

# Site Improvement Plan

## Northumberland Coastal

Site Improvement Plans (SIPs) have been developed for each Natura 2000 site in England as part of the Improvement Programme for England's Natura 2000 sites (IPENS). Natura 2000 sites is the combined term for sites designated as Special Areas of Conservation (SAC) and Special Protected Areas (SPA). This work has been financially supported by LIFE, a financial instrument of the European Community.

The plan provides a high level overview of the issues (both current and predicted) affecting the condition of the Natura 2000 features on the site(s) and outlines the priority measures required to improve the condition of the features. It does not cover issues where remedial actions are already in place or ongoing management activities which are required for maintenance.

The SIP consists of three parts: a Summary table, which sets out the priority Issues and Measures; a detailed Actions table, which sets out who needs to do what, when and how much it is estimated to cost; and a set of tables containing contextual information and links.

Once this current programme ends, it is anticipated that Natural England and others, working with landowners and managers, will all play a role in delivering the priority measures to improve the condition of the features on these sites.

The SIPs are based on Natural England's current evidence and knowledge. The SIPs are not legal documents, they are live documents that will be updated to reflect changes in our evidence/knowledge and as actions get underway. The information in the SIPs will be used to update England's contribution to the UK's Prioritised Action Framework (PAF).

The SIPs are not formal consultation documents, but if you have any comments about the SIP or would like more information please email us at [IPENSLIFEProject@naturalengland.org.uk](mailto:IPENSLIFEProject@naturalengland.org.uk), or contact Natural England's Responsible Officer for the site via our enquiry service 0300 060 3900, or [enquiries@naturalengland.org.uk](mailto:enquiries@naturalengland.org.uk)

### **This Site Improvement Plan covers the following Natura 2000 site(s)**

- UK0017072 Berwickshire & North Northumberland Coast SAC**
- UK9006031 Coquet Island SPA**
- UK9006021 Farne Islands SPA**
- UK9006011 Lindisfarne SPA**
- UK0017097 North Northumberland Dunes SAC**

**UK9006131 Northumbria Coast SPA**

**UK0030292 Tweed Estuary SAC**

## Site description

The Northumberland Coastal Site Improvement Plan covers the following sites: Berwickshire & Northumberland Coast SAC, Coquet Island SPA, Farne Islands SPA, Lindisfarne SPA, North Northumberland Dunes SAC, Northumbria Coast SPA, and Tweed Estuary SAC.

As such there are fully marine, intertidal, saltmarsh and dune areas designated to protect a diverse range of important birds and habitats. The long stretch of coast, over which the designated sites are located, ranges from largely agricultural in the north down to urban and industrial conurbations further south.

The Tweed Estuary SAC is a long narrow estuary, with intertidal mudflats and sandflats. The SAC supports a population of both river and sea lamprey with the water quality classified as excellent throughout.

The Berwickshire & Northumberland Coast SAC supports a biodiverse assemblage of marine life. It covers 115 km of coastline and extends out to four nautical miles to encompass 645 square kilometers of shore and sea.

Lindisfarne SPA qualifies by supporting a range of over-wintering wildfowl and waders such as Light Bellied Brent geese (50% world pop), it is also noted for its wintering waterfowl assemblage. The site also qualifies for supporting Annex 1 species little tern, and roseate tern.

Farne Islands SPA consists of a group of low-lying islands that support seabird colonies of international importance, including arctic, common and sandwich tern, guillemot and Atlantic puffin as well as a wide range of other seabirds.

The Northumberland Coast SPA supports internationally important populations of over-wintering purple sandpiper and turnstone, and a breeding colony of little tern at Beadnell Bay.

North Northumberland Dunes SAC has five types of Annex 1 dune habitats.

Coquet Island SPA supports the sole colony of rare roseate terns in the UK along with large numbers of auks and gulls. With the nearby Farne Islands SPA it constitutes an important breeding ground for North Sea seabirds.

## Plan Summary

*This table shows the prioritised issues for the site(s), the features they affect, the proposed measures to address the issues and the delivery bodies whose involvement is required to deliver the measures. The list of delivery bodies will include those who have agreed to the actions as well as those where discussions over their role in delivering the actions is on-going.*

Priority & Issue	Pressure or Threat	Feature(s) affected	Measure	Delivery Bodies
1 Public Access/Disturbance	Threat	A038(NB) Whooper swan, A043(NB) Icelandic Greylag goose, A046c(NB) Light-bellied Brent goose, A048(NB) Common shelduck, A050(NB) Wigeon, A063(NB) Common eider, A064(NB) Long-tailed duck, A065(NB)	Research recreational disturbance, and produce a Code of Conduct and management	Local Authority(ies), National Trust, Natural England, Northumberland Coast AONB, Northumberland Inshore

		Common scoter, A069(NB) Red-breasted merganser, A137(NB) Ringed plover, A140(NB) Golden plover, A141(NB) Grey plover, A143(NB) Red knot, A144(NB) Sanderling, A149(NB) Dunlin, A157(NB) Bar-tailed godwit, A162(NB) Common redshank, A191(B) Sandwich tern, A192(B) Roseate tern, A193(B) Common tern, A194(B) Arctic tern, A195(B) Little tern, A199(B) Guillemot, A204(B) Puffin, H1140 Intertidal mudflats and sandflats, H1160 Shallow inlets and bays, S1364 Grey seal, Seabird assemblage, Waterbird assemblage		Fisheries Conservation Authority (IFCA), Ports And Harbour Authority(ies), RSPB, Volunteers, University(ies), Marine Management Organisation (MMO), Local user group(s), Local recreation group(s)	
2	Water Pollution	Threat	A038(NB) Whooper swan, A043(NB) Icelandic Greylag goose, A046c(NB) Light-bellied Brent goose, A048(NB) Common shelduck, A050(NB) Wigeon, H1130 Estuaries, H1140 Intertidal mudflats and sandflats, H1160 Shallow inlets and bays	Address pollution issues through partnership working	Environment Agency, Natural England, Northumbrian Water Ltd, Catchment Sensitive Farming (CSF), Scottish Environmental Protection Agency (SEPA), Northumberland Rivers Trust, Northumberland River Catchment Partnership Coastal Issues Group, Tweed Forum, Tweed Commissioners
3	Invasive species	Threat	A191(B) Sandwich tern, A192(B) Roseate tern, A193(B) Common tern, A194(B) Arctic tern, A199(B) Guillemot, A204(B) Puffin, H1140 Intertidal mudflats and sandflats, H1160 Shallow inlets and bays, H1170 Reefs, H2110 Shifting dunes, H2120 Shifting dunes with marram, H2130 Dune grassland, H2170 Dunes with creeping willow, H2190 Humid dune slacks, Seabird assemblage	Research and develop an appropriate management plan, and ongoing surveillance	Defra, Environment Agency, Local Authority(ies), Natural England, Northumberland Inshore Fisheries Conservation Authority (IFCA), Ports And Harbour Authority(ies), University(ies), Centre for Environment, Fisheries and Aquaculture Science (Cefas), Consultant, GB Non-native Species Secretariat (NNSS), Statutory Nature Conservation Body (SNCB) Statutory Nature Conservation Body (SNCB), Royal Yachting Association (RYA), Maritime and Coastguard Agency

