

Appendix D

Thematic review

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D1 Introduction

The theme review is a fundamental element in the second stage of a Shoreline Management Plan (SMP). It identifies features relevant to the SMP, as well as benefits and issues associated with them so that feature-specific objectives can be determined. Identifying issues and their objectives at an early stage of a SMP's development provides a basis for reviewing and agreeing objectives with stakeholders, which have subsequently informed policy development.

In the Essex and South Suffolk SMP, the features, their interactions and relationships have been visualised in a set of graphics. The complete overview of features in the theme review was used as a starting point. The graphics were then used to validate and improve the team's understanding of the area through discussions with the CSG, EMF and Key Stakeholder Groups.

D2 Methodology

D2.1 Identification of features

Features were identified as any tangible physical entity from Ordnance Survey (OS) maps (OS Landranger 168, 169 and 178), aerial photography and literature reviews. Significant discrete entities have been identified as features in their own right, whereas scattered features of a similar nature have been collectively identified as one feature (for example, built properties that did not constitute a discrete settlement were in many instances identified as a single feature "built properties within SMP unit").

After identifying features, the following information was ascertained for each and presented in a tabular form:

- Issue associated with feature.
- Potential to affect SMP policy.
- Benefits of feature/Why is the issue important?
- Scale (local, regional, national or international).
- Issue type/theme.
- Beneficiaries of the feature.
- What could affect its value / sustainability.
- Frequency of occurrence of the feature.
- Potential for substitution of the feature.
- Objectives for that feature.

The ultimate aim was to determine the objective of the feature so that this can be used as a basis for developing policy appraisal objectives later on in this stage of the SMP.

As well as the description and assessment of distinct features, this theme review also contains a narrative characterisation of the land use and environment in the SMP area including its connections to the hinterland. This description is essential in capturing the interrelated nature of the features and the related values and issues.

D2.2 Brief description of the Essex and South Suffolk coastline

Essex and South Suffolk comprise of complex estuary systems, extensive salt marsh and intertidal areas of international, national and local conservation importance. It still has a small but active fishing fleet and, largely due to its proximity to London, has been a traditional holiday area for over a century.

Large-scale reclamation has taken place over the recent past, with large areas of grazing marsh at or below sea level. Overall the coastline is low-lying and protected by earth clay flood embankments with sea-facing revetment works or sea walls together with groynes. The geology of Essex and South Suffolk is a complex array of varying marine, alluvial and glacial drift sediments that overlie the thick deposits of the London clay and terrace gravels. The clay is part of the older strata of rocks that form the eastern sector of the London Basin, a bowl created from the Cretaceous chalk.

The Essex and South Suffolk SMP shoreline covers a length of around 550 km between Felixstowe Port and Two-tree Island near Southend. and comprises of sediment sub-cell number 8 in the national numbering system (until recently called 3d). Essex and South Suffolk have an unusual coastline. It is formed of a series of interlinked estuaries, these being the Stour and Orwell, Hamford Water, Colne and Blackwater, the Crouch / Roach and the Thames. These estuary systems are interrupted by discrete units of open coast - Walton to Colne Point, the Dengie peninsula and the Maplin / Foulness shore. Much of the estuarine areas are dominated by muddy intertidal flats and saltmarshes, whereas in areas of open coast there is a mixture of London clay sea cliffs and shingle, sandy and muddy beaches.

D2.3 Area of search

Examination of LiDAR (Light Detection and Ranging) data indicates that large areas of the coastal fringe are at or below relative sea level. These low-lying areas extend into the estuary systems. The area of search for the Essex and South Suffolk SMP has been defined as that within the 1 in 1000 year tidal flood zone (land which has a 0.001 per cent chance of inundation each year), with an allowance for rise in relative sea level as a result of global climate change and for potential coastal erosion.

Extreme water levels are affected by meteorological effects such as wind and atmospheric pressure, which can lead to positive or negative surges.

Extreme water levels for the frontage have been taken from the Environment Agency report on Extreme Tide Levels (Royal Haskoning 2007), to which a factor of 1.5 metres has been added to compensate for sea level rise over the period 2008 to 2105 (Table D 1). (1.5 metres is more than the value in Defra's guidance for sea level rise). This conservative approach was taken specifically for the theme review to ensure that the SMP takes account of all affected features, including those on the edge of the (future) tidal flood zone. Note that for all other aspects of the SMP, the values according to Defra's guidance have been used (see appendix C).

Table D 1 Extreme tide levels for Essex and South Suffolk SMP area, with additional climate change factoring (based on Royal Haskoning, 2007).

| Location | Return period extreme tide levels (mODN) | |
|--------------------|--|----------------|
| | 2005 1:1000 | 2105 1:1000 |
| Harwich | 4.26 | 5.76 |
| Walton-on-the-Haze | 4.29 | 5.79 |
| Brinton-on-Sea | 4.33 | 5.83 |
| Holland-on-Sea | 4.40 | 5.90 |
| Clacton-on-Sea | 4.43 | 5.93 |
| Colne Point | 4.51 | 6.01 |
| Sales Point | 4.59 | 6.09 |
| Holliwell Point | 4.67 | 6.17 |
| Shoeburyness | 4.84 | 6.34 |
| Southend-on-Sea | 5.00 | 6.50 |

In order to ensure full coverage, we have used the 2105 1:1000 return period for Southend-on-Sea (6.5 metres ODN) to define the area of search for the theme review.

The Essex and South Suffolk SMP shoreline has been divided into nine theme review units based on recognisable landmarks and manageable assessment units for identification of features. Within this report, features have been tabulated according to these units, with features occurring over the entire coast being tabulated separately. The feature tables presented in this report are:

- Essex and South Suffolk -wide features
- Frontage A – Felixstowe Port to Little Oakley
- Frontage B –Little Oakley to Walton-on-the-Naze
- Frontage C –Walton-on-the-Naze to Colne Point
- Frontage D – Colne Point to East Mersea
- Frontage E –East Mersea to Sales Point
- Frontage F –Sales Point to Holliwell Point (North)

- Frontage G – Holliwell Point (North) to Courtsend/Foulness Point
- Frontage H – Courtsend / Foulness Point North Shoebury
- Frontage I – North Shoebury to Two-tree Island.

D2.3.1 Upstream extent of SMP on rivers

The extent to which the SMP area extends upstream into the main rivers is determined in part by the fact that fluvial flooding issues fall within the scope of Catchment Flood Management Plans (CFMPs).

The SMP will develop policies for the shoreline and defences up to these boundaries and will therefore have to take into account the features and issues that can affect or be affected by erosion of these defences or flooding through these defences.

D2.4 Generic grouping of features

Features were classified within the following categories:

- Built properties
- Roads and infrastructure
- Land use and natural, landscape and heritage features
- Other

Broadly speaking, similar features were present in all SMP units, due to the broadly similar nature of the coastline and hinterland of Essex and South Suffolk. Further commentary on these features is provided below and should be read in conjunction with the table of features.

D2.5 Generic reasoning for analysis of features within tables

A number of features occur repeatedly throughout all or most units. In responding to the column headings (see bullets in **Section D2.1**), unless local circumstances dictate otherwise, the responses have remained consistent. Given the brevity of the responses in the table, some elaboration of each response is valuable and is provided below:

D2.5.1 Potential to affect SMP policy

All the features identified in the tables have been included because they are relevant to SMP policy to a greater or lesser extent. As the SMP evolves, for example at consultation, some issues may be determined as not relevant to the SMP. These will be identified as such in the table, but retained to indicate to consultees that these issues were initially considered but deemed not relevant.

D2.5.2 Benefits of feature / why is the issue important

Benefits of features and importance of issues have been expressed in terms of values – for example economic, cultural, aesthetic, conservation, amenity.

D2.5.3 Scale (local, regional, national or international)

In general, smaller settlements and minor roads serving smaller settlements and scattered properties have been determined as being of local importance. Larger settlements and main roads that provide connections between the major settlements and the wider road network have been determined as being of regional significance. In the Essex and South Suffolk SMP area, agricultural land has been determined as being of regional significance. Importance of areas of conservation interest has been based on the particular designation type (international, national, local) of each individual feature, with the highest ranked feature taking precedence.

D2.5.4 Issue type/theme

In line with the guidance recommendations, the issues have been grouped by themes:

- **P** - Physical (geomorphology, processes, erosion, topography, waves, water levels etc)
- **E** - Environment (specifically the natural heritage, nature conservation and geology)
- **H** - Heritage and culture
- **HA** - Hard assets (properties and infrastructure)
- **R** - Recreation (including beach use)
- **C** - Commercial activities (being the area of activity as distinct from the specific hard assets associated with the commercial activity)
- **I** - Impactor (this theme being specifically and distinctively relevant to local areas of the Essex and South Suffolk coastline and also essentially identified in relation to the Water Framework Directive)

The themes expand on the core themes presented in the guidance, reflecting the particular character of the Essex and South Suffolk coastline.

D2.5.5 Is there enough of the benefit provided by the feature?

For most features, the maximum benefit from the feature is used, for example roads and housing. Unless there is knowledge of a shortage, the conclusion is yes, there is enough benefit.

Conservation features, particularly those with international designations, would be described as not having enough of the benefit as an issue exists with the scarcity of the feature, hence the designation.

D2.5.6 Potential for substitution of the feature

For many features, substitution is possible. Financial constraints that may in practice render substitution unfeasible have not been incorporated into judgements on whether substitution is possible. It should also be stressed that, in many instances, although substitution is possible, clearly the feature is specific to a location and substitution will not be an exact like-for-like replacement.

D2.5.7 Objectives for that feature

In identifying objectives for the feature, rather than merely stating the objective in terms of what the feature 'is', objectives have been expressed in terms of 'the function of the feature'. For illustrative purposes, in the case of a road that was deemed to have a benefit, the objective would not be "maintain road", but rather "ensure the transport benefits currently conferred by the road are maintained" (that is, the means by which these benefits are realised is not specified).

D3 Features common to the whole Essex and South Suffolk coast SMP area

The Essex and South Suffolk coast is of particularly high conservation value but is vulnerable as it is under continual threat from natural storm conditions. To the north, between Harwich and the Colne, beaches have a thin veneer of sand overlying clay which makes them susceptible to erosion. To the south, there are wide intertidal zones of sands, silt and mud with saltmarshes on the landward side. These areas of coast are suffering from the phenomenon of “coastal squeeze” where the intertidal zone is trapped between the coastal defence (flood bank or sea wall) and rising sea levels. As a result many of the saltmarshes are in decline, exposing the defences to increased wave attack and causing concern to engineers and environmentalists alike. Each of these habitats in turn supports a range of species of high conservation value, including birds, plants and invertebrates. The high conservation value of the coastline is reflected by the level of statutory nature conservation and landscape designations. These designations have important implications for any prospective developments, management or policies relating to the Essex and South Suffolk coast.

Broadly speaking, nature conservation designations seek to conserve designated areas and the habitats and species that are the basis of their statutory designations. However, different designations are derived from different pieces of legislation that each vary in the nature and mechanisms of their protection. The statutory designations that apply to the Essex and South Suffolk SMP2 area and their implications and requirements, are detailed in the next section. SACs, SPAs and Ramsar sites are covered by the provisions of the Conservation (Natural Habitats &c.) Regulations (1994) (the Habitat Regulations). This includes stringent requirements that ‘plans or projects’ not directly connected with, or necessary for, managing the (SAC, SPA or Ramsar) site can only proceed where it can be demonstrated by the competent authority for consenting the plan or project that it will not adversely affect the integrity of the site. Shoreline Management Plans come under the definition of ‘plan or project’ and must therefore pass this test through an ‘appropriate assessment’ if any policy in the SMP could cause adverse effect on a designated site. Appendix M contains the Habitats Regulation Assessment for the Essex and South Suffolk SMP2.

The inherently dynamic nature of coastal environments, and the potential of flood risk management structures and practices both to constrain (for example by holding or advancing the line) and create (for example from no active intervention or managed realignment) habitat means that SMP policies has a highly significant bearing on natural habitats and designated sites. Where plans or projects (policies within the SMP in this context) cannot be determined as having no adverse effect on site integrity, they may nonetheless proceed if no alternative solutions exist and they are deemed necessary on the basis of having imperative reasons of over-riding public

importance (IROPI). Where projects are allowed to proceed on this basis, compensatory measures must be secured to ensure that the overall coherence of the Natura network (SPAs and SACs) is maintained. In the context of coastal habitats, this might include creating new habitats in adjacent coastal areas by managed realignment.

D3.1 Ramsar, SAC, SPA and SSSI sites

The Essex Coast SSSI and Essex Estuaries SAC sites cover every frontage in the SMP area. No attempt has been made to determine which qualifying features (species and habitats) are present within each unit and the extent to which these are present. Rather, it has been assumed that all designated and qualifying features are present within each unit. Given this, these common designations and their qualifying features have not been included in each unit table, but in a single table of Essex coast-wide features.

Additional Ramsar, SAC, SPA and SSSI sites are located along the Essex coastline. However, these do not expand across the whole SMP area and will therefore be included in each individual unit table.

D3.1.1 Essex Estuaries SAC

The Essex Estuaries SAC is a large estuarine site in south east of England. It is a typical, undeveloped, coastal plain estuarine system with associated open coastal mudflats and sandbanks. The site comprises of the major estuaries of the Colne, Blackwater, Crouch and Roach Rivers and is important as an extensive area of contiguous estuarine habitat. Essex Estuaries contains a very wide range of characteristic marine and estuarine sediment communities and some diverse and unusual marine communities in the lower reaches, including rich sponge communities on mixed, tide-swept substrates. Sub-littoral areas have a very rich invertebrate fauna, including the reef-building worm *Sabellaria spinulosa*, the brittlestar *Ophiothrix fragilis*, crustaceans and ascidians. The site also has large areas of saltmarsh and other important coastal habitats.

D3.1.2 Essex and South Suffolk coast

This is a composite site consisting of four National Nature Reserves (NNR) at Hamford, Dengie, Blackwater and Colne. There are also numerous SSSIs that can be included. The full list of SSSIs are Stour and Copperas Woods, Stour Estuary, Cattawade Marshes, The Naze, Harwich Foreshore, Little Oakley Channel Deposit, Holland Haven marshes, Holland on Sea Cliff, St Osyth Pit, Clacton Cliffs and Forehore, Crouch and Roach Estuaries, The Cliff – Burnham on Crouch, Maldon Cutting, Sandbeach Meadows, Foulness, Benfleet and Southend Marshes.

The nature reserves follow the Ramsar designations. Hamford Water, Dengie, Crouch and Roach Estuaries, Colne and Blackwater Estuaries,

Foulness, Benfleet and Southend Marshes are Ramsar sites of importance and form an almost continuous strip along the Essex coast.

D3.2 National Nature Reserves

Although various statutory nature designations apply to Essex and South Suffolk (see above), only the NNR designation relates to, and fosters the promotion of, access to and enjoyment of the nature conservation value of the area. So the features of the NNR, as well as access to and visitor facilities for the reserve, are of high amenity, educational and local economic value.

D3.3 Local Nature Reserves

On a smaller scale, LNR designations apply to areas within the Essex and South Suffolk study area. These sites also promote access to the conservation sites and provide an important resource for the local community.

D4 Characterisation of land use and environment

It should be noted that the assessment units considered for the theme review are different to the SMP management units.

