

6 Action Plan

6.1 Introduction

The draft North Devon and Somerset (NDAS) SMP was issued for consultation in October 2009. The consultation period ended on 8th January 2010. All comments raised during the consultation period were collated, reviewed and a response to each comment was recorded in the Consultation Feedback Report (see **Appendix B**). Where it was possible to respond to the comments immediately, the SMP was amended and the changes can be viewed in the final version of the SMP. In some cases, it was not possible to respond to the comments immediately, for reasons such as further study is required to fully answer the question; or suggestions for further work were made during the consultation period, for example to better understand the implications of an option for the coastline, the social environment, or natural environment. To account for these comments, and to formalise the actions required to complete the necessary studies, the SMP Action Plan was completed.

The Action Plan provides a list of actions that should now be taken by the Environment Agency and local authorities in the period up to the next SMP review, which will ultimately lead to better informed decision making relating to coastal management policy at the coast. This is nominally a 5 to 10 year period, however, the SMP provides for reassessment of this timescale should an earlier review be considered necessary.

The Action Plan has been completed using the latest format guidance provided by the SMP National Quality Review Group. **Appendix M** contains the full Action Plan produced in the national format for ease of future reporting of Action Plan progress. However, for ease of reading, a summary of the Action Plan is presented here in Section 6. The actions are split into those that are applicable to the whole SMP area (Section 6.2) and those that apply to specific areas or locations (Section 6.3). These specific areas, also referred to in the plan as Policy Scenario Areas, are based on the sections of coast for which it has been identified that there is a significant processes interaction for developing SMP policies.

In the preceding sections a summary of the actions to be taken is provided, along with a table for each section giving specific detail. In accordance with the guidance provided by the SMP National Quality Review Group, an 'action type' is assigned to each action, as shown in Table 6.1. Other details include a description of the action, potential source for funding, who is responsible for the action, when it should be completed by, and its relative importance and links with other actions. Table 6.2 provides a description of the table headings in the summary action tables presented in Sections 6.2 and 6.3.

Table 6.1 Description of Action Types, as defined by the SMP Review Group (2010)

Heading	Example Activities
Study	Studies and investigations, including site investigations, modelling, coastal stability studies.
Strategy	Preparation and review of strategies.
Scheme Work	Capital works.
Coastal Monitoring (ongoing)	Regional and local. Data collection and analysis.
Asset Management	Includes preparation of Asset Management Plans, maintenance.

The above provides the *local* details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Heading	Example Activities
Communication	Communication activities not covered by other headings e.g. maintaining website, ongoing engagement with stakeholders.
Planning	Activities relating to engagement with spatial planning; work to influence planning documents (e.g. Local Development Frameworks (LDFs) & Regional Spatial Strategies (RSSs)) and decisions relating to development control.
Contingency Planning & Emergency Response	Contingency and emergency response planning and engagement.
Adaptation/Resilience	Studies and engagement with others to consider development and implementation of adaptation activities at the coast.
Early Warning	Activities relating to the development and implementation of early warning.
Habitat Creation	Studies and works related specifically to the creation and restoration of habitats; work related to Regional Habitat Creation Programmes (RHCP).
Funding	Link to Medium Term Plan (MTP) entry. Identification and pursuit of alternative funding sources for any Flood and Coastal Risk Management (FCRM) activities.
SMP Management and Monitoring	Procedures for the management of the SMP until its next review such as steering group meetings. Include processes for monitoring progress and expenditure; also for considering impacts upon the plan of changes in policy or new guidance, or the emergence of new data. Links to National Indicator (NI) 189. Identify and publish lessons learnt.

Table 6.2 Description of table headings in summary Action Plan tables presented in Sections 6.2 and 6.3

Table Heading	Detail Provided
Action Type	This is the type of action as defined in Table 6.1.
Action Reference	<p>This is a unique reference number for each separate action.</p> <p>In Section 6.2 these are prefixed “NDAS.ALL.” – “NDAS” refers to the North Devon and Somerset SMP2; “ALL” refers to being applicable to the whole SMP area.</p> <p>In Section 6.3 these are prefixed “NDAS.PSA” – where “PSA” is followed by a number specific to which Policy Scenario Area the action relates to.</p> <p>In both cases the last part of the reference is two numbers, for example “2.1”. In this example “2” refers to the action type (refer to above) and “1” refers to this being the first action under this header in this section.</p>
Policy Unit	This states which policy units the action relates to within the policy area. In Section 6.2 “ALL” is stated here as actions applying to the whole SMP area.

The above provides the *local* details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details *must* be read in the context of the wider-scale issues and policy implications, as reported therein.

Table Heading	Detail Provided
Action Description	This provides details of what action is to be taken.
Potential source for funding (subject to approval)	Identifies likely source of funding to implement each action. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes.
Responsibility (lead partner)	This identifies which organisation(s) should take the lead in taking forward the action.
When by (subject to funding)	Gives an indication of when an action should be completed by. This also gives indication of relative urgency but has also been defined in considering all actions.
Relative importance and links with other actions	This describes the relative importance of undertaking an action in relation to other actions. For example, undertaking more intensive monitoring to inform detailed study later on. Links to other actions either in the same area or for the whole SMP area are also indicated.

6.1 SMP Wide Actions

This section sets out a range of actions that are applicable to the whole of the North Devon and Somerset (NDAS) SMP2 frontage and these should be read in combination with specific actions stated for each smaller section of coast (Policy Scenario Area) discussed in Section 6.3.

These SMP wide actions are aimed at ensuring that the actions required to implement the SMP are taken in the period before the next SMP review. This is to be achieved through (i) the establishment of procedures to monitor progress by the coastal group and (ii) engagement with relevant organisations and planners to ensure that any decisions made relating to the future development/management of the coastline are fully informed by the implications of the policies in this SMP. This engagement and communication also needs to extend to all stakeholders and the general public, especially in areas where there is likely to be a need for adaptation in the medium to long term as defence provision is withdrawn. In such areas adaptation plans to guide what changes in an area are required and how they are to be delivered are likely to be required. Development of adaptation plans should seek to draw upon the outcomes from Pathfinder projects.

Continuation of the South West Strategic Regional Coastal Monitoring Programme is vital to ensure that the next SMP review and all coastal risk management decisions taken in the interim are informed by site specific, evidence based data. Actions to undertake additional, or increase the frequency of, monitoring to obtain additional data is also included for in some areas.

Additional recommendations include studies to investigate implications for health and safety in areas where the policy is for No Active Intervention to occur and defences will not be maintained; and to improve understanding of sediment dynamics within the wider Bristol Channel. Review of existing (Severn Estuary) and development of further Coastal Habitat Management Plans (CHaMPS) is also recommended as a means of aiding management of habitat change.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.3 Actions for the whole North Devon & Somerset SMP2 area

