# Appropriate Assessment Stage 2 of South Lakeland District Council's Core Strategy APPENDICES

Prepared for: South Lakeland District Council

By:

Treweek Environmental Consultants

Issue 2

Prepared by: Orlando Venn

Reviewed by: Jo Treweek

Date: 08.07.09

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#### APPENDIX 1. LOCATIONS OF EUROPEAN SITES EXAMINED IN THE SCREENING STAGE





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Figure 3. Ramsar Sites

# APPENDIX 2: APPROPRIATE ASSESSMENT IMPACT MATRICES FOR SOUTH LAKELAND CORE STRATEGY

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#### MORECAMBE BAY SAC

Name and location	Morecambe Bay	<ul> <li>Site extends</li> </ul>	s from Fleetwood in Lanc	ashire across to Millom in Cumbria, incorporating
	the estuaries of the Lune, Duddon, Keer, Kent and Leven			
Distance from plan area	Partly within plan	area		
Reason(s) for designation	Annex I habitats for which site designated SAC			
	<ul> <li>Estuaries</li> </ul>	3		
	<ul> <li>Mudflats</li> </ul>	and sandflats	not covered by seawate	r at low tide
	<ul> <li>Large sha</li> </ul>	allow inlets an	d bays	
	<ul> <li>Perennial vegetation of stony banks</li> </ul>			
	<ul> <li>Salicornia</li> </ul>	a and other ar	nuals colonising mud an	id sand
	Atlantic s	alt meadows	(Glauco-Puccinellietalia i	maritimae)
	<ul> <li>Shifting c</li> </ul>	lunes along th	e shoreline with Ammop	hila arenaria ('white dunes')
	<ul> <li>Fixed dur</li> </ul>	nes with herba	aceous vegetation ('grey	dunes')
	<ul> <li>Humid du</li> </ul>	une slacks		
Conservation objectives	Subject to natura	I change, to m	aintain, in favourable co	ndition, the structure and function of the habitats for
	which the sites de	esignated		
Requirements to maintain favourable condi	tion status of site		Key factors affecting	site integrity
<ul> <li>Maintained structure and function of has</li> </ul>	abitats for which the	e sites	<ul> <li>Good water qu</li> </ul>	ality
designated	designated    No change in land use, habitat loss or fragmentation		and use, habitat loss or fragmentation	
No decrease in extent of habitats     The absence or control of invasive or introduced species		r control of invasive or introduced species		
Lack of disturbance or erosion from tourism and recreation		ance or erosion from tourism and recreation.		
			<ul> <li>Appropriate ma</li> </ul>	anagement, including grazing, mowing, vegetation
			clearance, burr	ning at an appropriate level, low nutrient input
			<ul> <li>Other potential</li> </ul>	threats include: commercial fisheries, aggregate
			extraction, gas	exploration, adverse effects on interest features as
			a result of coas	stal and flood defences.
Assessment of significance of effects:		Deceible off	a sta in a suchination	Ashrono Effect en intermite
nature of LSE Identified at the sc	reening stage	Possible en	ects in combination	Adverse Effect on integrity
Tourism and Scrooping identified that	isolated parts of	Support for it	aris and policies	Possible adverse offect on integrity (AEOI)
recreational the site away from settler	Isolated parts of Support for Increasing numbers of		Tourism Stratogy for	mitigation required
nressures receive increasing visitor	ve increasing visitors and damage as Cumbria and NW D		NW RSS may add to	
a result NE have stated	pressures receive increasing visitors and damage as Cullibilita di		Although both call for	There is a risk that the incidence of damage to the
are needed to ensure ap	propriate parking	improved infi	rastructure for the	site will be exacerbated through an increase in
facilities at sensitive sites	such as	visitor econo	my and for all activity	local population and tourism. Although the core of