D4.1 Theme review Unit A – Felixstowe Port to Little Oakley

This frontage covers the estuaries of the River Stour up to Stratford St Mary and the River Orwell up to Ipswich. Most of the land surrounding the estuaries falls outside the 1 in 1000 year flood zone and, where this is the case, there are no man-made defences.

Notable exceptions are the ports of Harwich and Felixstowe that have substantial economic value from passenger ferry services and cargo shipping. The ports are protected by a variety of defences. Parts of Ipswich are also within the tidal flood zone, with numerous marinas along the River Orwell that have both recreational and economic value. Harwich also gives recreational value through a golf club, its museums and sites of historic importance.

The Stour and Orwell estuaries are of international environmental importance, comprising of extensive mudflats, low cliffs, saltmarsh and small areas of vegetated shingle on the lower reaches. The estuaries provide habitats for an important assemblage of wetland birds and internationally important numbers of wintering and passage wildfowl and waders. The site also holds several nationally scarce plants and British Red Data Book invertebrates.

The Cattawade Marshes SSSI lies at the head of the Stour estuary and is situated between the freshwater and tidal channels of the River Stour. These grazing marshes with associated open water and fen habitats are of major importance for the diversity of their breeding bird community. This includes species that have become uncommon throughout lowland Britain as a result of habitat loss. They are also an important example of historic coastal grazing marsh and have the potential for well-preserved palaeo-environmental deposits.

The Harwich Foreshore SSSI yields the only fossil flora attributable to the lowest division of the Eocene London clay. Its composition is typical of the formation and specimens are abundant. Association of the plants with ash bands within the clay may help correlations elsewhere in the basin as they form useful marker horizons. This is a recently-discovered site with great research potential.

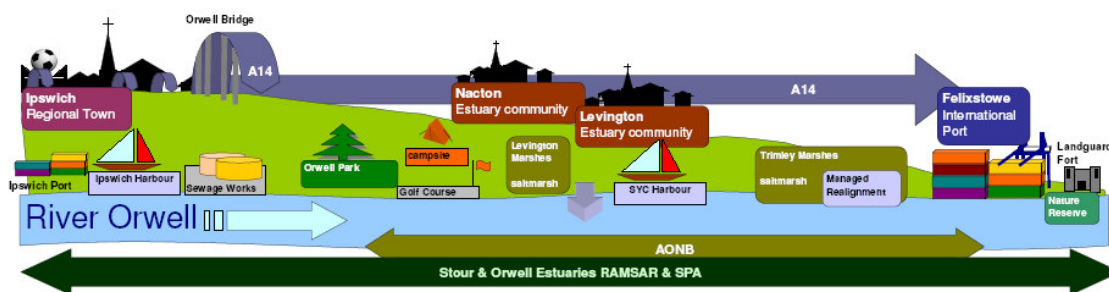
The estuarine frontages of the Orwell and the northern frontage of the Stour are part of the Suffolk Coast and Heaths Area of Outstanding Natural Beauty (AONB). this designation reflects its unique landscape character.

In unit A, within the intertidal area of the Stour estuary there are a range of finds from worked flints to hulks that highlight the long history of human exploitation of the estuary. Quays, landing places and wrecks survive clustered around the historic ports of Manningtree and Mistley, jetties and other timber structures can be anticipated along the length of the estuary.

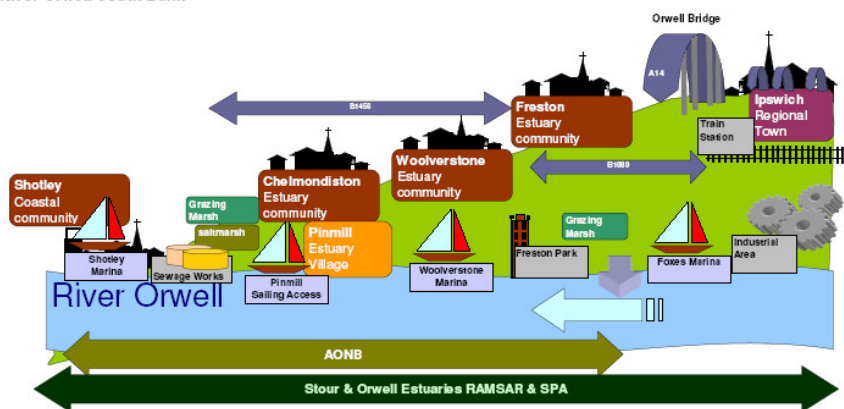
The graphics below show the key issues and features in this unit. Further details are presented in section D5.

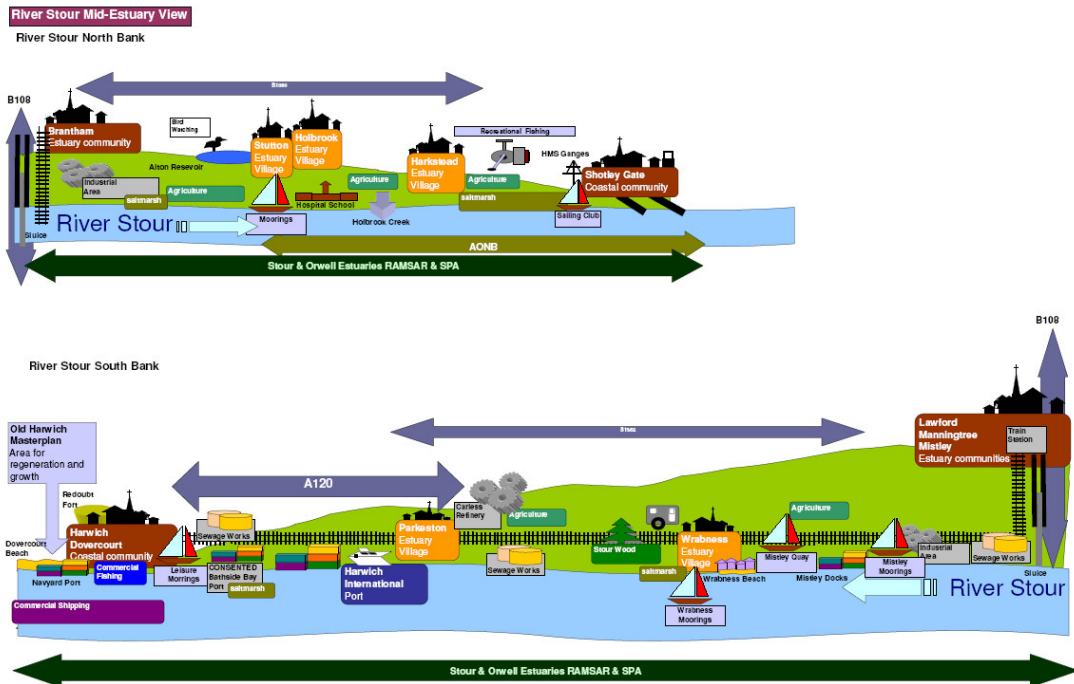
River Orwell Mid-Estuary View

River Orwell North Bank



River Orwell South Bank





D4.2 Theme Review Unit B – Little Oakley to Walton-on-the-Naze

The land associated with this frontage in the 1 in 1000 year tidal flood zone includes the islands and the low-lying land surrounding Hamford Water. The defences comprise of revetments and sea walls, except for sections where there are natural defences.

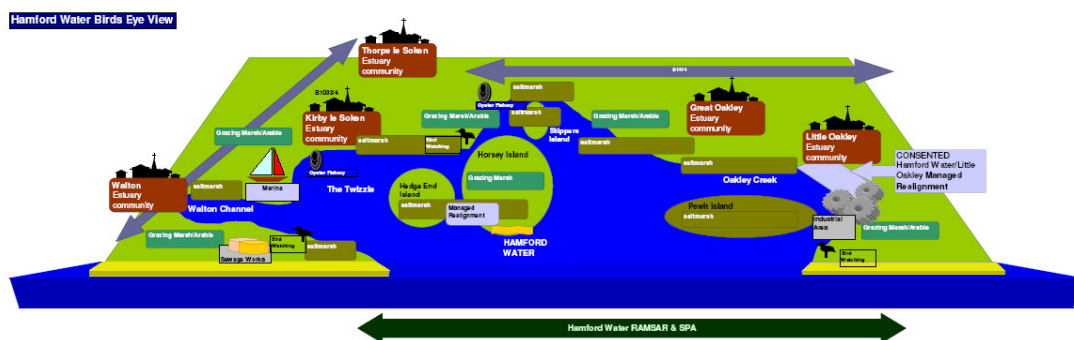
There is no significant settlements in the tidal flood zone. However, some properties do lie within the zone around the edge of Hamford Water. Most of the area is agricultural land. The B1414 crosses the tidal flood zone at Beaumont Key and the B1043 is at risk near Kirby-le-Soken. Titchmarsh marina provides recreational and economic value to the area.

Hamford Water National Nature Reserve, Ramsar and SSSI site is a large, shallow estuarine basin comprising of tidal creeks and islands, intertidal mud and sand flats and saltmarsh supporting rare plants and internationally important species/populations of migratory waterfowl. The site is of international importance for breeding little terns and wintering Dark-bellied Brent Geese, wildfowl and waders and of national importance for many other bird species. It also supports communities of coastal plants that are rare or extremely local in Britain, including hog's fennel, *Peucedanum officinale* which is only found elsewhere in Kent.

The historic landscape between Little Oakley and Walton-on-the-Naze is dominated by post-medieval remains. It is marked by earthworks including current and former sea walls, enclosures, decoy ponds and the surviving historic structures of the explosives factory on Bramble Island. Other industrial works include the scheduled lime kiln and quay at the end of

Beaumont Cut and the tidal mill pond of Walton mere. Jetties, quays and trackways highlight the importance of access to and from the sea and the relationship with adjacent dryland areas. Earlier exploitation of the area is marked by numerous red hills (salt-making sites). Important areas of historic grazing marsh also survive, as it does on Horsey Island.

The graphics below show the key issues and features in this unit. Further details are presented in section D5.



D4.3 Theme review Unit C – Walton-on-the-Naze to Colne Point

There is less low-lying land along this frontage than most of the other frontages, with the exceptions being St Osyth Marsh, Seawick, Holland Haven Marshes and part of Walton-on-the-Naze. These areas are mainly protected by a combination of revetments and sea walls. The large settlements of Clacton-on-Sea and Frinton-on-Sea are protected by a variety of defences, mainly sea walls and groynes, but are mostly above the 1 in 1000 year tidal flood zone.

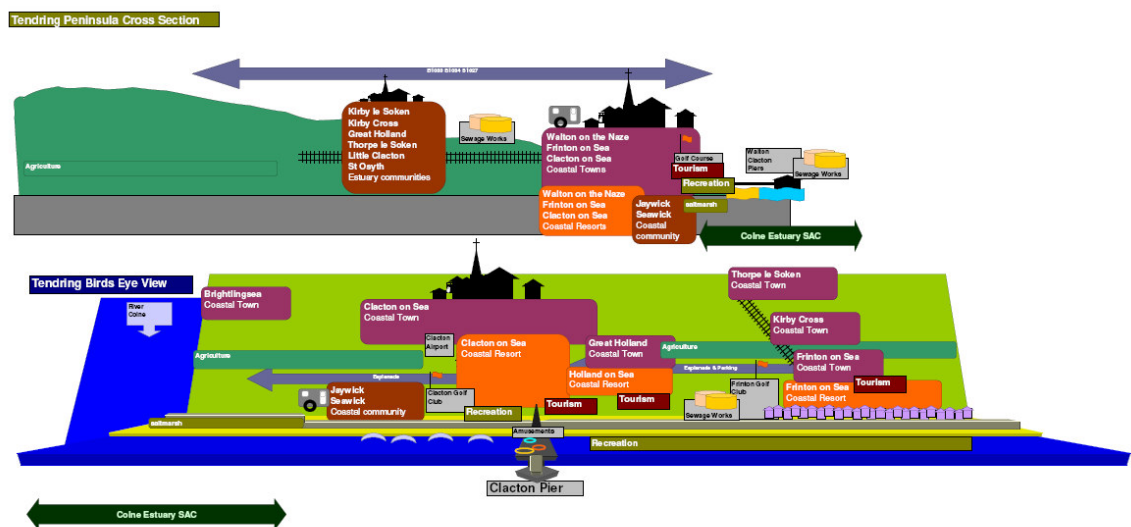
St Osyth Marsh comprises of drained agricultural land protected by a revetment, with the settlements of Seawick and Jaywick to the east including a large caravan park that is at risk of flooding. Clacton golf club provides local recreational value and falls within the 1 in 1000 year tidal flood zone, which also includes parts of Clacton Cliffs and Foreshore SSSI. The foreshore and cliff exposures and excavations in the Clacton district have provided opportunities for the study of one of the most important Pleistocene interglacial deposits in Britain, including early Palaeolithic remains. The Holland-on-Sea Cliffs SSSI represents a stratigraphic site of considerable importance. These sites can be precisely attributed to the Anglian glaciation, providing a fixed dating point within the terrace sequence of the eastern London Basin and a means of correlation with sequences where the Anglian is represented elsewhere in southern Britain and on the continent.

The sea front at Clacton-on-Sea has important recreational and tourism value with attractions including the beach and pier. Walton-on-the-Naze is another important tourist destination with its frontage and pier. Although most of these settlements are outside the tidal flood zone they are at risk from

coastal erosion which is an issue along this frontage. As a result, there are extensive coast protection works.

Holland Haven Marshes SSSI represents an outstanding example of a freshwater to brackish water transition and includes a number of nationally and locally scarce species. Holland Haven country park, situated on the flood plain of Holland Brook, is important both for conservation and recreational value and is likely to contain well-preserved palaeo-environmental deposits. Part of Walton-on-the-Naze is also within the tidal flood zone, with several buildings and a caravan site at risk. There are several Martello towers along this part of the coast. These are small defensive forts built in the 19th century that are of national historic significance. The unit is also characterised by later World War two defensive structures. The Trinity House tower at Walton-on-the-Naze is an important historic landmark.

The graphics below show the key issues and features in this unit. Further details are presented in section D5.