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
1. Studies for Policy Scenario Area	NDAS.ALL.1.1	All	Undertake a study of the sediment dynamics of the Bristol Channel and the interaction with coastal areas to develop improved understanding of sediment transport pathways and linkages to inform future management decisions.	Defra/WAG Environment Agency	Environment Agency	2020	This study would be very useful not only for informing flood and coastal risk management studies but also other studies such as those investigating renewable energy options in the Severn Estuary. This may therefore be an opportunity for a joint study with that work. Refer also to Action Plan item NDAS.ALL.7.4.
	NDAS.ALL.1.2	All	In areas where the policy is for No Active Intervention to occur, the lack of maintenance of defences in the future may pose a health and safety risk, as structures become unsafe for public use. An investigation into the implications for health and safety of No Active Intervention policy along parts of the SMP frontage should be carried out to inform future management decisions about areas where removal of defences may be necessary.	Defra/ Environment Agency	Environment Agency / Local Authorities	2020	There are a number of areas where a policy of No Active Intervention may cause a health and safety issue, although it is not likely that this will occur until at least the end of the first epoch in some areas, and during the medium term in most areas. Therefore this study should be completed before the next SMP review.
	NDAS.ALL.1.3	All	Ensure that all studies, strategies and schemes work with the requirements of the Water Framework Directive (WFD), referring in each case to the River Basin Management Plan and associated action plan for the region.	n/a	Environment Agency / Local Authorities	ongoing	Compliance with the WFD is a statutory requirement and therefore this action needs to be undertaken as part of all future coastal projects.
	NDAS.ALL.1.4	All	Ensure that all studies, strategies and schemes work with the requirements of the Catchment Flood Management Plans (CFMPs) and associated action plans in each location.	n/a	Environment Agency / Local Authorities	ongoing	The CFMPs provide policy for flood risk management in similar way to the SMP. Therefore this action needs to be undertaken as part of all future coastal projects to ensure that implementation of SMP policy does not contrary to the CFMP policy.
	NDAS.ALL.1.5	All	Ensure that all studies, strategies and schemes work give adequate consideration to nature conservation and historic environment assets (including historic landscapes) to both fully understand and manage implications of future management decisions as well as to seek, where practical, opportunities to improve the condition of the natural and historic environment.	n/a	Environment Agency / Local Authorities	ongoing	Assessment of the natural and historic environment should be done at an appropriate level of detail depending on the project, and should engage with relevant bodies such as Natural England and English Heritage.
2. Studies for Policy Units	-	-	-	-	-	-	-
3. Strategy	-	-	-	-	-	-	-
4. Scheme Work	-	-	-	-	-	-	-
5. Coastal Monitoring (ongoing)	NDAS.ALL.5.1	All	Continue the Strategic Regional Coastal Monitoring Programme to improve the amount and quality of information on which to base future management decisions.	Defra/ Environment Agency	Environment Agency / Teignbridge District Council	ongoing	This is vital to improve understanding of coastal processes and assess the risk to the integrity of existing coastal defences.
	NDAS.ALL.5.2	All	Ensure that periodic defence inspection, including assessment of condition and photographic recording, is undertaken and that defence crest levels are confirmed.	Defra/ Environment Agency	Environment Agency	ongoing	Continued monitoring of the condition of defences is important to inform future management decisions. This could be carried out as part of studies/strategies where they are to occur along parts of this frontage. Refer also to Action Plan item NDAS.ALL.6.1.
	NDAS.ALL.5.3	All	Develop and implement routine cliff inspection and monitoring to provide improved information about cliff behaviour and recession. This could be included in the remit of the Strategic Regional Coastal Monitoring Programme or carried out separately. Consideration should also be given to establishing an expert	Defra/ Environment Agency	Environment Agency / Teignbridge District Council	ongoing	Cliff recession information needs to be improved to inform future revisions of erosion risk maps. Refer also to Action Plan item NDAS.ALL.8.1.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
			review group to advise on recession risk in areas of complex cliff processes. This information should not only be used in future coastal management by informing future updates of the National Coastal Erosion Risk Mapping, but also to assist in stakeholder liaison by use of data in public education campaigns.				
6. Asset Management	NDAS.ALL.6.1	All	The National Flood and Coastal Defence Database (NFCDD) needs to be reviewed and updated to ensure that the information it contains is both accurate and current. This should consider being expanded to cover both public and private defences so that defence information is readily available from a single source for use in future coastal risk management planning.	Defra/ Environment Agency	Environment Agency / Local Authorities	ongoing	Whilst the NFCDD has recently been updated with information collected in parallel to this SMP, there are still many gaps in the data it contains for public assets. It lacks basic information on all publically owned assets, and does not include details of private defences. Without this, a source for identifying where private assets are located does not exist. Continual improvements to the defence information are required. This could be carried out as part of studies/strategies where they are to occur along parts of this frontage. Refer also to Action Plan item NDAS.ALL.5.2.
7. Communication	NDAS.ALL.7.1	All	Undertake consultation with key stakeholders and general public during development of adaptation plans to ensure an acceptable approach is developed.	Defra/ Environment Agency	Environment Agency / Local Authorities	ongoing	This action should be undertaken as adaptation plans are developed for different parts of the coast. Refer also to Action Plan item NDAS.ALL.10.1.
	NDAS.ALL.7.2	All	Maintain and develop the coastal group website as a means for communicating how SMP policies are being taken forward under the Action Plan.	North Devon and Somerset Coastal Advisory Group	NDASCAG	ongoing	The www.ndascag.org website should be updated on an ongoing basis with details of progress as studies, strategies, schemes and other initiatives are undertaken.
	NDAS.ALL.7.3	All	Engage with planners in all local authorities and county councils to ensure that they are fully aware of the SMP policies. This should also involve engagement with relevant organisations (e.g. highways, utilities) to ensure that the plans of those organisations also fully consider the SMP policies. To implement this policy consideration to a use of a range of media types should be given, including articles in relevant industry publications.	n/a	Environment Agency / Local Authorities	2010	This should be carried out as soon as practical following adoption of the SMP to ensure that planners are able to take full account of SMP policies. This will also help fulfil Action Plan items NDAS.ALL.8.2 and NDAS.ALL.10.1.
	NDAS.ALL.7.4	All	Engage with the Severn Tidal Power Schemes project to ensure that coastal flood and erosion issues are fully assessed as part of detailed studies into renewable energy options for the Severn Estuary.	n/a	Environment Agency / Local Authorities	ongoing	The potential construction of a renewable energy scheme in the Severn Estuary could have significant implications for coastal flood and erosion risk management and this action needs to be actively pursued as Phase 2 of the feasibility study, led by the Department for Energy and Climate Change and the Welsh Assembly Government, progresses.
8. Planning	NDAS.ALL.8.1	All	Continue with improvements to flood and erosion risk maps to provide improved information for land use planning and future coastal risk management.	Defra/ Environment Agency	Environment Agency / Local Authorities	ongoing	Updates of flood and erosion risk maps are to occur and incorporate new information. In the case of erosion risk maps, improvements will be greatly aided by data to be collected under Action Plan item NDAS.ALL.5.3.
	NDAS.ALL.8.2	All	Ensure SMP policies and flood and erosion risks are accounted for in the next revisions of land use plans in order to help manage residual risks from flooding and erosion, and to inform future planning decisions.	n/a	Environment Agency / Local Authorities	ongoing	This action will need to be implemented as each Local Development Framework is developed. It will be greatly aided by Action Plan item NDAS.ALL.7.3.
9. Contingency Planning & Emergency Response	NDAS.ALL.9.1	All	Review, develop/update and monitor contingency/evacuation/emergency response plans to prepare for coastal flood or cliff recession events in light of the final SMP policies.	n/a	Environment Agency / Local Authorities	2011	Upon adoption of the Plan, emergency/contingency/evacuation plans should be reviewed and updated as appropriate to take account of SMP policies. This should follow Action Plan item NDAS.ALL.7.3.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
10. Adaptation / Resilience	NDAS.ALL.10.1	All	Engage with other organisations (e.g. Highways, Heritage and Utilities) and general public to inform them of the potential future risks of flood and coastal erosion as a result of SMP policies and work with these to develop plans for adapting to the changing risk. Development of adaptation plans should utilise outcomes from the Pathfinder projects.	n/a	Environment Agency / Local Authorities	ongoing	Development of adaptation plans will be an ongoing process. This will be aided by Action Plan item NDAS.ALL.7.3 and also require ongoing communication in line with Action Plan item NDAS.ALL.7.1.
11. Early Warning	NDAS.ALL.11.1	All	Continue with improvements to flood risk maps and inundation modelling to provide improved flood warning service.	Defra / Private	Environment Agency / Local Authorities	ongoing	This is an ongoing item as new information becomes available. Refer also to Action Plan item NDAS.ALL.8.1.
12. Habitat Creation	NDAS.ALL.12.1	All	Use the Regional Habitat Creation Programme (RHCP) to develop plans for any required mitigation or compensatory habitat.	Defra/ Environment Agency	Environment Agency	ongoing	The RHCP will provide a regional context to habitat creation needs and secure compensation/mitigation measures required for specific schemes. This will be updated as new information becomes available.
	NDAS.ALL.12.2	All	Review the existing Coastal Habitat Management Plan (CHaMP) for the Severn Estuary as part of the Flood and Coastal Risk Management Strategy, to help manage habitat change and to allow planning for strategic replacement or relocation of habitats as the coast evolves.	Defra	Environment Agency	2020	The CHaMP will aid delivery of the RHCP (refer to Action Plan item NDAS.ALL.12.1).
13. Funding	NDAS.ALL.13.1	All	Investigate the situation with regards providing financial compensation in areas where a policy of Managed Realignment has been identified, in order to provide guidance to both Local Authorities and Stakeholders on this issue.	Defra/Environment Agency	Environment Agency	2012	The issue of providing financial compensation to properties/landowners in areas where a policy for Managed Realignment is recommended (in order to aid facilitation of policy implementation) has been highlighted through public consultation as being a significant concern, both by Local Authorities and Stakeholders. Investigation of this issue and ultimately provision of guidance will help to clarify the situation on this matter.
14. SMP Management and Monitoring	NDAS.ALL.14.1	All	Undertake monitoring and management of Action Plans to ensure SMP policies are put into practice. This should include developing procedures for the management of the SMP until its next review such as steering group meetings, processes for monitoring progress and expenditure (with links to NI 189), and recording in a single database a full list of studies and activities undertaken in the period before the next SMP review. It should also allow for considering impacts upon the plan of changes in policy or new guidance, or the emergence of new data. For example, implications for assessment and valuation of agricultural land following publication of the UK Food Security Assessment.	n/a	Bristol Channel Strategic Coastal Group	ongoing	Development of procedures and processes for monitoring progress on the SMP should be developed as soon as possible after final adoption of the plan. Monitoring of progress will be an ongoing process. Recording of all studies and activities could be carried out in combination with Action Plan item NDAS.ALL.7.2.
	NDAS.ALL.14.2	All	Identify and publish lessons learnt from development of SMP.	n/a	Environment Agency / Local Authorities	2011	The lessons learnt from development of this SMP should be published in the period immediately after final adoption and publication of the plan. This should be provided to the National Quality Review Group to allow lessons learnt on this SMP to be collated and reviewed alongside lessons learnt from SMP2s undertaken around the rest of England and Wales.
NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.							

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.2 Policy Scenario Area Actions

6.2.1 Policy Scenario Area I (PSAI) – Lundy

This scenario area encompasses the predominantly undefended, naturally functioning cliffed coastline of Lundy, as well as the small defended area at Landing Beach that provides the only access point to the island (policy units 7c01 and 7c02).

The main issue here is the continued provision of defence at Landing Beach (7c01) such that access can be maintained to the benefit of both the small number of residents and the many visitors to the island that also generate income for the local economy. The main actions for this area are therefore to develop a long term asset management plan for Landing Beach and investigate options for funding of these.

