



# A Review of Effectiveness of Management Schemes for European Marine Sites – Supplementary Information

**Contract Reference:** MB0113 - A review of effectiveness of Management schemes for European Marine Sites

06 September 2012



Project Title: A review of effectiveness of management schemes for European Marine Sites

Report No Final

Project Code: MB0113

Defra Contract Manager: Carole Kelly, Marine Biodiversity R&D Programme Manager Marine Evidence and Science Unit

Funded by:

Department for Environment Food and Rural Affairs (Defra)  
Nobel House  
17 Smith Square  
London SW1P 3JR

Authors:

Roger K.A. Morris, Teresa Bennett, Rob Blyth-Skyrme, Peter J. Barham & Andrena Ball

**Disclaimer: The content of this report does not necessarily reflect the views of Defra, nor is Defra liable for the accuracy of the information provided, nor is Defra responsible for any use of the reports content**



# Table of Contents

<b>1. Background</b>	<b>1</b>
<b>2. Management schemes: their distribution and composition</b>	<b>2</b>
Factors affecting the distribution of European Marine Sites and management scheme activity	2
Composition of representation within Relevant Authority or Management Groups for Management Schemes in England	2
<b>3. Methods</b>	<b>11</b>
The study site selection process	11
Assessment criteria	13
<b>4. European Marine Site statistics</b>	<b>15</b>
Contextual statistics	15
Composition of Relevant Authorities Groups	19
<b>5. Questionnaires</b>	<b>21</b>
Questionnaire for Project Officers	21
Questionnaire for Natural England	22
Questionnaire for Relevant Authorities	24
Questionnaire for Advisory Groups	25
<b>6. Website links for Management Schemes and Regulation 35 packages</b>	<b>26</b>
Website links for Management Schemes	26
Analysis of availability of Regulation 35 (33) advice via the internet	27
<b>7. References</b>	<b>31</b>
<b>Figures</b>	
<b>Figure 1.</b> Regions used to select study sites	12
<b>Figure 2.</b> Size and socio-geographic description of sites with and without management schemes in place (derived from Table 7)	19

## Tables

<b>Table 1.</b> Established management mechanisms European Marine Sites (Special Areas of Conservation and Special Protection Areas that make up the Natura 2000 network)	8
<b>Table 2.</b> Stakeholders who contributed to the study	13
<b>Table 3.</b> Comparative table of European Marine Sites, including designations, size, socio-geographic type and identified threats.	16
<b>Table 4.</b> Number, component designations and socio-geographic descriptions of sites in the study (derived from Table 7)	19
<b>Table 5.</b> Number, component designations and socio-geographic descriptions of sites in the study (derived from Natural England European marine site Risk Review (Coyle & Wiggins, 2010))	19
<b>Table 6.</b> Composition of 'management groups' based broadly on the concept of Relevant Authority (RA) Groups	20
<b>Table 7.</b> Websites for management schemes	26
<b>Table 8.</b> Availability of Regulation 35 advice on the internet	27



# 1. Background information

- 1.1 The research underpinning this study was conducted in January and February 2012. It was a combination of web-based data searches and structured interviews with a range of stakeholders.
- 1.2 The research generated a substantial volume of information. It has been assembled in this supplementary report in order to allow the headline messages to be presented unencumbered by the underpinning data.
- 1.3 Individual responses by stakeholders have not been listed because interviews were conducted on a non-attributable basis.

## 2. Management schemes: their distribution and composition

### Factors affecting the distribution of European Marine Sites and management scheme activity

- 2.1 The English coastline is extremely variable, ranging from rocky high energy environments in southern and south-west England to muddy and sandy shallow seas along much of the east coast and to largely shallow sandy waters in north-west England. These morphological variations have influenced both socio-economic and biological characteristics that determine the performance of a common management system for European Marine Sites.
- 2.2 Socio-economic drivers can have a strong bearing on the ability of Relevant Authorities to fund management initiatives or to commit time to a particular issue. The proportions of people gaining their living from, or participating in, activities associated with a particular feature of a European Marine Site can also vary, and this in turn may elevate issues to political levels that might not be significant elsewhere. There are numerous permutations. For example, important regional differences include relatively small and poor communities in the more remote areas of England compared to the major conurbations along the south coast and in the vicinity of major ports.
- 2.3 Population density will determine financial resources available to manage European Marine Sites. Before this study commenced, evidence from English Nature's Estuaries Initiative (Morris, 2008) showed that sites could be categorised according to population pressures and that these might have a bearing upon local capacity to fund management initiatives.

## Composition of representation within Relevant Authority or Management Groups for Management Schemes in England<sup>1</sup>

**Note.** This information was secured from Management Scheme documents, many of which are outdated. Where known, changes in names have been recognised and inserted but these lists should be regarded as illustrative rather than entirely exhaustive.

### Berwickshire & North Northumberland Coast

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Northumberland County Council Scottish Borders Council	Berwick Harbour Commissioners Burnmouth Harbour Master Eyemouth Harbour Trust North Sunderland Harbour Commissioners Northern Lighthouse Board St Abbs Harbour Trust River Tweed Commissioners Trinity House
<b>Government bodies</b>	<b>Water Companies</b>
Environment Agency English Heritage Marine Management Organisation Marine Scotland Maritime and Coastguard Agency Natural England Northumberland Sea Fisheries Committee Scottish Environmental Protection Agency Scottish Government Scottish Natural Heritage	Northumbrian Water Ltd Scottish Water
<b>Inshore Fisheries &amp; Conservation Authorities</b>	<b>Others (not Relevant Authorities)</b>
The Southern IFCA	National Trust National Trust for Scotland St Abbs and Eyemouth Voluntary Marine Reserve

### Chesil & The Fleet

<b>Local Authorities</b>	<b>Inshore Fisheries &amp; Conservation Authorities</b>
Dorset County Council West Dorset District Council Weymouth & Portland Borough Council	The Southern IFCA
<b>Government bodies</b>	<b>Water Companies</b>
The Environment Agency Natural England Ministry of Defence (Wyke Regis Training Area)	Wessex Water
<b>Ports, Harbours &amp; Navigation Authorities</b>	<b>Others (not Relevant Authorities)</b>
Portland Harbour Authority	The Ilchester Estates

### Essex Estuaries

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Chelmsford Borough Council Colchester Borough Council Essex County Council Maldon District Council Rochford District Council Southend on Sea Borough Council Tendring District Council	Brightlingsea Harbour Commissioners Crouch Harbour Authority Maldon Harbour Improvement Commissioners Port of London Authority
<b>Government bodies</b>	<b>Inshore Fisheries &amp; Conservation Authorities</b>
English Nature Environment Agency Ministry of Defence	Kent and Essex IFCA

<sup>1</sup> Based on available documentation which is of very variable age. Some names revised where necessary.



## Fal & Helford

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Cornwall Council	Port of Truro and Penryn St. Mawes Pier & Harbour Co. Falmouth Docks & Engineering Co Falmouth Harbour Commissioners Port Health Authority
<b>Government bodies</b>	
Environment Agency Natural England Marine Management Organisation	
<b>Inshore Fisheries &amp; Conservation Authorities</b>	<b>Water Companies</b>
Cornwall IFCA	South West Water

## Flamborough Head

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
East Riding of Yorkshire Council North Yorkshire County Council Scarborough Borough Council	Bridlington Harbour Commissioners Flamborough and North Landing Harbour Commissioners Trinity House Lighthouse Service
<b>Government bodies</b>	<b>Water Companies</b>
Environment Agency Natural England	Yorkshire Water
<b>Inshore Fisheries &amp; Conservation Authorities</b>	
North Eastern IFCA	

## Humber Estuary

<b>Local Authorities</b>	<b>Internal Drainage Boards</b>
East Lindsey District Council East Riding of Yorkshire Council Hull City Council Lincolnshire County Council North East Lincolnshire Council North Lincolnshire Council	Managed by Lindsey Marsh Drainage Board Lindsey Marsh Drainage Board Isle of Axholme and North Nottinghamshire Water Level Management Board Managed by Shire Group of IDBs Ancholme IDB Goole Fields IDB Gainsborough and Scunthorpe Water Management Board Reedness and Swinefleet DB To amalgamate to Ouse and Humber Drainage Board from April 2012 Lower Ouse Internal Drainage Board Market Weighton Drainage Board Managed by Frank Hill and Sons Ottringham IDB Preston IDB Skeffling IDB Thorgumbald IDB North East Lindsey Drainage Board Managed by Lower Aire and Don Consortia of Internal Drainage Boards Dempster Goole and Airmyn
<b>Government bodies</b>	
Environment Agency Marine Management Organisation Ministry of Defence Natural England	
<b>Inshore Fisheries &amp; Conservation Authorities</b>	
Eastern IFCA North Eastern IFCA	
<b>Ports, Harbours &amp; Navigation Authorities</b>	
Associated British Ports Associated Petroleum Terminals British Waterways Conoco Phillips Humber Sea Terminal	
<b>Water Companies</b>	
Anglian Water Yorkshire Water	

## Morecambe Bay

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Barrow Borough Council Cumbria County Council Lake District National Park Authority Lancashire County Council	Associated British Ports Heysham Port Authority
	<b>Inshore Fisheries &amp; Conservation</b>

Lancaster City Council South Lakeland District Council Wyre Borough Council	<b>Authorities</b> North Western IFCA
	<b>Water Companies</b> United Utilities (formerly North West Water)
<b>Government bodies</b>	<b>Others</b>
Environment Agency Natural England	Morecambe Bay Partnership