D4.4 Theme review Unit D – Colne Point to East Mersea

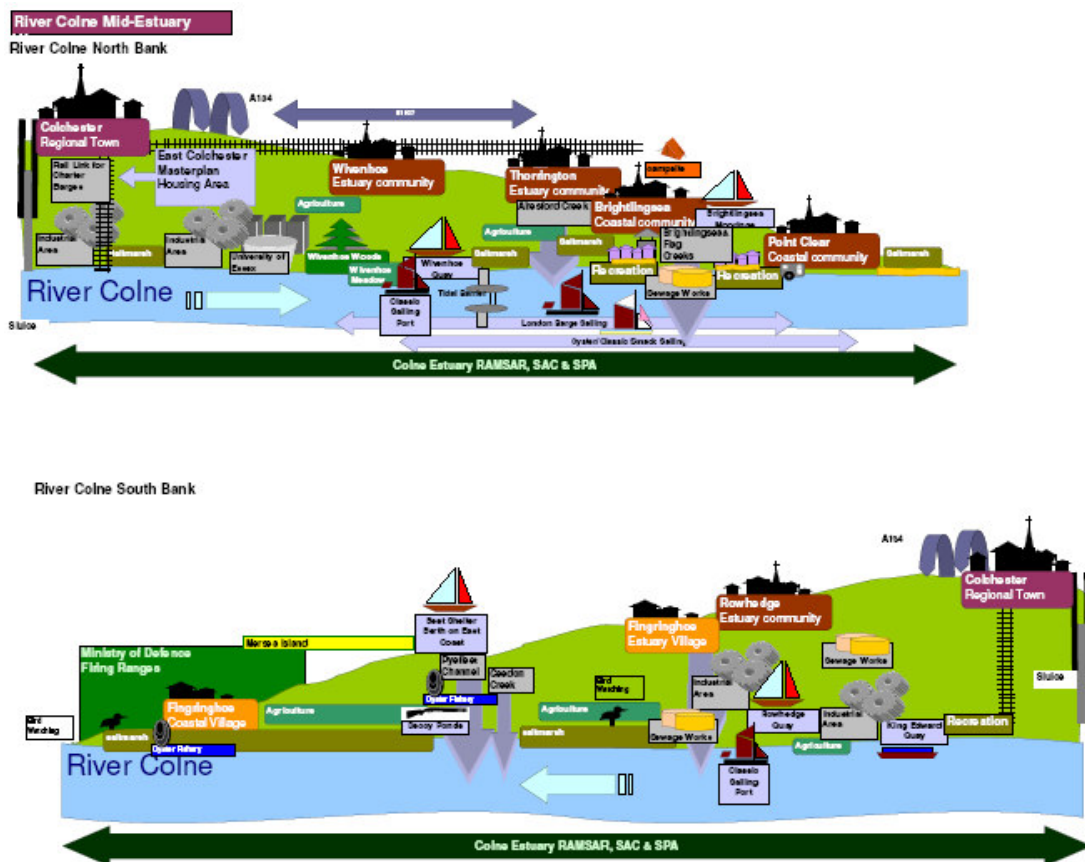
This frontage comprises of the low-lying land of the Colne estuary, which has flood defences along most of the frontage. Between Colne Point and Sandy Point, revetment protects the agricultural land of St Osyth Marsh. At Point Clear, there is a large caravan site within the 1 in 1000 year tidal flood zone as well as another Martello tower, an associated battery and a museum, all of which are also protected by a revetment. Important areas of historic coastal grazing marsh survive, for example at Langenhoe Marsh, Fingringhoe Marsh and Howlands Marsh. The latter contributes to the setting of adjacent St Osyth Park. These features give this location significant value as a tourist destination. The camping and caravan site at Brightlingsea also provides amenity and tourist value. The area is characterised by post-medieval oyster

pits, hulks and relict sea defences as well as defensive structures. Earlier occupation and exploitation of the area is marked by red hills (salt manufacturing sites) and timber structures. There is also potential for prehistoric land surfaces surviving.

Most of the land in the tidal flood zone lies within the river flood plain and agricultural land. There are pockets of communities at Point Clear, Brightlingsea, Thorington, Wivenhoe and Rowhedge. The Wick Marsh - Langenhoe Marsh and Fingringhoe Marsh area has military importance as a Ministry of Defence firing range is also within the tidal flood zone.

The Colne Estuary Ramsar site, SAC, SPA, SSSI and NNR is of international importance for wintering Brent geese and black-tailed godwit and is of national importance for breeding little terns and five other species of wintering waders and wildfowl. The variety of habitats which include mudflat, saltmarsh, grazing marsh, sand and shingle spits, disused gravel pits and reedbeds support outstanding assemblages of invertebrates and plants. Recently, saltmarsh erosion has sped up, reflecting the ebb tidal dominance within the estuary.

The graphics below show the key issues and features in this unit. Further details are presented in section D5.



D4.5 Theme review Unit E – East Mersea to Sales Point

This unit covers the low-lying land surrounding the Blackwater estuary extending inland to Maldon. Defences are for the most part revetments and sea walls, except for sections of sea wall around Maldon and at a few other locations.

Overall, the area within the 1 in 1000 year tidal flood zone is agricultural land with scattered farm buildings. There are, however, several settlements within this zone: St Lawrence, Mayland, Maylandsea, parts of Maldon and Goldhanger. Sections of several B-roads, as well as numerous minor roads, are also in the tidal flood zone. The campsites at St Lawrence, Mayland Creek and Vaulty Manor provide amenity value. There are several marinas in the estuary that have recreational, amenity and economic value. The site of the Battle of Maldon and National Trust property is also a valuable tourist attraction.

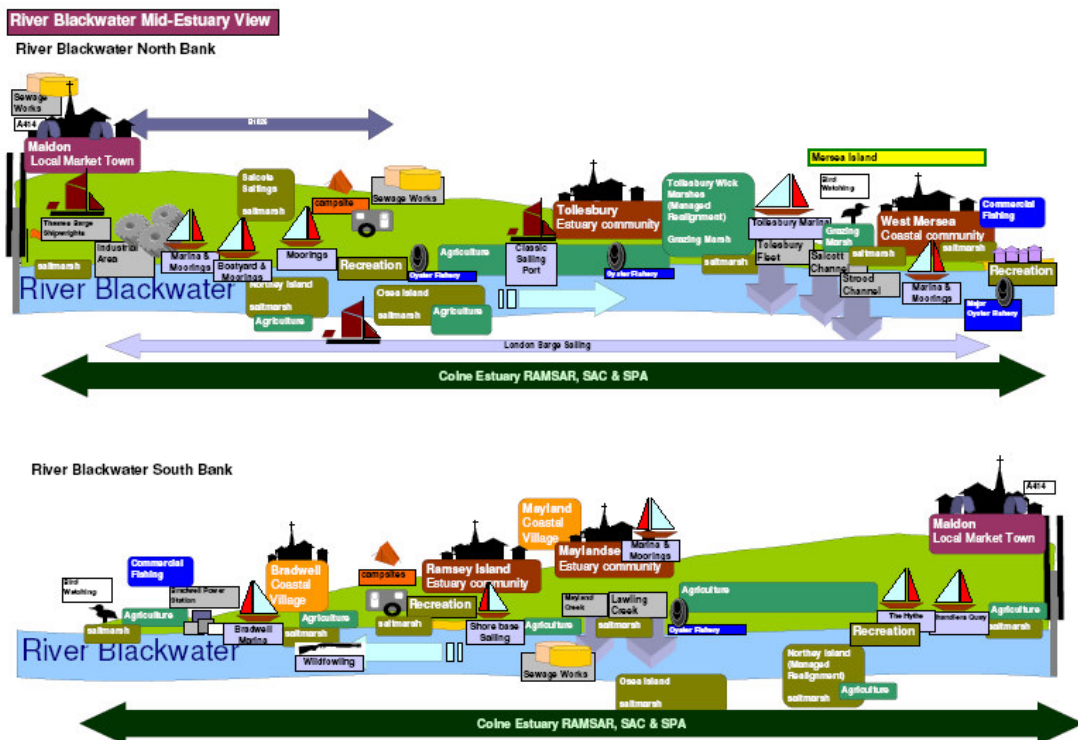
Bradwell nuclear power station is currently being decommissioned. There are, however, plans to build a new nuclear plant on the site and flooding or undermining of this site would cause numerous issues. The site itself was built on higher ground to avoid flood risk.

Blackwater Estuary NNR and SSSI is the largest estuary in Essex north of the Thames and is one of the largest estuarine complexes in East Anglia. The mudflats are fringed by saltmarsh on the upper shores and support internationally and nationally important numbers of overwintering waterfowl. Shingle and shell banks and offshore islands are also a feature of the tidal flats. The surrounding terrestrial habitats - the sea wall, ancient grazing marsh and its associated fleet and ditch systems, plus semi-improved grassland - are also of high conservation interest. This rich mosaic of habitats supports an outstanding assemblage of nationally scarce plants and nationally important of rare invertebrates.

The area includes extensive settled neolithic land surface preserved within the intertidal zone. There are also many large timber fish weirs of Saxon date. There are numerous red hills (salt-making sites) and duck-decoy ponds on the current and former marshes. The estuary is fringed by extensive cropmark landscapes dating to the prehistoric and Roman period. Existing areas of grazing marsh as at Old Hall and Tollesbury Wick are complex historic landscapes. Taken together, the Blackwater estuary has one of the most significant coastal wetland historic environments in England. Consequently, the Blackwater estuary has been included on the English Heritage list of nationally significant wetland sites as part of the Heritage Management of England's Wetlands initiative.

Northey Island Nature Reserve (National Trust), Ray Island Nature Reserve (National Trust) and several other local nature reserves further highlight the conservation value of much of the tidal flood zone.

The graphics below show the key issues and features in this unit. Further details are presented in section D5.



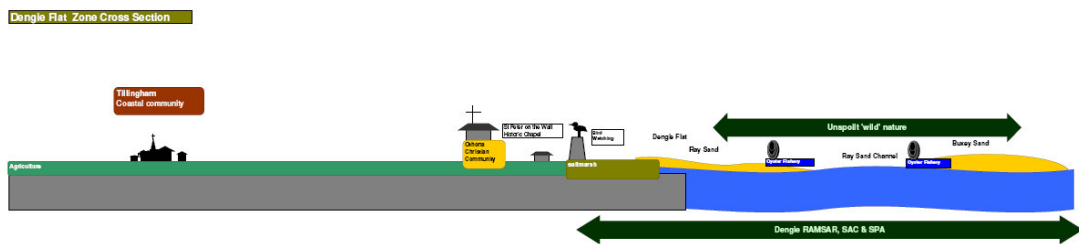
D4.6 Theme review Unit F – Sales Point to Holliwell Point (North)

Within this frontage the 1 in 1000 year tidal flood zone is quite extensive. Defences extend along its entire length, a majority of which is reveted, except for the stretch near St Peter’s chapel. The tidal flood zone is almost exclusively drained agricultural land with scattered farm buildings and some minor roads, as well as the Dengie and Bradwell Marshes. Othona Roman fort, a Saxon shorefort, and St Peters chapel have important value historically and as tourist attractions.

The Dengie NNR, Ramsar site, SPA and SSSI saltmarsh is the largest continuous example of its type in Essex and South Suffolk. The foreshore, saltmarsh and beaches support an outstanding assemblage of rare coastal flora and internationally and nationally important wintering populations of wildfowl and waders, as well as supporting a range of breeding coastal birds in summer. Bradwell Cockle Spit Nature Reserve consists of saltmarsh and shellbank habitats that support numerous species of breeding bird species.

Within the unit there are numerous red hills (salt-making sites) marking the interface between the former marsh and the dryland. In addition, there are also buried cheniers of prehistoric or early historic date together with relict sea walls, decoy ponds and other features relating to the exploitation of marshland.

The graphics below show the key issues and features in this unit. Further details are presented in section D5.



D4.7 Theme review Unit G – Holliwell Point (North) to Courtsend/Foulness Point

The land within this unit that sits in the 1 in 1000 year tidal flood zone includes the low-lying areas surrounding the Roach and Crouch estuaries, with the southern section of the tidal flood zone overlapping with that of Frontage H. The flood defences are typical of the region, with most being revetments and sea banks with small sections of sea wall. There are more substantial defences around the larger settlements, such as South Woodham Ferrers and Rochford.

The settlements in the tidal flood zone include parts of Rochford, South Woodham Ferrers, Burnham-on-Crouch, Paglesham Churchend and Paglesham Eastend. Infrastructure found in the tidal flood zone includes several minor roads and the railway line between Woodham Ferrers and Burnham-on-Crouch, along with the station at Althorne.

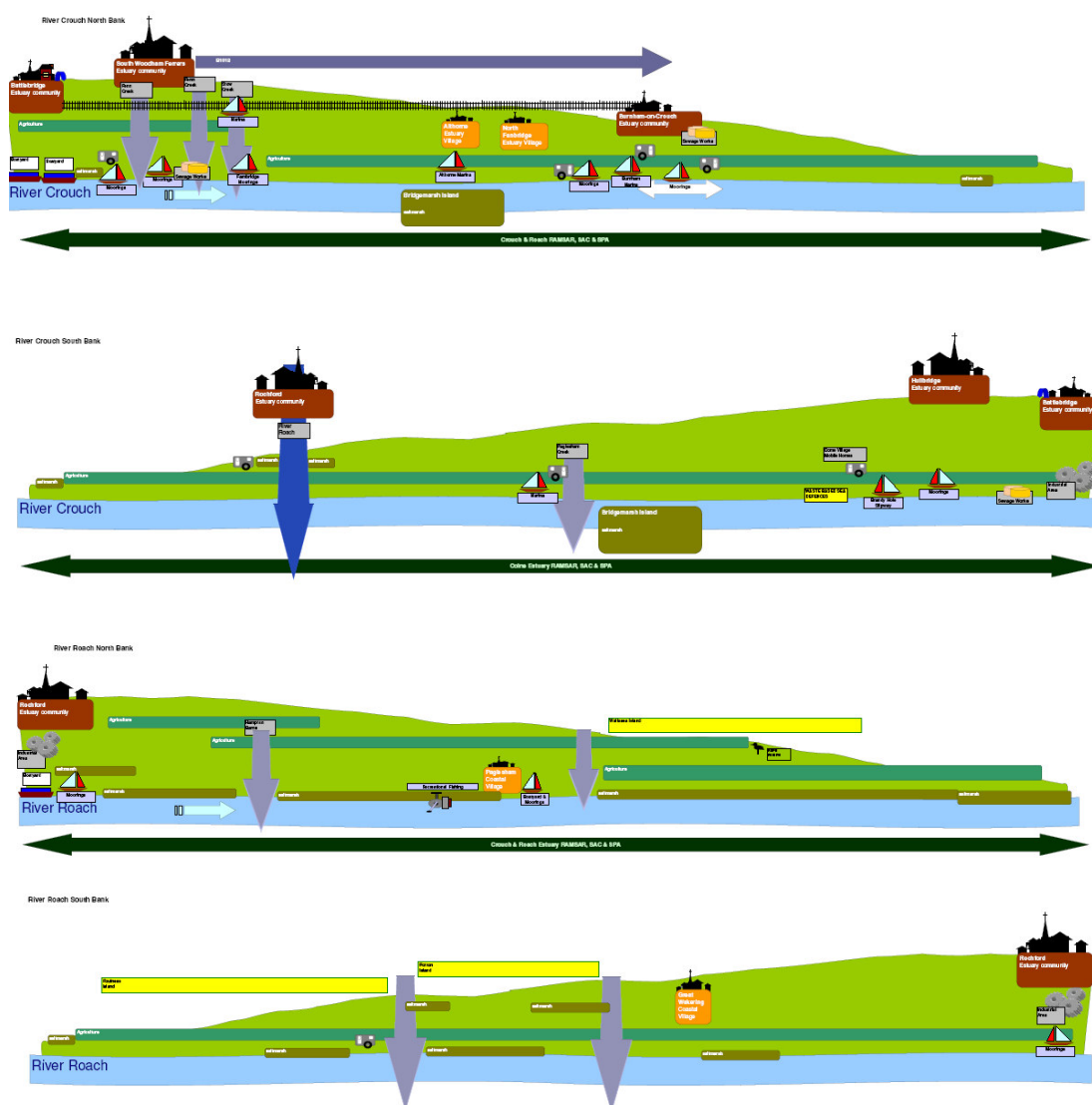
The marinas at Burnham-on-Crouch, Althorne and North Fambridge provide recreational and economic value, along with the campsites around Burnham-on-Crouch. Foulness and Potton islands have significant military importance as firing ranges for the Ministry of Defence.

