

Officer Decision Making ENVIRONMENT AND TRANSPORT PORTFOLIO

Thursday, 17th February, 2011
at 2.00 pm

PLEASE NOTE TIME OF MEETING

Office of the Head of Planning and
Sustainability

This meeting is not open to the public

Members

The Head of Planning and Sustainability

Contacts

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AGENDA

Agendas and papers are now available via Southampton Online at
www.southampton.gov.uk/council/meeting-papers

1 **APPROVAL OF THE RIVER ITCHEN, WESTON SHORE, NETLEY AND HAMBLE COASTAL DEFENCE STRATEGY**

Report of the Sustainability Policy Manager seeking approval for the seeking approval for the adoption of the River Itchen, Weston Shore, Netley and Hamble Coastal Defence Strategy (CDS) to provide a strategic level basis for decision making and action related to the management of the coastline over the next 100 years above plan, attached.

Under delegated power granted by Cabinet on 25th October, 2010 the Head of Planning and Sustainability was requested to prepare and approve any regional and local coastal strategies intended to address the risk of coastal flooding and erosion that are subordinate to and provide additional detailed guidance on the Shoreline Management Plan.

Wednesday, 9 February 2011

SOLICITOR TO THE COUNCIL

DECISION-MAKER:	HEAD OF PLANNING AND SUSTAINABILITY
SUBJECT:	RIVER ITCHEN, WESTON SHORE, NETLEY AND HAMBLE COASTAL DEFENCE STRATEGY
DATE OF DECISION:	17 TH FEBRUARY 2011
REPORT OF:	SUSTAINABILITY POLICY MANAGER
STATEMENT OF CONFIDENTIALITY	
Not applicable.	

BRIEF SUMMARY

The purpose of this report is to seek approval to adopt the policies emerging from the River Itchen, Weston Shore, Netley and Hamble Coastal Defence Strategy (CDS). The CDS is a non-statutory document that provides a sustainable strategy for coastal defence which is compatible with natural processes, environmentally acceptable, economically and technically viable and which is compatible with preferred management strategies in neighbouring areas and with the higher level North Solent Shoreline Management Plan (SMP). The CDS outlines sustainable policies for management of the shoreline and feasible implementation options over 3 time periods: present day (0-20 years); medium-term (20-50 years); and long-term (50-100 years). Development of the CDS was led by Southampton City Council in partnership with Eastleigh Borough Council, Fareham Borough Council & Hampshire County Council.

RECOMMENDATIONS:

- (i) To adopt the River Itchen, Weston Shore, Netley & Hamble Coastal Defence Strategy
- (ii) To endorse the action plan that will need to be taken forward over the duration of the plan period.

REASONS FOR REPORT RECOMMENDATIONS

1. To enable sustainable and strategic management of the coastline over the next 100 years through a hierarchical approach where the SMP forms the top tier policy, directly supported by the CDS.
2. Endorsement of the action plan will provide a mechanism for management through a series of monitoring and communication activities.
3. Adoption of the CDS by contributing local authorities will facilitate future applications for national funding towards management of coastal flood and erosion risks.

ALTERNATIVE OPTIONS CONSIDERED AND REJECTED

4. The alternative would be to not adopt the River Itchen, Weston Shore, Netley & Hamble Coastal Defence Strategy. This option was rejected on the basis that it would not encourage management of the frontage and prevent gaining Environment Agency sign off, thus hindering Southampton City Council in future bidding for national funding to manage coastal flood and erosion risks.

DETAIL (Including consultation carried out)

