	EH Lead	Before next SMP review
	Improve understanding of coastal processes at local level – to include potential impacts of offshore/nearshore dredging, and potential impacts of wide-scale managed realignments on sediment budgets. Ensure modelling and monitoring of new schemes and strategies maximises opportunity for wider understanding.	New project RHCP models Marine Spatial Plans Coastal Strategies Estuary Modelling	Med/High	EA/MMO (NCPMS)	SMP review
	Monitoring of SSSI habitats	Condition Assessment		NE	ongoing
	Monitoring of SMP outcomes on protected Landscape areas e.g. AONB	AONB partnership	High	SCHU, NE	Ongoing

Action	Action description	Route for delivery	Priority	Responsibility (lead partner)	Delivery date
Funding and Investment	Develop more flexible funding options to promote uptake of managed realignment opportunities.	National Policy, MCC, Suffolk Coastal Futures (ICZM)	High	NE, EA, DEFRA, Landowners	Before next SMP review
	Develop broader economic evaluation tools that value the environment and amenity value of the coast.	National policy appraisal guidance, Ecosystems services Coastal Initiative	Medium/High	EA, SCC, ECC, NE	Before next SMP review
	Collaborative working to find alternative funding streams for coastal initiatives to support national FCRM funds in providing local solutions for adaptation.	All partner organisations Essex Coastal Renaissance Board	Medium	All partners	Before next SMP review
	Improve our understanding of coastal economics to inform decision-making and provide evidence for funding and partnership work.	Coastal Initiative Economics and Regeneration Study	Medium	Coastal Initiative	Ongoing-2011

Management Unit A: Stour and Orwell Estuaries

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Strategic	All	Embed SMP policies and actions into Estuary management plan approach.	Stour and Orwell Management Plan	High	SCHU Estuary Plan	S&O Estuary Management plan review
Scheme Work	PDZ A7b	Pin Mill – Combination of flood and erosion risk – local community adaptation and risk management options needed	Community project	High	BDC/EA/ SCC and lead partners	
	PDZ A8c	Shotley Gate – issue of community and properties at erosion risk – need for options appraisal and consideration of potential funding streams.	Community project	High	BDC and SCC	Underway

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Scheme Work	PDZ B2	Bathside Bay compensatory realignment site – develop project with port and landowners to establish whether wider realignment of the compartment could be an option through partnership.	EA RHCP	High	HHA/ABP/EA/N E and landowner	Bathside Bay dependant
	PDZ B6b	Development of a partial protection scheme for the Naze to tackle erosion risk at the Naze tower.	TDC	High	TDC/ ECC/ TDC Pathfinder/ Crag Walk project	Ongoing
	PDZ A6	The Strand at Wherstead - Joint approach to consider solutions and funding sources to manage – issue of main road currently undefended and at flood risk.		Med/High	SCC/ BDC and EA	By next SMP review
	PDZ A10b	Mistley – Issue of main road currently undefended and at flood risk. Joint approach to consider solutions and funding sources. Establish ownership.	To be explored	Low	ECC/ TDC and EA.	By next SMP review

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
	PDZ A2	Trimley Marshes – managed realignment epoch 2.	Local partnerships - Under discussion		Lead SWT and Bidwells. EA support	Epoch 2
	PDZ A3a	Loom Pit Lake managed realignment	Local partnerships/RHCP		EA/RHCP	Epoch 2
	PDZ A8b	Shotley Marshes – managed realignment	Local partnerships/RHCP		EA/RHCP	Epoch 2
Asset Management		Continue to manage defences in accordance with Hold the line policies where and when relevant.	EA, local sources of funding		EA	Ongoing
Interface with planning and land management	PDZ A8c	Shotley Gate (linked action) – Investigate the need for the Stour & Orwell to be included under the Coastal Protection Act.	ACAG Coastal protection Act Review	High	SCC/ SCDC/ TDC/ Harwich Authority and EA ECC/ BDC/ IBC/ Haven and	By next SMP review