### Tamar Estuaries Consultative Forum

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Caradon District Council Cornwall County Council Plymouth City Council South Hams District Council West Devon Borough Council Devon County Council	Associated British Ports Cattewater Harbour Commissioners Queens Harbour Master Sutton Harbour Company
	<b>Water Companies</b> South West Water
<b>Government bodies</b>	<b>Others (not Relevant Authorities)</b>
Environment Agency Natural England Defra	South Devon AONB Tamar Valley AONB

### Severn Estuary

<b>Local Authorities</b>	
Bristol City Council Cardiff Council Forest of Dean District Council Gloucestershire County Council Monmouthshire County Council North Somerset Council Sedgemoor District Council Newport City Council Somerset County Council South Gloucestershire Council Stroud District Council Vale of Glamorgan Council	<b>Internal Drainage Boards</b> Caldicot & Wentlooge Internal Drainage Board Lower Axe Internal Drainage Board Lower Brue Internal Drainage Board Lower Severn Internal Drainage Board Stockland District Drainage Board West Mendip Internal Drainage Board
<b>Government bodies</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Countryside Council for Wales Environment Agency Natural England	Associated British Ports Bridgwater Port Authority British Waterways, Sharpness Cardiff Harbour Authority Gloucester Harbour Trustees Newport Harbour Commissioners The Bristol Port Company Trinity House Lighthouse Service
<b>Past members not currently contributing</b>	<b>Inshore Fisheries &amp; Conservation Authorities</b>
North Somerset Internal Drainage Board Cannington & Wembdon District Drainage Board West Somerset District Council	South Wales Sea Fisheries Committee
<b>Non-contributing relevant authorities that have provided input to the management scheme</b>	<b>Water Companies</b> Dwr Cymru Welsh Water Severn Trent Water Wessex Water
Bridgwater & Pawlett District Drainage Board Gordano Valley Internal Drainage Board	<b>Non-contributing relevant authorities</b> Bristol Water

### Solent Maritime

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Chichester District Council Eastleigh Borough Council Fareham Borough Council Gosport Borough Council	Associated British Ports Beaulieu River Management Bembridge Harbour Improvements Co. Chichester Harbour Conservancy

Hampshire County Council Havant Borough Council Isle of Wight Council New Forest District Council Portsmouth City Council Southampton City Council Test Valley Borough Council West Sussex County Council Winchester City Council	Cowes Harbour Commissioners Dockyard Port of Portsmouth (QHM) River Hamble Harbour Authority (HCC) Langstone Harbour Board Lymington Harbour Commissioners Newport Harbour Authority Portsmouth Commercial Port Wightlink Yarmouth Harbour Commissioners Trinity House
<b>Government bodies</b>	<b>Inshore Fisheries &amp; Conservation Authorities</b>
Environment Agency Natural England	Southern IFCA
	<b>Water Companies</b>
	Southern Water

### Solway Firth

<b>Local Authorities</b>	<b>Sea Fisheries Committees</b>
Allerdale Borough Council Carlisle City Council Cumbria County Council Dumfries and Galloway Council	District Salmon Fisheries Boards (Annan and Nith) North Western IFCA Scottish Fisheries Protection Agency
<b>Government bodies</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Environment Agency Natural England Scottish Environment Protection Agency Scottish Natural Heritage	Associated British Ports
	<b>Water Companies</b>
	North West Water West of Scotland Water Authority

### South Wight

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Isle of Wight Council	Ventnor Haven (Isle of Wight Council) Dockyard Port of Portsmouth (QHM) Trinity House
<b>Government bodies</b>	
Environment Agency Natural England	
<b>Inshore Fisheries &amp; Conservation Authorities</b>	<b>Water Companies</b>
Southern IFCA	Southern Water

### Stour & Orwell Estuaries

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Babergh District Council Essex County Council Ipswich Borough Council Suffolk Coastal District Council Suffolk County Council Tendring District Council	Associated British Ports Harwich Haven Authority The Port of Felixstowe
	<b>Water Companies</b>
	Anglian Water
	<b>Others (not RAs)</b>
<b>Government bodies</b> The Crown Estate Environment Agency Natural England	Essex Wildlife Trust Royal Society for the Protection of Birds Royal Yachting Association (Eastern Region) Suffolk Coast and Heaths AONB Unit Suffolk Wildlife Trust
<b>Inshore Fisheries &amp; Conservation Authorities</b>	
Eastern IFCA Kent and Essex IFCA	

## Teesmouth & Cleveland Coast

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Durham County Council Hartlepool Borough Council Middlesbrough Borough Council Redcar and Cleveland Borough Council Stockton-on-Tees Borough Council	British Waterways PD Ports
<b>Government bodies</b>	<b>Water Companies</b>
Defra Environment Agency English Heritage Government Office for the North East Natural England	Northumbrian Water
	<b>Others (not RAs?)</b>
	Tees Valley Joint Strategy Unit

## North-East Kent

<b>Local Authorities</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Canterbury City Council Dover District Council Kent County Council Thanet District Council Thanet District Council Harbour Authority	Sandwich Port & Haven Commissioners
	<b>Inshore Fisheries &amp; Conservation Authorities</b>
	Kent & Essex IFCA
	<b>Water Companies</b>
	Southern Water Services
<b>Government bodies</b>	
Environment Agency Natural England	

## The Wash & North Norfolk Coast

<b>Local Authorities</b>	<b>Internal Drainage Boards</b>
Borough Council of King's Lynn & West Norfolk Boston Borough Council East Lindsey District Council Fenland District Council Lincolnshire County Council Norfolk County Council North Norfolk District Council South Holland District Council	Black Sluice Internal Drainage Board King's Lynn Consortium of Internal Drainage Boards Lyndsey Marsh Drainage Board South Holland Internal Drainage Board Welland & Deepings Internal Drainage Board Witham Fourth District Internal Drainage Board
<b>Government bodies</b>	<b>Ports, Harbours &amp; Navigation Authorities</b>
Environment Agency Natural England Ministry of Defence	King's Lynn Conservancy Board Port of Boston Wells Harbour Commissioners
<b>Inshore Fisheries &amp; Conservation Authorities</b>	
Eastern IFCA	

**Table 1.** Established management mechanisms European Marine Sites (Special Areas of Conservation and Special Protection Areas that make up the Natura 2000 network)

		Site name	SPA	SAC	Management Scheme?
1	1	Alde, Ore and Butley Estuaries		Yes	No
	2	Alde–Ore Estuary	Yes		
	3	Orfordness – Shingle Street		Yes	Managed through SSSI mechanisms
2	4	Benacre to Easton Bavents	Yes		Managed through SSSI mechanisms
3	5	Benfleet and Southend Marshes	Yes		No
4	6	Berwickshire and North Northumberland Coast		Yes	Management Scheme joined with AONB Plan
	7	Lindisfarne (part)	Yes		
5	8	Braunton Burrows		Yes	Managed through SSSI mechanisms
6	9	Breydon Water	Yes		No
7	10	Chesil and the Fleet		Yes	Consultation draft document
	11	Chesil Beach and The Fleet	Yes		
8	12	Coquet Island	Yes		Managed through SSSI mechanisms
9	13	Deben Estuary	Yes		No
10	14	Dee Estuary		Yes	No
	15	Dee Estuary	yes		
11	16	Drigg Coast		Yes	No
12	17	Duddon Estuary	Yes		Consultation draft document
13	18	Dungeness		Yes	No
	19	Dungeness to Pett Level	Yes		No
14	20	Essex Estuaries		Yes	Management Scheme document
	21	Blackwater Estuary (Mid-Essex Coast Phase 4)	Yes		
	22	Colne Estuary (Mid-Essex Coast Phase 2)	Yes		
	23	Crouch and Roach Estuaries (Mid-Essex Coast Phase 3)	Yes		
	24	Dengie (Mid-Essex Coast Phase 1)	Yes		
	25	Foulness (Mid-Essex Coast Phase 5)	Yes		
15	26	Exe Estuary	Yes		Consultation draft document
16	27	Fal and Helford		Yes	Management Scheme
17	28	Flamborough Head		Yes	Management Scheme
18	29	Great Yarmouth & North Denes	Yes		No
19	30	Haisborough, Hammond and Winterton		Yes	No
20	31	Hamford Water	Yes		No
21	32	Humber Estuary	Yes		Management Scheme