5. A CDS is developed to reflect the framework outlined in the area's SMP and uses additional information to make a more comprehensive assessment. In general the recommendations are consistent with the SMP unless detailed investigations, including geomorphological, economic and environmental, suggest that these should be revised. The Itchen to Hamble CDS was originally based on the Western Solent and Southampton Water SMP 1998; however this has recently been superseded by with the revised North Solent SMP (2010). Hence, it was necessary to co-ordinate the policies of the CDS and the North Solent SMP to ensure consistency between the two documents.
6. The River Itchen, Weston Shore, Netley & Hamble CDS was developed through a local partnership between Southampton City Council (lead authority), Eastleigh Borough Council, Fareham Borough Council & Hampshire County Council (observers).
7. The study area for the River Itchen, Weston Shore, Netley & Hamble CDS covers the eastern bank of the River Itchen extending northwards to Woodmill Lane, the Southampton Water frontage and both the eastern and western banks of the River Hamble as far as the Bursledon Railway Bridge.
8. The CDS study area is divided according to the original 'Policy Units' and 'Management Units' outlined in the Western Solent and Southampton Water SMP. Each policy unit represents a section of coastline that demonstrates similar coastal process characteristics which are sufficiently independent of adjacent stretches of shoreline. Each policy unit is subdivided into smaller management units which enable identification of different defence options and consideration of their impact on features within that management unit. The management units for the Itchen to Hamble CDS study area are outlined below (see Appendix 1 for illustration), along with the corresponding policy unit in the North Solent SMP:

Management Unit	Unit Boundaries	Corresponding North Solent SMP Policy Unit
<i>Policy Unit: ITCH</i>	Itchen West bank – Southampton Port to Woodmill Lane Bridge Itchen East bank - Woodmill Lane Bridge to Weston Point.	
*ITCH 3	Woodmill Lane Bridge to Cobden Bridge	5C11
*ITCH 4	Cobden Bridge to Weston Point	
<i>Policy Unit: NET</i>	Weston Point to Hamble Point: runs along Southampton Water between rivers Itchen & Hamble.	
*NET 1	Weston Point to Netley Castle	5C10
NET 2	Netley Castle to Netley Hard	5C09
NET 3	Netley Hard to Cliff House, Hamble	
NET 4	Cliff House to Mitchell Point Industrial Park	5C08

NET 5	Ensign Industrial Park & Hamble Oil Terminal	5C07
NET 6	Hamble Oil Terminal to Hamble Common	5C06
Policy Unit: HAM	Hamble Common Point to Bursledon on west bank & to Hook Park on east bank	
HAM 1	Hamble Common Point to Satchell Marshes	5C05
HAM 2	Satchell Marshes to Badnam Creek	5C04
HAM 3	Badnam Creek to Lands End Lane	
HAM 4	Lands End Lane to Swanwick Shore Rd	5C04/5C03
HAM 5	Swanwick Shore Rd to Universal Marina	5C02
HAM 6	Universal Marina & associated boatyard	
HAM 7	Universal Marina to Warsash North	
HAM 8	Warsash North to Hook Park	5C01

* Management units of direct relevance to Southampton City Council

9. The policy alternatives which were considered whilst developing the draft CDS are:

Policy	Comment
<i>No Active Intervention (NAI)</i>	Make no changes to the existing defence (except to comply with health and safety legislation) and allow natural processes to take place.
<i>Active Intervention Maintain (AIM)</i>	Actively maintain the existing defence which can include improvement works to extend its life and increase its potential for future defence.
<i>Active Intervention Sustain (AIS)</i>	Actively sustain the existing defence to ensure it delivers the same benefits as present. Any works to increase the effectiveness of the defence will not be permitted.
<i>Managed Realignment (MR)</i>	Actively retreat the line of defence landward to a predefined distance.

10. Policy options are derived from analysis of a number of policy drivers and their susceptibility to tidal flooding and coastal erosion hazards at present and in the future in light of predictions of climate change and sea level rise. The policies are then scrutinised by economic and environmental assessments to determine the most sustainable approach to the future management of the policy unit. The CDS will outline possible implementation options in order to achieve the outlined policies for intervention, although these are not limited to capital works (i.e. construction of defences) but can include any programme of management or action, for example flood warning strategy, flood forecasting or adaptive measures.
11. Throughout its preparation, River Itchen, Weston Shore, Netley & Hamble CDS has been subjected to consultation, both internal and external. Involvement from Officer representatives from all contributing local authorities has been an ongoing process throughout development of the plan. An initial round of written

consultation was completed in May 2006. The primary purpose of this stage was to obtain available information on issues relevant to the study area prior to developing the options within the CDS. A formal period of public consultation was held between 16th August and 5th November 2010. Officers were involved in the review of the comments received and subsequent responses, which had the potential for significant revisions or changes to the plan and/or policy options. Through this approach the final policy options and revisions arising from the consultation process were agreed.