Future decisions here will also need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under ‘Action Type – 5. Coastal Monitoring (ongoing)’ in Table 6.3).

Please note, that whilst the following Table 6.4 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.4 Actions for the policy scenario area of Lundy (Policy Units 7c01 and 7c02)

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
1. Studies for Policy Scenario Area	-	-	-	-	-	-	-
2. Studies for Policy Units	-	-	-	-	-	-	-
3. Strategy	-	-	-	-	-	-	-
4. Scheme Work	-	-	-	-	-	-	-
5. Coastal Monitoring (ongoing)	-	-	-	-	-	-	-
6. Asset Management	NDAS.PSA1.6.1	7c01	Engage and work with relevant organisation to appraise the condition of the defences and ensure that there is an adequate Asset Management Plan in place for ongoing maintenance and improvement in the immediate term. This should include investigation of sustainable options for long term defence provision in these areas.	Private	Landowner	2013	Ensure information on these defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item NDAS.ALL.6.1. Issues of funding are to be addressed as part of this action in combination with Action Plan item NDAS.PSA1.13.1.
7. Communication	-	-	-	-	-	-	-
8. Planning	-	-	-	-	-	-	-
9. Contingency Planning & Emergency Response	-	-	-	-	-	-	-
10. Adaptation / Resilience	-	-	-	-	-	-	-
11. Early Warning	-	-	-	-	-	-	-
12. Habitat Creation	-	-	-	-	-	-	-
13. Funding	NDAS.PSA1.13.1	7c01	As part of investigating options for long term management of assets, investigate options for different funding sources in order to implement this.	Private	Landowner	2013	This is to be undertaken in combination with Action Plan item NDAS.PSA1.6.1
14. SMP Management and Monitoring	-	-	-	-	-	-	-

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.2.2 Policy Scenario Area 2 (PSA2) – Hartland Point to Westward Ho!

This scenario area encompasses the predominantly undefended, naturally functioning cliffed coastline between Hartland Point and Westward Ho!, within which sits the harbour and settlement of Clovelly that is an important economic resource for the wider area (policy units 7c03 to 7c05).

The main issue along this frontage is the continued provision of defence at Clovelly (7c04). These defences here are of varying age and type and include the historic harbour breakwater. In the immediate term an asset management plan is needed to ensure that maintenance of the existing structure is adequate whilst investigation of longer term defence requirements is undertaken.

A further issue here is the future localised protection of Bucks Mills (within 7c05). Here the policy is for No Active Intervention although it is recognised in the plan that future defence here is unlikely to have a significant impact on coastal processes. As such, investigation into potential funding sources for future defence here should be carried out in the immediate term. If funding is not available, then an adaptation plan should be developed to help plan for the long term when no defences will be present in this area. The planning of adaptation measures and associated community engagement that is required to develop these should be undertaken in line with the relevant SMP wide actions in Section 6.2.

Future decisions here will also need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under ‘Action Type – 5. Coastal Monitoring (ongoing)’ in Table 6.3).

Please note, that whilst the following Table 6.5 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.5 Actions for the policy scenario area between Hartland Point to Westward Ho! (Policy Units 7c03 to 7c05)

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
1. Studies for Policy Scenario Area	-	-	-	-	-	-	-
2. Studies for Policy Units	NDAS.PSA2.2.1	7c04	Work with relevant organisations and the land owner to undertake a study to investigate options for the long term sustainable defence of Clovelly. This study should include consideration of construction of a new harbour arm outside of the historic harbour arm and the implications for shoreline sediment transport.	To be determined	Torridge District Council	2020	The defences at Clovelly are thought likely to be adequate for the immediate term subject to maintenance being carried out, which is to be guided by the outcome of Action Plan item NDAS.PSA2.6.1. The long term management of Clovelly should be resolved in advance of the next SMP review.
3. Strategy	-	-	-	-	-	-	-
4. Scheme Work	NDAS.PSA2.4.1	7c04	The need for any works to extend the defences, in order to prolong their effective life, is to be advised by outcomes of Action Plan item NDAS.PSA2.6.1.	To be determined	Torridge District Council	To be determined	A decision on the requirements for any future works is to be based on the outcomes of Action Plan item NDAS.PSA2.6.1.
5. Coastal Monitoring (ongoing)	-	-	-	-	-	-	-
6. Asset Management	NDAS.PSA2.6.1	7c04	Engage and work with relevant organisations and the land owner to appraise the condition of the defences and ensure that there is an adequate Asset Management Plan in place for ongoing maintenance in the immediate term to ensure the existing defences continue to provide protection whilst longer term options are developed.	To be determined	Torridge District Council	2014	The Asset Management Plan should be developed in the immediate future to ensure that there is a robust plan in place to prolong the effective life of the defences for as long as possible, until such time as long term future defence provision is determined as part of Action Plan item NDAS.PSA2.2.1.. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item NDAS.ALL.6.1.
7. Communication	NDAS.PSA2.7.1	7c04	Undertake consultation with key stakeholders and residents in developing long term option for the protection of Clovelly.	To be determined	Torridge District Council	2015	This is to be undertaken in combination with Action Plan item NDAS.PSA2.6.1.
8. Planning	-	-	-	-	-	-	-
9. Contingency Planning & Emergency Response	-	-	-	-	-	-	-
10. Adaptation / Resilience	NDAS.PSA2.10.1	7c05	Engage with key stakeholders and the local community to begin to develop an adaptation plan for the medium to long term coastal change at Bucks Mills if funding for future defence is not forthcoming.	Defra/Environment Agency	Torridge District Council	Ongoing	Development of an adaptation plan will be required if the outcomes of investigation into funding for future defence at Bucks Mills (Action Plan item NDAS.PSA2.13.2) are not favourable. Refer also to SMP wide Action Plan items NDAS.ALL.7.1 and NDAS.ALL.10.1.
11. Early Warning	-	-	-	-	-	-	-
12. Habitat Creation	-	-	-	-	-	-	-
13. Funding	NDAS.PSA2.13.1	7c04	Investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area.	To be determined	Environment Agency	2020	This should be considered during the development of the Study in Action Plan item NDAS.PSA2.2.1 to ensure that all possible options are considered.
	NDAS.PSA2.13.2	7c05	Investigate opportunities for funding future defence works at Bucks Mills from	To be determined	Torridge District	2012	Investigation of alternative funding sources to provide localised defence at Bucks Mills should be undertaken in the immediate

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
			non-flood and coastal defence budget sources.		Council		term to allow decisions about future coastal risk management in this area to be taken in a timely manner. For example, development of an adaptation plan – refer to Action Plan item NDAS.PSA2.10.1.
14. SMP Management and Monitoring	-	-	-	-	-	-	-
NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.							

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.2.3 Policy Scenario Area 3 (PSA3) – Westward Ho! to Saunton Down, including the Taw/Torridge Estuary

This scenario area extends from Westward Ho! to Saunton Down and encompasses the Taw/Torridge Estuary within which are located several extensively developed areas including the towns of Bideford and Barnstaple (policy units 7c06 to 7c31).

There are many flood and coastal erosion risk management issues to be addressed within this area in the immediate term, not least:

- Long-term sustainable defence provision at Westward Ho! (7c06).
- Implementation of managed realignment at Northam Burrows (7c07 and 7c08) including requirement for set-back defences to protect features such as the landfill site at the northern end of the Burrows, improving drainage of the Burrows, and land use adaptation.
- Within the Taw/Torridge Estuary (7c09 to 7c29) many areas have potential for undertaking managed realignment. However there is much uncertainty over which areas in isolation and combination are right for implementing managed realignment, particularly with regards to implications for sediment dynamics within the estuary and adjacent open coast areas. There is also uncertainty over how managed realignment can best work with the Tarka Trail and whether allowing inundation through the trail or relocating the trail as part of realignment is the most appropriate option.
- Investigation and management of erosion risk along the southern side of Saunton Down (7c31) including development of and adaptation plan in this area where intervention may not occur if alternatives to flood and coastal defence budget are not available.

The issues and uncertainties surrounding Westward Ho!, Northam Burrows and the Taw/Torridge Estuary are to be addressed in the first instance by a Strategy Study for this area. The erosion risk at Saunton Down is a more localised problem that may be investigated separately to the Strategy Study.