		Site name	SPA	SAC	Management Scheme?
	33	Humber Estuary		Yes	
22	34	Inner Dowsing, Race Bank and North Ridge		Yes	No
23	35	Isle of Portland to Studland Cliffs		Yes	Managed through SSSI mechanisms
24	36	Isles of Scilly Complex		Yes	Management Scheme
25	37	Lands End and Cape Bank		Yes	No
26	38	Liverpool Bay / Bae Lerpwl	Yes		No
27	39	Lizard Point		Yes	No
28	40	Lundy		Yes	Consultation draft document
29	41	Lyme Bay and Torbay		Yes	No
30	42	Margate and Long Sands		Yes	No
31	43	Medway Estuary and Marshes	Yes		No
	44	The Swale	Yes		No
32	45	Mersey Estuary	Yes		No
33	46	Minsmere to Walberswick Heaths and Marshes		Yes	No
	47	Minsmere–Walberswick	Yes		No
34	48	Morecambe Bay		Yes	Management Scheme via Morecambe Bay Partnership
	49	Morecambe Bay	Yes		
35	50	North Norfolk Coast		Yes	Managed through SSSI mechanisms
36	51	Northumbria Coast	Yes		Covered by Berwicks & Northumberland Coast
37	52	Lindisfarne	Yes		Part covered by Berwicks & Northumberland Coast
38	53	Outer Thames Estuary	Yes		No
39	54	Pagham Harbour	Yes		Managed via LNR Management plan
40	55	Plymouth Sound and Estuaries		Yes	Via Tamar Estuaries Consultative Forum
	56	Tamar Estuaries Complex	Yes		
41	57	Poole Harbour	Yes		via Poole Harbour Aquatic Management Plan
42	58	Ribble and Alt Estuaries	Yes		No
43	59	Severn Estuary	Yes		Management Scheme
	60	Severn Estuary/ Môr Hafren		Yes	In preparation.
44	61	Shell Flat and Lune Deep		Yes	No
45	62	Sidmouth to West Bay		Yes	Managed through SSSI mechanisms
46	63	Solent and Isle of Wight Lagoons		Yes	Managed through SSSI mechanisms
47	64	Solent Maritime		Yes	Management scheme but difficult to find underpinning documentation
	65	Chichester and Langstone Harbours	Yes		
	66	Portsmouth Harbour	Yes		
	67	Solent and Southampton Water	Yes		

		<b>Site name</b>	<b>SPA</b>	<b>SAC</b>	<b>Management Scheme?</b>
48	68	Solway Firth		Yes	Management Scheme via Solway Firth Partnership
	69	Upper Solway Flats and Marshes	Yes		
49	70	South Wight Maritime		Yes	Management Scheme
50	71	Start Point to Plymouth Sound and Eddystone		Yes	No
51	72	Stour and Orwell Estuaries	Yes		Management Scheme
52	73	Teesmouth and Cleveland Coast	Yes		Management Scheme
53	74	Thames Estuary and Marshes	Yes		No
54	75	Thanet Coast		Yes	Management Scheme
		Sandwich Bay		Yes	
	76	Thanet Coast and Sandwich Bay	Yes		
55	77	The Wash and North Norfolk Coast		Yes	Management Scheme
	78	The Wash	Yes		
	79	North Norfolk Coast	Yes		
	80	Gibraltar Point	Yes		
56	81	Tweed Estuary		Yes	No

## 3. Methods

### The study site selection process

- 3.1 Given the evidence of regional variation in capacity to fund management schemes gathered during earlier reviews of Estuary Partnerships, this study sought to address a broad geographical spread that encompassed a full range of biological and socio-economic attributes as well as both Special Protection Areas (SPAs) and Special Areas of Conservation (SACs) designations. In many instances the two types of sites overlap (Table 1) and so in a high proportion of cases the choice of site will encompass more European Marine Sites than simple numerical lists would imply.

#### **Stage 1** – selection according to geographic region

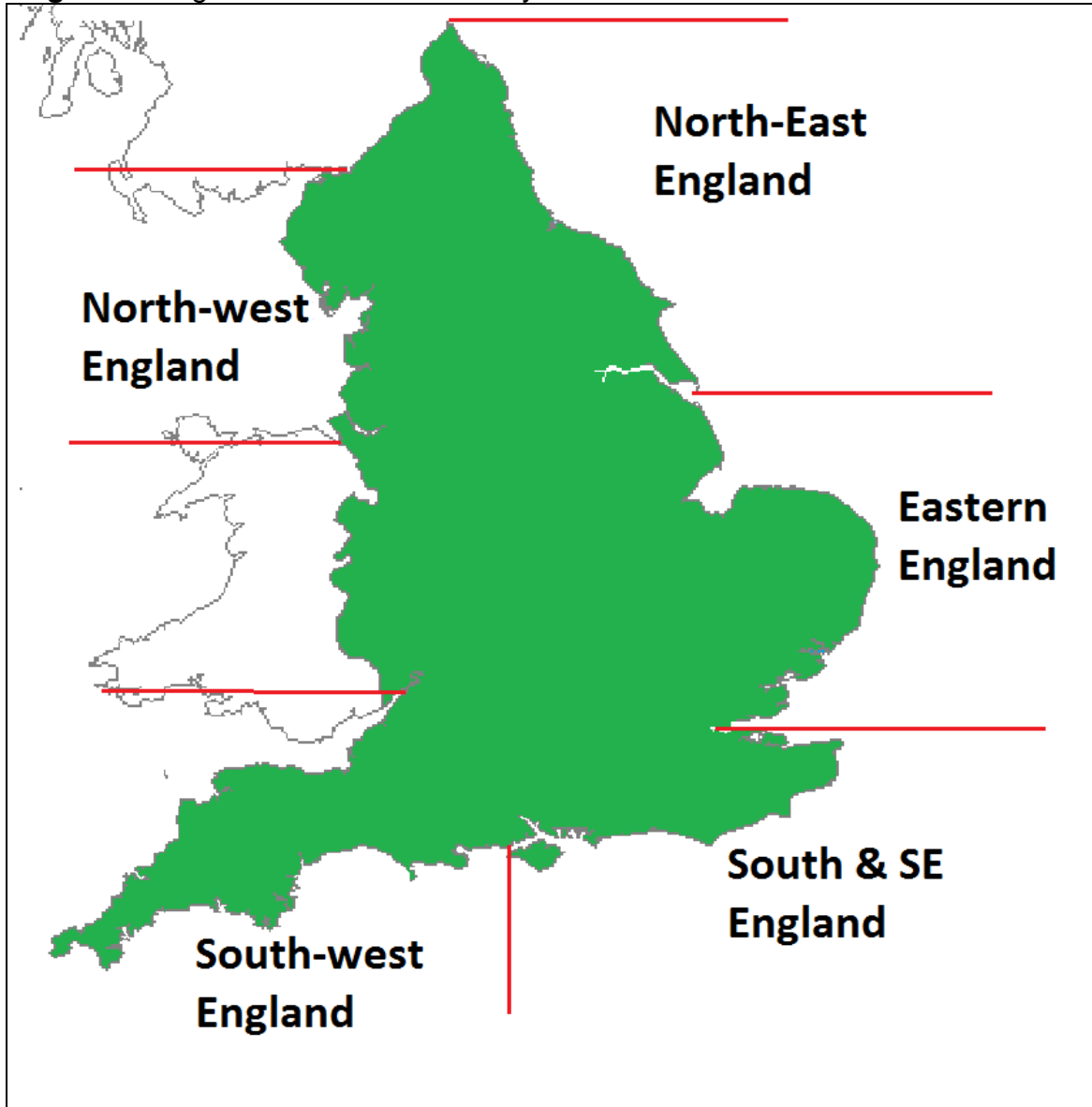
- 3.2 Five regions (Figure 1 – Map) were defined drawing upon a combination of sediment cells as defined by Motyka and Brampton (1993), and the four MCZ projects: Irish Sea Conservation Zones; Finding Sanctuary; Net Gain; and Balanced Seas. Five rather than four regions were chosen in an attempt to better reflect geographic variations in biology that accompany differences in coastal morphology. These were:
- i. North-west England (Cumbria to Cheshire);
  - ii. North-east England (Northumberland to the East Riding of Yorkshire);
  - iii. Eastern England (Lincolnshire to Essex);
  - iv. South and South-East England (Kent to Hampshire);
  - v. South-west England (Dorset to Gloucestershire).

#### **Stage 2** – selection according to habitat types

- 3.3 Two or more site complexes were selected from those available, focussing on the habitats that were best represented in the region and a prior knowledge of locations where useful lessons might be drawn from issues encountered. Larger combined units were favoured because they often embraced a series of SPAs and SACs and had been treated as a single site in the context of Regulation 36 of the 2010 Regulations) (Regulation 34 of the 1994 Regulations) when defining boundaries for a ‘management scheme’.
- 3.4 Geographical variation meant that not all habitats could be reflected in each region. Initial choices were made on the basis of the sites that would also provide the greatest opportunity for analysis. It was also felt necessary to ensure that cross-border sites were evaluated and therefore all four possible sites were first considered: the Solway Firth, Berwickshire and Northumberland Coast, the Dee Estuary and the Severn Estuary.



**Figure 1.** Regions used to select study sites



**Stage 3** – creation of a shortlist of possible study sites

- 3.5 A comparative table was drawn up to ensure that the choice of sites would lead to comprehensive coverage of Annex 1 habitats and Annex 2 species listed in the Habitats Directive (1992) occurring within English coastal waters. As a consequence of this analysis a total of thirteen site complexes emerged as possible study sites.

**Stage 4** – final study site selection

- 3.6 The relative merits of each site were judged according to the attributes they offered and any other known factors that might militate in favour of a particular choice. One cross-border site, the Dee Estuary was rejected because all of its features were represented in the other two north western sites (Solway and Morecambe Bay), which were also bigger. The Humber Estuary was rejected

because its features were largely reflected in The Wash and a bigger grey seal population occurs on the Berwickshire coast. Finally, Plymouth Sound and Estuaries was discounted in favour of the Severn Estuary because the latter is a cross-border site that supports a wide variety of commercial interests and consequently offers experience similar to the Humber (which had been discounted).

- 3.7 Contributing respondents are tabulated (Table 3). All comments offered by stakeholders have been treated as non-attributable in order to make sure that information gathered identified any issues that were relevant to the analysis.