12. The final CDS policies for the management units relevant to Southampton City Council are outlined below:

Policy Unit		Epoch 1 0-20yrs	Epoch 2 20-50yrs	Epoch 3 50-100 yrs
ITCH 3	Woodmill Lane Bridge to Cobden Bridge	AIM	AIM	NAI
ITCH 4	Cobden Bridge to Weston Point	AIM	AIM	NAI
NET 1	Weston Point to Netley Castle	AIM	AIM	AIM

The NAI policy in the third epoch for ITCH 3 and 4 does not prevent private landowners from maintaining their existing defences but it will preclude the expenditure of national funding on this frontage. Coastal Defence Strategies are usually reviewed every 5-7 years (funding dependent) to update the policies in light of new data and knowledge that becomes available in the interim.

13. **Action Plan:** The identified actions outlined in the Action Plan (Appendix 2) are necessary to enable the River Itchen, Weston Shore, Netley & Hamble CDS policy options to be implemented.

RESOURCE IMPLICATIONS

Capital/Revenue

14. The River Itchen, Weston Shore, Netley & Hamble CDS is a non-statutory policy document which does not commit the Council to any capital expenditure.
15. Delivery of the activities of relevance to Southampton within the action plan, in order to implement the policy options within the CDS, are likely to require revenue expenditure to an estimated value of £450,000 over the next 20 years. However, a number of the passive activities (such as monitoring & informing) are likely to be absorbed in normal staff costs and delivered through work elements by existing staff. Resources for project activities (such as ground investigations) have not presently been identified in future budgets. It is the intention that the annual revenue costs will be met from the existing E&T revenue estimates.

Property/Other

16. There are no immediate property implications arising from the River Itchen, Weston Shore, Netley and Hamble CDS. Should property implications be identified as implementation of the CDS develops, these will be brought to

members after consultation with relevant interested parties.

17. There are no additional identified resource implications.

LEGAL IMPLICATIONS

Statutory power to undertake proposals in the report:

18. The statutory power to undertake proposals to manage coastal flood and erosion risks are held by Southampton City Council under the Coast Protection Act 1949 and the Land Drainage Act 1991, although these are permissive powers only.

Other Legal Implications:

19. There are no additional identified legal implications.

POLICY FRAMEWORK IMPLICATIONS

20. The policies within the River Itchen, Weston Shore, Netley and Hamble CDS are consistent with and will inform the flood risk management elements/policies within the series of documents comprising the Local Development Framework and they will be a material consideration in determining relevant planning applications along this section of coastal frontage in Southampton.

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KEY DECISION? Yes

WARDS/COMMUNITIES AFFECTED:	BITTERNE PARK, PEARTREE, WOOLSTON
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SUPPORTING DOCUMENTATION

Non-confidential appendices are in the Members' Rooms and can be accessed on-line

Appendices

1.	River Itchen, Weston Shore, Netley & Hamble CDS Study Area & Management Units
2.	River Itchen, Weston Shore, Netley & Hamble CDS Action Plan

Documents In Members' Rooms

1.	None
2.	

Integrated Impact Assessment

Do the implications/subject of the report require an Integrated Impact Assessment (IIA) to be carried out.	No
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Other Background Documents