4 Changes in species distributions	Threat	A038(NB) Whooper swan, A043(NB) Icelandic Greylag goose, A046c(NB) Light-bellied Brent goose, A048(NB) Common shelduck, A050(NB) Wigeon, A063(NB) Common eider, A064(NB) Long-tailed duck, A065(NB) Common scoter, A069(NB) Red-breasted merganser, A137(NB) Ringed plover, A140(NB) Golden plover, A141(NB) Grey plover, A143(NB) Red knot, A144(NB) Sanderling, A148(B) Purple sandpiper, A149(NB) Dunlin, A157(NB) Bar-tailed godwit, A162(NB) Common redshank, A169(NB) Turnstone, A191(B) Sandwich tern, A192(B) Roseate tern, A193(B) Common tern, A194(B) Arctic tern, A195(B) Little tern, A199(B) Guillemot, A204(B) Puffin, H1140 Intertidal mudflats and sandflats, H1170 Reefs, Seabird assemblage, Waterbird assemblage	Research, and forming a strategic overview	National Trust, Natural England, RSPB, University(ies), British Trust for Ornithology (BTO), Consultant
5 Predation	Pressure/ Threat	A038(NB) Whooper swan, A043(NB) Icelandic Greylag goose, A046c(NB) Light-bellied Brent goose, A048(NB) Common shelduck, A050(NB) Wigeon, A063(NB) Common eider, A064(NB) Long-tailed duck, A065(NB) Common scoter, A069(NB) Red-breasted merganser, A137(NB) Ringed plover, A140(NB) Golden plover, A141(NB) Grey plover, A143(NB) Red knot, A144(NB) Sanderling, A148(B) Purple sandpiper, A149(NB) Dunlin, A157(NB) Bar-tailed godwit, A162(NB) Common redshank, A169(NB) Turnstone, A191(B) Sandwich tern, A192(B) Roseate tern, A193(B) Common tern, A194(B) Arctic tern, A195(B) Little tern, A199(B) Guillemot, A204(B) Puffin	Research and develop an appropriate management plan, and ongoing surveillance	Defra, National Trust, Natural England, RSPB, Landowner(s), University(ies), Consultant, Site manager(s)

6 Coastal squeeze	Threat	A038(NB) Whooper swan, A043(NB) Icelandic Greylag goose, A046c(NB) Light-bellied Brent goose, A048(NB) Common shelduck, A050(NB) Wigeon, A063(NB) Common eider, A064(NB) Long-tailed duck, A065(NB) Common scoter, A069(NB) Red-breasted merganser, A137(NB) Ringed plover, A140(NB) Golden plover, A141(NB) Grey plover, A143(NB) Red knot, A144(NB) Sanderling, A148(B) Purple sandpiper, A149(NB) Dunlin, A157(NB) Bar-tailed godwit, A162(NB) Common redshank, A169(NB) Turnstone, A191(B) Sandwich tern, A192(B) Roseate tern, A193(B) Common tern, A194(B) Arctic tern, A195(B) Little tern, A199(B) Guillemot, A204(B) Puffin, H1130 Estuaries, H1140 Intertidal mudflats and sandflats, H1170 Reefs	Develop a consistent approach to coastal development and research mitigation	Environment Agency, National Trust, Natural England, Northumberland Coast AONB, Northumberland County Council, Landowner(s), Marine Management Organisation (MMO)
7 Direct impact from third party	Threat	A038(NB) Whooper swan, A043(NB) Icelandic Greylag goose, A046c(NB) Light-bellied Brent goose, A048(NB) Common shelduck, A050(NB) Wigeon, A063(NB) Common eider, A064(NB) Long-tailed duck, A065(NB) Common scoter, A069(NB) Red-breasted merganser, A137(NB) Ringed plover, A140(NB) Golden plover, A141(NB) Grey plover, A143(NB) Red knot, A144(NB) Sanderling, A148(B) Purple sandpiper, A149(NB) Dunlin, A157(NB) Bar-tailed godwit, A162(NB) Common redshank, A169(NB) Turnstone, A191(B) Sandwich tern, A192(B) Roseate tern, A193(B) Common tern, A194(B) Arctic tern, A195(B) Little tern, A199(B) Guillemot, A204(B) Puffin, H1170 Reefs, S1364 Grey seal	Raise awareness, and carry out enforcement activity where appropriate	Environment Agency, Local Authority(ies), National Trust, Northumberland Coast AONB, Northumberland County Council, Northumberland Inshore Fisheries Conservation Authority (IFCA), Northumberland Wildlife Trust, Northumbria Police, RSPB, Volunteers, Marine Management Organisation (MMO)