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Habitat Creation and Environmental management	PDZ A8a	Hill House Farm managed realignment epoch 1	RHCP	High	EA/RHCP	Underway Epoch 1

Management Unit B: Hamford Water

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Asset Management	All	Consider opportunities for use of dredged materials from the port and local marinas in improving/enhancing eroding intertidal areas. Linked to wider strategic review of potential sediment sources and receptor sites for dredged material.	Beneficial use study	High	EA/NE/HHA	Next SMP review
	PDZs B5, B6a and B6b	Continue discussion with Anglian Water to determine the future of the sewage works on The Naze.	EA and AW	High	EA (TDC)	Next SMP review
	All	Continue to manage defences in accordance with Hold the line policies where and when relevant.	EA, local sources of funding		EA	Ongoing

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Interface with planning and land management	PDZ B5	Walton Backwaters – SMP policies and information need to underpin the regeneration opportunities in the new Walton Master Plan and opportunities to facilitate realignment and defence improvements around the back of the Naze should be linked to these proposals.	TDC Core Strategy and LDF review Walton master Plan	High	Lead TDC/EA and HWMC	Underway
Habitat Creation and Environmental management	PDZ B4a	Devereux Farm partial managed realignment. Further realignment required.	RHCP	High	EA	Underway
	PDZ B5	Walton Channel managed realignment. Make links to Walton regeneration projects to see if early studies can be shared.	RHCP/Walton Regeneration Project (TDC)		EA/TDC	Improve understanding by SMP review (Epoch 3)

Management Unit C: Tendring Peninsula

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Strategic	All	Progress coastal strategies for Tendring frontages and establish viable schemes	National FDGIA plus local funding e.g. regeneration funds NCPMS	High	TDC with EA	Underway for Clacton/Holland
	PDZ C2/C4	Studies to confirm HTL/MR dual policies for Epoch 3		Medium	TDC/EA	Next SMP review
Asset Management	All	Continue to manage defences in accordance with Hold the line policies where and when relevant.	EA/ TDC/ local sources of funding		EA/TDC	Ongoing
Communication and Engagement	PDZ C4	As part of dual policy. Jaywick potential managed realignment in epoch 3 – develop a communication plan with partners to ensure joined-up approach to regeneration, flood risk and planning	TDC/EA/ECC Working Group linked to Essex Coastal Renaissance Board Coastnet project TDC Pathfinder	High	ECRB	Underway

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
	PDZ C2	Clacton/Holland Coastal Development communication plan Haven Strategy of	EA/TDC	High	EA/TDC	Underway
Interface with planning and land management		Establish the opportunities and benefits of economic growth and tourism, linked to changing SMP policies – i.e. Ecotourism, marinas linked to managed realignment policies.	TDC	High	ECRB– linked to Pathfinder project and Tendring Strategy	Underway
	PDZ C4	Ensure partnership working and a flexible approach to the planning policies for Jaywick – short-term planning guidance sought to avoid blight	TDC Core Strategy Review TDC/ECC Pathfinder work	High	TDC/ ECC/ ECRB	Year 1-5
Habitat Creation and Environmental	PDZ C1	Issue of managed realignment policy for Naze cliff properties	TDC	High	TDC	Crag Project underway

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
management	All	Develop adaptation strategy/tools for communities and businesses affected by changing coast	TDC – Defra Coastal Change Pathfinder	High	TDC	Underway 2011
	PDZ C2/C4	Potential habitat creation opportunities under dual policy epoch 3 to be explored	RHCP	Low	TDC/EA/RHCP	Epoch 3
Funding and Investment		Develop an over-arching funding strategy – investigation needed into wider funding opportunities and sources	TDC	High	ECRB to lead Pathfinder	Underway