In unit G, a range of archaeological deposits and features, including prehistoric relict land surfaces, peats and 'submerged forests' survive well, within and beneath the alluvium and in the intertidal zone. There are also numerous red hills, relict sea walls, oyster pits, timber structures and military remains. The existing grazing marshes are complex and significant historic landscapes. In view of its complex and important historic environment the upper Crouch estuary has been included on the English Heritage list of

nationally significant wetland sites as part of the Heritage Management of England's Wetlands initiative.

The Crouch and Roach Estuaries Ramsar site, SPA and SSSI is of international importance for bird species, with other interest being provided by the water and land invertebrates and an outstanding assemblage of nationally scarce plants.

The graphics below show the key issues and features in this unit. Further details are presented in section D5.



D4.8 Theme review Unit H – Courtsend / Foulness Point to North Shoebury

This land in this unit is low-lying and overlaps with the 1 in 1000 year tidal flood zone of frontage G. The defences are continuous and mostly in the

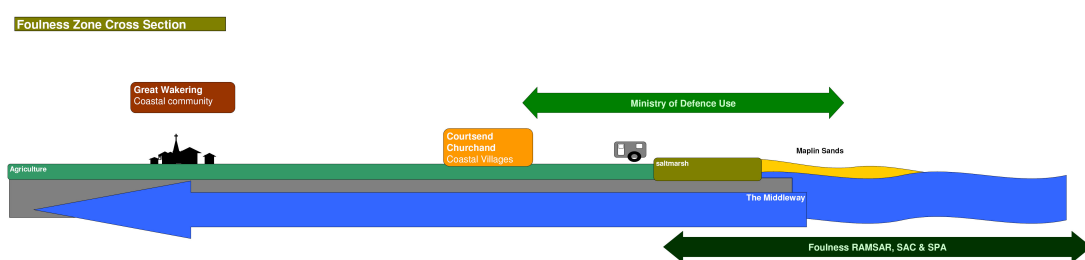
form of revetments or sea bank, except for a stretch of sea wall at North Shoebury.

Most of the tidal flood zone includes the Ministry of Defence controlled firing ranges on Havengore and Foulness Islands, which extend offshore onto Maplin Sands and have significant military importance. The area contains numerous associated buildings including the hamlets of Churchend and Courtsend which are at or below the 1 in 1000 year flood level. The Broomway pubic right of way across Maplin Sands has important amenity value.

Foulness Ramsar site, SPA and SSSI is part of an open coast estuarine system comprising of grazing marsh, saltmarsh, intertidal mudflats and sandflats. These support nationally rare and nationally scarce plants and nationally and internationally important populations of breeding, migratory and wintering waterfowl.

There are numerous red hills and extensive remains of oyster pits, wreck sites, quays, wharfs, sluices together with relict sea walls, other earthworks and World War two and cold war military remains. Foulness in particular has a remarkably well-preserved historic marshland landscape with many Roman, medieval and post-medieval features and buildings. In view of its complex and important historic environment Foulness Island has been included on the English Heritage list of nationally significant wetland sites as part of the Heritage Management of England's Wetlands initiative.

The graphics below show the key issues and features in this unit. Further details are presented in section D5.



D4.9 Theme review Unit I – North Shoebury to Two-Tree Island

The land in the 1 in 1000 year tidal flood zone in this area is fairly limited comprising of small sections of the sea front of Southend-on-Sea. There are a variety of defences including sea walls, groynes and revetments.

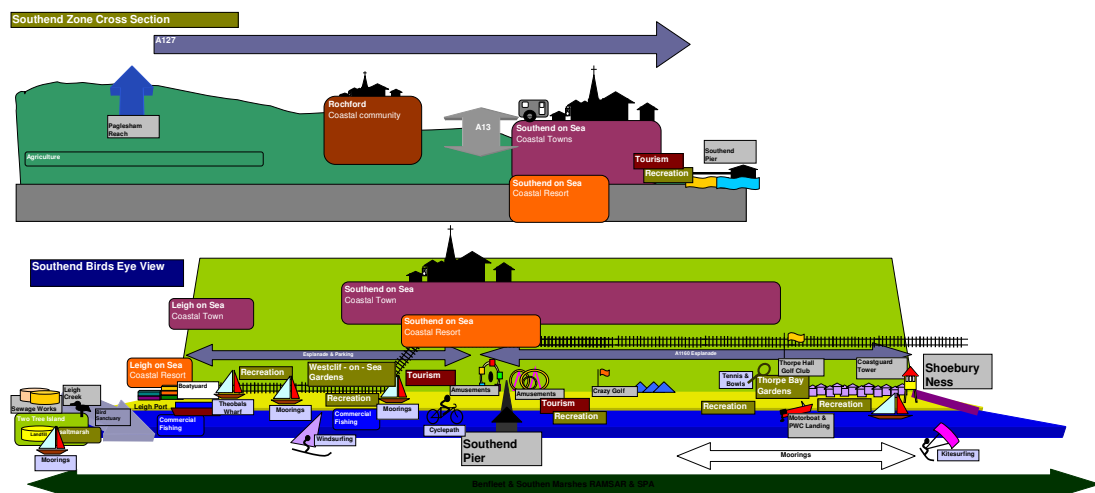
Southend-on-Sea is among the most populated and densely developed communities in the Essex and South Suffolk SMP area and functions as a regional coastal resort.

The whole frontage is at risk from erosion, which is why there are coastal defences along its whole length. The Southend-on-Sea sea front has important recreational and tourism value with its attractions including the beach, pier, aquarium and museum. Shoeburyness has military importance as a Ministry of Defence firing range.

In addition to the erosion risk, around nine kilometres of the frontage is low-lying. The land in the tidal flood zone covers nine kilometres linearly and extends up to 1.5 kilometres inland, comprising of small sections of the Southend-on-Sea frontage. There are thousands of properties in the tidal flood zone at Shoeburyness, Southchurch and other small areas of the sea front at Southend. Sections of the B1016 and the railway line at Leigh-on-Sea are also in the tidal flood zone, as is the Thorpe Hall golf course at Southchurch. Shoeburyness has military importance as a Ministry of Defence firing range.

Benfleet and Southend Marshes Ramsar site, SPA and SSSI is made up of an extensive series of saltmarshes, mudflats, scrub and grassland that support a range of flora and fauna. The south-facing slopes of the downs, made up of London clay capped by sand, represent the line of former river cliffs with several re-entrant valleys.

The graphics below show the key issues and features in this unit. Further details are presented in section D5.