8 Transportation and service corridors	Pressure	A038(NB) Whooper swan, A043(NB) Icelandic Greylag goose, A046c(NB) Light-bellied Brent goose, A048(NB) Common shelduck, A050(NB) Wigeon, A063(NB) Common eider, A064(NB) Long-tailed duck, A065(NB) Common scoter, A069(NB) Red-breasted merganser, A137(NB) Ringed plover, A140(NB) Golden plover, A141(NB) Grey plover, A143(NB) Red knot, A144(NB) Sanderling, A148(B) Purple sandpiper, A149(NB) Dunlin, A157(NB) Bar-tailed godwit, A162(NB) Common redshank, A169(NB) Turnstone, A191(B) Sandwich tern, A192(B) Roseate tern, A193(B) Common tern, A194(B) Arctic tern, A195(B) Little tern, A199(B) Guillemot, A204(B) Puffin, H1140 Intertidal mudflats and sandflats, H1160 Shallow inlets and bays	Research the impacts of the causeway to inform future design and management	Natural England, University(ies), Consultant
9 Change in land management	Threat	A038(NB) Whooper swan, A043(NB) Icelandic Greylag goose, A046c(NB) Light-bellied Brent goose, A048(NB) Common shelduck, A050(NB) Wigeon, A063(NB) Common eider, A064(NB) Long-tailed duck, A065(NB) Common scoter, A069(NB) Red-breasted merganser, A137(NB) Ringed plover, A140(NB) Golden plover, A141(NB) Grey plover, A143(NB) Red knot, A144(NB) Sanderling, A148(B) Purple sandpiper, A149(NB) Dunlin, A157(NB) Bar-tailed godwit, A162(NB) Common redshank, A169(NB) Turnstone, A191(B) Sandwich tern, A192(B) Roseate tern, A193(B) Common tern, A194(B) Arctic tern, A195(B) Little tern, A199(B) Guillemot, A204(B) Puffin, H1140 Intertidal mudflats and sandflats, H1170 Reefs	Research the impacts of land use change and maintain land in favourable management	Natural England, Landowner(s), University(ies), Consultant, Agreement holder(s)
10 Air Pollution: risk of atmospheric nitrogen deposition	Threat	H2110 Shifting dunes, H2120 Shifting dunes with marram, H2130 Dune grassland, H2170 Dunes with creeping willow, H2190 Humid dune slacks	Further investigate the impacts of atmospheric nitrogen deposition	Natural England

11 Public Access/Disturbance	Threat	H2110 Shifting dunes, H2120 Shifting dunes with marram, H2130 Dune grassland	Improve awareness amongst the general public, and increase rangers/ wardening in key areas	Local Authority(ies), National Trust, Natural England, Northumberland Coast AONB, Northumberland Inshore Fisheries Conservation Authority (IFCA), Volunteers, Marine Management Organisation (MMO)
12 Fisheries: Commercial marine and estuarine	Pressure	H1140 Intertidal mudflats and sandflats, H1170 Reefs	Surveillance and monitoring to ensure compliance	Natural England, Northumberland Inshore Fisheries Conservation Authority (IFCA), Marine Management Organisation (MMO)
13 Fisheries: Commercial marine and estuarine	Pressure	A038(NB) Whooper swan, A043(NB) Icelandic Greylag goose, A046c(NB) Light-bellied Brent goose, A048(NB) Common shelduck, A050(NB) Wigeon, A063(NB) Common eider, A064(NB) Long-tailed duck, A065(NB) Common scoter, A069(NB) Red-breasted merganser, A137(NB) Ringed plover, A140(NB) Golden plover, A141(NB) Grey plover, A143(NB) Red knot, A144(NB) Sanderling, A148(B) Purple sandpiper, A149(NB) Dunlin, A157(NB) Bar-tailed godwit, A162(NB) Common redshank, A169(NB) Turnstone, A191(B) Sandwich tern, A192(B) Roseate tern, A193(B) Common tern, A194(B) Arctic tern, A195(B) Little tern, A199(B) Guillemot, A204(B) Puffin, H1140 Intertidal mudflats and sandflats, H1170 Reefs	Investigation and resultant management	Northumberland Inshore Fisheries Conservation Authority (IFCA)



## Issues and Actions

*This table outlines the prioritised issues that are currently impacting or threatening the condition of the features, and the outstanding actions required to address them. It also shows, where possible, the estimated cost of the action and the delivery bodies whose involvement will be required to implement the action. Lead delivery bodies will be responsible for coordinating the implementation of the action, but not necessarily funding it. Delivery partners will need to support the lead delivery body in implementing the action. In the process of developing the SIPs Natural England has approached the delivery bodies to seek agreement on the actions and their roles in delivering them, although in some cases these discussions have not yet been concluded. Other interested parties, including landowners and managers, will be involved as the detailed actions are agreed and delivered. Funding options are indicated as potential (but not necessarily agreed or secured) sources to fund the actions.*

### 1 Public Access/Disturbance

Little terns are a particularly high priority in relation to disturbance affecting condition. Wintering waders and other species are also at risk. Wildlife tourism is identified as a moderate threat in Lindisfarne SPA and Northumbria Coast SPA, due to loss of foraging habitat for birds, and there is also disturbance/displacement of birds by dog walkers, light aircraft and watersports.

In Berwickshire & North Northumberland Coast SAC, walking on sensitive habitats is an issue and wildlife tourism potentially disturbs and causes displacement of marine mammals. At the Farnes SPA, wildlife tourism disturbs and causes displacement of sensitive birds. At Coquet SPA, there is unauthorised access (various types) causing disturbance to /displacement of, sensitive birds.

Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
1A	Understand the impacts and accrue evidence for management	£50,000	2015-16	Investigation / Research / Monitoring	Natural England, Voluntary conservation organisation, AONB, Non-government organisation(s), Academic institution(s)	Natural England	University(ies), Consultant

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>1B</b>	Methods of assessment of Public access/ disturbance to birds/ habitats.	£50,000	2015-16	Investigation / Research / Monitoring	Natural England, Voluntary conservation organisation, AONB, Non-government organisation(s), Academic institution(s)	Natural England	University(ies), Consultant
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>1C</b>	Protection (i.e. managing visitor access to existing and new designated bird colonies) and habitat management to increase the area of available, suitable habitat to increase the likelihood of successful usage. Continue to work on Little tern LIFE project.	£40,000	2015-16	Partnership agreement	Natural England, Voluntary conservation organisation, AONB, Non-government organisation(s)	Local partnership	Local Authority(ies), National Trust, Natural England, Northumberland Coast AONB, RSPB, Volunteers