Please note, that whilst the following Table 6.6 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the *local* details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details *must* be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.6 Actions for the policy scenario area between Westward Ho! and Saunton Down, including the Taw Torridge Estuary (Policy Units 7c06 to 7c31)

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
1. Studies for Policy Scenario Area	-	-	-	-	-	-	-
2. Studies for Policy Units	NDAS.PSA3.2.1	7c16	Develop a Dune Management Plan for the dunes at Instow to ensure that the defence function of the dunes continues to be provided.	Defra/ Environment Agency	North Devon Council	2015	This should occur following completion of the Strategy Study in Action Plan item NDAS.PSA3.3.1 and utilise data from the outcome of Action Plan item NDAS.PSA3.5.1.
	NDAS.PSA3.2.2	7c31	Investigate in detail the erosion risk at Saunton Down to inform future management decisions and/or development of an adaptation plan.	Defra/ Environment Agency	North Devon Council	Ongoing	Refer also to SMP wide Action Plan item NDAS.ALL.5.3.
	NDAS.PSA3.2.3	7c30	Develop a Dune Management Plan for the dunes at Braunton Burrows to guide future management of the dunes such that recreational use does not adversely affect the defence function or environmental interests of the site.	To be determined	North Devon Council	2020	This could occur following completion of the Strategy Study in Action Plan item NDAS.PSA3.3.1 and utilise data from the outcome of Action Plan item NDAS.PSA3.5.1. However, the main issue for these dunes at the present time is from recreational use and so a dune management plan to manage this could be developed earlier.
3. Strategy	NDAS.PSA3.3.1	7c06 to 7c30	Undertake a Strategy Study extending from Westward Ho! to Saunton Down, including the Taw/Torridge Estuary, to determine the best approaches for delivering the Shoreline Management Plan policies and develop a programme of works. Include a detailed assessment of coastal and estuarine defence condition and assessment of the methods for implementing managed realignment in the Taw/Torridge Estuary and the implications of doing so in isolation and in combination for sediment dynamics in the area. Consider future climate change, investment plan and funding options, and determine future management and maintenance roles/responsibilities for different defence assets within the area.	Defra/ Environment Agency	Environment Agency	2014	The Strategy Study is planned to begin in the near future, with the scoping stage recently completed. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item NDAS.ALL.6.1. Assessment of managed realignment options should also work with the Regional Habitat Creation Programme (refer also to Action Plan item NDAS.ALL.12.1).
4. Scheme Work	NDAS.PSA3.4.1	7c06 to 7c30	To be defined by strategy.	Defra/ Environment Agency	Environment Agency	ongoing	The need for works will be determined from the Strategy Study in Action Plan item NDAS.PSA3.3.1.
5. Coastal Monitoring (ongoing)	NDAS.PSA3.5.1	7c16	Extend coverage of beach profile monitoring to include the dunes at Instow whilst also ensuring the beach at Westward Ho! and along Northam Burrows, including the Pebble Ridge, is also regularly monitored.	Defra/ Environment Agency	Environment Agency / Teignbridge District Council	2011	Currently no information is collected for the dunes at Instow. Medium to long term management decisions will require information and so this should be implemented in the immediate term as part of the ongoing strategic coastal monitoring programme. Refer also to SMP wide Action Plan item NDAS.ALL.5.1. This will inform the development of the dune management plan in Action Plan item NDAS.PSA3.2.1.
6. Asset Management	-	-	-	-	-	-	-
7. Communication	NDAS.PSA3.7.1	7c06 to 7c30	Undertake consultation with key stakeholders and general public during strategy development to ensure an acceptable approach for the future management of coastal flood and erosion is developed.	Defra/ Environment Agency	Environment Agency / Local Authorities	ongoing	This will form a key component in the development of the Strategy Study in Action Plan item NDAS.PSA3.3.1.
8. Planning	-	-	-	-	-	-	-
9. Contingency	-	-	-	-	-	-	-

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
Planning & Emergency Response							
10. Adaptation / Resilience	NDAS.PSA3.10.1	7c31	Engage with key stakeholders and the local community to begin to develop an adaptation plan for the medium to long term coastal change at Saunton Down if funding for future defence is not forthcoming.	To be determined	North Devon Council	Ongoing	Development of an adaptation plan will be required if the outcomes of investigation into funding for future defence at Saunton Down (Action Plan item NDAS.PSA3.13.2) are not favourable. Refer also to SMP wide Action Plan items NDAS.ALL.7.1 and NDAS.ALL.10.1.
11. Early Warning	-	-	-	-	-	-	-
12. Habitat Creation	NDAS.PSA3.12.1	7c06 to 7c30	Habitat creation potential within the Taw/Torridge Estuary should work with the Regional Habitat Creation Programme to deliver benefits to the wider region.	Defra/ Environment Agency	Environment Agency	ongoing	Refer also to SMP wide Action Plan item NDAS.ALL.12.1.
13. Funding	NDAS.PSA3.13.1	7c06 to 7c30	Investigate opportunities for co-funding future defence works at various locations with other organisations to provide the maximum possible benefit from such works to the area.	n/a	Environment Agency	2014	This should be considered during the development of the Strategy Study in Action Plan item NDAS.PSA3.3.1 to ensure that all possible options are considered.
	NDAS.PSA3.13.2	7c31	Investigate opportunities for funding future defence works at Saunton Down from non-flood and coastal defence budget sources.	To be determined	North Devon Council	2012	Investigation of alternative funding sources to provide localised defence at Saunton Down should be undertaken in the immediate term to allow decisions about future coastal risk management in this area to be taken in a timely manner. For example, development of an adaptation plan – refer to Action Plan item NDAS.PSA3.10.1.
14. SMP Management and Monitoring	-	-	-	-	-	-	-
NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.							

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.2.4 Policy Scenario Area 4 (PSA4) – Saunton Down to Morte Point

This scenario area extends from Saunton Down to Morte Point (policy units 7c32 to 7c39) along the north-eastern part of Bideford Bay. It is comprised of the two small embayments of Croyde Bay and Woolacombe Bay that are bound by hard rock headlands.

The majority of this area is undefended and comprised of hard rock cliffs and dunes. The risk of erosion and flooding is small and unlikely to justify intervention in the long term. Therefore the policy of No Active Intervention in this area means that adaptation plans need to be developed in the immediate term to allow long term planning for coastal change.

Localised defences occur along parts of each bay, notably at Middleborough Hill in Croyde Bay (7c33) and Putsborough Sands and Vention (7c36). Whilst continued defence of these areas along similar alignments as present is unlikely to impact upon wider coastal processes, these defended areas are privately owned and unlikely to attract public funding (from the flood and coastal defence budget). The main actions here are therefore to engage and work with the relevant land owners to identify how future defence provision may be most suitably achieved in these areas and, if it is not possible, then include these areas in adaptation plans to be developed for the rest of this area.

Please note, that whilst the following Table 6.7 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.7 Actions for the policy scenario area between Saunton Down to Morte Point (Policy Units 7c32 to 7c39)

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
1. Studies for Policy Scenario Area	-	-	-	-	-	-	-
2. Studies for Policy Units	-	-	-	-	-	-	-
3. Strategy	-	-	-	-	-	-	-
4. Scheme Work	NDAS.PSA4.4.1	7c33, 7c36	The need for any schemes is to be advised by outcomes of Action Plan item NDAS.PSA4.6.1.	Private	Environment Agency / North Devon Council	To be determined	Any decisions on the requirement for a scheme(s) are to be based on the outcomes of Action Plan item NDAS.PSA4.6.1.
5. Coastal Monitoring (ongoing)	-	-	-	-	-	-	-
6. Asset Management	NDAS.PSA4.6.1	7c33, 7c36	Engage and work with private defence owners to appraise the condition of their defences and ensure that there is an adequate Asset Management Plan in place for ongoing maintenance in the immediate term. This should include investigation of sustainable options for long term defence provision in these areas if funding from non-public funds (flood and coastal defence budget) are available to achieve this.	Private	Environment Agency / North Devon Council	2015	Ensure information on private defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item NDAS.ALL.6.1. Issues of funding are to be addressed as part of this action in combination with Action Plan item NDAS.PSA4.13.1.
7. Communication	NDAS.PSA4.7.1	7c32 to 7c39	Engage with key stakeholders and the local community to begin to develop an adaptation plan for the medium to long term coastal change along this area.	To be determined	North Devon Council	Ongoing	Development of an adaptation plan will be required for units 7c33 and 7c36 if the outcomes of investigation into funding for future defence (Action Plan item NDAS.PSA4.13.1) are not favourable. Refer also to SMP wide Action Plan items NDAS.ALL.7.1 and NDAS.ALL.10.1.
8. Planning	-	-	-	-	-	-	-
9. Contingency Planning & Emergency Response	-	-	-	-	-	-	-
10. Adaptation / Resilience	NDAS.PSA4.10.1	7c32 to 7c39	Engage with key stakeholders and the local community to begin to develop an adaptation plan for the medium to long term coastal change along this area. Should private defences not be maintained in the future in units 7c33 and 7c36, then an adaptation plan should include these areas also.	To be determined	North Devon Council	Ongoing	Development of an adaptation plan will be required for units 7c33 and 7c36 if the outcomes of investigation into funding for future defence (Action Plan item NDAS.PSA4.13.1) are not favourable. Refer also to SMP wide Action Plan items NDAS.ALL.7.1 and NDAS.ALL.10.1.
11. Early Warning	-	-	-	-	-	-	-
12. Habitat Creation	-	-	-	-	-	-	-
13. Funding	NDAS.PSA4.13.1	7c33, 7c36	As part of investigating options for long term management of assets, investigate options for different funding sources in addition to private funds.	Private	Environment Agency / North Devon Council	2015	This is to be undertaken in combination with Action Plan item NDAS.PSA4.6.1

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
14. SMP Management and Monitoring	-	-	-	-	-	-	-

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.2.5 Policy Scenario Area 5 (PSA5) – Morte Point to Minehead (west)

This scenario area extends from Morte Point to the western side of Minehead (policy units 7d01 to 7d18). Much of this length is comprised of undefended, natural cliffs that are interspersed with areas of development such as Lee, Ilfracombe, Combe Martin, Lynmouth and Porlock Weir.