D5 Issues and objectives table

| Features associated with Essex and South Suffolk as a whole – that is, not limited to any one SMP unit | | | | | | | | | | |
|--|---|----------------|---|----------|--------------------|----------------------------|--|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Essex Estuaries SAC | If the sea encroaches inland or coastal erosion this may lead to loss of habitats | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Coastal squeeze Coastal erosion Development Coastal flooding Sea level rise Natural processes Inadequate maintenance | No | No | To maintain the site in favourable condition |
| Essex Coast SSSI | If the sea encroaches inland or coastal erosion this may lead to loss of habitats | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Coastal squeeze Coastal erosion Development Coastal flooding Sea level rise Natural processes Inadequate maintenance | No | No | To maintain the site in favourable condition |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|--|-------|--------------------|---|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Built properties at Harwich | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Parkeston | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Ramsey | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Mistley | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Manningtree | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Dedham | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Stratford St Mary | If the sea encroaches inland - displaced residents and loss of | Yes | Homes for people – loss of housing stock and change in | Local | HA | Individual residents Local | Direct loss through coastal flooding or coastal erosion Loss of roads or services | Yes | No | To ensure risk to properties from coastal erosion and coastal |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|--|-------|--------------------|---|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | housing stock | | local communities | | | community | Loss of value due to envisaged future coastal management/natural change | | | flooding is minimised |
| Built properties at Cattawade | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Holbrook | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Chelmondiston | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Ipswich | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Felixstowe | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| B1352 at Harwich | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main route out of Harwich | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | No | Ensure the transport benefits of the road are maintained |
| A136 at Parkeston | If the sea encroaches inland - undermining or | Yes | Main route to Harwich | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | No | Ensure the transport benefits of the road are |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|------------------------------------|-------|--------------------|----------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | loss of the road | | international port | | | | | | | maintained |
| A120 west from Harwich to TM200299 | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main route out of Harwich | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| B1352 at Ramsey | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| B1352 at Mistley | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main road through Mistley | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| A137 between Manningtree rail station and Cattawade | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| B1029 between Dedham and Stratford St Mary | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| A12 at Stratford St Mary | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| B1070 at Cattawade | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| B1080 at TM134345 | In the event of encroachment of the sea inland - undermining or loss of | Yes | Main road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|---|-------|--------------------|----------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | the road | | | | | | | | | |
| B1080 at Holbrook (TM169358) | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| B1456 at Shotley Gate | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Only road access to properties on sea front | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| B1456 south of Ipswich | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| A14 at Orwell bridge | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| A137 south of Ipswich | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main road into Ipswich from the south | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| Minor roads around Levington | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Responsible for connecting individual properties to major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| A154 in Felixstowe | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main road in Felixstowe | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| A14 in Felixstowe | In the event of encroachment of the sea inland - | Yes | Main road in Felixstowe | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|---|----------------|--|--------------------------------|--------------------|--|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | undermining or loss of the road | | | | | | | | | |
| Railway between Harwich and TM218316 | In the event of encroachment of the sea inland - loss of railway line | Yes | Only rail link to the wider rail network for Harwich and Harwich International | Local, national, international | HA | Local community National economy | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the rail line are maintained |
| Railway at TM167314 TM136316 TM117317 | In the event of encroachment of the sea inland - loss of railway line | Yes | Only rail link to the wider rail network for Harwich and Harwich International | Local, national, international | HA | Local community National economy | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the rail line are maintained |
| Railway between Manningtree and Brantham | In the event of encroachment of the sea inland - loss of railway line | Yes | Only rail link to the wider rail network for Harwich and Harwich International Main line from London to Ipswich and Norwich | Local, national, international | HA | Regional community National economy | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the rail line are maintained |
| Railway into Ipswich from the south | In the event of encroachment of the sea inland - loss of railway line | Yes | Only rail link to the wider rail network for Harwich and Harwich International | Local, Regional | HA | Local community Regional economy | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits currently conferred by the rail line are maintained |
| Railway into Felixstowe | In the event of encroachment of the sea inland - loss of railway line | Yes | Only rail link to the wider rail network for Felixstowe port and the town | Local, National, International | HA | Local community National economy | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits currently conferred by the rail line are maintained |
| Harwich railway station | If the sea encroaches inland - loss of station facilities | Yes | Only rail link to the wider rail network and a rail link to Southend-on-Sea | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Maintain benefits of the station |
| Dovercourt railway station | If the sea encroaches inland - loss of station facilities | Yes | Only rail link to the wider rail network and a rail link to Southend-on-Sea | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Maintain benefits of the station |
| Harwich International | If the sea encroaches inland - loss of station | Yes | Only rail link to the wider rail network | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Maintain benefits of the station |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|---|-------|--------------------|----------------------------|--|----------------------------------|----------------------------|--------------------------------------|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| rail station | facilities | | and a rail link to Southend-on-Sea | | | | | | | |
| Manningtree railway station | If the sea encroaches inland - loss of station facilities | Yes | Only rail link to the wider rail network and a rail link to Southend-on-Sea | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Maintain benefits of the station |
| Ipswich railway station | If the sea encroaches inland - loss of station facilities | Yes | Sole rail link to the wider rail network and a rail link to Southend-On-Sea | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Maintain benefits of the station |
| Car park at Harwich (TM248305) | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at (TM167314) | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at (TM169317) | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at Dedham (TM057336) | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at Lower Holbrook (TM176350) | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at (TM205378) | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|------------------------------------|-------|--------------------|----------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Car park at (TM219392) | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at (TM283321) | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Electricity transmission lines between TM081322 and TM082334 | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the electricity transmission lines | Yes | Amenity value | Local | HA | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | Maintain electricity transmission lines |
| Essex Way (public right of way) on southern bank of the River Stour | If the sea encroaches inland – loss of footpath | Yes | Amenity value | Local | R | Local community | Coastal flooding, coastal erosion | Yes | Yes | To maintain pedestrian access at this point |
| St Edmund's Way (public right of way), Stratford St Mary to Manningtree | If the sea encroaches inland – loss of footpath | Yes | Amenity value | Local | R | Local community | Coastal flooding, coastal erosion | Yes | Yes | To maintain pedestrian access at this point |
| Stour Valley Path (public right of way), Stratford St Mary to Brantham | If the sea encroaches inland – loss of footpath | Yes | Amenity value | Local | R | Local community | Coastal flooding, coastal erosion | Yes | Yes | To maintain pedestrian access at this point |
| Stour and Orwell Walk (public right of way) | If the sea encroaches inland – loss of footpath | Yes | Amenity value | Local | R | Local community | Coastal flooding, coastal erosion | Yes | Yes | To maintain pedestrian access at this point |
| Suffolk Coast and Heaths | If the sea encroaches inland – loss of | Yes | Amenity value | Local | R | Local community | Coastal flooding, coastal erosion | Yes | Yes | To maintain pedestrian access at this point |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|--|--|----------------|---|-------------------------|--------------------|----------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Path | footpath | | | | | | | | | |
| Saltmarsh habitat | If the sea encroaches inland - loss of saltmarsh habitat | Yes | Conservation value Amenity value | National | P | Broader society | Sea level rise Land take for development Natural processes | Yes | Yes | To ensure the extent, distribution and quality of saltmarsh habitat is maintained / restored |
| Agricultural land | In the event of encroachment of the sea inland - loss of agricultural land | Yes | Agricultural productivity Socio-economic value | Regional National | C | Broader society | Direct loss through Coastal flooding or coastal erosion | No | No | To ensure the food production benefits of this land are maintained |
| Stour and Orwell Estuaries (Ramsar site and SPA) | Coastal squeeze from existing or future enhancement of flood defence structures and management may lead to loss of habitats | Yes | Stringent means of maintaining conservation value of the site | International | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | No | To maintain the site in favourable condition |
| Stour Estuary SSSI | Coastal squeeze from existing or future enhancement of flood defence structures and management may lead to loss of habitats for over wintering birds | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | No | To maintain this site in a favourable condition |
| Hamford Water (Ramsar site, SPA, SSSI, NNR) | Coastal squeeze from existing or future enhancement of flood defence structures and management may lead to loss of habitats | Yes | Stringent means of maintaining conservation value of the site | International, national | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management | No | No | To maintain the site in favourable condition |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|------------------------------------|----------|--------------------|----------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Sea level rise Increased storm frequency and intensity | | | |
| Cattawade Marshes SSSI | If the sea encroaches inland - loss of habitat for breeding bird communities | Yes | Conservation value | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | No | To maintain the habitat in favourable condition |
| Little Oakley Channel Deposits SSSI | Important reserve of Pleistocene interglacial channel-fill sediments including faunal and floral remains | Yes | Unique site in Britain | National | E | Broader society | Coastal squeeze Erosion Sea level rise Natural processes | No | No | To maintain the habitat in a favourable condition |
| Harwich Foreshore SSSI (geological) | If the sea encroaches inland or coastal erosion loss of cliff exposures | Yes | Conservation value | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Changes in current shoreline management Sea level rise | No | No | To maintain the cliff exposures in favourable condition |
| Stutton Cliff SSSI (geological) | If the sea encroaches inland or coastal erosion - loss of cliff exposures | Yes | Conservation value | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Changes in current shoreline management Sea level rise | No | No | To maintain the cliff exposures in favourable condition |
| Nacton Cliff SSSI (geological) | If the sea encroaches inland or coastal erosion - loss of cliff exposures. | Yes | Conservation value | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Changes in current shoreline management Sea level rise | No | No | To maintain the cliff exposures in favourable condition |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|---|----------------|------------------------------------|----------|--------------------|----------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Harkstead Cliff SSSI (geological) | If the sea encroaches inland or coastal erosion - loss of cliff exposures. | Yes | Conservation value | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Changes in current shoreline management Sea level rise | No | No | To maintain the cliff exposures in favourable condition |
| Oakfield Wood nature reserve | If the sea encroaches inland or coastal erosion - loss of 'green burial ground' | Yes | Conservation value | Local | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Changes in current shoreline management Sea level rise | No | No | To maintain the site in favourable condition |
| Wrabness Local Nature Reserve (TM161316) | If the sea encroaches inland or coastal erosion - loss of protected habitats | Yes | Conservation value | Local | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Changes in current shoreline management Sea level rise | No | No | To maintain the site in favourable condition |
| Nature reserve at (TM114324) | If the sea encroaches inland or coastal erosion - loss of protected habitats | Yes | Conservation value | Local | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Changes in current shoreline management Sea level rise | No | No | To maintain the site in favourable condition |
| Trimley Marshes Nature Reserve | If the sea encroaches inland or coastal erosion - loss of protected habitats | Yes | Conservation value | Local | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Changes in current shoreline management Sea level rise | No | No | To maintain the site in favourable condition |
| Orwell country | If the sea encroaches | Yes | Conservation value | Regional | E/R | Broader society | Development | No | No | To maintain the site in |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|--|--|----------------|--|----------|--------------------|---------------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| park | inland or coastal erosion - loss of protected habitats and recreational site | | Recreation value | | | | Disturbance Natural processes Coastal erosion Coastal flooding Changes in current shoreline management Sea level rise | | | favourable condition and maintain its recreational value |
| Flatford Mill field studies centre and National Trust property | In the event of encroachment of the sea inland - loss of field studies centre | Yes | Conservation value and educational value | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Changes in current shoreline management Sea level rise | No | No | To maintain the conservation and educational values of the centre |
| Mistley Park Place animal rescue centre | In the event of encroachment of the sea inland - loss of animal rescue centre | Yes | Amenity Value | Local | HA | Broader society | Coastal erosion Coastal flooding Sea level rise | Yes | Yes | To maintain the amenity value of the centre |
| Inshore rescue boat station at Harwich | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the inshore rescue boat station. | Yes | Amenity value | Regional | HA | Local community Regional community | Encroachment of the sea, Coastal flooding, coastal erosion | Yes | Yes | To ensure the rescue service is maintained |
| Lifeboat station at Harwich | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the lifeboat station. | Yes | Amenity value | Regional | HA | Local community Regional community | Encroachment of the sea, Coastal flooding, coastal erosion | Yes | Yes | To ensure the rescue service is maintained |
| Caravan park and campsite at TM194403 | If the sea encroaches inland – loss of caravan park | Yes | Amenity value and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland | Yes | Yes | To ensure risk to caravan and campsite from coastal erosion and coastal flooding is minimised and to maintain its economic and amenity values |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|------------------------------------|-------|--------------------|--------------------------------------|--|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Increased storm frequency and intensity | | | |
| Harwich and Dovercourt golf club | Erosion and progradation Coastal squeeze Sea level rise Increased storm frequency and intensity | Yes | Recreational value | Local | R | Regional community and local economy | Sea level rise Coastal squeeze Development Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To maintain the value of the site for recreational purposes |
| Wolverstone marina | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Fox's marina, Ipswich | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Ipswich Haven marina | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Neptune marina, Ipswich | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Marina at Shotley Point | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional | Coastal squeeze Sea level rise | Yes | Yes | To ensure risk to marina from coastal |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|---------------------------------------|-------|--------------------|--------------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | community | Coastal erosion Natural processes Encroachment of the sea inland | | | processes is minimised |
| Levington marina | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Piers at Harwich | If the sea encroaches inland or coastal erosion - undermining and loss of the pier | Yes | Recreational value and economic value | Local | R | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational value of the pier |
| Admiralty pier at Shotley Gate | If the sea encroaches inland or coastal erosion - undermining and loss of the pier | Yes | Recreational value and economic value | Local | R | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the pier |
| Visitor centre at Harwich | In the event of encroachment of the sea, loss of visitor centre | Yes | Recreational value and economic value | Local | R | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic and recreational values |
| Visitor centre at Trimley Marshes | In the event of encroachment of the sea - loss of visitor centre | Yes | Recreational value and economic value | Local | R | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic and recreational values |
| Museums at Harwich | In the event of encroachment of the sea - loss of museums | Yes | Amenity value and economic value | Local | HA | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the sites for their economic value to the local community |
| Museum at Lawford | In the event of encroachment of the sea - loss of museum | Yes | Amenity value and economic value | Local | HA | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic value to the local community |
| Museum at Shotley Gate | In the event of encroachment of the sea - loss of museum | Yes | Amenity value and economic value | Local | HA | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic value to the local community |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|--|--|----------------|------------------------------------|----------|--------------------|--|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Martello tower 'M' at Shotley Gate (scheduled monument and grade II listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Mistley Towers (scheduled monument and grade I listed buildings) | In the event of coastal erosion/encroachment of the sea inland - loss of the towers | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | No | No | To maintain the historic value of the feature |
| Harwich ferry terminal | In the event of coastal erosion/encroachment of the sea inland loss of the ferry terminal | Yes | Economic value Amenity value | National | HA | National community National economy | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency | Yes | Yes | Maintain the economic and amenity benefits provided by the ferry service |
| Harwich international port | In the event of coastal erosion/encroachment of the sea inland - loss of the port | Yes | Economic value Amenity value | National | HA | National community National economy | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency | Yes | Yes | Maintain the economic and amenity benefits provided by the port |
| Felixstowe port | In the event of coastal erosion/encroachment of the sea inland - loss of the port | Yes | Economic value Amenity value | National | HA | National community National economy | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency | Yes | Yes | Maintain the economic and amenity benefits provided by the port |
| Petrochem Carless refinery, Harwich (CoMAH site) | In the event of coastal erosion/encroachment of the sea inland - loss of the site and risk of pollution hazard | Yes | Economic value | Local | HA | National | Sea level rise Coastal flooding Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic value |
| Shotley battery (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|--|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Martello tower 'L' (scheduled monument and grade II listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Martello tower (M) (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Landguard Fort and associated field works (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Ring ditches of Reed Island (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Beacon Hill fort (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| The Dovercourt lighthouses and causeway (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Harwich low lighthouse (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes | Yes | No | To maintain the historic value of the feature |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|---|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Increased storm frequency and intensity | | | |
| Harwich high lighthouse (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Napoleonic coastal battery at Bathside (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| The Harwich treadwheel crane (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Area of middle and late Saxon town, off Star Lane, Ipswich90 (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Area of middle and late Saxon town, off Greyfriars Road, Ipswich (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature. | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Area of middle and late Saxon town between Turret Lane and Star Lane, Ipswich | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|--|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| (scheduled monument) | | | | | | | | | | |
| Wolsey's Gate, College Street, Ipswich (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Guildhall, Harwich (grade I listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Landguard fort, Felixstowe (grade I listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Gateway to Wolsey's College of St Mary (grade I listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Willis Faber building, Ipswich (grade I listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Flatford Mill (grade I listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Millers House and cottage, | In the event of coastal erosion/encroachment | Yes | Historic value | National | H | National community and | Sea level rise Coastal flooding | Yes | No | To maintain the historic value of the feature |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|--|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Stour Valley (grade I listed building) | of the sea inland - loss of the feature | | | | | tourists | Coastal erosion Natural processes Increased storm frequency and intensity | | | |
| Valley farmhouse, Stour Valley (grade I listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Willy Lott's cottage, Flatford (grade I listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Church of St Nicholas (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Electric palace cinema (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| High house (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| High lighthouse (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Number 26 and frontage wall to south east (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Old naval yard crane (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| The Old Swan house (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| White House farmhouse (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Church of All Saints (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Church of St Mary at the quay (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|--|---|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Church of St Nicholas (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Church of St Peter (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| The Old Custom House (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Bridge Cottage (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| About 210 grade II listed buildings around the Stour and Orwell Estuaries. | In the event of coastal erosion/encroachment of the sea inland - loss of the features | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the features |
| Wet dock (including New Cut) conservation area, Ipswich | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Stoke conservation area, Ipswich | In the event of coastal erosion/encroachment of the sea inland - loss | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion | Yes | No | To maintain the historic value of the feature |

| Frontage A – Felixstowe Port to Little Oakley | | | | | | | | | | |
|---|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | of the feature | | | | | | Natural processes Increased storm frequency and intensity | | | |
| Pin Mill conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Harwich conservation Area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Dovercourt conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Trimley Marshes (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Local | H | Local community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Shotley Marshes (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Local | H | Local community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Cattawade Marshes (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage B – Little Oakley to Walton-on-the-Naze | | | | | | | | | | |
|--|--|----------------|--|--------------------------|--------------------|---|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Built properties at Walton-on-the-Naze | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Kirby-le-Soken | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties around Hamford Water | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| B1414 | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main coastal route from Thorpe-le-Soken to Harwich | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| B1034 at Kirby-le-Soken | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting properties in Kirby-le-Soken to hinterland | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| Minor roads and tracks surrounding Hamford Water | In the event of encroachment of the sea inland - undermining or loss of the roads and tracks | Yes | Mainly responsible for connecting scattered individual properties with major roads | Local | HA | Individual residents Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the road are maintained |
| Saltmarsh habitat within unit | In the event of encroachment of the sea inland - loss of saltmarsh habitat | Yes | Conservation value Amenity value | National / International | P | Broader society | Coastal squeeze Land-take for flood risk management or development Sea level rise | Yes | Yes | To ensure the extent, distribution and quality of saltmarsh habitat is maintained/restored |

| Frontage B – Little Oakley to Walton-on-the-Naze | | | | | | | | | | |
|--|--|----------------|---|----------------------|--------------------|----------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Agricultural land | In the event of encroachment of the sea inland - loss of agricultural land | Yes | Agricultural productivity Socio-economic value | Regional National | C | Broader society | Direct loss through coastal flooding or coastal erosion | No | No | To ensure the food production benefits of this land are maintained |
| EPC Groupe UK Bramble Island (CoMAH site) | In the event of coastal erosion/encroachment of the sea inland - loss of the site and risk of pollution hazard | Yes | Economic value | Local | HA | National | Sea level rise Coastal flooding Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic value |
| Hamford Water (Ramsar site, SPA, SSSI and NNR) | Coastal squeeze from existing or future enhancement of flood defence structures and management may lead to loss of habitats | Yes | Stringent means of maintaining conservation value of the site | International | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | No | To maintain the site in favourable condition |
| The Naze SSSI | Coastal squeeze from existing or future enhancement of flood defence structures and management. Coastal erosion of the cliffs | Yes | Conservation value | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Changes in current shoreline management Sea level rise | No | No | To maintain the cliff exposures in favourable condition |
| Campsite and caravan park at Walton-on-the-Naze | If the sea encroaches inland – loss of caravan park | Yes | Amenity and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised |

| Frontage B – Little Oakley to Walton-on-the-Naze | | | | | | | | | | |
|--|--|----------------|------------------------------------|----------|--------------------|--------------------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Titchmarsh marina | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To ensure risk to marina from coastal processes is minimised |
| World War two bombing decoy Ha2 Kirby-Le-Soken (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Beaumont quay, Hamford Water,- 19th century quay and lime kiln (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Martello tower K and associated battery south west of Walton Mere (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| About 18 grade II listed buildings around Hamford Water | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Horsey Island (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Local | H | Local community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage B – Little Oakley to Walton-on-the-Naze | | | | | | | | | | |
|---|---|----------------|------------------------------------|-------|--------------------|------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Hamford Water former marshes (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Local | H | Local community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage C – Walton-on-the-Naze to Colne Point | | | | | | | | | | |
|--|--|----------------|--|-------|--------------------|---|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Built properties at Lee-over-Sands | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Seawick | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Jaywick | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Holland-on-Sea | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Frinton-on-Sea | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Walton-on-the-Naze | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Minor road at Lee-over-Sands | In the event of encroachment of the sea inland - | Yes | Connects buildings at Lee-over-Sands to other places | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | No | Ensure the transport benefits of the roads are maintained |

| Frontage C – Walton-on-the-Naze to Colne Point | | | | | | | | | | |
|---|--|----------------|--|----------------------|--------------------|----------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | undermining or loss of the road | | | | | | | | | |
| Minor road at Seawick | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Connects Seawick to other places | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | No | Ensure the transport benefits of the roads are maintained |
| Minor roads at Jaywick and eastern Clacton-on-Sea | In the event of encroachment of the sea inland - undermining or loss of the roads | Yes | Connects buildings at Lee-over-Sands to other places | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| B1032 at Holland-on-Sea | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Connects Holland-on-Sea to Great Holland | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Car park at Jaywick 147128 | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at Clacton-on-Sea 215170 | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at Walton-on-the-Naze | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Electricity transmission lines at Holland-on-Sea | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the electricity transmission lines | Yes | Amenity value | Local | HA | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | Maintain electricity transmission lines |
| Agricultural land at St | In the event of encroachment of the | Yes | Agricultural productivity | Regional National | C | Broader society | Direct loss through coastal flooding or coastal erosion | No | No | To ensure the food production benefits of |

| Frontage C – Walton-on-the-Naze to Colne Point | | | | | | | | | | |
|---|---|----------------|---|---------------|--------------------|---------------------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Osyth Marsh | sea inland - loss of agricultural land | | Socio-economic value | | | | | | | this land are maintained |
| Colne Estuary Ramsar site, SPA and SSSI | In the event of encroachment of the sea inland - loss of saltmarsh habitat | Yes | Conservation value Amenity value | International | P | Broader society | Coastal squeeze Land acquisition for flood risk management or development Sea level rise | Yes | Yes | To ensure the extent, distribution and quality of saltmarsh habitat is maintained / restored |
| Clacton Cliffs and Foreshore SSSI | If the sea encroaches inland or coastal erosion loss of cliff exposures. | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Changes in current shoreline management Sea level rise | No | No | To maintain the cliff exposures in favourable condition |
| Holland-on-Sea Cliffs SSSI | If the sea encroaches inland or coastal erosion loss of cliff exposures. | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Changes in current shoreline management Sea level rise | No | No | To maintain the cliff exposures in favourable condition |
| Coastguard look-out station at Clacton-on-Sea | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the coastguard look-out station | Yes | Amenity value | Regional | HA | Local community Regional community | Encroachment of the sea, Coastal flooding, coastal erosion | Yes | Yes | To ensure the rescue service is maintained |
| Coastguard look-out station at Walton-on-the-Naze | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the coastguard look-out station | Yes | Amenity value | Regional | HA | Local community Regional community | Encroachment of the sea, Coastal flooding, coastal erosion | Yes | Yes | To ensure the rescue service is maintained |
| Inshore rescue boat station at Clacton-on-Sea | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the inshore rescue boat station | Yes | Amenity value | Regional | HA | Local community Regional community | Encroachment of the sea, Coastal flooding, coastal erosion | Yes | Yes | To ensure the rescue service is maintained |