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>1D</b>	Managing visitor access, and producing information for visitors (eg Codes of Conduct) to minimise disturbance to designated seal species in the SAC but also European Protected Species (potential future designated features of the sites i.e. white-beaked dolphins and other cetaceans). Solutions include dog-free beaches. Information needs to be coherent across sites.	£15,000	2015-16	Partnership agreement	Natural England, Voluntary conservation organisation, AONB, Non-government organisation(s)	Local partnership	Local Authority(ies), National Trust, Natural England, Northumberland Coast AONB, Northumberland Inshore Fisheries Conservation Authority (IFCA), Ports And Harbour Authority(ies), Volunteers, Marine Management Organisation (MMO)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>1E</b>	Management of the cumulative impacts of the many types of recreational activities (bait digging, dog walking, watersports) which cause disturbance to designated features of the SACs and SPAs. <ul style="list-style-type: none"> <li>• Improve signage including increased dissemination of existing Codes of Conduct and production of other formats such as electronic Apps for smart phones and updated web pages</li> <li>• On the ground wardens in the visitor activity hotspots in sensitive areas identified from the research to inform the public.</li> <li>• Identify and promote where management plans are in place.</li> <li>• Identify where new management plans/ strategies are required.</li> </ul>	£40,000	2015-16	Partnership agreement	Natural England, Voluntary conservation organisation, AONB, Non-government organisation(s)	Local partnership	Local Authority(ies), National Trust, Natural England, Northumberland Coast AONB, Volunteers, Local user group(s), Local recreation group(s)

## 2 Water Pollution

There is direct evidence of poor water quality at Lindisfarne SPA and Berwickshire & North Northumberland Coast SAC through the presence of increased macroalgae abundance. The Tweed Estuary SAC may be the source of nutrient enrichment, the possible sources being terrestrial run off from agriculture and domestic sewage. Toxins (heavy metals, metaldehydes) and plastics have been identified as a moderate threat and are potentially a cause for concern.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>2A</b>	Address agricultural pollution in the Tweed SAC.	£15,000	2015 onwards	Diffuse Water Pollution Plan	Environment Agency, Natural England, Higher Level Stewardship (HLS), Water Framework Directive (WFD), Catchment Sensitive Farming (CSF)	Environment Agency	Natural England, Catchment Sensitive Farming (CSF), Scottish Environmental Protection Agency (SEPA), Northumberland Rivers Trust, Northumberland River Catchment Partnership Coastal Issues Group, Tweed Forum, Tweed Commissioners
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>2B</b>	Work with the Environment Agency to address discharge into Budle Bay, and the diffuse and agricultural pollution. Actions include increased monitoring; putting measures in place (eg reedbeds) and a Diffuse Water Pollution Plan.	£50,000	2015-16	Partnership agreement	Environment Agency, Natural England, Higher Level Stewardship (HLS), Water Framework Directive (WFD), Catchment Sensitive Farming (CSF)	Environment Agency	Natural England, Northumbrian Water Ltd, Scottish Environmental Protection Agency (SEPA), Northumberland Rivers Trust, Northumberland River Catchment Partnership Coastal Issues Group

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>2C</b>	Environment Agency is the regulatory body relating to water pollution issues therefore any work should be led by them regarding discharge into Fenham Flats, plus diffuse and agricultural production. Actions include increased monitoring; putting measures in place (eg reedbeds) and a Diffuse Water Pollution Plan.	£50,000	2015 onwards	Partnership agreement	Environment Agency, Natural England, Higher Level Stewardship (HLS), Water Framework Directive (WFD), Catchment Sensitive Farming (CSF)	Environment Agency	Natural England, Northumbrian Water Ltd, Scottish Environmental Protection Agency (SEPA), Northumberland Rivers Trust, Northumberland River Catchment Partnership Coastal Issues Group
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>2D</b>	Work in partnership with Scottish partners in complex cross-border sites regarding sources of pollution, and mitigation and management.	£15,000	2015 onwards	Partnership agreement	Environment Agency, Natural England, Higher Level Stewardship (HLS), Water Framework Directive (WFD), Catchment Sensitive Farming (CSF)	Environment Agency/ Scottish Environmental Protection Agency (SEPA)	Natural England, Catchment Sensitive Farming (CSF), Scottish Environmental Protection Agency (SEPA), Northumberland Rivers Trust, Northumberland River Catchment Partnership Coastal Issues Group, Tweed Forum, Tweed Commissioners

### 3 Invasive species

Pacific Oysters are a potential threat affecting intertidal features in Lindisfarne SPA and in Berwickshire & North Northumberland Coast (BNCC) SAC where Pacific Oyster aquaculture takes place in a fairly discrete area. However, if this species starts to recruit in the natural environment it could outcompete indigenous mollusc species (replacing habitat) and reduce and change biodiversity.

*Spartina* (in Lindisfarne SPA and Berwickshire & North Northumberland Coast SAC), and Japanese knotweed and Pirri pirri bur (in North Northumberland Dunes SAC) are subject to management and are considered a concern. There are possible Invasive Non-Native Species (INNS) reports in the south of the Berwickshire & North Northumberland Coast SAC as well as anecdotal reports of Japanese Skeleton Shrimp.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>3A</b>	Understand the impacts and accrue evidence for management. Surveillance of the site is recommended, since (generally) it is considered to have a low incidence of INNS, therefore identification and rapid response is a valuable tool in control management.	£50,000	2015-16	Investigation / Research / Monitoring	Environment Agency, EU LIFE, Natural England, Heritage Lottery Fund (HLF), Voluntary conservation organisation, AONB, Non-government organisation(s), Academic institution(s)	Natural England	Defra, Ports And Harbour Authority(ies), Royal Yachting Association (RYA), Maritime and Coastguard Agency
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>3B</b>	Once research is available and the impacts understood, Defra to use accrued evidence to develop strategic overview and management action plans. Defra need to supply a better steer and support.	Not yet determined	2015-16	Invasive Control Plan: Other	Defra, Food & Environment Research Agency (FERA), GB Non-native Species Secretariat (NNS)	Defra	Natural England