Management Unit D: Colne Estuary

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Scheme Work	PDZ D1b	Point Clear managed realignment, epoch 2.	RHCP	High	EA	2020
	PDZ D2	Flag Creek managed realignment, epoch 3.	RHCP	Medium	EA	post 2020
	PDZ D3	Eastmarsh point managed realignment, epoch 3.	RHCP	Medium	EA	post 2020
	PDZ D5	Westmarsh Point managed realignment, epoch 2.	RHCP	High	EA	2020
	PDZ D6b	Wivenhoe Marshes managed realignment, epoch 2.	RHCP	High	EA	2020
	PDZ D8a	Inner Colne West Bank managed realignment, epoch 2. Currently operational quarry so links needed to establish operational life of business	EA/CBC	High	EA	2020
Asset Management	All	Continue to manage defences in accordance with Hold the line policies where and when relevant.	EA, local sources of funding		EA	Ongoing
	PDZ D8a and D6b	Consider further economic appraisal for these frontages	EA	High	EA	Post 2020

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Communication and Engagement		Managed realignments in Colne – further discussion and engagement of local landowners, caravan parks and quarry's to develop options for managing their defences	EA and CBC	High	LA involvement needed (ECBC/ ECC and CEP)	Ongoing

Management Unit E: Mersea Island

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Scheme work	PDZ E2	Rewsalls Farm – managed realignment epoch 2.	RHCP	Medium	EA	Discussions underway Epoch 1
	PDZ E4a	Strood Channel - managed realignment epoch 2.	RHCP	Medium	EA	Epoch 2
Asset Management	All	Continue to manage defences in accordance with Hold the line policies where and when relevant.	EA, local sources of funding	High	EA	Ongoing
Communication and Engagement		Managed realignments on Mersea island – further discussion and engagement of local landowners to develop options for managing their defences (EA and caravan business owners to lead)	EA and CBC	High	LA involvement needed (ECBC/ ECC)	Ongoing
	PDZ E2	Rewsalls – Early engagement with landowner at Rewsalls has raised need for project through RHCP/ASM to take forward an options appraisal – opportunities for improved recreational access for youth camp under consideration	EA	High	EA lead with landowner and ECC/ ECBC	2011/2012

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Monitoring and Data		Foreshore Recharge options for Cobmarsh/Packing marsh areas	Beneficial Use of Dredgings Study	High	EA/LA	Before SMP review
Non SMP issue	Boat wash Nr Strood	Boat wash issue- address erosion impacts of high speed boatwash on intertidal habitats and flood defences	CBC	Medium	ECBC /MDC	Before SMP review

Management Unit F: Blackwater Estuary

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Scheme Work	PDZ F3	Old Hall Marshes - managed realignment epoch 3.	RHCP		EA	Epoch 3
	PDZ F5	Tollesbury Wick Marshes - managed realignment epoch 3.	RHCP		EA	Epoch 3?
	PDZ F12	Canney House - managed realignment epoch 3.	RHCP		EA	Epoch 3?
	PDZ F14	St Lawrence Bay - managed realignment epoch 2.	RHCP		EA	Epoch 1 Studies Epoch 2 Delivery
	PDZ F14	Feasibility study for a counterwall within the floodcell to reduce flood risk to caravan site	EA/MDC/Park Resorts	Medium	EA/MDC	Epoch 1
Asset Management		Continue to manage defences in accordance with Hold the line policies where and when relevant.	EA, local sources of funding		EA	Ongoing
Communication and Engagement	PDZs F12 and F14	Communication plan for Caravan park owners and residents in F12 and F14 due to MR policies.	EA and MDC	High	EA and MDC	Epoch 1

Management Unit G: Dengie Peninsula

Action	PDZ	Action description	Route for delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Asset Management		Continue to manage defences in accordance with Hold the line policies where and when relevant.	EA, local sources of funding	High	EA	Ongoing
		Waste-filled walls investigation throughout Dengie –	Essex Waste and sea Defence Study National R&D and CIRIA links	High	ECC and EA	By next SMP review
		HtL policy will be challenging and landowners need to take a more active role in maintenance and improvements of defences	MCC	High	EA/MDC/NFU and CLA	Underway
Interface with planning and land management	PDZ G1	Potential development of power station at Bradwell – opportunities arising from development need to be capitalised on by LA's and ECC	MDC, ECC	Medium	EA/MDC/CBC/ECC	Subject to New nuclear build timetable
Adaptation		Issue of on-going freshwater drainage through Dengie as sea level rises and need to link SMP with CFMP in terms of future drainage/pumping etc.	Inland Strategic Overview Maintenance protocol and CFMP links	Medium	EA	By next SMP review