| Frontage C – Walton-on-the-Naze to Colne Point | | | | | | | | | | |
|--|--|----------------|------------------------------------|----------|--------------------|---------------------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Lifeboat station at Walton-on-the-Naze | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the lifeboat station | Yes | Amenity value | Regional | HA | Local community Regional Community | Encroachment of the sea, Coastal flooding, coastal erosion | Yes | Yes | To ensure the rescue service is maintained |
| Caravan parks at Seawick | If the sea encroaches inland – loss of caravan park | Yes | Amenity value and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised, and to maintain its economic and amenity value |
| Clacton-on-Sea golf club and clubhouse | Erosion and progradation Coastal squeeze Sea level rise Increased storm frequency and intensity | Yes | Recreational value | Local | R | Regional community and local economy | Sea level rise Coastal squeeze Development Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To maintain the value of the site for recreational purposes |
| Frinton golf club and clubhouse | Erosion and progradation Coastal squeeze Sea level rise Increased storm frequency and intensity | Yes | Recreational value | Local | R | Regional community and local economy | Sea level rise Coastal squeeze Development Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency | Yes | Yes | To maintain the value of the site for recreational purposes |

| Frontage C – Walton-on-the-Naze to Colne Point | | | | | | | | | | |
|--|---|----------------|--|-----------------|--------------------|--------------------------------------|--|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | and intensity | | | |
| St Osyth beach | Installation of coastal defences or management of beach sediment for coastal defence purposes may harm the aesthetic and recreational value of the beaches. Changes in coastal management elsewhere may result in geomorphological changes here, reducing the recreational value of the beaches | Yes | Recreational value and economic value | Local, Regional | R | Regional community and local economy | Coastal squeeze Land take for flood risk management or development Change in coastal management here or in adjacent coastal areas, which change the sediment processes, and ultimately composition at the site of the beach | Yes | No | To maintain landscape and amenity values of the beaches |
| Holland Haven country park | In the event of coastal erosion/encroachment of the sea inland loss of country park | Yes | Recreational value, amenity value and conservation value | Local | E/R | Regional community and local economy | Sea level rise Coastal squeeze Development Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To maintain the recreational and amenity values of the park |
| Pier at Clacton-on-Sea | If the sea encroaches inland or coastal erosion - undermining and loss of the pier | Yes | Recreational value and economic value | Local | R | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the pier |
| Pier at Walton-on-the-Naze | If the sea encroaches inland or coastal erosion - undermining and loss of the pier | Yes | Recreational value and economic value | Local | R | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the pier |
| Aquarium at Clacton-on- | In the event of coastal erosion/encroachment | Yes | Recreational value, economic value, | Local | R/HA | Local community and | Sea level rise Coastal flooding | Yes | Yes | To maintain the recreational, |

| Frontage C – Walton-on-the-Naze to Colne Point | | | | | | | | | | |
|---|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Sea | of the sea inland - loss of the aquarium | | conservation value | | | tourists | Coastal erosion Natural processes Increased storm frequency and intensity | | | economic and conservation values of the feature |
| Martello towers at Clacton-on-Sea (scheduled monuments and grade II listed buildings) | In the event of coastal erosion/encroachment of the sea inland - loss of the towers | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of these features |
| Martello tower E, 300 metres south west of junction of Marine Parade West and Wash Lane, Clacton-on-Sea (scheduled monument and grade II listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Martello tower C, St Osyth beach, Clacton-on-Sea (scheduled monument and grade II listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Martello tower D, 450 metres south west of the clubhouse, Clacton golf gores | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage C – Walton-on-the-Naze to Colne Point | | | | | | | | | | |
|--|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| (scheduled monument and grade II listed building) | | | | | | | | | | |
| Lion Point decoy 810 metres south east of Cockett Wick farm (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| About five grade II listed buildings along the Tendring Peninsula | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Frinton and Walton conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Clacton-on-Sea conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Holland Haven and Holland Brook floodplain (historic grazing marshes) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage C – Walton-on-the-Naze to Colne Point | | | | | | | | | | |
|--|---|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| St Osyth Marshes (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage D – Colne Point to East Mersea | | | | | | | | | | |
|---|--|----------------|--|-------|--------------------|---|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Built properties at East Mersea | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Colchester | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Rowhedge | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Wivenhoe | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Brightlingsea | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and alteration of local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Point Clear | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and alteration of local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Minor road between Fingringhoe | In the event of encroachment of the sea inland - | Yes | Mainly responsible for connecting Fingringhoe and | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |

| Frontage D – Colne Point to East Mersea | | | | | | | | | | |
|---|--|----------------|---|---------------|--------------------|----------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| and Rowhedge | undermining or loss of the road | | Rowhedge | | | | | | | |
| B1025 at TM011204 | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road from Colchester to Mersea Island | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| B1029 south of Thorrington | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Only road link to Brightlingsea | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | No | Ensure the transport benefits of the roads are maintained |
| Railway line between Colchester and Wivenhoe | In the event of encroachment of the sea inland - loss of railway line | Yes | Rail link to the wider rail network | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the rail line are maintained |
| Hythe and Wivenhoe railway stations | If the sea encroaches inland - loss of station facilities | Yes | Only rail link to the wider rail network and a rail link to Southend-on-Sea | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Maintain benefits given by the station |
| Car park at TM067153 | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at Westmarsh Point | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at Stone Point | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, Coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Colne Estuary, Ramsar site, SPA, SSSI and NNR | In the event of encroachment of the sea inland - loss of protected habitats | Yes | Stringent means of maintaining conservation value of the site | International | E | Broader society | Development Disturbance Coastal erosion Coastal flooding Natural processes | No | No | To maintain the site in favourable condition |

| Frontage D – Colne Point to East Mersea | | | | | | | | | | |
|---|---|----------------|---|----------------------|--------------------|--------------------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Increased accessibility Sea level rise Increased storm frequency and intensity | | | |
| Upper Colne Marshes SSSI | Diverse habitat ranges from freshwater to fully saline, so contains a large number of rare vegetation and is species rich | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Development Disturbance Coastal erosion Coastal flooding Natural processes Increased accessibility Sea level rise Increased storm frequency and intensity Poor grazing management | No | No | To maintain the site in favourable condition |
| Agricultural land | In the event of encroachment of the sea inland - loss of agricultural land | Yes | Agricultural productivity Socio-economic value | Regional National | C | Broader society | Direct loss through Coastal flooding or coastal erosion | No | No | To ensure the food production benefits of this land are maintained. |
| Nature reserve at Mersea Stone | In the event of encroachment of the sea inland - loss of habitat | Yes | Conservation value | Local | E | Broader society | Coastal squeeze Sea level rise Coastal erosion Coastal flooding Development Disturbance Water quality Land take for flood risk management or development Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency and intensity | No | No | To maintain the conservation value of the feature |
| Cudmore Grove country park | In the event of coastal erosion/encroachment of the sea inland - loss of country park | Yes | Recreational value, amenity value and conservation value | Local | E/R | Regional community and local economy | Sea level rise Coastal squeeze Development Coastal erosion Coastal flooding | Yes | Yes | To maintain recreational and amenity values of the park |

| Frontage D – Colne Point to East Mersea | | | | | | | | | | |
|---|--|----------------|------------------------------------|-------|--------------------|----------------------------|--|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency and intensity | | | |
| Campsite and caravan parks near East Mersea | If the sea encroaches inland – loss of campsite and caravan park | Yes | Amenity value and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised and to maintain its economic and amenity value |
| Campsite and caravan park at Brightlingsea | If the sea encroaches inland – loss of campsite and caravan park | Yes | Amenity value and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised and to maintain its economic and amenity value |
| Caravan park at Point Clear | If the sea encroaches inland – loss of campsite and caravan park | Yes | Amenity value and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised and to maintain its economic and amenity value |

| Frontage D – Colne Point to East Mersea | | | | | | | | | | |
|--|---|----------------|--|---------------------------|--------------------|---------------------------------|--|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | inland Increased storm frequency and intensity | | | |
| Ballast quay quarry | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Economic value | National | C | Broader society | Direct loss through coastal flooding or coastal erosion | No | No | To ensure the food production benefits of this land are maintained. |
| Essex Wildlife Trust's Fingringhoe Wick nature reserve | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Amenity value, economic value and conservation value | National | E/R | Broader society | Coastal squeeze Sea level rise Coastal erosion Coastal flooding Development Disturbance Water quality Land take for flood risk management or development Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency and intensity | No | No | To maintain the conservation value of the feature |
| Museum at Stone Point | In the event of encroachment of the sea - loss of museum | Yes | Amenity value and economic value | Local | HA | Broader society | Sea level rise Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic value to the local community |
| Martello tower and associated battery, Stone Point (scheduled monument and grade II listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature. | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Fingringhoe ranges danger area (firing range) | In the event of encroachment of the sea - loss of area for military training | Yes | Strategic military importance | National International | HA | Broader society | Sea level rise Encroachment of the sea inland Coastal flooding Changes in current shoreline management | Yes | Yes | To ensure that the ability to use this area for military training purposes is maintained |

| Frontage D – Colne Point to East Mersea | | | | | | | | | | |
|---|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Berechurch dyke: part of the iron age territorial Oppidum and Romano-British town of Camulodunum (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Decoy pond 500 metres south of Waldegraves Farm (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Tudor blockhouse 300 metres south of Mersea Stone (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Roman saltern 750 metres north west of Maydays Farm (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Coastal fish weir at West Mersea (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| The Quarters (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes | Yes | No | To maintain the historic value of the feature |

| Frontage D – Colne Point to East Mersea | | | | | | | | | | |
|---|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Increased storm frequency and intensity | | | |
| Thorrington tide mill and attached dam wall to north west (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| About 81 grade II listed buildings along the Colne Estuary | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| St Osyth's Priory historic park and garden | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| St Osyth conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Brightlingsea conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Wivenhoe conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Rowhedge conservation | In the event of coastal erosion/encroachment | Yes | Historic value | Regional | H | Regional community and | Sea level rise Coastal flooding | Yes | No | To maintain the historic value of the |