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>3C</b>	Surveillance of the complex site is recommended, since (generally) it is considered to have a low incidence of INNS, therefore this is important to prevent invasion of species which will severely impact on the site. Identification and rapid response is a valuable tool in control management. Actions include: local biosecurity plans and assessment of delivery mechanisms, and risk of species arrival.	£20,000 per year	2015-16	Partnership agreement: Other	Natural England, National Trust, Voluntary conservation organisation, AONB, Non-government organisation(s), Northumberland Inshore Fisheries Conservation Authority (IFCA)	Natural England	Local Authority(ies), Ports And Harbour Authority(ies), GB Non-native Species Secretariat (NNS), Statutory Nature Conservation Body (SNCB), Statutory Nature Conservation Body (SNCB)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>3D</b>	Review of consents in the light of new activities and change in operations in aquaculture. Increase monitoring and acquisition of evidence to enable Review of Consents.	£20,000	2015 onwards	Regulation: Other	Defra	Natural England	Environment Agency, Northumberland Inshore Fisheries Conservation Authority (IFCA), Centre for Environment, Fisheries and Aquaculture Science (Cefas)

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>3E</b>	Prevent both invasive non-native species and competitive native species affecting designated sites. Understand mechanisms of competition and appropriate management strategies including prevention.	£200,000	2015 onwards	Investigation / Research / Monitoring	Environment Agency, EU LIFE, Natural England, Heritage Lottery Fund (HLF), Voluntary conservation organisation, AONB, Non-government organisation(s), Academic institution(s)	Defra	Defra, Environment Agency, National Trust, Natural England, Ports And Harbour Authority(ies), Landowner(s), Centre for Environment, Fisheries and Aquaculture Science (Cefas), Royal Yachting Association (RYA), Maritime and Coastguard Agency

#### 4 Changes in species distributions

Populations of the qualifying bird species in Lindisfarne SPA, Northumbria Coast SPA, Farnes SPA and Coquet SPA have declined or changed but it is unclear if this is site specific or driven by wider trends in distribution. In Berwickshire & North Northumberland Coast SAC, there have been changes to some species/community compositions on reef (e.g. increases in macroalgae) and mudflats and sandflats not covered by water at low tide (e.g. mMussel subfeature).

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>4A</b>	Understand the impacts, and accrue evidence for management; including understanding anthropogenic and non-anthropogenic factors leading to change in the environment; species competition issues, and linking with invasive non-native species and competitive native species distribution.	£50,000	2015 onwards	Investigation / Research / Monitoring	Natural England, Voluntary conservation organisation, AONB, Non-government organisation(s), Academic institution(s)	Natural England	National Trust, RSPB, University(ies), British Trust for Ornithology (BTO), Consultant



## 5 Predation

Predation on terns by raptors and other predators: kestrel predation on Little terns in Lindisfarne SPA; large gull predation on terns in Coquet SPA and Farnes SPA; and badger, raptor and otter predation on terns in Northumbria Coast SPA.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>5A</b>	Determine a strategy regarding predators in designated sites with vulnerable and sensitive species. Determine the balance of the different prey and predator species and develop the best way to manage predation strategies with regards to 'honey pots'. Robust transparent communication strategies regarding decisions and the decision-making process.	Not yet determined	2015 onwards	Advice	EU LIFE	Natural England	Defra, National Trust, RSPB, Landowner(s), University(ies), Consultant, Site manager(s)

## 6 Coastal squeeze

There is loss of irreplaceable habitat caused by the cumulative effect of small scale impacts resulting from existing and new developments adjacent to Tweed SAC, Berwickshire & North Northumberland Coast SAC, Lindisfarne SPA, Northumbria Coast SPA.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>6A</b>	Provide advice and guidelines to inform Habitat Regulations Assessment with regards to cumulative and in-combination future projects resulting in loss of habitat.	Not yet determined	2015 onwards	Advice	Not yet determined	Natural England	Environment Agency, Northumberland County Council, Marine Management Organisation (MMO)
<b>6B</b>	Research into mitigating strategies for coastal defences (development of structures which minimise, enhance or replace lost habitat).	£100,000	2015 onwards	Investigation / Research / Monitoring	Developer, Environment Agency, Heritage Lottery Fund (HLF)	Natural England	Environment Agency

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>6C</b>	Dune system rollback; Coastal Adaptation Strategy identifying potential roll back areas	£100,000	2015 onwards	Investigation / Research / Monitoring	Developer, Environment Agency, EU LIFE	Northumberland County Council	National Trust, Natural England, Northumberland Coast AONB, Landowner(s)

## 7 Direct impact from third party

Wildlife crime occurs in Lindisfarne SPA, Berwickshire & North Northumberland Coast and Northumberland Coast SPA. There is also dumping of deposits (from dredging, fly tipping and quarrying) in Berwickshire & North Northumberland Coast SAC, and unconsented sea defences and buildings in Berwickshire & North Northumberland Coast SAC and Northumberland Coast SPA.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>7A</b>	Control of unconsented activities, such as dumping, black fishing, and wildlife crime.	Not yet determined	2015 onwards	Enforcement	Other stakeholder(s) contributions	Marine Management Organisation (MMO)	Environment Agency, Natural England, Northumberland County Council, Northumberland Inshore Fisheries Conservation Authority (IFCA), Northumberland Wildlife Trust, Northumbria Police

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>7B</b>	Raise awareness of protected sites.	Not yet determined	2015 onwards	Advice: Education & awareness raising	Natural England, Non-government organisation(s)	Natural England	Environment Agency, Local Authority(ies), National Trust, Northumberland Coast AONB, Northumberland County Council, Northumberland Wildlife Trust, Northumbria Police, RSPB, Volunteers, Marine Management Organisation (MMO)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>7C</b>	Identify key partners. Develop strategy/ protocol of key delivery organisations for various direct impacts caused by unconsented activities.	Staff time	2015 onwards	Partnership agreement	Staff time	Northumberland County Council	Environment Agency, Local Authority(ies), National Trust, Northumberland Coast AONB, Northumberland County Council, Northumberland Wildlife Trust, Northumbria Police, RSPB, Volunteers, Marine Management Organisation (MMO)

## 8 Transportation and service corridors

The access road (a hard structure) for Holy Island (Lindisfarne) affects sediment transport and impacts on the features directly adjacent within the Berwickshire & North Northumberland Coast SAC. This can directly affect the birds through changes in food availability caused by changes in sediment.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>8A</b>	Investigate the impact of causeway on SAC features and consider future road design.	£30,000	2015 onwards	Investigation / Research / Monitoring	Developer, Academic institution(s)	Natural England	University(ies), Consultant