	Humphrey Head to ensure that vehicles are not used illegally on intertidal areas. There is still a risk that the CS may increase this problem. The core strategy allocates a similar quantum of new houses to the Cartmel Peninsula and Ulverston and so a rise in people living near these sensitive areas is expected.	related to tourism and the visitor economy to be based on the principles of sustainable development. The Morecambe Bay Strategy encourages the promotion of tourism and recreational around the Bay but recognises the conflicts between increasing recreation and protection the environmental suggests measures need to be taken to avoid deterioration and adverse effects on the European site.	the problem is from illegal vehicle use on the foreshore and the incidences of this do not directly relate to growth in housing and developments envisaged through the Core Strategy. Interpretation should be provided to encourage visitors to understand the special features of the protected sites. Responsible recreational use should be encouraged through positive information provision.
Changes to water levels, turbidity, reduced water quality and reduction in habitat extent	Not an issue identified at screening as this has been added following consultation on preferred options. Policy CS8.7 'Sustainable Construction, Energy Efficiency and Renewable Energy' updates the Preferred Options document by introducing a policy which supports nuclear and renewable energy generation. The Policy supports development of tidal schemes which will most definitely affect the habitat extent if developed in Morecambe Bay. The development of offshore windfarms could also have adverse effects depending on location and details of the project.	All Regions are currently supporting renewable energy in their RSSs, in line with the aspirations of the UK government. In the North West region there are already a significant number of energy projects that are operational, under construction, with planning permission, or under consideration. Bridge across Morecambe Bay and Solway Energy Gateway and Mersey Barrage have all been suggested as tidal schemes	AEOI – the policy does not name projects or locations but mitigation required.
Mitigation proposed.	<b>Tourism and recreational pressures.</b> Mitigation delivered to a degree through CS and CS8.5 (Coast). Access to the beach an Morecambe Bay Strategy and the solutions be referenced. The recommendations here handling capacity at sites without adverse e understand the special features of the protect	8.3b (Quantity Of Open Space, Sport And foreshore needs to be controlled to perform the basis for discussion with form the basis for discussion with form the basis for discussion with forces. For example, better interpretation discussion and stress are better sites. Responsible recreational use	And Recreation), CS8.4 Biodiversity & Geodiversity prevent damage to habitats and disturbance. The commended there (e.g. zoning of activities) need to h developers on what is needed to increase on should be provided to encourage visitors to se should be encouraged through positive

	information provision. Natural England need to be involved in these discussions and delivery on the ground.
	Changes to water levels, turbidity, reduced water quality and reduction in habitat extent/ impacts from renewable energy infrastructure: Add addition text to CS7.7 to recognise the international importance of much of the coastline and upland areas and to highlight that Projects should avoid significant adverse effects on sites of international nature conservation importance by assessment under the Habitats Regulations.
Comments from	Confirmed results of assessment – no additional comments
Natural England and Environment Agency	
Mitigation	Tourism and recreational pressures.
incorporated into the Core Strategy	Reference to assessing the effects of increased visitors, solutions to managing disturbance proposed in the Morecambe Bay Strategy and need to engage with Natural England have been added to Policy CS8.4 (Biodiversity & Geodiversity) and Policy CS8.5 Coast. The Core Strategy now supports stricter mitigation measures in terms of zoning and byelaw enforcement to protect Morecombe Bay SAC through the addition of specific text in CS8.5
	Changes to water levels, turbidity, reduced water quality and reduction in habitat extent/ impacts from renewable energy infrastructure: Suggested text added to CS7.7.

Location of Morecambe Bay SAC. Images © MAGIC.



## MORECAMBE BAY PAVEMENTS SAC

Name and location		Morecambe Bay Pavements			
Rance and location	anation	Appoy L babitate	Annov I babitate that are a primary reason for selection of this site:		
Reason(s) for desig	griation		A Hard aliga magatrophic waters with bonthic vagatation of Chara spo		
			o-mesouopi	file waters with bentfile ve	
		Juniperu	s communis	formations on neaths or	calcareous grassiands
		Semi-nat	ural dry gras	sslands and scrubland fa	cies: on calcareous substrates ( <i>Festuco-</i>
		Brometal	ia)		
		<ul> <li>Limestor</li> </ul>	Limestone pavements		
		<ul> <li>Tilio-Ace</li> </ul>	rion forests	of slopes, screes and rav	vines
		<ul> <li>Taxus ba</li> </ul>	accata wood	s of the British Isles	
		Annex I habitats	present as a	qualifying feature; for w	hich site designated SAC:
		<ul> <li>Europear</li> </ul>	n dry heaths	•	
		Calcareo     Halswate	us fens with er. Lancaster	Cladium mariscus and s	species of the Caricion davallianae (found at
		<ul> <li>Old sess</li> </ul>	ile oak wood	, Is with <i>llex</i> and <i>Blechnur</i>	n in the British Isles
		Annex II species	that are a p	rimary reason for selection	on of this site:
		<ul> <li>Narrow-r</li> </ul>	nouthed who	orl snail Vertigo angustio	r (found at Gait Barrows, Lancaster).
Conservation obje	ctives	Subject to natural change to maintain the habitats and geological features in favourable condition (*)			d geological features in favourable condition (*).
-	with particular reference to any dependent component special interest features.			t special interest features.	
	To maintain the surface Karst, Limestone pavement, calcareous grassland, woodland and Juniperus		calcareous grassland, woodland and Juniperus		
communis habitat at this site in favourable condition, with particular reference to relevant specifi		with particular reference to relevant specific			
		designated interest features.			
Requirements to m	aintain favourable condi	tion status of site		Key factors affecting	site integrity
Maintained	Maintained structure and function of habitats for which the sites		e sites	<ul> <li>Appropriate lan</li> </ul>	nd management
designated				<ul> <li>Low nutrient in</li> </ul>	put
No loss in h	abitat extent			<ul> <li>Limited air pollu</li> </ul>	ution
Assessment of sig	ment of significance of effects:				
Nature of	LSE identified at the sc	reening stage	Possible e	effects in combination	Effect on integrity
potential impact	and potential adverse e	ffect of the CS	with other	plans and policies	
Damage to plant	The part of the site to the	West of Kendal	Majority of	pressure at site from	There is a risk of adverse effect on integrity. It is
communities	receives high visitor num	umbers mostly local residents' dog walking.		ents' dog walking.	impossible to say with certainly how many of the
	parking at Scout Scar. Th	parking at Scout Scar. This is resulting in Other users of the site may		s of the site may	new residents will use the site on a regular basis
	localised erosion from tra	mpling and	increase as	s the Cumbria Tourism	and how this translates to impact on the site. A
	pollution from dog facies.	The screening	Strategy ar	nd RSS prompt an	21% increase in homes in Kendal by 2026 may