| Frontage D – Colne Point to East Mersea | | | | | | | | | | |
|--|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| area | of the sea inland - loss of the feature | | | | | tourists | Coastal erosion Natural processes Increased storm frequency and intensity | | | feature |
| Colchester, Distillery Pond conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Colchester, Hythe conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Howlands Marsh (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Brightlingsea Marshes (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| River Colne Marshes (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Local | H | Local community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Langenhoe Marshes, Wick Marsh, Fingringhoe Marshes (historic | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage D – Colne Point to East Mersea | | | | | | | | | | |
|---|--------------------------------|----------------|------------------------------------|-------|--------------------|----------------------------|---|----------------------------------|----------------------------|------------|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| grazing marsh) | | | | | | | | | | |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|---|--|----------------|--|-------|--------------------|---|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Built properties at Bradwell Waterside | Coastal erosion Sea level rise Coastal squeeze | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at St Lawrence and Ramsey Island | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Stansgate Abbey Farm | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Steeple | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Mayland and Maylandsea | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Latchingdon | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties south of Maldon | If the sea encroaches inland - displaced residents and loss of | Yes | Homes for people – loss of housing stock and change | Local | HA | Individual residents Local | Direct loss through coastal flooding or coastal erosion Loss of roads or services | Yes | Yes | To ensure risk to properties from coastal erosion and |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|---|---|----------------|--|-------|--------------------|---|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | housing stock | | in local communities | | | community | Loss of value due to envisaged future coastal management/natural change | | | coastal flooding is minimised |
| Built properties at Maldon | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Goldhanger | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Tollesbury | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Salcott-cum-Virley | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at East Mersea | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Minor roads at Bradwell Waterside | In the event of encroachment of the sea inland - undermining or loss of the roads | Yes | Mainly responsible for connecting settlement and marina with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | No | Ensure the transport benefits of the roads are maintained |
| Minor road at Bradwell | In the event of encroachment of the | Yes | Mainly responsible for connecting | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | No | Ensure the transport benefits of the roads |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|--|---|----------------|--|-------|--------------------|----------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Ramsey Island and St Lawrence | sea inland, undermining or loss of the road | | settlement with the major roads | | | | | | | are maintained |
| Minor roads at Bradwell Mayland and Maylandsea | In the event of encroachment of the sea inland - undermining or loss of the roads | Yes | Mainly responsible for connecting settlement with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Minor road at Latchingdon | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting settlement with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| B1018 at Latchingdon | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| B1018 and B1010 at TL855028 | In the event of encroachment of the sea inland - undermining or loss of the roads | Yes | Major roads in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Minor roads south of Maldon | In the event of encroachment of the sea inland - undermining or loss of the roads | Yes | Mainly responsible for connecting individual properties with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| B1018 south from Maldon | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| B1018 east of Maldon | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road east from Maldon | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| B1026 near Salcott-cum- | In the event of encroachment of the | Yes | Major road in the area | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|--|--|----------------|--|----------|--------------------|----------------------------|--|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Virley | sea inland - undermining or loss of the road | | | | | | | | | are maintained |
| Minor roads around Salcott-cum-Virley | In the event of encroachment of the sea inland - undermining or loss of the roads | Yes | Mainly responsible for connecting individual properties with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Car park at St Lawrence | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at Heybridge Basin | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at Tollesbury | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car parks at West Mersea | In the event of coastal erosion/encroachment of the sea inland, undermining or loss of the car park. | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Electricity transmission lines at Bradwell Waterside | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the electricity transmission lines | Yes | Amenity value | Local | HA | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | Maintain electricity transmission lines |
| Saltmarsh habitat | In the event of encroachment of the sea inland - loss of saltmarsh habitat | Yes | Conservation value Amenity value | National | P | Broader society | Sea level rise Land take for development Natural processes | Yes | Yes | To ensure the extent, distribution and quality of saltmarsh habitat is maintained / restored |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|--|---|----------------|---|----------------------|--------------------|----------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Agricultural land | In the event of encroachment of the sea inland - loss of agricultural land | Yes | Agricultural productivity Socio-economic value | Regional National | C | Broader society | Direct loss through coastal flooding or coastal erosion | No | No | To ensure the food production benefits of this land are maintained |
| Blackwater Estuaries (Mid-Essex coast phase 4) Ramsar site, SPA, SSSI and NNR | In the event of encroachment of the sea inland - loss of protected habitats | Yes | Stringent means of maintaining conservation value of the site | International | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | No | To maintain the site in favourable condition |
| Colne Estuary (Mid-Essex coast phase 2) Ramsar site, SPA, SSSI and NNR | In the event of encroachment of the sea inland - loss of protected habitats | Yes | Stringent means of maintaining conservation value of the site | International | E | Broader society | Development Disturbance Coastal erosion Coastal flooding Natural processes Increased accessibility Sea level rise Increased storm frequency and intensity | No | No | To maintain the site in favourable condition |
| Dengie (Mid-Essex coast phase 1) Ramsar site, SPA and SSSI | If the sea encroaches inland - loss of saltmarsh habitat | Yes | Stringent means of maintaining conservation value of the site | International | E | Broader society | Development Disturbance Coastal erosion Coastal flooding Natural processes Increased accessibility Sea level rise Increased storm frequency and intensity | No | No | To maintain the site in favourable condition |
| Northey Island nature reserve | In the event of encroachment of the sea inland - loss of saltmarsh habitat | Yes | Conservation value | Local | E | Broader society | Coastal squeeze Sea level rise Coastal erosion Coastal flooding Development Disturbance | No | No | To maintain the conservation value of the feature |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|---|--|----------------|------------------------------------|-------|--------------------|----------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Water quality Land take for flood risk management or development Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency and intensity | | | |
| Old Hall Marshes nature reserve | In the event of encroachment of the sea inland - loss of saltmarsh habitat | Yes | Conservation value | Local | E | Broader society | Coastal squeeze Sea level rise Coastal erosion Coastal flooding Development Disturbance Water quality Land take for flood risk management or development Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency and intensity | No | No | To maintain the conservation value of the feature |
| Ray Island nature reserve | In the event of encroachment of the sea inland - loss of habitats | Yes | Conservation value | Local | E | Broader society | Coastal squeeze Sea level rise Coastal erosion Coastal flooding Development Disturbance Water quality Land take for flood risk management or development Natural processes Changes in current shoreline management Encroachment of the sea inland | No | No | To maintain the conservation value of the feature |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|---|---|----------------|------------------------------------|----------|--------------------|---------------------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Increased storm frequency and intensity | | | |
| Lifeboat station at West Mersea | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the lifeboat station. | Yes | Amenity value | Regional | HA | Local community Regional community | Encroachment of the sea, Coastal flooding, coastal erosion | Yes | Yes | To ensure the rescue service is maintained |
| Campsite and caravan park at St Lawrence | If the sea encroaches inland – loss of campsite and caravan park | Yes | Amenity value and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised and to maintain its economic and amenity values |
| Campsite and caravan park at Maryland Creek | If the sea encroaches inland – loss of campsite and caravan park | Yes | Amenity and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised and to maintain its economic and amenity values |
| Campsite and caravan park at Vaulty Manor | If the sea encroaches inland – loss of campsite and caravan park | Yes | Amenity and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised and to maintain its economic and amenity values |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|---|--|----------------|------------------------------------|-------|--------------------|--------------------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | inland Increased storm frequency and intensity | | | |
| Campsite and caravan parks at Mersea Island | If the sea encroaches inland – loss of campsite and caravan park | Yes | Amenity and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised and to maintain its economic and amenity values |
| Marina at Bradwell Waterside | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational value of the marina |
| Marina at Marylandsea | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Marina at Tollesbury | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Museum at Maldon | In the event of encroachment of the sea - loss of museum | Yes | Amenity value and economic value | Local | HA | Local economy and tourists | Sea level rise Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic value to the local community |
| Bradwell nuclear power station | In the event of encroachment of the sea - loss of site and | Yes | Economic value Amenity value | Local | HA | National | Sea level rise Encroachment of the sea inland | Yes | Yes | To maintain the site for its amenity and economic values |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|--|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| (CoMAH site) | creating of a potential hazard | | | | | | | | | |
| Remains of St Mary the Virgin's church (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Decoy pond immediately north of Pennyhole Fleet, Old Hall marshes (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Square decoy pond 260 metres south of Pennyhole Fleet, Old Hall marshes (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Gore decoy 760 metres south east of Lauriston Farm (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Mound east of Basin Road (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Saxon shore fort and Anglo-Saxon monastery at | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes | Yes | No | To maintain the historic value of the feature |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|---|---|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Bradwell-on-Sea (scheduled monument) | | | | | | | Increased storm frequency and intensity | | | |
| Decoy pond 700 metres north east of Marsh House Farm (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Tudor blockhouse 300 metres south of Mersea Stone (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Roman saltern 750 metres north west of Maydays Farm (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| St Peters on the Wall (grade I listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature. | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Church of St Andrews (grade I listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Church of St Mary (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes | Yes | No | To maintain the historic value of the feature |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|---|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Increased storm frequency and intensity | | | |
| Beeleigh steam mill and bridge over tail race (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| White House farmhouse (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| About 107 grade II listed buildings along the Blackwater Estuary and on Mersea Island | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Battle of Maldon, 991 (registered battlefield) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| West Mersea conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Goldhanger conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Heybridge Basin | In the event of coastal erosion/encroachment | Yes | Historic value | Regional | H | Regional community and | Sea level rise Coastal flooding | Yes | No | To maintain the historic value of the |

| Frontage E – East Mersea to Sales Point | | | | | | | | | | |
|---|--|----------------|------------------------------------|----------|--------------------|--|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| conservation area | of the sea inland - loss of the feature | | | | | tourists | Coastal erosion Natural processes Increased storm frequency and intensity | | | feature |
| Chelmer and Blackwater navigation – Maldon conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Mersea Island Marshes (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | | | |
| Salcott and Abbots Hall, Copt Hall and Feldy Marshes (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Local | H | Local community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | | | |
| Old Hall and Tollesbury Wick (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | National | H | Broader society, Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | | | |
| North bank of the Blackwater (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Local | H | Local community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | | | |

| Frontage F – Sales Point to Holliwell Point (North) | | | | | | | | | | |
|---|---|----------------|--|---------------|--------------------|---|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Built properties across the Dengie marshes | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future coastal management/natural change | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Minor roads in the Dengie and Bradwell marshes | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting scattered individual properties with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Electricity transmission lines at Bradwell marshes | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the electricity transmission lines | Yes | Amenity value | Local | HA | Local community | Encroachment of the sea, Coastal erosion, Coastal flooding | Yes | Yes | Maintain electricity transmission lines |
| St Peters Way path | If the sea encroaches inland – loss of footpath | Yes | Amenity value | Regional | R | Regional community | Coastal flooding, coastal erosion | Yes | Yes | To maintain pedestrian access at this point |
| Dengie (Mid-Essex coast phase 1) Ramsar site, SPA, SSSI and NNR | In the event of encroachment of the sea - loss of protected habitats | Yes | Stringent means of maintaining conservation value of the site | International | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | No | To maintain the site in favourable condition |
| Sandbeach Meadows SSSI | An area of grassland that provides feeding grounds for bird species. Also high in floral species diversity, coastal squeeze from development and coastal defences | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Development Disturbance Natural processes Coastal flooding Changes in current shoreline management Sea level rise | No | No | To maintain the site in a favourable condition |

| Frontage F – Sales Point to Holliwell Point (North) | | | | | | | | | | |
|---|---|----------------|---|----------------------|--------------------|---------------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Agricultural land | In the event of encroachment of the sea inland - loss of agricultural land | Yes | Agricultural productivity Socio-economic value | Regional National | C | Broader society | Direct loss through coastal flooding or coastal erosion | No | No | To ensure the food production benefits of this land are maintained. |
| Bradwell Cockle Spit nature reserve | In the event of encroachment of the sea inland - loss of saltmarsh habitat | Yes | Conservation value | Local | E | Broader society | Coastal squeeze Sea level rise Coastal erosion Coastal flooding Development Disturbance Water quality Land take for flood risk management or development Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency and intensity | No | No | To maintain the conservation value of the feature |
| Cattawade Marshes SSSI | If the sea encroaches inland or coastal erosion - loss of grazing marsh habitat | Yes | Conservation value | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | No | To maintain the grazing marsh habitat in favourable condition |
| St Peter's on the Wall (grade I listed building) | Sea level rise Encroachment of the sea inland | Yes | Historic value | National | H | National community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea inland Inadequate maintenance | No | No | To maintain the historic value of the feature |
| Othona Roman | Sea level rise | Yes | Historic value | National | H | National | Sea level rise | No | No | To maintain the |

| Frontage F – Sales Point to Holliwell Point (North) | | | | | | | | | | |
|---|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| fort (scheduled monument) | Encroachment of the sea inland | | | | | community and tourists | Natural processes Increased storm frequency and intensity Encroachment of the sea | | | historic value of the feature |
| World War two minefield control tower 940 metres and pillbox 980 metres south east of Holliwell Farm (scheduled monument) | Sea level rise Encroachment of the sea inland | Yes | Historic value | National | H | National community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| Decoy pond 700 metres north east of Marsh House Farm (scheduled monument) | Sea level rise Encroachment of the sea inland | Yes | Historic value | National | H | National community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| Saxon coastal fish weir at Sales Point (scheduled monument) | Sea level rise Encroachment of the sea inland | Yes | Historic value | National | H | National community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| Royal Corinthian yacht club (grade II* listed building) | Sea level rise Encroachment of the sea inland | Yes | Historic value | National | H | National community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| About 31 grade II listed buildings on the Dengie Peninsula | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic Value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Bradwell and Old Dengie Marshes | In the event of coastal erosion/encroachment of the sea inland loss of | Yes | Historic Value Amenity Value | Local | H | Local community and tourists | Sea level rise Coastal flooding Coastal erosion | Yes | No | To maintain the historic value of the feature |

| Frontage F – Sales Point to Holliwell Point (North) | | | | | | | | | | |
|--|---|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| (historic grazing marsh) | the feature. | | | | | | Natural processes Increased storm frequency and intensity | | | |
| New Dengie Marshes and Southminster (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|---|--|----------------|--|----------|--------------------|--|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Built properties at Courtsend | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Churchend | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties on Wallasea Island | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Little Wakering | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Regional | HA | Individual residents Regional community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Barling | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Rochford | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Great Stambridge | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Paglesham Churchend and Paglesham | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|---|--|----------------|---|-------|--------------------|---|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Eastend | | | communities | | | | envisaged future | | | minimised |
| Built properties at South Fambridge | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Battlesbridge | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at South Woodham Ferrers | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at North Fambridge | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Althorne | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Burnham-on-Crouch | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Minor roads around the Roach estuary | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting individual properties and small villages with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits currently conferred by the roads are maintained |
| Minor roads on Wallasea Island | In the event of encroachment of the sea inland - | Yes | Mainly responsible for connecting individual | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | No | Ensure the transport benefits currently conferred by the roads |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|---|---|----------------|---|-------------------|--------------------|---------------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | undermining or loss of the road | | properties, campsite and caravan park with the mainland | | | | | | | are maintained |
| Minor road at Moon's Farm | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting individual properties to hinterland | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Minor road at South Fambridge | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting individual properties with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | No | Ensure the transport benefits of the roads are maintained |
| Minor roads east of Hullbridge | If the sea encroaches inland - undermining or loss of the roads | Yes | Mainly responsible for connecting individual properties and small villages with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Minor road at Brandy Hole | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting individual properties with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Minor road at Brandy Hole | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting individual properties with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Minor roads at Battlesbridge | In the event of encroachment of the sea inland - undermining or loss of the roads | Yes | Mainly responsible for connecting individual properties and small villages with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| A130 (dual carriageway) | In the event of encroachment of the sea inland - undermining or loss of | Yes | Major road from large settlements of Basildon and Southend-on-Sea | Local Regional | HA | Local community Regional community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|---|--|----------------|--|-------------------|--------------------|---------------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | the road | | to Chelmsford | | | | | | | |
| A1245 | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road, but superseded by A130 | Local Regional | HA | Local community Regional community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| A129 | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Major road | Local Regional | HA | Local community Regional community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Minor road at Raywreth | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting individual properties with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Minor road at North Fambridge | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting village to B1012 | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| B1012 at TL848988 | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main road from South Woodham Ferrers travelling east | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| B1010 at TL857988 and TL873987 | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main road from South Woodham Ferrers travelling east | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Minor road at Althorne station | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Responsible for connecting marina, associated buildings and station to B1010 | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | No | Ensure the transport benefits of the roads are maintained |
| B1010 at Burnham-on-Crouch | In the event of encroachment of the sea inland - undermining or loss of | Yes | Main road out of the settlement | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|--|--|----------------|---|-------|--------------------|----------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | the road | | | | | | | | | |
| Minor roads east of Burnham-on-Crouch | In the event of encroachment of the sea inland - undermining or loss of the roads | Yes | Mainly responsible for connecting individual properties and small villages with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Railway line to Southend-on-Sea at Rochford | In the event of encroachment of the sea inland - loss of railway line | Yes | Only rail link to the wider rail network and to Southend-on-Sea | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the rail line are maintained |
| Railway line to Southminster at Battlesbridge, South Woodham Ferrers, Fambridge, Althorne and north of Burnham-on-Crouch | In the event of encroachment of the sea inland - loss of railway line | Yes | Only rail link to the wider rail network | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the rail line are maintained |
| Fambridge railway station | If the sea encroaches inland - loss of station facilities | Yes | Only rail link to the wider rail network and to Southend-on-Sea | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Maintain station |
| Rochford railway station | If the sea encroaches inland - loss of station facilities | Yes | Only rail link to the wider rail network | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Maintain station |
| Althorne railway station | If the sea encroaches inland - loss of station facilities | Yes | Only rail link to the wider rail network | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Maintain station |
| Car park at Brandy Hole | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at Burnham-on- | In the event of coastal erosion/encroachment | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, coastal erosion, coastal | Yes | Yes | To maintain car parking at this site |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|---|--|----------------|---|----------------------|--------------------|---------------------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Crouch | of the sea inland - undermining or loss of the car park | | | | | | flooding | | | |
| Electricity transmission lines at Rochford | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the electricity transmission lines | Yes | Amenity value | Local | HA | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | Maintain electricity transmission lines |
| Electricity transmission lines at TQ862949 | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the electricity transmission lines | Yes | Amenity value | Local | HA | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | Maintain electricity transmission lines |
| Electricity transmission lines at TQ848989 | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the electricity transmission lines | Yes | Amenity value | Local | HA | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | Maintain electricity transmission lines |
| Inshore rescue boat station at Burnham-on-Crouch | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the inshore rescue boat station. | Yes | Amenity value | Regional | HA | Local community Regional community | Encroachment of the sea, coastal flooding, coastal erosion | Yes | Yes | To insure the rescue service is maintained |
| Agricultural land | If the sea encroaches inland - loss of agricultural land | Yes | Agricultural productivity Socio-economic value | Regional National | C | Broader society | Direct loss through coastal flooding or coastal erosion | No | No | To ensure the food production benefits of this land are maintained. |
| Crouch and Roach Estuaries Ramsar site, SPA and SSSI | In the event of encroachment of the sea - loss of protected habitats | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management | No | No | To maintain the site in favourable condition |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|--|---|----------------|--|---------------------------|--------------------|----------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Sea level rise Increased storm frequency and intensity | | | |
| Foulness (Mid-Essex coast phase 5) Ramsar site, SPA and SSSI | In the event of encroachment of the sea inland - loss of saltmarsh habitat | Yes | Conservation value Amenity value Flood defence value | International National | E | Broader society | Coastal squeeze Natural processes Sea level rise | No | No | To maintain the site in favourable condition |
| Dengie (Mid-Essex coast phase 1) Ramsar site, SPA, SSSI and NNR | In the event of encroachment of the sea - loss of protected habitats | Yes | Stringent means of maintaining conservation value of the site | International | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | No | To maintain the site in favourable condition |
| The Cliff, Burnham-On-Crouch SSSI | Fossil records of the Eocene period providing considerable value to the species of the Eocene | Yes | Stringent means of maintaining conservation value of the site. | National | E | Broader society | Disturbance Natural processes Coastal flooding Natural processes Sea level rise | No | No | To maintain the site in favourable condition |
| Campsite and caravan park at Wallasea Island | If the sea encroaches inland – loss of campsite and caravan park | Yes | Amenity and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised |
| Campsite and caravan park at Burnham-on-Crouch | If the sea encroaches inland – loss of campsite and caravan park | Yes | Amenity and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|---|---|----------------|------------------------------------|---------------------------|--------------------|--------------------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland Increased storm frequency and intensity | | | minimised |
| Marina on Wallasea Island | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Marina at North Fambridge | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Marina at Althorne | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Marina at Burnham-on-Crouch | If the sea encroaches inland – loss of marina | Yes | Local economy/ local community | Local | C/R | Local economy and regional community | Coastal squeeze Sea level rise Coastal erosion Natural processes Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values of the marina |
| Museum at Burnham-on-Crouch | In the event of encroachment of the sea - loss of museum | Yes | Amenity value and economic value | Local | HA | Local economy and tourists | Sea level rise Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic value to the local community |
| Sports centre at Burnham-on-Crouch | In the event of encroachment of the sea - loss of feature | Yes | Amenity value and economic value | Local | HA | Local economy and tourists | Sea level rise Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic value to the local community |
| Danger area (firing range) at | In the event of encroachment of the | Yes | Strategic military importance | National International | HA | Broader society | Sea level rise Encroachment of the sea | Yes | No | To ensure that the ability to use this area |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|---|--|----------------|------------------------------------|---------------------------|--------------------|---------------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Foulness Island | sea - loss of area for military training | | | | | | inland Coastal flooding Changes in current shoreline management | | | for military training purposes is maintained |
| Danger area (firing range) at Potton Island | In the event of encroachment of the sea - loss of area for military training | Yes | Strategic military importance | National International | HA | Broader society | Sea level rise Encroachment of the sea inland Coastal flooding Changes in current shoreline management | Yes | No | To ensure that the ability to use this area for military training purposes is maintained |
| Medieval saltern adjacent to Hawbush Creek (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Church of St Peter (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Little Wakering Hall (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Manor House (grade II* listed building) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| About 49 grade II listed buildings along the Roach and Crouch | Sea level rise Encroachment of the sea inland | Yes | Historic value | National | H | National community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|---|---|----------------|------------------------------------|----------|--------------------|--|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| estuaries | | | | | | | | | | |
| Burnham-on-Crouch conservation area | Sea level rise Encroachment of the sea inland | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| Battlesbridge conservation area | Sea level rise Encroachment of the sea inland | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| Churchend Foulness conservation area | Sea level rise Encroachment of the sea inland | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| Great Wakering conservation area | Sea level rise Encroachment of the sea inland | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| Paglesham Churchend conservation area | Sea level rise Encroachment of the sea inland | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| Paglesham Eastend conservation area | Sea level rise Encroachment of the sea inland | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| Rochford conservation area | Sea level rise Encroachment of the sea inland | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Natural processes Increased storm frequency and intensity Encroachment of the sea | No | No | To maintain the historic value of the feature |
| North Fambridge and Stow Maries (historic) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | National | H | Broader society, Regional community and | Sea level rise Coastal flooding Coastal erosion Natural processes | Yes | No | To maintain the historic value of the feature |