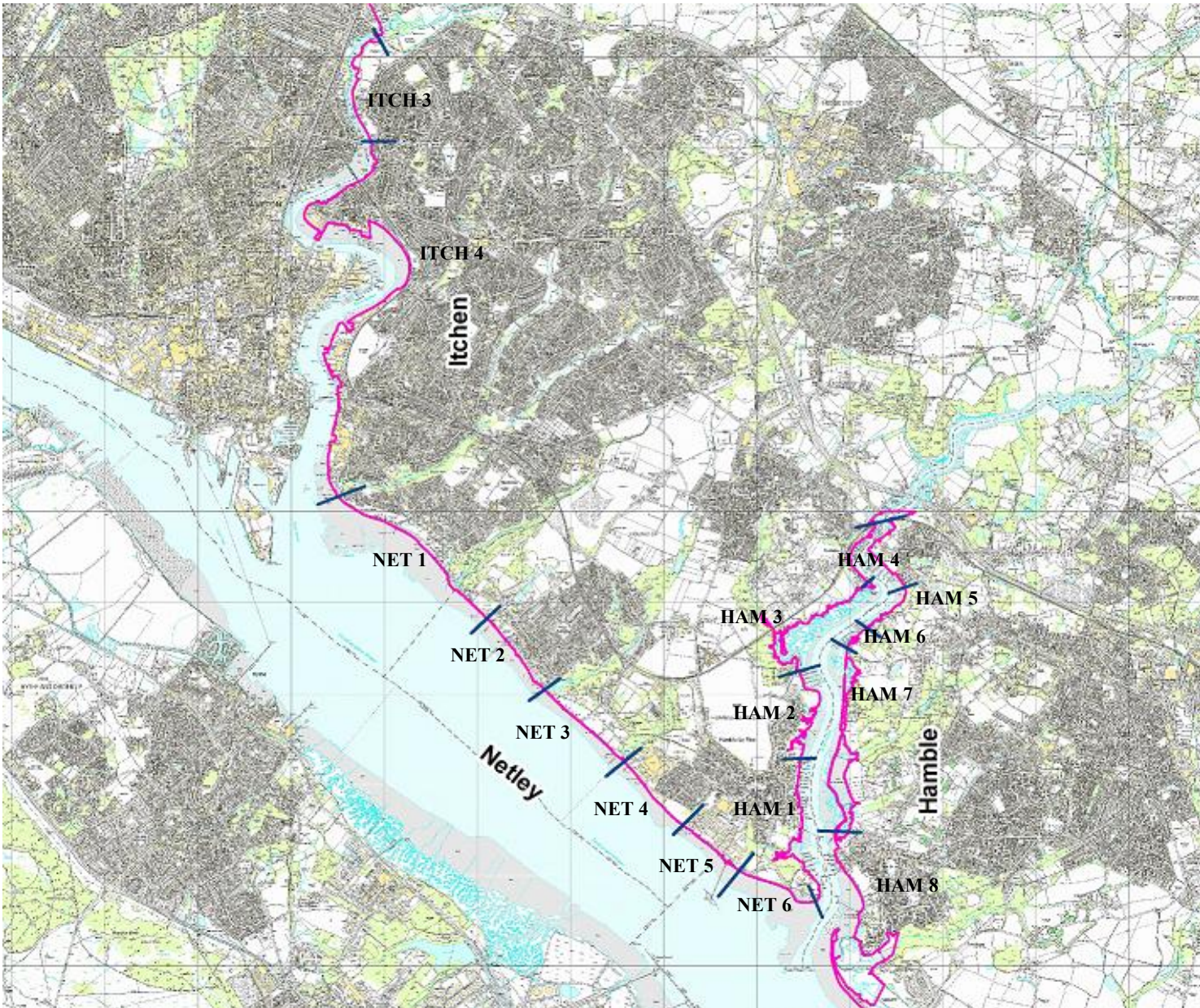
Integrated Impact Assessment and Other Background documents available for inspection at:

Title of Background Paper(s)

Relevant Paragraph of the Access to Information Procedure Rules / Schedule 12A allowing document to be Exempt/Confidential (if applicable)

1.		
2.		