**Table 2.** Stakeholders who contributed to the study

Sector	Site	
<b>Project Officers</b>	Stour & Orwell Morecambe Bay Berwickshire Coast North East Kent Plymouth Sound & Estuaries	Humber Estuary Solent Forum Wash & N. Norfolk Solway Firth
<b>Environment Agency</b>	Berwickshire Coast Fal & Helford	Humber Estuary Wash & N. Norfolk
<b>IFCAs</b>	Cornwall IFCA NW IFCA NE IFCA	Eastern IFCA Kent & Essex IFCA
<b>Local Authorities</b>	Northumbria CC Norfolk CC Gloucestershire CC Southampton CC Plymouth CC	North Somerset DC E. Riding Yorks C. N. Lincs Council Devon CC
<b>Natural England</b>	Plymouth Sound & Estuaries North East Kent Wash & N. Norfolk Humber Estuary Morecambe Bay Flamborough Head	Severn Estuary Fal & Helford (Teesmouth) Solway Firth Berwickshire Coast Solent Maritime
<b>Ports &amp; Harbours</b>	Bristol Port Company Falmouth Harbour Commissioners	Hamble (Hampshire CC) Queens Harbour Master, Plymouth
Responses at a national level without a focus on individual management schemes		
<b>Marine Management Organisation</b>		
<b>Wider Stakeholders</b>	BASC Miles Hoskins* NEKSAG	NUFTA RSPB King's Lynn Conservancy Board
<b>Wildlife NGOs</b>	Marine Conservation Society. RSPB	The Wildlife Trusts

\* Offered unsolicited views.

## Assessment criteria

- 3.8 During the planning for data collection a series of assessment criteria were developed and agreed with MB0113 Project Steering Group. These criteria were used to develop the data acquisition process and the questions posed to the different stakeholder groups. The criteria focussed on five issues:

- i. **Nature conservation objectives**
  - a. Is the conservation status of the sites known?
  - b. What were the issues at the sites?
  - c. Have issues been resolved using the management scheme approach?
- ii. **Governance**
  - a. Is Regulation 35 guidance available?
  - b. Is there a project manager? If not, what governance is in place?
  - c. Is management scheme documentation available?
  - d. Was there Provision of secretariat?
  - e. Is there any relationship with other projects?
  - f. What is the composition of Relevant Authorities and Advisory Groups?
  - g. How frequently do they meet and who provides leadership?
  - h. To what degree have stakeholders become engaged?
  - i. What actions have been undertaken to deliver the scheme's objectives which were highlighted as important considerations?
- iii. **Finance**
  - a. What are the costs involved in developing and running management schemes?
  - b. Which organisations are involved in funding (who contributes what)?
- iv. **Cost-effectiveness**
  - a. What is the level of effort required of stakeholders?
  - b. Does the work deliver tangible results?
- v. **Can these be measured?**
  - a. What lessons have been learnt to date?
  - b. What might be done differently if starting afresh?

3.9 The criteria were broken into a series of sub-questions that were designed to inform the development of questions to pose to stakeholders. Ideally, these questions would have led to simple answers that could have been used to assess success. These questions were of limited help from a statistical perspective as many responses were subjective and took the form of more detailed verbal responses that could not be strictly brigaded into uniform answers. This is the same as previous reviews where similar approaches (e.g. Estuary Partnerships) revealed a similar pattern with soft (qualitative) rather than hard (quantitative) indicators of success. Whilst such data are difficult to present in a manner that gives firm answers, they do reflect the values and opinions of the stakeholders and as such are important when considering the effectiveness and value of management schemes.

## 4. European Marine Site statistics

### Contextual statistics

- 4.1 In order to put this study into context, it is necessary to establish some basic information about the chosen study sites and also those that were not studied in detail, but whose details help to inform the overall analysis. Table 7 (pages 26-28) provides this background information and has been organised in two blocks: sites that have been provided with at least a putative management scheme, and those with no scheme.
- 4.2 The information from Table 4 was then collated into a set of summary statistics, as presented in Table 5 and Figure 2. Further information from the Natural England European Marine Site risk review on the activities that are considered to place site conservation features at risk was also collated and presented in Table 6.
- 4.3 A number of observations can be made after examining the data:
  - i. As might be expected (if an assumption is made that the complexity of site management increase as sites increase in size), management schemes are relatively more common at larger sites than at medium-sized sites, while no small (<1000 Ha) sites have management schemes in place (Figure 2).
  - ii. Management schemes appear to be slightly more prevalent at sites that are industrial or light industrial in nature, while the absence of a management scheme appears to be slightly more prevalent at sites that have a leisure or rural nature (Figure 2). Any differences are minor, however.
  - iii. The sites with management schemes have a higher number of ongoing activities identified (mean 2.9 per site) than the sites without management schemes (mean 0.4 per site).
  - iv. The sites with management schemes all have risks identified, whereas only approximately half the sites (54%) without management schemes have risks identified.
  - v. Seven (35%) of the sites with management schemes have high risks associated with them, while six (30%) of the sites without management schemes have high risks.
  - vi. Of the 13 sites at which high risk activities have been identified, 11 of these are related to SPA features, and just two are related to SAC features.

**Table 3.** Comparative table of European Marine Sites, including designations, size, socio-geographic type and identified threats. Sites with schemes are shaded light grey, sites without schemes are unshaded.

Site	Area Ha.	Size	Designations	Type*	MS**	NE Risk Review - activities	NE Risk Review- High Risk
The Wash and North Norfolk Coast	107761.3	Large	2SAC, 3SPA	Rural	Yes	Pollution Commercial fishing Coastal management Water abstraction	SPA bird impacts from cockle fishery (not that managed by EIFCA)
Severn Estuary	73715.4	Large	1 SAC, 1SPA	Light Industrial	Yes	Coastal management	
Berwickshire and North Northumberland Coast	65045.5	Large	1SAC, 1SPA	Rural	Yes	Pollution Commercial fishing	
Morecambe Bay	61506.22	Large	1SAC, 1SPA	Leisure	Yes	Recreation Development	
Essex Estuaries	46140.82	Large	1SAC, 5SPA	Leisure	Yes	Coastal management	
Solway Firth	43636.72	Large	1SAC, 1SPA	Rural	Yes	Recreation	
Humber Estuary	36657.15	Large	1SAC, 1SPA	Industrial	Yes	Pollution/other Coastal management Recreation Fishing Water abstraction Inappropriate land use Inappropriate management	Bycatch of river lamprey in eel fishing nets
South Wight Maritime	19862.7	Large	1SAC	Leisure	Yes	Pollution Commercial fishing Alien species	
Solent Maritime	11325.09	Large	1SAC, 3SPA	Industrial	Yes	Maintenance dredging Capital dredging Shipping Bait digging Recreation Pollution Coastal management Commercial fishing Alien species	Bait digging, clam fishing and recreational activity impacts on SPA birds

Site	Area Ha.	Size	Designations	Type*	MS**	NE Risk Review - activities	NE Risk Review- High Risk
Duddon Estuary	6806.3	Medium	1SPA	Rural	Yes	Recreation Unknown disturbance	
Plymouth Sound and Estuaries	6402.03	Medium	1SAC, 1SPA	Light Industrial	Yes	Coastal management Pollution Recreation Capital dredging Maintenance dredging Noise Alien species	
Fal and Helford	6387.8	Medium	1SAC	Leisure	Yes	Commercial fisheries Shipping Recreation Pollution	
Flamborough Head	6311.96	Medium	1SAC	Rural	Yes	Commercial fishing Dredging	Bycatch of SPA birds in salmonid fishing nets
Stour and Orwell Estuaries	3676.92	Medium	1SPA	Light Industrial	Yes	Unknown/cumulative	
Lundy	3064.53	Medium	1SAC	Rural	Yes	Commercial fishing Unknown decline in species	
North East Kent	2803.84	Medium	2SAC, 1SPA	Leisure	Yes	Spread of alien species	
Exe Estuary	2345.71	Medium	1SPA	Leisure	Yes	Commercial fishing Coastal Management Pollution	Disturbance of SPA birds through recreation
Poole Harbour	2271.99	Medium	1SPA	Leisure	Yes	Commercial fishing Pollution Bait digging	Bait digging and illegal fishing activity impacts on SPA birds
Chesil and the Fleet	1631.63	Medium	1SAC, 1SPA	Light Industrial	Yes	Pollution Commercial fishing	
Teesmouth and Cleveland Coast	1247.31	Medium	1SPA	Industrial	Yes	Pollution	Disturbance of SPA birds through recreation
Isles of Scilly Complex	26850.95	Large	1SAC	Leisure	No	Commercial fishing Pollution	Habitat impacts from scallop dredging. Seals at risk from shooting
Dee Estuary/ Aber Dyfrdwy	15805.89	Large	1SAC, 1SPA	Light Industrial	No	Commercial fishing	
Ribble and Alt Estuaries	12412.31	Large	1SPA	Leisure	No	Aggregate extraction	