## 9 Change in land management

The issue affects a number of features in a number of sites in localised, small scale areas and could have large implications that are difficult to predict. Changes in agricultural practices could potentially increase diffuse pollution and affect bird usage and available roosts in the hinterland of the Lindisfarne SPA. Changes in vegetation management in the Farnes SPA and the Coquet SPA could impact on birds since these require specific vegetation characteristics. Changes in land management could cause diffuse pollution and increase sedimentation in the Berwickshire & North Northumberland Coast SAC.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>9A</b>	Understand the impacts and accrue evidence for management. Areas to investigate include: large-scale change in practice; and effects of adaptive management strategies.	£50,000	2015 onwards	Investigation / Research / Monitoring	Environment Agency, Natural England, Voluntary conservation organisation, AONB, Non-government organisation(s), Academic institution(s)	Natural England	University(ies), Consultant

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>9B</b>	Renegotiate existing management schemes for future management to protect a site.	£10,000 per HLS agreement	2015 onwards	Major Landowner Group land ownership activities : Undertake Specific Management Works	Environment Agency, National Trust, Higher Level Stewardship (HLS), AONB, Non-government organisation(s)	Natural England	Agreement holder(s)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>9C</b>	For areas outside agri-environment schemes, develop targeted advice.	Not yet determined	2015 onwards	Advice: Negotiation	Defra	Natural England	Landowner(s)

**10 Air Pollution: risk of atmospheric nitrogen deposition**

Increase of the nutrient base of nutrient impoverished dune systems accelerates succession (North Northumberland Dune SAC). Air pollution will cause shifts in species communities. Nitrogen deposition exceeds the site-relevant critical load for ecosystem protection and hence there is a risk of harmful effects, but the sensitive features are currently considered to be in favourable condition on the site. This requires further investigation.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>10A</b>	Further investigate potential atmospheric nitrogen impacts on the site based on application of guidance from Chief Scientist Group Nitrogen Task and Finish Group.	Not yet determined	2015-18	Site Nitrogen Action Plan	Not yet determined	Natural England	Not yet determined

## 11 Public Access/Disturbance

The area of risk of disturbance from dog walkers and other human activity can be very narrow along paths and concentrated in other particularly favoured locations, but the impacts can be significant caused by this enrichment of the dunes.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>11A</b>	Raise awareness amongst the public and dog walkers by providing signage and Codes of Conduct.	£15,000	2015 onwards	Partnership agreement	Natural England, Voluntary conservation organisation, AONB, Non-government organisation(s)	Local partnership	Local Authority(ies), National Trust, Natural England, Northumberland Coast AONB, Volunteers

## 12 Fisheries: Commercial marine and estuarine

Dredges (inc. hydraulic), benthic trawls and seines and shore-based activities are categorised as 'Red' for these interest features (and specifically the sub-features: Eelgrass communities; Subtidal faunal turf communities) as part of Defra's revised approach to commercial fisheries management in EMSs, and requisite mechanisms are being or will be implemented by NIFCA

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>12A</b>	For red activities, once management measures are established to protect the feature, on-going work will be required by the NIFCA to ensure compliance and an appropriate level of reporting to ensure sites are well managed and to enable Natural England to provide advice on the condition of features and potential condition threats.	Not yet determined	2015	Enforcement	Other stakeholder(s) contributions	Northumberland Inshore Fisheries Conservation Authority (IFCA)	Natural England, Marine Management Organisation (MMO)

### 13 Fisheries: Commercial marine and estuarine

Commercial fishing activities such as potting categorised as 'amber or green' under Defra's revised approach to commercial fisheries in EMSs require assessment and (where appropriate) management. This assessment will be undertaken by NIFCA. For activities categorised as 'green', these assessments should take account of any in-combination effects of amber activities, and/or appropriate plans or projects, in the site.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>13A</b>	Where the assessments for Green/Amber activities indicate management is required, appropriate measures will be introduced by the NIFCA. If management measures are established, ongoing work will be required by Northumberland IFCA to ensure compliance and an appropriate level of reporting to ensure sites are well managed and to enable Natural England to provide advice on the condition of features and potential condition threats. (Potting)	£40,000	2016	Investigation / Research / Monitoring	Natural England, Marine Management Organisation (MMO), Northumberland Inshore Fisheries Conservation Authority (IFCA)	Northumberland Inshore Fisheries Conservation Authority (IFCA)	n/a
<b>13B</b>	Where the assessments for Green/Amber activities indicate management is required, appropriate measures will be introduced by the NIFCA. If management measures are established, ongoing work will be required by Northumberland IFCA to ensure compliance and an appropriate level of reporting to ensure sites are well managed and to enable Natural England to provide advice on the condition of features and potential condition threats. Recreational activities (bait collection, hand gathering)	£40,000	2016	Investigation / Research / Monitoring	Natural England, Marine Management Organisation (MMO), Northumberland Inshore Fisheries Conservation Authority (IFCA)	Northumberland Inshore Fisheries Conservation Authority (IFCA)	n/a

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>13C</b>	Where the assessments for Green/Amber activities indicate management is required, appropriate measures will be introduced by the NIFCA. If management measures are established, ongoing work will be required by Northumberland IFCA to ensure compliance and an appropriate level of reporting to ensure sites are well managed and to enable Natural England to provide advice on the condition of features and potential condition threats. Netting (different types)	£30,000	2016	Investigation / Research / Monitoring	Natural England, Marine Management Organisation (MMO), Northumberland Inshore Fisheries Conservation Authority (IFCA)	Northumberland Inshore Fisheries Conservation Authority (IFCA)	n/a
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>13D</b>	Where the Green/ Amber process leads to appropriate management it will be necessary to monitor the effects and determine the validity of the new management approaches regarding condition of features.	£40,000	2017 onwards	Investigation / Research / Monitoring	Natural England, Marine Management Organisation (MMO), Northumberland Inshore Fisheries Conservation Authority (IFCA)	Northumberland Inshore Fisheries Conservation Authority (IFCA)	n/a