	identified that further housing on the West of Kendal (PO11) is likely to exacerbate this issue. The Core Strategy maintains a similar increase in housing in Kendal which represents a 21% in total housing stock by 2025. The core strategy does not indicate where in Kendal this housing should go in the same way as the PO document so it is more difficult to try and assess how many extra homes will be sited on the West of Kendal. However, as it appears that most of the users of Scout Scar travel there by car they could easily make the journey from any location in Kendal.	increase in tourism. The site is easy to access and the car park advertised. The agricultural management regime has been cited as the main issue to be addressed. The new management agreements should restore the SSSI at least to a favourable condition	result in increased visitors at the site and Scout Scar in particular. Mitigation should be taken to minimise the risk and so that the plan actively objectives to improving conditions at this European site and securing its viability in the long term.
Mitigation	It will be impossible to altogether avoid add	itional recreational impacts through c upport is given to outdoor recreation	hanges to the Core Strategy, unless 1. no Neither is acceptable nationally. As such the best
b. ch . c	the core strategy can do is mitigate recreati	onal impacts.	
	Possible mitigation measures are access m CS8.3b should help to reduce an increase i existing residents. In addition, some of the money from develo European sites) where maintenance and im Access management possibilities could incl	anagement, habitat management an n daily numbers to the site by providi per contributions should be allocated provements are needed. This could ude fencing to close of parts of the s	d provision of alternative recreational space. Ing locally accessible open space for new and I to improving existing open space (including at be added to policy CS8.3b or policy CS8.4. ite. Habitat management might include surfacing
	and maintenance of paths. Provision of site measures are difficult to deliver with certain	s and dog bins to encourage walkers ty through the Core Strategy but the	to remove dog faeces would help. All these issue should be highlighted.
Comments from Natural England and Environment Agency	Confirmed results of assessment – no addit	ional comments	
Mitigation incorporated into the Core Strategy	Text has been added to CS8.3b to require of And the issue of visitor pressure on Europe	developers to improve existing open an sites and the need to assess it ha	space. s been incorporated within CS8.4