Site	Area Ha.	Size	Designations	Type*	MS**	NE Risk Review - activities	NE Risk Review- High Risk
Medway & Swale	11199.07	Large	2SPA	Light Industrial	No	Unknown disturbance	
Mersey Estuary	5023.35	Medium	1SPA	Industrial	No		
Thames Estuary and Marshes	4838.94	Medium	1SPA	Industrial	No	Coastal management	
Dungeness	3223.56	Medium	1SAC, 1SPA	Leisure	No	Coastal management Water abstraction Recreation	
North Norfolk Coast	3207.37	Medium	1SAC	Leisure	No		
Alde, Ore and Butley	2416.87	Medium	2SAC, 1SPA	Rural	No	Coastal management	Disturbance of SPA birds through recreation
Benfleet and Southend Marshes	2251.31	Medium	1SPA	Light Industrial	No	Coastal management	
Hamford Water	2187.21	Medium	1SPA	Leisure	No	Coastal management	
Isle of Portland to Studland Cliffs	1447.5	Medium	1SAC	Rural	No		
Drigg Coast:	1397.44	Medium	1SAC	Rural	No		
Braunton Burrows	1346.64	Medium	1SAC	Leisure	No		
Minsmere-Walberswick Heaths and Marshes	1265.52	Medium	1SAC, 1SPA	Rural	No	Coastal management	Disturbance of SPA birds through recreation
Breydon Water	1202.94	Medium	1SPA	Leisure	No	Recreation/industry Diffuse pollution	
Northumbria Coast	1107.98	Medium	1SPA	Rural	No		
Deben estuary	978.93	Small	1SPA	Leisure	No	Coastal management	Disturbance of SPA birds through recreation
Sidmouth to West Bay	897.3	Small	1SAC	Leisure	No		
Pagham Harbour	636.68	Small	1SPA	Rural	No	Recreation	Disturbance of SPA birds through recreation
Benacre to Easton Barents	516.83	Small	1SPA	Leisure	No		Disturbance of SPA birds through recreation
Great Yarmouth and North Denes:	149.19	Small	1SPA	Leisure	No		
Solent and Isle of Wight Lagoons	36.24	Small	1SAC	Rural	No		
Coquet Island	22.28	Small	1SPA	Rural	No		

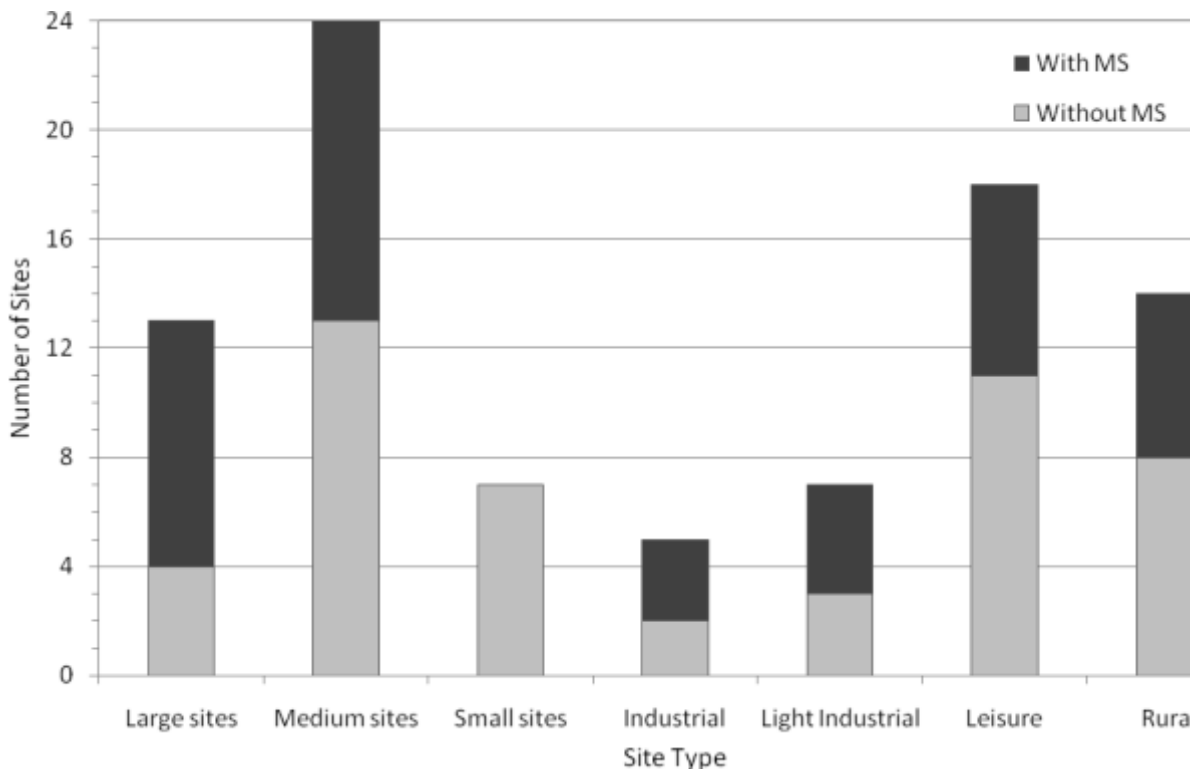
\* after Morris (2008)

\*\* Presence of a management scheme?

**Table 4.** Number, component designations and socio-geographic descriptions of sites in the study (derived from Table 7)

Sites	Total sites	SPAs	SACs	Joined sites*	Industrial	Light Industrial	Leisure	Rural
With MS	20	24	17	11 (55%)	3 (15%)	4 (20)	7 (35%)	6 (30%)
Without MS	24	18	13	4 (17%)	2 (8%)	3 (13%)	11 (46%)	8 (33%)

\* Sites where the European Marine Site comprises a combination of overlapping or conjoined SPA and SAC.



**Figure 2.** Size and socio-geographic description of sites with and without management schemes in place (derived from Table 7)

**Table 5.** Number, component designations and socio-geographic descriptions of sites in the study (derived from Natural England European Marine Site Risk Review (Coyle & Wiggins, 2010))

Sites	Total sites	Number of sites with risks	Number of risks	Ongoing activities	Plans or Projects	Number of sites with no risks	Number of sites with high risks
With MS	20	20	58	45	13	0	7
Without MS	24	13	17	10	7	11	6

## Composition of Relevant Authorities Groups

4.4 There is considerable variation in the composition of Relevant Authority Groups (Table 10). Three broad groupings dominate: Navigation and Harbour Authorities (including, occasionally, Trinity House), Local Authorities (District, Metropolitan or



County Councils) and Government Departments and Agencies (Natural England, Environment Agency, Marine Management Organisation, Countryside Council for Wales, Scottish Natural Heritage, Scottish Environmental Protection Agency and others). The IFCAs and water companies are usually but not always represented. In certain low-lying areas such as the Humber, The Wash and the Severn Estuary, Internal Drainage Boards are also present and their numbers reflect the highly fragmented nature of their historic brigading.

**Table 6.** Composition of ‘management groups’ based broadly on the concept of Relevant Authority (RA) Groups. (Study sites in bold text and highlighted)

Site	No of RAS	Navigation Authorities	Govt. & Agencies	Local Auth.s	IFCAs	IDBs	Water Co's	Other (non stat)
<b>Berwickshire &amp; N. Northumberland Coast</b>	<b>26</b>	<b>8</b>	<b>9</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>4</b>
Chesil & The Fleet	10	1	3	3	1	0	1	1
Essex Estuaries	15	4	3	7	1	0	0	0
Exe Estuary		Managed via Exe Estuary Partnership?						
<b>Fal &amp; Helford</b>	<b>11</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>Flamborough</b>	<b>10</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>Humber Estuary</b>	<b>32</b>	<b>5</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>15(6)</b>	<b>0</b>	<b>0</b>
<b>Morecambe Bay</b>	<b>15</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>
Pagham Harbour		Set up around LNR management – lead W Sussex CC						
<b>Plymouth Sound &amp; Estuaries</b>	<b>16</b>	<b>4</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>
Poole Harbour		Under Poole Harbour Aquatic Management Plan (Poole Harbour Commissioners)						
<b>Severn</b>	<b>33</b>	<b>8</b>	<b>3</b>	<b>12</b>	<b>1</b>	<b>6</b>	<b>3</b>	<b>0</b>
<b>Solent Maritime</b>	<b>31</b>	<b>14</b>	<b>2</b>	<b>13</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>Solway Firth</b>	<b>15</b>	<b>1</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>
South Wight	8	3	2	1	1	0	1	0
<b>Stour &amp; Orwell</b>	<b>19</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>5</b>
Teesmouth	14	2	5	5	0	0	1	1
<b>North East Kent</b>	<b>10</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>The Wash &amp; North Norfolk</b>	<b>20</b>	<b>3</b>	<b>3</b>	<b>8</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>0</b>

4.5 Several Relevant Authorities groups appear to have evolved or merged into a broader management structure that includes additional interest groups such as AONB (Area of Outstanding Natural Beauty) representatives and occasionally NGO (Non-Governmental Organisation) representatives. There is no obvious pattern to the approach although it might be speculated that more inclusive composition reflects attempts to improve inclusivity or to reduce the bureaucracy needed to facilitate links between Relevant Authority and Advisory Groups.

## 5. Questionnaires

5.1 As described in the methods section (above), different questions around similar themes were posed to the various groups of participants in management schemes.

**Note:** this questionnaire was used simply as a template for dialogue. In the case of the RSPB more detail was sought using the template for Relevant Authorities. This was because the RSPB is one of the NGOs that is known to be engaged in many places and was known to have strong views and experience.