There is a range of flood and coastal erosion risk management issues to be addressed within the area in the immediate term, including:

- Need to engage and work with communities to develop adaptation plans for adjusting to future coastal change in areas where the policy is for defence provision to be withdrawn in the medium to long term if non-flood and coastal defence budget funds are not available for this purpose (e.g. Watermouth Slipway (7d08) and Porlock Weir (7d16)).
- Long-term requirements for providing defence to Lee (7d02), Ilfracombe (7d04), Hele Beach (7d06), Combe Martin (7d10) and Lynmouth (7d12) in a sustainable way.

In areas where the policy is for defence provision to be withdrawn in the medium to long term if alternative (non-flood and coastal defence budget) funds are not able to continue defence provision, then engagement with communities should begin to develop adaptation plans for when this change occurs, in line with the relevant SMP wide Action Plan items in Section 6.2. However, in the immediate term investigation of alternative funding and development of asset management plans to ensure existing structures are at least maintained in the short term should be developed for these areas.

Similarly, asset management plans for each of the areas where long term defence is to continue should also be developed to guide future maintenance and improvement works.

Future decisions here will also need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under 'Action Type – 5. Coastal Monitoring (ongoing)' in Table 6.3).

Please note, that whilst the following Table 6.8 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the *local* details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details *must* be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.8 Actions for the policy scenario area between Morte Point to Minehead (west) (Policy Units 7d01 to 7d18)

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
1. Studies for Policy Scenario Area	-	-	-	-	-	-	-
2. Studies for Policy Units	NDAS.PSA5.2.1	7d15 to 7d17	Undertake a detailed study to investigate the future flood and erosion risk as well as impacts of continuing to allow defence of Porlock Weir in the long term. Such information will inform future management decisions for Porlock Bay as a whole as well as guide adaptation planning measures should funds for continued defence not be available.	Defra / Private	Environment Agency	2013	Whilst detailed study was undertaken as part of a Defra/EA R&D project completed in 2005, this focused on the area of the breach in Porlock Bay and less on the whole bay. Further detailed study should be undertaken to provide further assessment of flood and erosion risk particularly at Porlock Weir. This will inform future management decisions in this area and should be undertaken in the immediate term. Alternatively this could be included in the strategy study in Action Plan item NDAS.PSA5.3.1.
3. Strategy	NDAS.PSA5.3.1	7d14 to 7d18	Undertake a Strategy Study extending from Foreland Point to Hinkley Point to determine the best approaches for delivering the Shoreline Management Plan policies and develop a programme of works. Include a detailed assessment of coastal defence condition and assessment of the methods for implementing SMP policy and the implications of doing so in isolation and in combination for sediment dynamics in the area. Consider future climate change, investment plan and funding options, and determine future management and maintenance roles/responsibilities for different defence assets within the area.	Defra/ Environment Agency	Environment Agency	2013	The Strategy Study is planned to begin in the near future, with the scoping stage recently completed. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item NDAS.ALL.6.1. Assessment of managed realignment options should also work with the Regional Habitat Creation Programme (refer also to Action Plan item NDAS.ALL.12.1. Refer also to Action Plan item NDAS.PSA5.2.1.
4. Scheme Work	NDAS.PSA5.4.1	7d02, 7d04, 7d06, 7d10, 7d12	The need for any schemes is to be advised by outcomes of Action Plan item NDAS.PSA5.6.1.	Defra/ Environment Agency	North Devon Council	To be determined	The requirements for defence works should be informed by the outcomes of the asset management plans in Action Plan item NDAS.PSA5.6.1.
5. Coastal Monitoring (ongoing)	NDAS.PSA5.5.1	7d15 to 7d17	Review monitoring within Porlock Bay and, if necessary, implement further routine monitoring to ensure that adequate information on the roll back of the gravel ridge is recorded such that it informs future management decisions and allows assessment of the impacts and implications on the Porlock Ridge and Salt March SSSI to be assessed.	Defra/ Environment Agency	Natural England / National Trust / Environment Agency / Teignbridge District Council	Ongoing	This information will allow assessment of the implications for the SSSI of allowing the gravel ridge in Porlock Bay to roll back under a policy of NAI. It will also be of use
6. Asset Management	NDAS.PSA5.6.1	7d02, 7d04, 7d06, 7d10, 7d12	Engage and work with relevant organisations to appraise the condition of the defences in each area and ensure that there is an adequate Asset Management Plan in place for ongoing maintenance in the immediate term. This should include investigation of sustainable options for long term defence provision in these areas.	Private	North Devon Council	2015	Ensure information on private defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item NDAS.ALL.6.1. Issues of funding are to be addressed as part of this action in combination with Action Plan item NDAS.PSA5.13.1.
	NDAS.PSA5.6.2	7d08, 7d16	Engage and work with private defence owners to appraise the condition of their defences and ensure that there is an adequate Asset Management Plan in place for ongoing maintenance in the immediate term. This should include investigation of sustainable options for long term defence provision	Private	Environment Agency / North Devon Council / West Somerset	2014	Ensure information on private defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item NDAS.ALL.6.1. Issues of funding are to be addressed as part of this action

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
			in these areas if funding from non-public funds (flood and coastal defence budget) are available to achieve this.		Council		in combination with Action Plan item NDAS.PSA5.13.2. At Porlock Weir (7d16), consideration of long term options should be informed by the outcomes of Action Plan item NDAS.PSA5.2.1.
7. Communication	NDAS.PSA5.7.1	7d02, 7d04, 7d06, 7d10, 7d12	Undertake consultation with key stakeholders and general public during asset management plan development to ensure an acceptable approach for the future management of coastal flood and erosion is developed.	Defra/ Environment Agency	North Devon Council	2015	To be done in combination with Action Plan item NDAS.PSA5.6.1.
	NDAS.PSA5.7.2	7d01, 7d03, 7d05, 7d07, 7d08, 7d09, 7d11, 7d12, 7d13, 7d14, 7d15, 7d16, 7d17, 7d18	Engage with key stakeholders and the local community to begin to develop adaptation plans for the medium to long term coastal change along this area. This could possibly be assisted by the Somerset Pathfinder project until Spring 2011.	To be determined	North Devon Council / West Somerset Council / Somerset County Council	Ongoing	Development of an adaptation plan will be required for units 7d08 and 7d16 if the outcomes of investigation into funding for future defence (Action Plan item NDAS.PSA5.13.2) are not favourable. Refer also to SMP wide Action Plan items NDAS.ALL.7.1 and NDAS.ALL.10.1.
8. Planning	-	-	-	-	-	-	-
9. Contingency Planning & Emergency Response	-	-	-	-	-	-	-
10. Adaptation / Resilience	NDAS.PSA5.10.1	7d01, 7d03, 7d05, 7d07, 7d08, 7d09, 7d11, 7d12, 7d13, 7d14, 7d15, 7d16, 7d17, 7d18	Engage with key stakeholders and the local community to begin to develop adaptation plans for the medium to long term coastal change along this area where the policy is for No Active Intervention. This could possibly be assisted by the Somerset Pathfinder project until Spring 2011. Should private defences not be maintained in the future in units 7d08 and 7d16, then adaptation plans should be developed for these areas also.	To be determined	North Devon Council / West Somerset Council / Somerset County Council	Ongoing	Development of an adaptation plan will be required for units 7d08 and 7d16 if the outcomes of investigation into funding for future defence (Action Plan item NDAS.PSA5.13.2) are not favourable. Refer also to SMP wide Action Plan items NDAS.ALL.7.1 and NDAS.ALL.10.1.
11. Early Warning	-	-	-	-	-	-	-
12. Habitat Creation	-	-	-	-	-	-	-
13. Funding	NDAS.PSA5.13.1	7d02, 7d04,	Investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area.	n/a	North Devon Council	2015	This should be considered during the development of the asset management plans in Action Plan item

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
		7d06, 7d10, 7d12					NDAS.PSA5.6.1 to ensure that all possible options are considered.
	NDAS.PSA5.13.2	7d08, 7d16	As part of investigating options for long term management of assets, investigate options for different funding sources in addition to private funds.	Private	Environment Agency / North Devon Council	2014	This is to be undertaken in combination with Action Plan item NDAS.PSA5.6.2
14. SMP Management and Monitoring	-	-	-	-	-	-	-
NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.							

The above provides the *local* details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.2.6 Policy Scenario Area 6 (PSA6) – Minehead to Blue Anchor

This scenario area extends from Minehead to Blue Anchor (policy units 7d19 to 7d23). Defence of Minehead is provided by groynes and beach management whilst rock armour and sea wall protects much of Blue Anchor. Between these areas defence is provided by low-lying gravel ridges and embankments that are, in places, maintained by the Environment Agency and private land owners.

There is a range of flood and coastal erosion risk management issues to be addressed within the area in the immediate term, including:

- The medium to long term sustainability of defence provision along The Warren (7d20) and Dunster Beach (7d21) frontages in the existing alignment needs to be investigated, along with options for secondary defence to reduce the risk of backdoor flooding to Minehead that could occur if flooding of these areas occurs. This needs to be considered in combination with long term management options for Minehead (7d19), including the influence of the terminal groyne on the east side of Minehead on sediment transport and erosion to the east of this point.
- A realigned defence along Ker Moor (7d22) needs to be investigated, including how this can work with the West Somerset Railway and be integrated with secondary defence requirements along The Warren (7d20) and Dunster Beach (7d21) area.
- The potential immediate term risk of erosion to the eastern end of Blue Anchor and the B3191 (7d23) needs to be addressed through ongoing monitoring and possible defence construction to ensure that the road is protected as it approaches Blue Anchor, in support of maintenance of the seawall defences along the rest of Blue Anchor that were constructed in the last few years.