#### **RIVER KENT SAC**

Name and location	l	River Kent SAC			
Reason(s) for desi	gnation	Annex I habitats pr • Water cour vegetation Annex II species th • White-claw Annex II species pr • Freshwate • Bullhead C Subject to natural c	<ul> <li>Innex I habitats present as a qualifying feature, but not a primary reason for selection of this site:         <ul> <li>Water courses of plain to montane levels with the <i>Ranunculion fluitantis</i> and <i>Callitricho-Batrachion</i> vegetation</li> <li>Innex II species that are a primary reason for selection of this site:             <ul></ul></li></ul></li></ul>		
-		which the sites des	signated and fo	or the Annex II species for	or which site designated
Requirements to m	naintain favourable condi	tion status of site		Key factors affecting	site integrity
Maintained     designated	<ul> <li>Maintained structure and function of habitats for which the s designated</li> </ul>		<ul> <li>The absence of invasive non-native species, non-native fish species, parasites and diseases, particularly signal crayfish, and individuals infected with crayfish plague</li> <li>Good water and habitat quality – all water discharges should ensure favourable condition targets for water quality, flow and habitat quality are maintained</li> <li>Adequate water supply to streams and margins -Water abstractions should ensure favourable condition targets for water quality. flow and habitat quality flow and habitat are maintained</li> </ul>		of invasive non-native species, non-native fish ites and diseases, particularly signal crayfish, and cted with crayfish plague d habitat quality – all water discharges should able condition targets for water quality, flow and are maintained er supply to streams and margins -Water hould ensure favourable condition targets for water d habitat are maintained
Assessment of sig	nificance of effects:				
Nature of potential impact	LSE identified at the sc potential adverse effect	reening stage and tof the CS	Possible eff with other p	ects in combination lans and policies	Effect on integrity
Appropriate water levels	The screening report ider development in South La surrounding area may lea abstractions from the Riv particular concern was th abstraction needed for th Kendal Canal Head. Lower water levels in the adversely affect white-cla populations and populatio	ntified that further keland and ad to unsustainable er Kent. Of e potential e restoration of the River Kent could wed crayfish ons of freshwater	The Draft RS new homes ( replacement to 2021 (Poli resources ex Utilities inclu Lake District Wales (more (25%); and g 9%).	SS provides for 411,160 (net of clearance ) over the period 2003 icy L4). Water coloited by United de reservoirs in the , Pennines and North e than 66%); rivers groundwaters (less than	South Lakeland DC have confirmed that United Utilities do not take water from the River Water for public water supply. An increase in homes, offices will not increase the draw of water from this resource. No AEOI The question of whether abstraction from the River Kent has an adverse effect is being explored through the AAP. The EA have stated that the water resources modelling carried out for the Draft Appropriate Assessment of the Kendal

	<ul> <li>pearl mussels - affected by reduced flows both directly (changes in extent of bed and type of substrate) and indirectly (through changes in brown trout on which the mussels depend);</li> <li>With regards to abstraction of water for public water supply, further information has been obtained that Kendal receives its water from Haweswater Reservoir and Thirlmere Reservoirs in the Lake District. So an increase in homes in Kendal won't lead to an increase in abstraction from the River Kent to feed domestic demand.</li> <li>The impact of the possible abstraction for development of the 'Restoration of the Northern Reaches of the Lancaster Canal' (RNRLC) is still being assessed and explored further amongst Consultees and tested in the production of the AAP. This may have an adverse effect on integrity</li> </ul>	The CAMS currently states that the majority of the River Kent has a 'water available' status, however under the Habitats Directive, abstraction licences are under current review, and these statuses may alter. The Review of Consent process operated by the Environment Agency should help ensure the abstractions and discharges consented do not adversely affect the integrity of the Kent River SAC	Canal Head AAP and Phase 1 RNRLC is insufficient and further work is needed to establish the effects. We cannot conclude No AEOI. Change are needed to the Core Strategy
Water pollution	The screening report identified that the increases in housing in Kendal may put pressure on the existing wastewater treatment works. The proposal to discharge water from Kendal Canal Head to the River Kent SAC may also have adverse impacts on water quality, flow and habitats The Core Strategy allocates a similar number of homes for Kendal. The EA have set out there concerns regarding sewer capacity at Kentrigg Walk, Steeles Row in Burneside, with general sewer capacity in Kendal and with the capacity of the Waste water Treatment Works (WwTW).	Other agriculture and private discharges into the River Kent. The Review of Consent process operated by the Environment Agency should help ensure the abstractions and discharges consented do not adversely affect the integrity of the Kent River SAC. Other development in Kendal which could potentially lead to an increase polluted surface water runoff River Kent K-village site and Beezon Road site.	We cannot conclude no AEOI – mitigation needed.