### Questionnaire for Project Officers

<b>Site Name:</b>	
<b>Information provider:</b>	
<b>1. Governance</b>	
1.1.	Frequency of meetings (Relevant Authorities Group)
1.2.	Frequency of meetings (Advisory Group)
1.3.	Has this been constant or has it evolved over time?
1.4.	Are there extra meetings to address specific issues?
1.5.	Is there a pattern to attendance of RA group – are there particular bodies that regularly fail to attend?
1.6.	Seniority of attendance – is this devolved down to junior grades?
1.7.	Willingness to take action – have RAs had to be pressed to use their legislation or resources?
1.8.	Are there detectable behavioural changes within the RA since inception?
1.9.	Same personalities but different attitudes?
1.10.	Different personalities and different attitudes?
1.11.	Engagement of Advisory Group: Who attends?
1.12.	Engagement of Advisory Group: Do they feel it to be beneficial – are their views listened to and does this lead to action?
<b>2. Finance</b>	
2.1.	How much does the secretariat cost?
2.2.	Who contributes? (Please list and amount)
2.3.	How are the contribution rates determined?
2.4.	What proportion of income comes as 'in kind' as opposed to direct cash?
<b>3. Cost-effectiveness</b>	
3.1.	What man-hours are required of the various regulatory participants?
3.2.	Is effort related to issues or to degree of commitment?
3.3.	Are resources sufficient to do the job or is there always a shortfall?
3.4.	Role of EMS staff – is there an EMS officer?
3.5.	Has EMS been merged with Estuary Partnership?
3.6.	Staff turnover – how long has the existing Project Officer been in post and what about predecessors?
3.7.	Is the job full-time EMS or part of another job?
3.8.	Career progression – is this a job for a newly qualified person or an 'old hand'?
<b>Supplementary questions</b>	
4.1.	If one was starting again – what might be done differently?
4.2.	Have you any additional issues that we should take into account?

## Questionnaire for Natural England

<b>Respondent name:</b>					
<b>Site:</b>					
<b>Management objectives</b>					
Have management objectives been clearly defined in the MS?	<b>Yes / No</b>				
What proportion of management objectives has been achieved?	<20% ,	20-40%,	40-60%,	60-80%	>80%
<p>What factors have helped in the achievement of objectives? Possible options:</p> <ul style="list-style-type: none"> <li>• Ease of achievement?</li> <li>• Presence of project manager</li> <li>• Within remit of one RA?</li> <li>• Funding available?</li> <li>• Other resources (time and equipment) available?</li> <li>• Collaboration with partners?</li> <li>• Pressure from Defra / Natural England Risk Review etc?</li> <li>• NGO pressure?</li> <li>• Delivers non MS objectives at same time e.g. Coastal Management /ICZM / etc?</li> <li>• Other – specify?</li> </ul>					
<p>What factors have prevented or hindered achievement of objectives? Possible options:</p> <ul style="list-style-type: none"> <li>• Lack of commitment from RAs?</li> <li>• Presence of project manager</li> <li>• Not within remit of any one RA</li> <li>• Complexity of issue?</li> <li>• Insufficient evidence to demonstrate cause and effect e.g. activity 'x' impacts habitat 'y' in such a manner...?</li> <li>• Inadequate articulation of the objective</li> <li>• Inadequate articulation of the sought after status e.g. What is 'Favourable Condition'?</li> <li>• Confusion with monitoring objectives in the Favourable Condition Tables?</li> <li>• Achievement of objectives believed / perceived to be beyond the scope of the RAs?</li> <li>• Lack of secured funds?</li> <li>• Key partners unwilling (or seeming so) to act, therefore others not acting?</li> <li>• Lack of other resources (time and equipment)?</li> <li>• Length of time required to resolve the issue?</li> <li>• Large number of issues to be resolved?</li> <li>• Issue difficult to resolve at the standard required to deliver the objective?</li> <li>• Other – please specify?</li> </ul>					
Has achievement of management objectives been a direct consequence of actions identified in the MS?					
Or has progress been facilitated by the MS?					
Have objectives been achieved despite the MS?					
If so, why?					
Has achievement of objectives resulted (or significantly contributed) in site being in favourable condition?					
<ul style="list-style-type: none"> <li>• If not, why not?</li> <li>• Do any failings relate to improvements required within the MS?</li> </ul>					
Effective working:					
<ul style="list-style-type: none"> <li>• What has worked well within the MS?</li> <li>• What has not worked well within the MS</li> <li>• How have difficulties been overcome?</li> </ul>					
Have there been incidental social or economic benefits?					
Have there been incidental social or economic costs?					

<b>Corrective measures</b>	
What sort of tracking process exists to follow improvements in / change to EMS condition (e.g. condition monitoring, risk review)?	
How do triggers for further investigation work?	
Who is responsible for funding such further investigations?	
How does the subsequent process lead to specific action? And how is this action captured in the MS?	
How is progress with resolving problems charted (e.g. RA compliance reporting)?	
How are outcomes reported?	
Has the MS been instrumental in effecting specific changes in management?	
How are costs of management met? <ul style="list-style-type: none"> <li>• Running the scheme and attendance etc</li> <li>• Taking forward specific actions.</li> </ul>	
<b>Interaction between Relevant Authority and Advisory Groups</b>	
Briefly describe structure of management groups? (different groups may have slightly differing approaches to mgt structures)	
Do advisory groups represent a range of interests?	
How frequently are meetings held?	
Who provides secretariat?	
How are messages fed between the two groups?	
Is the process interactive or a 'cascade' process?	
Who are the messengers?	
Do the respective representatives 'listen to' or 'hear' the messages?	
<b>Administration &amp; Funding</b>	
Are governance arrangements in place? What sort of governance (e.g. formal MOA between Relevant authorities?)	
Who agreed the initial management actions? / how or where are they agreed?	
Are all RAs on board and committed to the MS? If not, who is not and why not?	
Are governance arrangements fit-for-purpose?	
What improvements are needed in the governance arrangements?	
Is the Management Scheme regarded as a community project or simply as an NE project that others have to engage with?	
How is the project funded? <ul style="list-style-type: none"> <li>• Who contributes and how much do they contribute?</li> <li>• Are funding arrangements in place for secretariat work/are funds met for secretariat work?</li> <li>• Are there sufficient funds to meet secretariat requirements? (if so, how much and by whom)</li> <li>• Are there separate funding arrangements for pro-active work?</li> <li>• Are there sufficient funds to meet pro-active work? (if so, how much and by whom)</li> <li>• Are funding shortfalls envisaged in the current climate?</li> <li>• Do contributors have difficulty getting money?</li> <li>• Is there a definable pattern of shortfalls?</li> <li>• How have funding shortfalls been tackled (e.g. in kind contributions for those RA's not able to contribute financially?)</li> </ul>	

## Questionnaire for Relevant Authorities

	<b>Name of Respondent</b>			
	<b>Organisation</b>			
1.	Does your organisation contribute to the running of a management scheme?	Yes/No	If so how much do you contribute?	In kind <£1000 £1,000-3000 £3,000 -5000 >£5,000
	What do funds contribute towards?			
	Does this represent value for money?	Yes /No		
	Is your organisation committed to maintaining the MS?	Yes /No	If not, why not?	
	Do you anticipate that contributing stakeholders will continue to do so under current economic circumstances?	Yes/No		
2.	Is your engagement with Management Schemes regarded as a good use of staff time?	Yes /No		
4.	In your view does the MS deliver its objectives i.e. does it fulfil its purpose?			
5.	Can you give examples of why participation in the MS represents good/bad value for money?			
6.	Can you access the information you require with ease?	Yes/No	Are monitoring outputs regularly made available?	Yes/no
	Have problems that require corrective action been identified?	Yes/No		
	Is there information that you would like to see more readily available?	Yes/No		
7.	Are the governance arrangements fit for purpose?	Yes/No		
8.	Does your Scheme have a clear mechanism for providing leadership and secretariat?	Yes/No		
	If not, what would help to improve performance?			
	Which organisation drives the management scheme?			
	a. Who initiates corrective action?			
9.	b. How does this proceed?			
10.	What would you do to improve existing Governance or functioning?			
11.	Have the right actions been identified to achieve the desired outcomes?			
12.	(Advisory Group) Is your advice listened to and followed up?			
13.	If you were starting from scratch, what would you do differently?			

## Questionnaire for Advisory Groups

	<b>Name of Respondent</b>	
	<b>Organisation</b>	
1.	Is your engagement with Management Schemes regarded as a good use of your time?	
2.	Is your advice listened to and acted upon?	
3.	What works well?	
4.	What does not work	
5.	If you were starting from scratch, what would you do differently?	

## 6. Website links for Management Schemes and Regulation 35 packages

6.1 This study involved a significant period of time searching the internet to establish how much information could be gathered independently. The information presented here was secured in the winter of 2011-2012 and will change over time. Links may become redundant and in which case it is recommended that key words are used to re-find sites. Some links were provided by Natural England, but as is obvious in Table 8, some of these are not management schemes.