These issues are to be addressed in the first instance by a Strategy Study, although immediate works to address erosion problems at The Warren (7d20) and on the east side of Blue Anchor (7d23) could occur in the immediate future in advance of the strategy being completed.

Future decisions here will also need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under 'Action Type – 5. Coastal Monitoring (ongoing)' in Table 6.3).

Please note, that whilst the following Table 6.9 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.9 Actions for the policy scenario area between Minehead to Blue Anchor (Policy Units 7d19 to 7d23)

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
1. Studies for Policy Scenario Area	-	-	-	-	-	-	-
2. Studies for Policy Units	-	-	-	-	-	-	-
3. Strategy	NDAS.PSA6.3.1	7d19 to 7d23	Undertake a Strategy Study from Foreland Point to Hinkley Point that includes the Minehead to Blue Anchor frontage, to determine the best approaches for delivering the policies and develop a programme of works. Include a detailed assessment of coastal defence condition and long term sustainable defence requirements for the frontage, including options for a secondary defence, as well as ensuring that coastal process interactions along this whole frontage are well understood and accounted for in any future management decisions.	Defra/ Environment Agency	Environment Agency	2013	The Strategy Study should be informed by a greater body of data from the ongoing coastal monitoring programme, but should be undertaken in the near future to address the risk of backdoor flooding to Minehead. Refer also to SMP wide Action Plan items NDAS.ALL.5.1, NDAS.ALL.5.2 and NDAS.ALL.5.3.
4. Scheme Work	NDAS.PSA6.4.1	7d20	In order to reduce the immediate risk of erosion that could lead to a breach through the embankment along The Warren frontage, re-construct the embankment to ensure that protection in this area is not compromised in the near future whilst long term options are considered as part of the strategy study.	Defra/ Environment Agency	Environment Agency / West Somerset Council	2011	This work should be undertaken upon adoption of the SMP as it has already been identified as an action from other recent studies. To do so will not compromise the long term aims of the SMP but will reduce risk before the strategy study is completed (refer also to Action Plan item NDAS.PSA6.3.1).
	NDAS.PSA6.4.2	7d23	In order to reduce the risk of cliff recession impacting upon the B3191 at the eastern end of Blue Anchor the defences in this area may need to be improved and possibly extended slightly eastwards in the immediate term to support ongoing maintenance of the other defences along the Blue Anchor frontage that serve to protect this road. The need for this will be guided by ongoing monitoring of the cliffs.	Private / Somerset County Council (Highways)	West Somerset Council / Somerset County Council	2011	This work could be undertaken upon adoption of the SMP as there is potential for significant erosion in this area that could impact the B3191 in the immediate term if a large landslip occurs. To do so will not compromise the long term aims of the SMP but will reduce risk before the strategy study is completed (refer also to Action Plan item NDAS.PSA6.3.1). Alternatively, a decision to intervene could be delayed until further monitoring data is available, that is to be collected in line with Action Plan item NDAS.ALL.5.3.
5. Coastal Monitoring (ongoing)	-	-	-	-	-	-	-
6. Asset Management	NDAS.PSA6.6.1	7d19	Review the Minehead Beach Management Plan following completion of the Strategy Study to ensure that there is a robust plan for managing the beach and associated hard defence and control structures such that defence provision continues to be provided at the required standard.	Defra/ Environment Agency	Environment Agency	2015	This should be undertaken following completion of the Strategy Study in Action Plan item NDAS.PSA6.3.1 to take account of detailed information from the Strategy Study.
	NDAS.PSA6.6.2	7d23	Ensure that an Asset Management Plan is in place to guide the maintenance of the defences at Blue Anchor such that the required standard of protection is provided for as long as possible in to the long term.	Somerset County Council (Highways)	West Somerset Council / Somerset County Council	2015	This should be undertaken following completion of the Strategy Study in Action Plan item NDAS.PSA6.3.1 to take account of detailed information from the Strategy Study.
7. Communication	NDAS.PSA6.7.1	7d19 to 7d23	Undertake consultation with key stakeholders and general public during strategy development to ensure an acceptable approach for the future management of coastal flood and erosion is developed. This could possibly be assisted by the Somerset Pathfinder project until Spring 2011.	Defra/ Environment Agency	Environment Agency / West Somerset Council / Somerset	2014	This item is to be undertaken in combination with Action Plan item NDAS.PSA6.3.1.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
					County Council		
8. Planning	-	-	-	-	-	-	-
9. Contingency Planning & Emergency Response	NDAS.PSA6.9.1	7d19 to 7d22	Review contingency/evacuation/emergency response plans to ensure that it is robust to deal with a large flood event from the Blue Anchor Bay area (7d20, 7d21, and 7d 22) area that could pose a risk of flooding to Minehead.	n/a	Environment Agency	ongoing	This review could be undertaken upon adoption of the SMP but should be reviewed further upon completion of more detailed studies as they occur such as the strategy study (refer to Action Plan item NDAS.PSA6.3.1). Refer also to SMP wide Action Plan item NDAS.ALL.9.1.
10. Adaptation / Resilience	NDAS.PSA6.10.1	7d19 to 7d22	Build in incremental adaptation to beach and defence management for the area to manage risks from rising sea level in medium and long term.	Defra/ Environment Agency	Environment Agency / West Somerset Council	ongoing	This item is to be undertaken as part of the Strategy Study in Action Plan item NDAS.PSA6.3.1.
	NDAS.PSA6.10.2	7d20 to 7d23	In areas where the policy is for no active intervention or managed realignment to occur in the future, engage and work with relevant organisation and communities to begin to develop adaptation plans for adjusting to future coastal change. This could possibly be assisted by the Somerset Pathfinder project until Spring 2011.	n/a	Environment Agency / West Somerset Council / Somerset County Council	ongoing	Refer also to SMP wide Action Plan items NDAS.ALL.7.1 and NDAS.ALL.10.1.
11. Early Warning	-	-	-	-	-	-	-
12. Habitat Creation	-	-	-	-	-	-	-
13. Funding	NDAS.PSA6.13.1	7d20 to 7d23	Investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area.	n/a	Environment Agency / West Somerset Council	ongoing	This should be considered during the development of the Strategy Study in Action Plan item NDAS.PSA6.3.1 to ensure that all possible options are considered.
14. SMP Management and Monitoring	-	-	-	-	-	-	-

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.2.7 Policy Scenario Area 7 (PSA7) – Blue Anchor to Hinkley Point

This scenario area extends from Blue Anchor to Hinkley Point (policy units 7d24 to 7d30) and is comprised predominantly of undefended cliffed coastline interspersed with small areas of defence such as at Lilstock and Doniford. The largest area of defence in this area protects the town of Watchet.

The main issue to be addressed here in the immediate term from a flood and coastal risk management point of view is the need to establish an asset management plan and determine associated funding mechanisms to guide maintenance and improvement of defences at Watchet (7d25). In particular there is concern about erosion both at the eastern and western ends of the town. At the western end landslips threaten the B3191 road whilst at the eastern end ad-hoc defences do not provide robust protection for the West Somerset Railway line; the protection of which is a key driver along the SMP area where it occurs due to its economic importance to the area.

Additionally, in areas where the policy is for defence provision to be withdrawn in the medium to long term if alternative (non-flood and coastal defence budget) funds are not able to continue defence provision, such as at Doniford Holiday Park (7d26) and Lilstock (7d29), then engagement with communities should begin to develop adaptation plans for when this change occurs. This is in line with the relevant SMP wide Action Plan items in Section 6.2.

However, in the immediate term investigation of alternative funding and development of asset management plans, particularly at Doniford Holiday Park (7d26), to ensure existing structures are at least maintained in the short term should be developed for these areas.

Future decisions here will also need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under 'Action Type – 5. Coastal Monitoring (ongoing)' in Table 6.3).

Please note, that whilst the following Table 6.10 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.10 Actions for the policy scenario area between Blue Anchor to Hinkley Point (Policy Units 7d24 to 7d30)