## Site details

The tables in this section contain site-relevant contextual information and links

### Qualifying features

#UK Special responsibility

<b>Berwickshire &amp; North Northumberland Coast SAC</b>	S1364 <i>Halichoerus grypus</i> : Grey seal
	H1140 Mudflats and sandflats not covered by seawater at low tide
	H1160 Large shallow inlets and bays
	H8330 Submerged or partially submerged sea caves
	H1170 Reefs
<b>Coquet Island SPA</b>	A191(B) <i>Sterna sandvicensis</i> : Sandwich tern
	A192(B) <i>Sterna dougallii</i> : Roseate tern
	A193(B) <i>Sterna hirundo</i> : Common tern
<b>Farne Islands SPA</b>	A194(B) <i>Sterna paradisaea</i> : Arctic tern
	A191(B) <i>Sterna sandvicensis</i> : Sandwich tern
	A193(B) <i>Sterna hirundo</i> : Common tern
<b>Lindisfarne SPA</b>	A194(B) <i>Sterna paradisaea</i> : Arctic tern
	A137(NB) <i>Charadrius hiaticula</i> : Ringed plover
	A140(NB) <i>Pluvialis apricaria</i> : European golden plover
	A141(NB) <i>Pluvialis squatarola</i> : Grey plover
	A149(NB) <i>Calidris alpina alpina</i> : Dunlin
A144(NB) <i>Calidris alba</i> : Sanderling	
A192(B) <i>Sterna dougallii</i> : Roseate tern	

A195(B) *Sterna albifrons*: Little tern

A157(NB) *Limosa lapponica*: Bar-tailed godwit

A162(NB) *Tringa totanus*: Common redshank

A038(NB) *Cygnus cygnus*: Whooper swan

A043a(NB) *Anser anser*: Greylag goose

A046c(NB) *Branta bernicla hrota*: Light-bellied brent goose

A048(NB) *Tadorna tadorna*: Common shelduck

A050(NB) *Anas penelope*: Eurasian wigeon

A063(NB) *Somateria mollissima*: Common eider

A064(NB) *Clangula hyemalis*: Long-tailed duck

A065(NB) *Melanitta nigra*: Black (common) scoter

A069(NB) *Mergus serrator*: Red-breasted merganser

#### North Northumberland Dunes SAC

S1395 *Petalophyllum ralfsii*: Petalwort

H2110 Embryonic shifting dunes

H2120 Shifting dunes along the shoreline with *Ammophila arenaria* ("white dunes")

H2130# Fixed dunes with herbaceous vegetation ("grey dunes")

H2190 Humid dune slacks

H2170 Dunes with *Salix repens ssp argentea* (*Salicion arenariae*)

#### Northumbria Coast SPA

A148(NB) *Calidris maritima*: Purple sandpiper

A195(B) *Sterna albifrons*: Little tern

A169(NB) *Arenaria interpres*: Ruddy turnstone

#### Tweed Estuary SAC

H1130 Estuaries

S1095 *Petromyzon marinus*: Sea lamprey

H1140 Mudflats and sandflats not covered by seawater at low tide  
S1099 *Lampetra fluviatilis*: River lamprey

## Site location and links

### **Berwickshire & North Northumberland Coast SAC**

Area (ha) **65045.5**      Grid reference **NU206401**      [Map link](#)

Local Authorities      Northumberland; Scottish Borders

Site Conservation Objectives      [Berwickshire and North Northumberland Coast EMS](#)

European Marine Site conservation advice      [Berwickshire and North Northumberland Coast EMS](#)

Regulation 33/35 Package      [Regulation 33/35 package link](#)

Marine Management Organisation site plan      [n/a](#)

### **Coquet Island SPA**

Area (ha) **22.28**      Grid reference **NU294047**      [Map link](#)

Local Authorities      Northumberland

Site Conservation Objectives      [European Site Conservation Objectives for Coquet Island SPA](#)

European Marine Site conservation advice      [n/a](#)

Regulation 33/35 Package      [n/a](#)

Marine Management Organisation site plan      [n/a](#)

### **Farne Islands SPA**

Area (ha) **101.86**      Grid reference **NU221364**      [Map link](#)

Local Authorities      Northumberland

Site Conservation Objectives      [European Site Conservation Objectives for Farne Islands SPA](#)

European Marine Site conservation advice      [n/a](#)

Regulation 33/35 Package      [n/a](#)

Marine Management Organisation site plan      [n/a](#)

### **Lindisfarne SPA**

Area (ha) **3679.22**      Grid reference **NU102422**      [Map link](#)  
Local Authorities      Northumberland  
Site Conservation Objectives      [European Site Conservation Objectives for Lindisfarne SPA](#)  
European Marine Site conservation advice      [n/a](#)  
Regulation 33/35 Package      [Regulation 33/35 package link](#)  
Marine Management Organisation site plan      [n/a](#)

### **North Northumberland Dunes SAC**

Area (ha) **1147.56**      Grid reference **NU126435**      [Map link](#)  
Local Authorities      Northumberland  
Site Conservation Objectives      [European Site Conservation Objectives for North Northumberland Dunes SAC](#)  
European Marine Site conservation advice      [n/a](#)  
Regulation 33/35 Package      [n/a](#)  
Marine Management Organisation site plan      [n/a](#)

### **Northumbria Coast SPA**

Area (ha) **1107.98**      Grid reference **NU260193**      [Map link](#)  
Local Authorities      Durham; North Tyneside; Northumberland; South Tyneside; Sunderland  
Site Conservation Objectives      [European Site Conservation Objectives for Northumbria Coast SPA](#)  
European Marine Site conservation advice      [Northumbria Coast EMS](#)  
Regulation 33/35 Package      [Regulation 33/35 package link](#)  
Marine Management Organisation site plan      [n/a](#)

### **Tweed Estuary SAC**

Area (ha) **155.93**      Grid reference **NT993531**      [Map link](#)  
Local Authorities      Northumberland  
Site Conservation Objectives      [European Site Conservation Objectives for Tweed Estuary SAC](#)  
European Marine Site conservation advice      [n/a](#)  
Regulation 33/35 Package      [n/a](#)  
Marine Management Organisation site plan      [n/a](#)

## Water Framework Directive (WFD)

The Water Framework Directive (WFD) provides the main framework for managing the water environment throughout Europe. Under the WFD a management plan must be developed for each river basin district. The River Basin Management Plans (RBMP) include a summary of the measures needed for water dependent Natura 2000 sites to meet their conservation objectives. For the second round of RBMPs, SIPs are being used to capture the priorities and new measures required for water dependent habitats on Natura 2000 sites. SIP actions for non-water dependent sites/habitats do not form part of the RBMPs and associated consultation.