### Website links for Management Schemes

6.2 Links for websites that provide information on management schemes are given in Table 8.

**Table 7.** Websites for management schemes

Site	Notes	Link
Berwickshire & North Northumberland Coast		<a href="http://www.xbordercurrents.co.uk/management/">http://www.xbordercurrents.co.uk/management/</a>
Duddon Estuary	Duddon Estuary Partnership website has reference to EMS but little more <a href="http://www.duddon-estuary.org.uk/wildlife.htm">http://www.duddon-estuary.org.uk/wildlife.htm</a>	
Essex Estuaries	No website – NE link does not work and googling fails to find a site.	
Fal & Helford	Cornwall CC refer to MS but no documentation – refer to Natural England.	<a href="http://www.cornwall.gov.uk/default.aspx?page=13694">http://www.cornwall.gov.uk/default.aspx?page=13694</a>
Flamborough Head	EMS documentation readily accessible	<a href="http://www.flamboroughheadsac.org.uk/">http://www.flamboroughheadsac.org.uk/</a>
Humber Estuary	Excellent document availability.	<a href="http://www.humberems.co.uk/">http://www.humberems.co.uk/</a>
Lundy	No obvious recognition of Reg 35 or EMS management	<a href="http://www.lundymcz.org.uk/">http://www.lundymcz.org.uk/</a>
Mersey Estuary	Archived website for Mersey Basin Campaign <a href="http://www.merseybasin.org.uk/">http://www.merseybasin.org.uk/</a>	
Morecambe Bay	Excellent website with everything very accessible.	<a href="http://www.morecambebay.org.uk/what_we_do/EMS.html">http://www.morecambebay.org.uk/what_we_do/EMS.html</a>
Plymouth Sound & Estuaries	Management Scheme document easily found	<a href="http://www.plymouth.gov.uk/tecf_ems_a1.pdf">http://www.plymouth.gov.uk/tecf_ems_a1.pdf</a>
Severn Estuary	Contains useful guidance documents.	ASERA website <a href="http://www.severnestuary.net/asera/about.html">http://www.severnestuary.net/asera/about.html</a>  Management Scheme at <a href="http://www.severnestuary.net/asera/docs/ASERA%20Management%20Scheme%20-%20Sept%202004.pdf">http://www.severnestuary.net/asera/docs/ASERA%20Management%20Scheme%20-%20Sept%202004.pdf</a>
Solent Maritime	Website readily accessible and navigable.	<a href="http://www.solentems.org.uk/">http://www.solentems.org.uk/</a>
Solway Firth	Useful chronological account of early stages of EMS in the SFP Partnership site ( <a href="http://www.solwayfirthpartnership.co.uk/">http://www.solwayfirthpartnership.co.uk/</a> ) but no obvious reference to ongoing	

	EMS.	
Stour & Orwell Estuary	Management scheme within Suffolk Coasts & Heaths AONB website but readily accessible when you know what to look for.	<a href="http://www.suffolkcoastandheaths.org/uploads/Stour%20and%20Orwell%20Estuary%20Management%20Scheme.pdf">http://www.suffolkcoastandheaths.org/uploads/Stour%20and%20Orwell%20Estuary%20Management%20Scheme.pdf</a>
South Wight Maritime		<a href="http://www.coastalwight.gov.uk/swmems/introduction.htm">http://www.coastalwight.gov.uk/swmems/introduction.htm</a>
North East Kent		<a href="http://www.thanetcoast.org.uk/factfile/northeast_kent_management_scheme/management_scheme_2007-2012.aspx">http://www.thanetcoast.org.uk/factfile/northeast_kent_management_scheme/management_scheme_2007-2012.aspx</a>
The Wash & North Norfolk	All necessary information available from website	<a href="http://www.washandnorthnorfolkcoastems.co.uk/">http://www.washandnorthnorfolkcoastems.co.uk/</a>

## Analysis of availability of Regulation 35 (33) advice via the internet

6.3 A study of the availability of Regulation 35 advice was undertaken to determine how readily stakeholders might access relevant information. We found this to be extremely patchy (see paragraphs 2.35 to 2.37 in the main report).

6.4 Table 9 was compiled by a variety of searches using key words. The column referring to documents found was assembled using two sets of terms via Google: (Estuary Name) Regulation 33 and (Estuary Name) Regulation 35. Details of Document relate to information subsequently acquired from Natural England by direct contact. Two periods of site searching were undertaken: one in mid- January 2012 and the other on 20 June 2012. All viable links relate to the search on 20 June.

**Table 8.** Availability of Regulation 35 advice on the internet

SITE NAME	AREA (ha)	REGULATION 33 ADVICE PACKAGE DATE	Hyperlink
<b>Aide-Ore Estuary (EMS)</b> Suffolk	1561.53	25.05.2001	<b>NO HYPERLINK</b> but pdf immediately downloadable when googled: <b>Aide Ore Regulation 33</b>
<b>Benacre to Easton Bavents (EMS)</b> Suffolk	366.93	23.01.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9009291-Benacre-to-Easton-Bavents-SPA_tcm6-32222.pdf">http://www.naturalengland.org.uk/Images/UK9009291-Benacre-to-Easton-Bavents-SPA_tcm6-32222.pdf</a>
<b>Benfleet to Southend Marshes (EMS)</b> Essex	2251.31	23.01.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9009171-Benfleet-and-Southend-Marshes-SPA_tcm6-32215.pdf">http://www.naturalengland.org.uk/Images/UK9009171-Benfleet-and-Southend-Marshes-SPA_tcm6-32215.pdf</a>
<b>Berwickshire &amp; North Northumberland Coast (EMS)</b> Northumberland, Scottish Borders	65046.00	14.06.2000	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK0017072-Berwickshire-and-North-Northumberland-Coast-SAC_tcm6-32009.pdf">http://www.naturalengland.org.uk/Images/UK0017072-Berwickshire-and-North-Northumberland-Coast-SAC_tcm6-32009.pdf</a>
<b>Breydon Water (EMS)</b> Norfolk	1202.90	24.08.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9009181-Breydon-Water-SPA_tcm6-32218.pdf">http://www.naturalengland.org.uk/Images/UK9009181-Breydon-Water-SPA_tcm6-32218.pdf</a>
<b>Chesil &amp; The Fleet (EMS)</b> Dorset	748.93	04.11.1999	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK0017076-Chesil-and-the-Fleet-SAC_tcm6-31969.pdf">http://www.naturalengland.org.uk/Images/UK0017076-Chesil-and-the-Fleet-SAC_tcm6-31969.pdf</a>
<b>Deben Estuary (EMS)</b> Suffolk	978.93	23.01.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9009">http://www.naturalengland.org.uk/Images/UK9009</a>



			<a href="#">261-Deben-Estuary-SPA_tcm6-32224.pdf</a>
<b>Dee Estuary (EMS)</b> Cheshire, Flintshire, Wirrel	15806.00	01.2010	<b>NATURAL ENGLAND PAGE NOT FOUND</b> <a href="http://www.naturalengland.org.uk/ourwork/marine/protectandmanage/mpa/deeestuaryreg33.aspx">http://www.naturalengland.org.uk/ourwork/marine/protectandmanage/mpa/deeestuaryreg33.aspx</a> <b>CAN BE FOUND VIA CCW</b> <a href="http://www.ccw.gov.uk/landscape-wildlife/protecting-our-landscape/special-sites-project/the-dee-estuary-spa.aspx?lang=en">http://www.ccw.gov.uk/landscape-wildlife/protecting-our-landscape/special-sites-project/the-dee-estuary-spa.aspx?lang=en</a>
<b>Drigg Coast (EMS)</b> Cumbria	1397.40	29.03.2000	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK0013031-Drigg-Coast-SAC_tcm6-32075.pdf">http://www.naturalengland.org.uk/Images/UK0013031-Drigg-Coast-SAC_tcm6-32075.pdf</a>
<b>Duddon Estuary (EMS)</b> Cumbria	6806.30	25.05.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Other information at <a href="http://www.naturalengland.org.uk/Images/UK9005031-Duddon-Estuary-SPA_tcm6-32242.pdf">http://www.naturalengland.org.uk/Images/UK9005031-Duddon-Estuary-SPA_tcm6-32242.pdf</a>
<b>Dungeness to Pett Level (EMS)</b> East Sussex, Kent	3223.60	25.05.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Other information at: <a href="http://www.naturalengland.org.uk/regions/south-east/ourwork/dungenessconsultation/default.aspx">http://www.naturalengland.org.uk/regions/south-east/ourwork/dungenessconsultation/default.aspx</a>
<b>Essex Estuaries (EMS)</b> Essex	46141.00	14.06.2000	<b>NO HYPERLINK</b> but pdf immediately downloadable when googled: <b>Essex Estuaries regulation 33</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK0013690-Essex-Estuaries-SAC_tcm6-31805.pdf">http://www.naturalengland.org.uk/Images/UK0013690-Essex-Estuaries-SAC_tcm6-31805.pdf</a>
<b>Exe Estuary (EMS)</b> Devon	2345.70	23.01.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9010081-Exe-Estuary-SPA_tcm6-32280.pdf">http://www.naturalengland.org.uk/Images/UK9010081-Exe-Estuary-SPA_tcm6-32280.pdf</a>
<b>Fal &amp; Helford (EMS)</b> Cornwall	6387.80	14.01.2000	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK0013112-Fal-and-Helford-SAC_tcm6-31962.pdf">http://www.naturalengland.org.uk/Images/UK0013112-Fal-and-Helford-SAC_tcm6-31962.pdf</a>
<b>Flamborough Head (EMS)</b> East Riding Yorkshire	6312.00	14.01.2000	Available as a hyperlink ( <a href="http://www.hull.ac.uk/coastalobs/media/pdf/reg33.pdf">http://www.hull.ac.uk/coastalobs/media/pdf/reg33.pdf</a> ) through Flamborough Head website <a href="http://www.hull.ac.uk/coastalobs/flamborough/conservation/index.html">http://www.hull.ac.uk/coastalobs/flamborough/conservation/index.html</a>
<b>Great Yarmouth North Denes (EMS)</b> Norfolk	149.19	25.05.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9009271-Great-Yarmouth-North-Denes-SPA_tcm6-32226.pdf">http://www.naturalengland.org.uk/Images/UK9009271-Great-Yarmouth-North-Denes-SPA_tcm6-32226.pdf</a>
<b>Hamford Water (EMS)</b> Essex	2187.20	25.05.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9009131-Hamford-Water-SPA_tcm6-32209.pdf">http://www.naturalengland.org.uk/Images/UK9009131-Hamford-Water-SPA_tcm6-32209.pdf</a>
<b>Humber Estuary</b> <b><i>Humber Estuary possible SAC</i></b> <b><i>Humber Flats, Marshes and Coast SPA &amp; potential SPA</i></b> <b><i>Humber Flats, Marshes and Coast Ramsar Site &amp; proposed Ramsar Site</i></b> City of Kingston upon Hull; East Riding of Yorkshire; Lincolnshire; North East Lincolnshire; North Lincolnshire	36657.00	04.2003	<b>INTERIM ADVICE</b> available on <a href="http://humberems.co.uk/downloads/English%20Natures%20Reg%2033%20Advice.pdf">http://humberems.co.uk/downloads/English%20Natures%20Reg%2033%20Advice.pdf</a>
<b>Isles of Scilly Complex (EMS)</b> Cornwall; Isles of Scilly	26851.00	14.01.2000	<b>NO HYPERLINK</b> but pdf immediately downloadable when googled: <b>Isles of Scilly Complex regulation 33</b>
<b>Lundy (EMS)</b> Devon	3064.50	14.01.2000	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK0013114-Lundy-SAC_tcm6-31963.pdf">http://www.naturalengland.org.uk/Images/UK0013114-Lundy-SAC_tcm6-31963.pdf</a>