Management Unit H: Roach and Crouch Estuaries

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Scheme Work	PDZ H2a	Managed realignment epoch 2.	RHCP		EA	
	PDZ H2b	Managed realignment epoch 3.	RHCP		EA	
	PDZ H8b	Canewdon - managed realignment epoch 2.	RHCP		EA	
	PDZ H11a and H11b	Managed realignment epoch 2. This will require careful consideration of the options, including landowner involvement and ensuring continued protection of Paglesham Churchend and Paglesham Eastend	RHCP	Med/High	EA	
Asset Management	PDZs H1, H2, and H3	Network issues on north bank of Crouch – as railway line is in flood plain and could become secondary line of defence by default but not designed to be a flood bank. This needs investigation with EA/Network Rail regarding future management and potential capital investment	EA, Network Rail	High	EA/MDC/DC/ECC and Network Rail	

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Asset Management		Waste-filled walls investigation throughout Roach and Crouch Estuary– due to presence of waste material in vulnerable defences which is limiting flood defence management options and presents potential contamination issues in flood event (WFD). National policy under consideration – link to that is needed.	Waste & Flood Defences Study,EA, MDC, RDC	High	RDC/ MDC/ DC/ECC and EA	
	All	Continue to manage defences in accordance with Hold the line policies where and when relevant.	EA, local sources of funding		EA	Ongoing
Non SMP issue	Boat wash Upper Crouch	Boat wash issue- address erosion impacts of high speed boatwash on intertidal habitats and flood defences	CBC	Medium	CBC /MDC	Before SMP review

Management Unit I: Foulness Peninsula

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Asset Management	All	Continue to manage defences in accordance with Hold the line policies where and when relevant.	EA, local sources of funding		EA	Ongoing
Communication and Engagement	All	Improved communication and a framework for cooperative working with MOD at Foulness and Potton due to issue of standard of defences and need for MOD contributions to PSA targets for saltmarsh 2010 onwards.	Communication plan		ECC/EA/RDC	
Emergency response	All	Proactively engage with MOD and Defence estates to ensure they have appropriate community plans in place to deal with a flood event at Potton, Foulness and Shoebury Ness	Communication Plan Emergency Plan	High	ECC/ RDC and EA	Year 1
Habitat Creation and Environmental	All	HTL policies will require links RHCP	Coastal strategy	High	SBC/EA	Ongoing

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
management	PDZ I1c	Rushley Island – managed realignment epoch 2	RHCP		EA	Studies Epoch 1 Scheme Epoch 2

Management Unit J: Southend on Sea

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Strategy	PDZ J1	Progress local FCRM Strategy pending approval for capital works to frontage	National FDGIA Agreed	High	SBC and EA	Feb 2010
Asset Management	PDZ J1	Two Tree Island – Issue of contaminated land and erosion risk. Need for environmental improvements to ensure contaminated material is contained.	Waste and Defence Study	High	SBC/ECC/EA	2020/SMP3 Review
	All	Continue to manage defences in accordance with Hold the line policies where and when relevant.	EA, SBC, local sources of funding	High	EA/SBC	Ongoing
Scheme work		Great Wakering – develop a scheme to protect properties in Great Wakering area to a greater standard?		High	EA/MOD/SBC	Year 1-5
Interface with Planning and land Management	All	Link between SMP policies and spatial planning doc eg; LDF/Core strategy	SBC	High	SBC	LDF/Review

Action	PDZ	Action description	Route for Delivery	Priority	Responsibility (lead partner)	When by (subject to funding)
Habitat Creation and Environmental management	All	HTL policies will require links RHCP	Identify need in Southend Coastal strategy SBC/EA	High	SBC/EA	Ongoing