### **Berwickshire & North Northumberland Coast SAC**

<i>River basin</i>	<a href="#">Northumbria RBMP</a>
<i>WFD Management catchment</i>	Northumberland Rivers
<i>WFD Waterbody ID (Cycle 2 draft)</i>	GB103021073222, GB103021073240, GB103022076360, GB103022076370, GB103022076411, GB103022076480, GB103022076490, GB103022077070, GB103022077080

### **Coquet Island SPA**

<i>River basin</i>	<a href="#">Northumbria RBMP</a>
<i>WFD Management catchment</i>	Northumberland Rivers
<i>WFD Waterbody ID (Cycle 2 draft)</i>	n/a

### **Farne Islands SPA**

<i>River basin</i>	<a href="#">South West RBMP</a>
<i>WFD Management catchment</i>	n/a
<i>WFD Waterbody ID (Cycle 2 draft)</i>	n/a

### **Lindisfarne SPA**

<i>River basin</i>	<a href="#">Northumbria RBMP</a>
<i>WFD Management catchment</i>	Northumberland Rivers
<i>WFD Waterbody ID (Cycle 2 draft)</i>	GB103021073222, GB103021073240, GB103022076411, GB103022076480, GB103022076490

### **North Northumberland Dunes SAC**

<i>River basin</i>	<a href="#">Northumbria RBMP</a>
<i>WFD Management catchment</i>	Northumberland Rivers
<i>WFD Waterbody ID (Cycle 2 draft)</i>	GB103021073222, GB103021073240, GB103022076400, GB103022076490, GB103022077070

### **Northumbria Coast SPA**

<i>River basin</i>	<a href="#">Northumbria RBMP</a>
<i>WFD Management catchment</i>	Northumberland Rivers, Wear

*WFD Waterbody ID (Cycle 2 draft)* GB103022076360, GB103022077070, GB103025075970

**Tweed Estuary SAC**

*River basin* [Solway Tweed RBMP](#)

*WFD Management catchment* Tweed

*WFD Waterbody ID (Cycle 2 draft)* n/a

## Overlapping or adjacent protected sites

Site(s) of Special Scientific Interest (SSSI)	
<b>Berwickshire &amp; North Northumberland Coast SAC</b>	Howick to Seaton Point SSSI Lindisfarne SSSI The Farne Islands SSSI Newton Links SSSI Castle Point to Cullernose Point SSSI Bamburgh Dunes SSSI Northumberland Shore SSSI Bamburgh Coast & Hills SSSI
<b>Coquet Island SPA</b>	Coquet Island SSSI
<b>Farne Islands SPA</b>	The Farne Islands SSSI
<b>Lindisfarne SPA</b>	Bamburgh Coast & Hills SSSI Lindisfarne SSSI Northumberland Shore SSSI
<b>North Northumberland Dunes SAC</b>	Warkworth Dunes & Saltmarsh SSSI Bamburgh Coast & Hills SSSI Newton Links SSSI Bamburgh Dunes SSSI Northumberland Shore SSSI Alnmouth Saltmarsh & Dunes SSSI Lindisfarne SSSI
<b>Northumbria Coast SPA</b>	Lindisfarne SSSI Northumberland Shore SSSI Bamburgh Dunes SSSI Castle Point to Cullernose Point SSSI Newton Links SSSI

	Hadston Links SSSI
	Durham Coast SSSI
	Howick to Seaton Point SSSI
	Bamburgh Coast & Hills SSSI
	Tynemouth to Seaton Sluice SSSI
<b>Tweed Estuary SAC</b>	Tweed Catchment Rivers - England: Lower Tweed and Whiteadde SSSI

### National Nature Reserve (NNR)

<b>Berwickshire &amp; North Northumberland Coast SAC</b>	Farne Islands NNR
	Lindisfarne NNR
<b>Coquet Island SPA</b>	n/a
<b>Farne Islands SPA</b>	Farne Islands NNR
<b>Lindisfarne SPA</b>	Lindisfarne NNR
<b>North Northumberland Dunes SAC</b>	Lindisfarne NNR
<b>Northumbria Coast SPA</b>	Durham Coast NNR
<b>Tweed Estuary SAC</b>	n/a

### Ramsar

<b>Berwickshire &amp; North Northumberland Coast SAC</b>	Lindisfarne
	Northumbria Coast
<b>Coquet Island SPA</b>	n/a
<b>Farne Islands SPA</b>	n/a
<b>Lindisfarne SPA</b>	Lindisfarne
<b>North Northumberland Dunes SAC</b>	Lindisfarne
	n/a
	Northumbria Coast
<b>Northumbria Coast SPA</b>	Lindisfarne
	Northumbria Coast
<b>Tweed Estuary SAC</b>	n/a



## Special Areas of Conservation (SAC) and Special Protection Areas (SPA)

<b>Berwickshire &amp; North Northumberland Coast SAC</b>	Northumbria Coast SPA Lindisfarne SPA Farne Islands SPA
<b>Coquet Island SPA</b>	n/a
<b>Farne Islands SPA</b>	n/a
<b>Lindisfarne SPA</b>	Berwickshire & North Northumberland Coast SAC North Northumberland Dunes SAC Berwickshire & North Northumberland Coast SAC
<b>North Northumberland Dunes SAC</b>	Northumbria Coast SPA Lindisfarne SPA
<b>Northumbria Coast SPA</b>	North Northumberland Dunes SAC Durham Coast SAC Berwickshire & North Northumberland Coast SAC
<b>Tweed Estuary SAC</b>	n/a

<i>Version</i>	<i>Date</i>	<i>Comment</i>
1.0	29/04/2015	

[www.naturalengland.org.uk/ipens2000](http://www.naturalengland.org.uk/ipens2000)