<b>Mersey Estuary (EMS)</b> Halton, Wirral, Cheshire, Liverpool	5033.10	25.05.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Appears to have a NE page but when followed this came up as: <a href="http://www.naturalengland.org.uk/ourwork/marine/protectandmanage/mpa/deeestuaryreg33.aspx">http://www.naturalengland.org.uk/ourwork/marine/protectandmanage/mpa/deeestuaryreg33.aspx</a> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9005131-Mersey-Estuary-SPA_tcm6-32246.pdf">http://www.naturalengland.org.uk/Images/UK9005131-Mersey-Estuary-SPA_tcm6-32246.pdf</a>
<b>Minsmere–Walberswick (EMS)</b> Suffolk	1265.50	25.05.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9009101-Minsmere%E2%80%93Walberswick-SPA_tcm6-32210.pdf">http://www.naturalengland.org.uk/Images/UK9009101-Minsmere%E2%80%93Walberswick-SPA_tcm6-32210.pdf</a>
<b>Morecambe Bay (EMS)</b> Cumbria, Lancashire	61506.00	14.01.2000	<b>DIRECT LINK</b> via Morecambe Bay Partnership website <a href="http://www.morecambebay.org.uk/PDF/EMS/reg_33adv.pdf">http://www.morecambebay.org.uk/PDF/EMS/reg_33adv.pdf</a>
<b>North East Kent (EMS)</b> <i>Thanet Coast candidate Special Area of Conservation (cSAC), Thanet Coast and Sandwich Bay Special Protection Area (SPA), Sandwich Bay candidate Special Area of Conservation (cSAC)</i> Kent	1870.20	29.03.2000	Direct link <a href="http://www.thanetcoast.org.uk/pdf/NorthEastKent_Reg33.pdf">http://www.thanetcoast.org.uk/pdf/NorthEastKent_Reg33.pdf</a>
<b>Northumbria Coast (EMS)</b> Durham, North Tyneside, Northumberland, Sunderland, South Tyneside	1108.00	11.2000	When 'Northumbria Coast regulation 33' is googled a link comes up for the Solway EMS Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9006131-Northumbria-Coast-SPA_tcm6-32236.pdf">http://www.naturalengland.org.uk/Images/UK9006131-Northumbria-Coast-SPA_tcm6-32236.pdf</a>
<b>Pagham Harbour (EMS)</b> West Sussex	636.68	23.01.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9012041-Pagham-Harbour-SPA_tcm6-32261.pdf">http://www.naturalengland.org.uk/Images/UK9012041-Pagham-Harbour-SPA_tcm6-32261.pdf</a>
<b>Plymouth Sound &amp; Estuaries (EMS)</b> Cornwall; Devon; Plymouth	6402.00	14.01.2000	No hyperlink but pdf immediately downloadable when googled: <b>Plymouth Sound &amp; Estuaries Regulation 33</b>
<b>Poole Harbour (EMS)</b> Poole, Dorset	2272.00	10.11.2000	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9010111-Poole-Harbour-SPA_tcm6-32287.pdf">http://www.naturalengland.org.uk/Images/UK9010111-Poole-Harbour-SPA_tcm6-32287.pdf</a>
<b>Ribble &amp; Alt Estuaries (EMS)</b> Lancashire, Sefton	12361.00	05.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9005103-Ribble-and-Alt-Estuaries-SPA_tcm6-32245.pdf">http://www.naturalengland.org.uk/Images/UK9005103-Ribble-and-Alt-Estuaries-SPA_tcm6-32245.pdf</a>
<b>Severn Estuary (EMS)</b> Cardiff, City of Bristol, Newport, North Somerset, Somerset, South Gloucestershire, Vale of Glamorgan, Gloucestershire, Monmouthshire	24701.00	02.2005	<b>DIRECT LINK</b> <a href="http://www.severnestuary.net/asera/docs/Regulation%2033%20Advice.pdf">http://www.severnestuary.net/asera/docs/Regulation%2033%20Advice.pdf</a>
<b>Solent Maritime (EMS)</b> <i>Solent Maritime SAC Solent and Southampton Water SPA and Ramsar Chichester &amp; Langstone</i>	11325.00	18.10.2000	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK0030059-Solent-Maritime-SAC_tcm6-31862.pdf">http://www.naturalengland.org.uk/Images/UK0030059-Solent-Maritime-SAC_tcm6-31862.pdf</a>

<b>Harbour SPA and Ramsar Portsmouth Harbour SPA and Ramsar</b> City of Portsmouth; City of Southampton; Hampshire; Isle of Wight; West Sussex			
<b>Solway Firth (EMS)</b> Cumbria; Dumfries and Galloway	43637.00	29.02.2000 Revised 2010	<b>INTERIM REVISION</b> can be found at <a href="http://www.snh.gov.uk/docs/C252099.pdf">http://www.snh.gov.uk/docs/C252099.pdf</a>
<b>South Wight Maritime (EMS)</b> Isle of Wight	19863.00	25.05.2001	<b>DIRECT LINK</b> <a href="http://www.coastalwight.gov.uk/swmems/pdfs/regulation33.pdf">http://www.coastalwight.gov.uk/swmems/pdfs/regulation33.pdf</a>
<b>Stour &amp; Orwell Estuaries (EMS)</b> Essex, Suffolk	3323.60	23.01.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9009121-Stour-and-Orwell-Estuaries-SPA_tcm6-32213.pdf">http://www.naturalengland.org.uk/Images/UK9009121-Stour-and-Orwell-Estuaries-SPA_tcm6-32213.pdf</a>
<b>The Swale and Medway (EMS)</b> Medway, Kent	4684.40	23.01.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives (Medway) at: <a href="http://www.naturalengland.org.uk/Images/UK9012031-Medway-Estuary-and-Marshes-SPA_tcm6-32253.pdf">http://www.naturalengland.org.uk/Images/UK9012031-Medway-Estuary-and-Marshes-SPA_tcm6-32253.pdf</a> Conservation Objectives (Swale) at: <a href="http://www.naturalengland.org.uk/Images/UK9012011-The-Swale-SPA_tcm6-32258.pdf">http://www.naturalengland.org.uk/Images/UK9012011-The-Swale-SPA_tcm6-32258.pdf</a>
<b>Teesmouth &amp; Cleveland Coast (EMS)</b> Redcar and Cleveland	1247.30	06.11.2000	<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9006061-Teesmouth-and-Cleveland-Coast-SPA_tcm6-32237.pdf">http://www.naturalengland.org.uk/Images/UK9006061-Teesmouth-and-Cleveland-Coast-SPA_tcm6-32237.pdf</a>
<b>Thames Estuary &amp; Marshes (EMS)</b> Medway, Thurrock, Kent	4838.90	25.05.2001	<b>NOT AVAILABLE VIA THE INTERNET</b> but referred to on PLA website Conservation Objectives at: <a href="http://www.naturalengland.org.uk/Images/UK9012021-Thames-Estuary-and-Marshes-SPA_tcm6-32229.pdf">http://www.naturalengland.org.uk/Images/UK9012021-Thames-Estuary-and-Marshes-SPA_tcm6-32229.pdf</a>
<b>Tweed Estuary (EMS)</b>			<b>NOT AVAILABLE VIA THE INTERNET</b> Conservation Objectives do not appear to be available either
<b>Wash &amp; North Norfolk Coast (EMS)</b> Lincolnshire, Norfolk	107761.00	14.06.2000	<b>AVAILABLE AT</b> <a href="http://www.washandnorthnorfolkcoastems.co.uk/documents.php">http://www.washandnorthnorfolkcoastems.co.uk/documents.php</a>

## 7. References

DETR, 1998. *European Marine Sites in England & Wales: a guide to the Conservation (Natural Habitats &c.) Regulations 1994 and to the preparation and application of management schemes*. DETR, London.

Morris, R.K.A. (2008). English Nature's Estuaries Initiative: a review of its contribution to ICZM. *Ocean & Coastal Management* **51**: 25-42.

Motyka J.M. and Brampton A.H. (1993). *Coastal Management: Mapping of Littoral Cells*. HR Wallingford Report SR 328. Wallingford, Oxon.