| Frontage G: Holliwell Point (North) to Courtsend/Foulness Point | | | | | | | | | | |
|--|---|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| grazing marsh) | | | | | | tourists | Increased storm frequency and intensity | | | |
| South Woodham Ferrers (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Local | H | Local community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Estuary marshes of the Roach and Crouch (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage H: Courtsend / Foulness Point to North Shoebury | | | | | | | | | | |
|--|--|----------------|--|----------|--------------------|--|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Built properties at Great Wakering | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Regional | HA | Individual residents Regional community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Courtsend | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Churchend | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Local | HA | Individual residents Local community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Minor roads around east of North Shoebury | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Mainly responsible for connecting individual properties with the major roads | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Car park at Shoeburyness | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| The Broomway byeway | Coastal erosion, encroachment of the sea leading to failure of the path | Yes | Amenity value | Regional | R | Regional community | Coastal flooding, coastal erosion | Yes | No | Maintain continuous coastal footpath access |
| Campsite and caravan park at Shoeburyness | If the sea encroaches inland – loss of caravan park | Yes | Amenity and economic value | Local | R | Local economy and tourists | Coastal squeeze Sea level rise Coastal erosion Natural processes Inadequate maintenance Coastal flooding Development Disturbance Encroachment of the sea inland | Yes | Yes | To ensure risk to caravan site from coastal erosion and coastal flooding is minimised |

| Frontage H: Courtsend / Foulness Point to North Shoebury | | | | | | | | | | |
|--|---|----------------|--|---------------------------|--------------------|----------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Increased storm frequency and intensity | | | |
| Saltmarsh habitat | In the event of encroachment of the sea inland - loss of saltmarsh habitat | Yes | Conservation value Amenity value Flood defence value | Local | P | Broader society | Coastal squeeze Natural processes Sea level rise | Yes | Yes | To ensure the extent, distribution and quality of saltmarsh habitat is maintained / restored |
| Agricultural land | In the event of encroachment of the sea inland - loss of agricultural land | Yes | Agricultural productivity Socio-economic value | Regional National | C | Broader society | Direct loss through coastal flooding or coastal erosion | No | No | To ensure the food production benefits of this land are maintained. |
| Foulness Ramsar site, SPA and SSSI | In the event of encroachment of the sea - loss of protected habitats | Yes | Stringent means of maintaining conservation value of the site. | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | No | To maintain the site in favourable condition |
| Benfleet and Southend Marshes Ramsar site, SPA and SSSI | In the event of encroachment of the sea inland - loss of saltmarsh habitat, mudflats, grazing areas | Yes | Conservation value Amenity value Flood defence value | International National | E | Broader society | Coastal squeeze Natural processes Sea level rise | No | No | To maintain the site in favourable condition |
| Danger area (firing range) at Foulness Island | In the event of encroachment of the sea - loss of area for military training | Yes | Strategic military importance | National International | HA | Broader society | Sea level rise Encroachment of the sea inland Coastal flooding Changes in current shoreline management | Yes | No | To ensure that the ability to use this area for military training purposes is maintained |
| Danger area (firing range) at Havengore Island | In the event of encroachment of the sea - loss of area for military training | Yes | Strategic military importance | National International | HA | Broader society | Sea level rise Encroachment of the sea inland Coastal flooding Changes in current shoreline | Yes | No | To ensure that the ability to use this area for military training purposes is maintained |

| Frontage H: Courtsend / Foulness Point to North Shoebury | | | | | | | | | | |
|--|--|----------------|------------------------------------|---------------------------|--------------------|---------------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | management | | | |
| Danger area (firing range) at Maplin Sands | In the event of encroachment of the sea - loss of area for military training | Yes | Strategic military importance | National International | HA | Broader society | Sea level rise Encroachment of the sea inland Coastal flooding Changes in current shoreline management | Yes | No | To ensure that the ability to use this area for military training purposes is maintained |
| Romano-British burial site on Foulness Island (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| About 37 grade II listed buildings on Foulness Island and around Great Wakering / Shoeburyness | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Foulness Island (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Potton, Havengore, New England and Rushley Islands (historic grazing marsh) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic Value Amenity Value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage I: Canvey Island to North Shoebury | | | | | | | | | | |
|---|--|----------------|--|----------|--------------------|--|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Built properties at Shoeburyness | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Regional | HA | Individual residents Regional community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Southchurch | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Regional | HA | Individual residents Regional community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | No | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| Built properties at Southend-on-Sea | If the sea encroaches inland - displaced residents and loss of housing stock | Yes | Homes for people – loss of housing stock and change in local communities | Regional | HA | Individual residents Regional community | Direct loss through coastal flooding or coastal erosion Loss of roads or services Loss of value due to envisaged future | Yes | Yes | To ensure risk to properties from coastal erosion and coastal flooding is minimised |
| B1016 at Shoeburyness | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main road along sea front | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| A13 at Bournes Green | In the event of encroachment of the sea inland - undermining or loss of the road | Yes | Main road to Shoeburyness | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Railway line east of Southchurch | In the event of encroachment of the sea inland - loss of railway line | Yes | Only rail link to the wider rail network | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the rail line are maintained |
| Railway line along sea front at Southend-on-Sea | In the event of encroachment of the sea inland - loss of railway line | Yes | Only rail link to the wider rail network | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Ensure the transport benefits of the rail line are maintained |
| Leigh-on-Sea railway station | If the sea encroaches inland - loss of station facilities | Yes | Only rail link to the wider rail network and to Southend- | Local | HA | Local community | Coastal flooding, coastal erosion | Yes | Yes | Maintain benefits of the station |

| Frontage I: Canvey Island to North Shoebury | | | | | | | | | | |
|---|---|----------------|---|----------|--------------------|----------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | on-Sea | | | | | | | |
| Car park at Shoeburyness | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Car park at Hadleigh Marsh | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the car park | Yes | Amenity value | Local | R | Local community | Encroachment of the sea, coastal erosion, coastal flooding | Yes | Yes | To maintain car parking at this site |
| Benfleet and Southend Marshes SPA and SSSI | In the event of encroachment of the sea - loss of protected habitats | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | No | To maintain the site in favourable condition |
| Pitsea Marsh SSSI | Mosaic of habitats where coastal erosion/encroachment of the sea inland would lead to a loss of habitat | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Development Disturbance Natural processes Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Sea level rise Increased storm frequency and intensity | No | NO | To maintain the site in favourable condition |
| Vange and Fobbing Marshes SSSI | Coastal grassland threatened by sea level rise | Yes | Contains rare species of plant | Local | E | Local Community | Coastal squeeze Development Coastal erosion Coastal flooding Natural processes Changes in current shoreline management | Yes | Yes | To maintain the value of the site for recreational and conservation purposes |

| Frontage I: Canvey Island to North Shoebury | | | | | | | | | | |
|---|---|----------------|---|----------|--------------------|---------------------------------------|--|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | | | | | | | Encroachment of the sea | | | |
| Holehaven Creek SSSI | Principal drainage creek linked to the Thames Estuary. Contains intertidal and saltmarsh habitats | Yes | Supports rare and nationally important species of birds | National | E | Broader society | Coastal squeeze Development Coastal erosion Coastal flooding Coastal defence Natural processes Changes in current shoreline management Encroachment of the sea | No | No | To maintain the site in favourable condition |
| Canvey Wick SSSI | Contains Red Data Book species | Yes | Stringent means of maintaining conservation value of the site | National | E | Broader society | Coastal squeeze Development Coastal erosion Coastal flooding Coastal defence Natural processes Changes in current shoreline management Encroachment of the sea | No | No | To maintain the site in favourable condition |
| Inshore rescue boat stations at Southend-on-Sea | In the event of coastal erosion/encroachment of the sea inland - undermining or loss of the inshore rescue boat station | Yes | Amenity value | Regional | HA | Local community Regional Community | Encroachment of the sea, Coastal flooding, coastal erosion | Yes | Yes | To insure the rescue service is maintained |
| Thorpe Hall golf club and clubhouse | Erosion and progradation Coastal squeeze Sea level rise Increased storm frequency and intensity | Yes | Recreational value | Local | R | Regional community and local economy | Sea level rise Coastal squeeze Development Coastal erosion Coastal flooding Natural processes Changes in current shoreline management Encroachment of the sea inland Increased storm frequency and intensity | Yes | Yes | To maintain the value of the site for recreational purposes |
| Aquarium at Southend-on-Sea | In the event of coastal erosion/encroachment of the sea inland - loss | Yes | Recreational value, economic value, conservation value | Local | R/HA | Local community and tourists | Sea level rise Coastal flooding Coastal erosion | Yes | Yes | To maintain the recreational, economic and conservation |

| Frontage I: Canvey Island to North Shoebury | | | | | | | | | | |
|--|--|----------------|---------------------------------------|---------------------------|--------------------|---------------------------------|---|----------------------------------|----------------------------|--|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| | of the aquarium | | | | | | Natural processes Increased storm frequency and intensity | | | value of the feature |
| Museum at Southend-on-Sea | In the event of encroachment of the sea - loss of museum | Yes | Amenity value and economic value | Local | HA | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the site for its economic value to the local community |
| Southend pier | If the sea encroaches inland or coastal erosion - undermining and loss of the pier | Yes | Recreational value and economic value | Local | R | Local economy and tourists | Sea level rise Coastal erosion Encroachment of the sea inland | Yes | Yes | To maintain the economic and recreational values given by the pier |
| Danger area (firing range) at Shoeburyness | In the event of encroachment of the sea - loss of area for military training | Yes | Strategic military importance | National International | HA | Broader society | Sea level rise Encroachment of the sea inland Coastal flooding Changes in current shoreline management | Yes | Yes | To ensure that the ability to use this area for military training purposes is maintained |
| World War two gun emplacement | Damaged under periods of inundation | Yes | Historical importance | National | H | Local community | Coastal flooding Sea level rise Sea defence realignment | No | No | To maintain the site for its economic value to the local community |
| The Waterside Farm sports centre and Great Russel Head Farm | If the sea encroaches inland will become inundated and present health issues for school pupils | Yes | Recreational and economic value | Local | R, HA | Local community | Coastal flooding Sea level rise Sea defence realignment | Yes | Yes | To maintain the economic and recreational values |
| B1014 road | Will be at risk of flooding - primary exit route | Yes | Main exit route from ? | Local | HA | Local community | Coastal flooding Sea level rise Sea defence realignment | Yes | Yes | Ensure the transport benefits of the roads are maintained |
| Defended prehistoric settlement at Shoeburyness (scheduled monument) | In the event of coastal erosion/encroachment of the sea inland loss of the feature. | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage I: Canvey Island to North Shoebury | | | | | | | | | | |
|---|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| About 13 grade II listed buildings in Southend-on-Sea | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | National | H | National community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Shoebury garrison, Shoeburyness conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Eastern Esplanade, Southend-on-Sea conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| The Kursaal, Southend-on-Sea conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| The Leas, Southend-on-Sea conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |
| Crowstone, Southend-on-Sea conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |

| Frontage I: Canvey Island to North Shoebury | | | | | | | | | | |
|--|--|----------------|------------------------------------|----------|--------------------|---------------------------------|---|----------------------------------|----------------------------|---|
| Feature | Issues associated with feature | Affect policy? | Benefits / why is issue important? | Scale | Issue type / theme | Who are the beneficiaries? | What could affect its value / sustainability? (threats) | Is there enough of this benefit? | Potential for substitution | Objectives |
| Leigh Old Town, Leigh-on-Sea conservation area | In the event of coastal erosion/encroachment of the sea inland - loss of the feature | Yes | Historic value | Regional | H | Regional community and tourists | Sea level rise Coastal flooding Coastal erosion Natural processes Increased storm frequency and intensity | Yes | No | To maintain the historic value of the feature |