River Itchen, Weston Shore, Netley & Hamble Coastal Defence Strategy Management Units



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Policy Unit	Recommended Policy Option (0-20 year period)	Action Plan					
		0-5 years		5-10 years		10-20 years	
		Action	Estimated Cost	Action	Estimated Cost	Action	Estimated Cost
ITCH3	ACTIVE INTERVENTION (MAINTAIN)	Revetment along Riverside Park to be monitored annually.	£3,000 per annum	Revetment along Riverside Park to be monitored annually.	£3,500 per annum	Revetment along Riverside Park to be monitored annually.	£4,000 per annum
		Notify landowners of their responsibilities to protect their own property (Year 1)	£1,000	Notify landowners of their responsibilities to protect their own property (every 5 years)	£1,500	Notify landowners of their responsibilities to protect their own property. (every 5 years)	£2,000
		Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£3,000 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£3,500 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£4,000 per annum
ITCH4	ACTIVE INTERVENTION (MAINTAIN)	Notify Network Rail and landowners of their responsibilities to protect their assets and/or property against flooding and erosion.	£1,000	Notify landowners of their responsibilities to protect their own property (every 5 years)	£1,500	Notify landowners of their responsibilities to protect their own property. (every 5 years)	£2,000
		Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£3,000 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£3,500 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£4,000 per annum
NET1	ACTIVE INTERVENTION (MAINTAIN)	The relic land fill site located on the frontage and is possibly at risk of eroding and causing potential diffuse pollution to Southampton Water. Therefore ground investigation is required to assess the levels of toxic material that could enter Southampton Water as a result of flooding and coastal erosion	£60,000	Annual monitoring of risk of pollution incidents from the relic land fill site	£10,000 per annum	Annual monitoring of risk of pollution incidents from the relic land fill site	£11,000 per annum
NET2	ACTIVE INTERVENTION (MAINTAIN)	NET2 Policy Unit requires maintenance to defences through refurbishment of existing defences.	£560,000	Monitor beach levels to ensure beach material and existing defences continues to provide adequate defences against flood and erosion to properties (every 5 years).	£10,000	Monitor beach levels to ensure imported beach material continues to provide adequate defences against flood and erosion to properties (every 5 years).	£10,000
NET3	ACTIVE INTERVENTION (MAINTAIN)	NET3 Policy Unit requires maintenance to defences through nourishment of the existing beach.	£1,630,000	Monitor beach levels to ensure imported beach material continues to provide adequate defences against flood and erosion to properties (every 5 years).	£10,000	Monitor beach levels to ensure imported beach material continues to provide adequate defences against flood and erosion to properties (every 5 years).	£10,000
NET4	NO ACTIVE INTERVENTION	Notify landowners of their responsibilities to protect their property.	£1,000	Notify landowners of their responsibilities to protect their own property (every 5 years)	£1,500	Notify landowners of their responsibilities to protect their own property (every 5 years).	£2,000
		Monitoring and identification of public safety issues arising from coastal flooding and erosion,	£3,000 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion,	£3,500 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion,	£4,000 per annum
		Commission a study to determine the suitability of the land adjacent to the Hamble Oil Terminal as a habitat creation/enhancement.	£25,000	-	-	-	-
NET5	ACTIVE INTERVENTION	Notify landowners of their responsibilities to protect their property.	£1,000	Notify landowners of their responsibilities to protect their own property (every 5 years)	£1,500	Notify landowners of their responsibilities to protect their own property (every 5 years).	£2,000

Policy Unit	Recommended Policy Option (0-20 year period)	Action Plan					
		0-5 years		5-10 years		10-20 years	
		Action	Estimated Cost	Action	Estimated Cost	Action	Estimated Cost
		Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£3,000 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£3,500 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£4,000 per annum
HAM7	NO ACTIVE INTERVENTION	Notify landowners of their responsibilities to protect their property.	£1,000	Notify landowners of their responsibilities to protect their own property (every 5 years)	£1,500	Notify landowners of their responsibilities to protect their own property (every 5 years).	£2,000
		Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£3,000 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£3,500 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£4,000 per annum
HAM8	NO ACTIVE INTERVENTION	Notify landowners of their responsibilities to protect their property.	£1,000	Notify landowners of their responsibilities to protect their own property (every 5 years)	£1,500	Notify landowners of their responsibilities to protect their own property (every 5 years).	£2,000
		Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£3,000 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£3,500 per annum	Monitoring and identification of public safety issues arising from coastal flooding and erosion.	£4,000 per annum
		Total estimated costs (0-5 years)	£2,498,000	Total estimated costs (5-10 years)	£329,000	Total estimated costs (10-20years)	£716,000

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