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
1. Studies for Policy Scenario Area	-	-	-	-	-	-	-
2. Studies for Policy Units	-	-	-	-	-	-	-
3. Strategy	-	-	-	-	-	-	-
4. Scheme Work	NDAS.PSA7.4.1	7d25	In order to reduce the risk of cliff recession impacting upon the B3191 at the western end of Watchet there may be a need to intervene and construct defences in this area in the immediate term to reduce the risk of landslip. The need for this will be guided by ongoing monitoring of the cliffs and depend on the achievability of relocating the road landwards instead.	Private / Somerset County Council (Highways)	West Somerset Council / Somerset County Council	Ongoing	A decision to intervene should be based on ongoing monitoring of the cliffs that is to be collected in line with Action Plan item NDAS.ALL.5.3.
5. Coastal Monitoring (ongoing)	-	-	-	-	-	-	-
6. Asset Management	NDAS.PSA7.6.1	7d25	Engage and work with relevant organisations, in particular the West Somerset Railway, to appraise the condition of the defences in each area and ensure that there is an adequate Asset Management Plan in place for ongoing maintenance in the immediate term. This should include investigation of sustainable options for long term defence provision in these areas.	Private	Environment Agency / West Somerset Council	2014	The eastern side of Watchet is currently at risk of erosion and so this work should be completed in the near future to guide future investment such that this risk can be reduced. Ensure information on private defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item NDAS.ALL.6.1. Issues of funding are to be addressed as part of this action in combination with Action Plan item NDAS.PSA7.13.1.
	NDAS.PSA7.6.2	7d26	Engage and work with private defence owners to appraise the condition of their defences and ensure that there is an adequate Asset Management Plan in place for ongoing maintenance in the immediate term. This should include investigation of sustainable options for long term defence provision in these areas if funding from non-public funds (flood and coastal defence budget) are available to achieve this.	Private	Environment Agency / West Somerset Council	2020	This item is less urgent as the private defences at Doniford Holiday Park are not likely to fail in the near future. However this should be completed before the next SMP review. Ensure information on private defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item NDAS.ALL.6.1. Issues of funding are to be addressed as part of this action in combination with Action Plan item NDAS.PSA7.13.2.
7. Communication	NDAS.PSA7.7.1	7d25	Undertake consultation with key stakeholders and general public during asset management plan development to ensure an acceptable approach for the future management of coastal flood and erosion is developed.	Defra/ Environment Agency	Environment Agency	2014	To be done in combination with Action Plan item NDAS.PSA7.6.1.
	NDAS.PSA7.7.2	7d24, 7d26, 7d28, 7d29, 7d30	Engage with key stakeholders and the local community to begin to develop adaptation plans for the medium to long term coastal change along this area.	To be determined	Environment Agency	Ongoing	Development of an adaptation plan will be required for unit 7d26 if the outcomes of investigation into funding for future defence (Action Plan item NDAS.PSA7.13.2) are not favourable. Refer also to SMP wide Action Plan items NDAS.ALL.7.1 and NDAS.ALL.10.1.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
8. Planning	-	-	-	-	-	-	-
9. Contingency Planning & Emergency Response	-	-	-	-	-	-	-
10. Adaptation / Resilience	NDAS.PSA7.10.1	7d24, 7d26, 7d28, 7d29, 7d30	Engage with key stakeholders and the local community to begin to develop adaptation plans for the medium to long term coastal change along this area where the policy is for No Active Intervention. Should private defences not be maintained in the future in unit 7d26, then adaptation plans should be developed for this areas also.	To be determined	Environment Agency	Ongoing	Development of an adaptation plan will be required for unit 7d26 if the outcomes of investigation into funding for future defence (Action Plan item NDAS.PSA5.13.2) are not favourable. Refer also to SMP wide Action Plan items NDAS.ALL.7.1 and NDAS.ALL.10.1.
11. Early Warning	-	-	-	-	-	-	-
12. Habitat Creation	-	-	-	-	-	-	-
13. Funding	NDAS.PSA7.13.1	7d25	Investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area.	n/a	Environment Agency	2014	This should be considered during the development of the asset management plan in Action Plan item NDAS.PSA7.6.1 to ensure that all possible options are considered.
	NDAS.PSA7.13.2	7d26	As part of investigating options for long term management of assets, investigate options for different funding sources in addition to private funds.	Private	Environment Agency	2020	This is to be undertaken in combination with Action Plan item NDAS.PSA7.6.2
14. SMP Management and Monitoring	-	-	-	-	-	-	-

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.2.8 Policy Scenario Area 8 (PSA8) – Hinkley Point to Brean Down, including the Parrett Estuary

This scenario area extends from Hinkley Point to Brean Down and encompasses the Parrett Estuary (policy units 7d31 to 7d46).

There is a number of flood and coastal erosion risk management issues to be addressed within the area in the immediate term, including:

- The implementation of Managed Realignment at Steart (7d34 to 7d37), to create new areas of habitat, is currently being investigated as part of a separate detailed study. This could have implications for geomorphological processes in the estuary, particularly in combination with other management changes such as managed realignment in the long-term. Impacts could include changes to the position of the low water channel and its relationship with the shoreline at Burnham-on-Sea and the volume of water entering the estuary and how this may be managed in the future.
- Implementation of recommendations from the Parrett Estuary Flood Risk Management Strategy to improve the flood defences along the Parrett Estuary (7d37 to 7d42), such that they continue to reduce flood risk in the short to medium term.
- Long-term sustainable management of the sea defences and beach at Burnham-on-Sea (7d43) needs to be considered through development of a beach management plan, such that both defence and amenity considerations of the beach can be managed together in the face of rising sea levels and climate change and possible movements of the Parrett Estuary low water channel.
- Along the Berrow to Brean Down frontage (7d44 and 7d45) a dune/beach management plan needs to be developed. This will guide proactive management of the dunes to ensure that they are able to provide a robust defence function and to guide future maintenance, improvement or removal of hard defence structures as appropriate in order to achieve this.
- Alongside this, study is required along the Berrow to Brean Down frontage into the future possible requirement, or otherwise, of a secondary defence behind the dunes. This can inform future coastal management decisions, including the next SMP review.

Some of these issues are in part being addressed by ongoing and recently completed studies and strategies and as such the SMP action plan reflects these studies. However, further detailed study and development of beach/dune management plans is required in other areas to provide more information and guide future management decisions.

In addition, there is uncertainty over exactly what form future expansion of the Hinkley Point Nuclear Power Station (7d31) will take. Communication and engagement with the developer is required to ensure flood and coastal risk management issues in this wider policy scenario area are assessed as part of any future plans.

Future decisions here will also need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under 'Action Type – 5. Coastal Monitoring (ongoing)' in Table 6.3).

Please note, that whilst the following Table 6.9 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the *local* details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details *must* be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.11 Actions for the policy scenario area between Hinkley Point to Brean Down, including the Parrett Estuary (Policy Units 7d31 to 7d46)

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
1. Studies for Policy Scenario Area	NDAS.PSA8.1.1	7d31 to 7d46	A detailed study of the geomorphological implications of changes in-combination impacts on the Parrett Estuary of managed realignment at different parts of the estuary should be undertaken to provide improved understanding of coastal and estuarine processes for informing future management decisions. This study could consider, amongst other things, implications for the low water channel and how a barrage to reduce flood risk to Bridgwater may also impact upon the system, as well as implications of beach lowering (in combination with climate change) at Burnham-on-Sea and the influence of Steart Island upon wave climate at Burnham-on-Sea.	Defra/ Environment Agency	Environment Agency	2016	This study should be completed in advance of the next Parrett Estuary Flood Risk Management Strategy review (refer to Action Plan item NDAS.PSA8.3.1).
2. Studies for Policy Units	NDAS.PSA8.2.1	7d44 to 7d45	A study of the long term evolution of this frontage, underpinned by improved monitoring data to be guided by the dune/beach management plan to be developed for this frontage (Action Plan item NDAS.PSA8.6.2), should be undertaken and include assessment of breach risk under a range of climate change scenarios and consider the future need (or otherwise) for a secondary defence to reduce flood risk to the wider Somerset Levels.	Defra/ Environment Agency	Environment Agency / Local Authorities	2020	This study should be undertaken once there is a good amount of monitoring data (including any additional monitoring data from Action Plan item NDAS.PSA8.5.1) and before the next SMP review such that it can inform future management decisions. It could also inform future reviews of the dune/beach management plan to be developed under Action Plan item NDAS.PSA8.6.2 as well as any adaptation/resilience plans to be considered under Action Plan item NDAS.PSA8.10.1. Consideration of secondary defence requirements should be undertaken in combination with similar considerations along the left (west) bank of the Axe Estuary (policy Unit 7e02) – refer also to Action Plan item NDAS.PSA9.2.1.
3. Strategy	NDAS.PSA8.3.1	7d37 to 7d42	A review of the Parrett Estuary Flood Risk Management Strategy will be required to assess progress on actions from the recently completed strategy and to consider new information from ongoing/future monitoring and studies.	Defra/ Environment Agency	Environment Agency	2018	This strategy review should occur once the geomorphological study in Action Plan item NDAS.PSA8.1.1 is completed.
4. Scheme Work	NDAS.PSA8.4.1	7d37 to 7d42	Implement flood defence improvements recommended as part of Parrett Estuary Flood Risk Management Strategy.	Defra/ Environment Agency	Environment Agency	ongoing	The Parrett Estuary Flood Risk Management Strategy recommended a programme of flood defence improvements in the Parrett Estuary. This programme should be followed in the immediate term and is to be reviewed as part of Action Plan item NDAS.PSA8.3.1.
5. Coastal Monitoring (ongoing)	NDAS.PSA8.5.1	7d43 to 7d45	Implement any additional monitoring identified as being required from development of beach/dune management plans in Action Plan items NDAS.PSA8.6.1 and NDAS.PSA8.6.2.	Defra/ Environment Agency	Environment Agency / Teignbridge District Council	To be determined	Any additional monitoring will be guided by outcomes from the beach and dune management plans to be developed under Action Plan items NDAS.PSA8.6.1 and NDAS.PSA8.6.2. Refer also to Action Plan item NDAS.ALL.5.1.
6. Asset Management	NDAS.PSA8.6.1	7d43	Develop a Beach Management Plan for Burnham-on-Sea Beach to ensure future beach management is adequate to address flood risk whilst acknowledging the significant amenity use of this beach. This should include any requirements for additional monitoring to improve information available for future management decisions.	Defra/ Environment Agency	Environment Agency / Sedgemoor District Council	2012	This dune and beach management plan should be developed in the near future in order to guide future monitoring requirements such that sufficient data can be collected in advance of Action Plan item NDAS.PSA8.1.1.
	NDAS.PSA8.6.2	7d44 to 7d45	Develop a Dune and Beach Management Plan for the Berron to Brean Down shoreline to ensure future pro-active dune and beach management is adequate to address flood risk whilst acknowledging the significant amenity use of this beach. This should include any requirements for additional monitoring to improve information available for future management decisions.	Defra/ Environment Agency	Sedgemoor District Council	2013	This dune and beach management plan should be developed in the near future in order to guide future monitoring requirements such that sufficient data can be collected in advance of Action Plan item NDAS.PSA8.2.1. Refer also to Action Plan item NDAS.PSA8.5.1.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
7. Communication	NDAS.PSA8.7.1	7d31 to 7d46	Undertake consultation with key stakeholders and general public during development of studies, strategies, schemes and beach/dune management plan development to ensure an acceptable approach for the future management of coastal flood and erosion is developed. This could possibly be assisted by the Somerset Pathfinder project until Spring 2011.	n/a	Environment Agency / Sedgemoor District Council / Somerset County Council	ongoing	This is to be undertaken as part of Action Plan items NDAS.PSA8.2.1, NDAS.PSA8.3.1, NDAS.PSA8.6.1 and NDAS.PSA8.6.2.
	NDAS.PSA8.7.2	7d32 to 7d46	Engage with key stakeholders and the local community to begin to develop adaptation plans for the medium to long term coastal change along this area. This could possibly be assisted by the Somerset Pathfinder project until Spring 2011.	n/a	Environment Agency / Sedgemoor District Council / Somerset County Council	ongoing	This should be undertaken alongside Action Plan item NDAS.PSA8.10.1.
	NDAS.PSA8.7.3	7d31	Engage with EDF Energy to ensure that the future expansion of Hinkley Point Nuclear Power Station considers flood and coastal erosion issues.	n/a	Environment Agency	ongoing	This engagement with the developer is ongoing.
8. Planning	-	-	-	-	-	-	-
9. Contingency Planning & Emergency Response	NDAS.PSA8.9.1	7d43 to 7d45	Contingency, evacuation and emergency planning measures should be reviewed to ensure that they are adequate to manage the risk should a breach occur along any part of the dune frontage (most likely where dunes are narrowest), as such a breach could cause wide-spread and catastrophic flooding. This could possibly be assisted by the Somerset Pathfinder project until Spring 2011.	Defra/ Environment Agency	Environment Agency / Sedgemoor District Council / Somerset County Council	ongoing	This should be reviewed as part of the development of the dune and beach management plans along this area as part of Action Plan items NDAS.PSA8.6.1 and NDAS.PSA8.6.2. It should be further reviewed following completion of the study in Action Plan item NDAS.PSA8.2.1.
10. Adaptation / Resilience	NDAS.PSA8.10.1	7d32 to 7d46	In areas where the medium to long term policy is for either No Active Intervention of Managed Realignment, engage with key stakeholders and the local community to begin to develop adaptation plans for the medium to long term coastal change. This could possibly be assisted by the Somerset Pathfinder project until Spring 2011.	Defra/ Environment Agency	Environment Agency / Sedgemoor District Council / Somerset County Council	ongoing	Information from studies to be undertaken in Action Plan items NDAS.PSA8.2.1 and NDAS.PSA8.1.1 could be used to inform development of adaptation plans. Refer also to Action Plan item NDAS.ALL.13.1.
11. Early Warning	-	-	-	-	-	-	-
12. Habitat Creation	NDAS.PSA8.12.1	7d34 to 7d37	Habitat creation potential along the Steart Peninsula should work with the Regional Habitat Creation Programme to deliver benefits to the wider region.	Defra/ Environment Agency	Environment Agency	ongoing	This habitat creation potential is currently being investigated in detailed as part of a separate project – Steart Managed Realignment Project -
	NDAS.PSA8.12.2	7d32	Investigate opportunity for Managed Realignment to the east of Hinkley Point, working with the Regional Habitat Creation Programme to deliver benefits to the wider region.	Defra/ Environment Agency	Environment Agency	2020	The primary managed realignment site is at Steart and focus should be on delivering this in the immediate term. However, an investigation into the potential for Managed Realignment in this area should be undertaken before the next SMP review in order to inform future management decisions.
13. Funding	NDAS.PSA8.13.1	7d31 to 7d46	As part of studies, investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area.	n/a	Environment Agency / Sedgemoor District Council / Somerset County Council	ongoing	This should be undertaken as part of the development of studies and beach/dune management plans in Action Plan items NDAS.PSA8.3.1, NDAS.PSA8.6.1 and NDAS.PSA8.6.2.
14. SMP Management and	-	-	-	-	-	-	-

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
Monitoring							
<p>NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.</p>							

The above provides the *local* details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.2.9 Policy Scenario Area 9 (PSA9) – Brean Down to Anchor Head, including the Axe Estuary

This scenario area extends from Brean Down to Anchor Head and encompasses Weston Bay and the Axe Estuary (policy units 7e01 to 7e06). The extensively developed town of Weston-super-Mare dominates much of this area, and the continued protection of the town from flood and erosion risk is a key issue in the immediate term. This has recently been addressed as part of the Sea Defence Scheme completed in 2009/10 and so in the immediate term only maintenance of this is required.

To the south of the sea defences, dunes at Uphill may require pro-active dune management to ensure they continue to provide a defence function. These dunes interact with the beach fronting Weston-super-Mare and so a dune and beach management plan for the Weston Bay frontage (7e04 to 7e06) is to be developed to guide future management of the beaches and dunes.

Within the Axe Estuary there are potential areas for implementing managed realignment (7e02 to 7e04) to create habitat in the medium to long term and these opportunities need to be investigated in the immediate term.

Please note, that whilst the following Table 6.12 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.12 Actions for the policy scenario area between Brean Down and Anchor Head, including the Axe Estuary (Policy Units 7e01 to 7e06)

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
1. Studies for Policy Scenario Area	-	-	-	-	-	-	-
2. Studies for Policy Units	NDAS.PSA9.2.1	7e02 to 7e04	Investigate opportunities for Managed Realignment in the Axe Estuary to inform future management decisions on where and when it may be appropriate to implement realignment and for what habitat creation gain. In unit 7e02, assessment of realignment options needs to also consider interactions with the open coast at Brean (Policy Unit 7d45).	Defra/ Environment Agency	Environment Agency	2020	Managed Realignment in the Axe Estuary is not planned to occur until the medium term, allowing adequate time to assess the options in this area. This should be completed before the next SMP review to inform future management decisions. In unit 7e02, assessment of realignment options needs to also consider interactions with the open coast at Brean (Policy Unit 7d45) and this may be usefully informed by study in Action Plan item NDAS.PSA8.2.1.
3. Strategy	-	-	-	-	-	-	-
4. Scheme Work	-	-	-	-	-	-	-
5. Coastal Monitoring (ongoing)	NDAS.PSA9.5.1	7d43 to 7d45	Implement any additional monitoring identified as being required from development of the dune and beach management plan in Action Plan item NDAS.PSA9.6.1.	Defra/ Environment Agency	Environment Agency / Teignbridge District Council	To be determined	Any additional monitoring will be guided by outcomes from the dune and beach management plan in Action Plan item NDAS.PSA9.6.1. Refer also to Action Plan item NDAS.ALL.5.1.
6. Asset Management	NDAS.PSA9.6.1	7e04 to 7e06	Develop a Dune and Beach Management Plan for Weston Bay frontage to ensure future dune and beach management, along with monitoring and maintenance of associated hard defence structure, is adequate to address flood and erosion risk whilst acknowledging the significant amenity use of this beach. This should include any requirements for additional monitoring to improve information available for future management decisions as well as assessment of the flood risk to determine the long term sustainability of the dunes as a natural defence.	Defra/ Environment Agency	Environment Agency	2012	This dune and beach management plan should be developed in the near future in order to guide future monitoring requirements to inform future management decisions.
7. Communication	NDAS.PSA9.7.1	7e02 to 7e06	Undertake consultation with key stakeholders and general public during study/beach and dune management plan development and whenever appropriate to ensure an acceptable approach is developed.	Defra/ Environment Agency	Environment Agency / North Somerset Council	ongoing	This item is to be undertaken in combination with the Action Plan items NDAS.PSA9.2.1 and NDAS.PSA9.6.1.
8. Planning	-	-	-	-	-	-	-
9. Contingency Planning & Emergency Response	-	-	-	-	-	-	-
10. Adaptation / Resilience	-	-	-	-	-	-	-
11. Early Warning	-	-	-	-	-	-	-
12. Habitat Creation	NDAS.PSA9.12.1	7e02 to 7e04	Habitat creation potential within the Axe Estuary should work with the Regional Habitat Creation Programme to deliver benefits to the wider region.	Defra/ Environment Agency	Environment Agency	2020	Refer also to SMP wide Action Plan item NDAS.ALL.12.1.
13. Funding	-	-	-	-	-	-	-
14. SMP Management and	-	-	-	-	-	-	-

Action Type	Action Reference	Policy Unit	Action Description	Potential source for funding (subject to approval)	Responsibility (lead partner)	When by (subject to funding)	Relative importance and links with other actions
Monitoring							
<p>NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.</p>							