Introduced or invasive species, non-native fish species, parasites and diseases	The PO document supported the regeneration of the Canal Head Area including the restoration of the former canal. Natural England stated their concerns regarding the potential spread of signal crayfish and associated plague from the Lancaster Canal to the River Kent. Once the former canal is restored, introduction of signal crayfish could come from terrestrial migration or water discharge, while the plague could come from recreational user accidentally carrying infected water between the two water bodies. Water transfer or discharge from the canal to the River Kent may also carry non-native fish species, parasites and diseases that may effect or infect Bullhead <i>Cottus gobio</i> and the host Salmonids that are necessary for the Mussel's parasitic larvae. The Core Strategy now contains less reference to the RNRLC and the focus in on the regeneration of the Kendal Canal Head Areas with will be explored through the AAP. However that are still reference to canal being restored.	The Kendal Canal Head AAP sets out the details of the regeneration scheme – this is likely to include restoration of the canal and may require abstraction from and discharge to the river.	RNRLC is likely to increase the risk of introduction of signal crayfish and crayfish plague. Introduction of signal crayfish to an area with white-clawed crayfish typically results in 100% mortality of white-clawed crayfish It is not possible to conclude no AEOI whilst the core strategy supports the development of this untested option.
Mitigation proposed.	Water quantity and issues regarding Introduced or invasive species           To remove the ambiguity that the Core Strategy is providing consent for the canal restoration, the text under CS2 that refers to regeneration of this area should refer simply to the regeneration of the 'Kendal Canal Head area' and not the restoration of the cana           If support for the RNRLC is removed from the Core Strategy and only the regeneration of the area backed then is issue and tall the		storation, the text under CS2 that refers to Head area' and not the restoration of the canal.
alternatives can be appropriately tested through the AAP. Water quality issues related to sewage capacity			
	<ul> <li>Until the problems at Kentrigg Walk and Stee</li> <li>No further development above these</li> </ul>	les Row Burneside are resolved the co sewer bottlenecks that adds additional	re strategy needs to set out that there should be: flow to the sewer above these bottlenecks.

	<ul> <li>For the general sewage capacity and the capacity of the WwTW, until UU can demonstrate that further development can be accommodated the Core Strategy should: <ul> <li>Make clear the need for new waste-water treatment infrastructure;</li> <li>Emphasise the need for development to incorporate sustainable drainage systems; and</li> </ul> </li> <li>Emphasise the timing implications associated with the provision of new resource infrastructure, and consequent implications for the phasing of new housing and other development.</li> </ul>
Comments from Natural England and Environment Agency	Also add reference to the potential for the introduction of non-native fish species, parasites and diseases to the River Kent – This has been included.
Mitigation incorporated into the Core Strategy	Water quantity and issues regarding Introduced or invasive species Suitable information added to supporting text under CS2 to make clear that the Core Strategy does not consent the development of the canal and that issues including the adverse effects on the SAC mean that alternatives to canal restoration may need to be brought forward.
	Water quality issues related to sewage capacity
	Text added to CS2 which incorporates mitigation Reference to requirement for SUDS and the pressure on the existing sewage network and wastewater treatment works in Kendal also included in supporting text for policy CS2





#### MORECAMBE BAY SPA

Name and location	Morecambe Bay SPA
	(Morecambe Bay SPA largely overlaps with Morecambe Bay SAC, with the exception of the Duddon
	Estuary which is the subject of a separate SPA designation)
Distance from plan area	Partly within plan area
Reason(s) for designation	Annex I species that are a primary reason for selection of this site:
	Sterna sandvicensis Sandwich Tern
	It also qualifies under Article 4.2 of the EU Birds Directive in that it supports:
	<ul> <li>An internationally important assemblage of waterfowl and seabirds; and</li> </ul>
	<ul> <li>Internationally important populations of regularly occurring migratory species.</li> </ul>
Conservation objectives	Subject to natural change, to maintain in favourable condition the habitats of the internationally important
	populations of regularly occurring bird species listed on Annex 1 bird species, in particular:
	Shingle areas
	Favourable condition for this feature means that there is little deviation from the established baseline for
	the following attributes, subject to natural change:
	Extent of shingle areas
	<ul> <li>Ratio of vegetated to bare ground should not exceed 10% during the breeding season</li> </ul>
	Subject to natural change, to maintain in favourable condition the habitats of the internationally important assemblage of waterfowl and seabirds and the internationally important populations of regularly occurring
	migratory species, in particular:
	<ul> <li>Intertidal mudflat and sandflat communities, intertidal and subtidal boulder and cobble skear communities, saltmarsh communities, coastal lagoon communities</li> </ul>
	Favourable condition for these features is defined as little deviation from the established baseline,
	subject to natural change, for the following attributes:
	Extent of habitat features
	<ul> <li>Presence and abundance of animal and plant prey species</li> </ul>
	<ul> <li>Presence and abundance of preferred plant species (saltmarsh)</li> </ul>
	Range of vegetation heights (saltmarsh)

Requirements to maintain favourable condition status of site		Key factors affecting site integrity		
<ul> <li>Requirements to maintain favourable condition status of site</li> <li>Maintained populations of species and structure and function of habitats for which the sites designated</li> <li>Bird communities are highly mobile and exhibit patterns of activity related to tidal water movements and many other factors. Different bird species exploit different parts of an intertidal area and different prey species. Changes in the habitat may therefore affect their prey availability. The important bird populations therefore require a functional embayment, which is capable of supporting intertidal habitat for feeding and roosting.</li> <li>Note: Bird usage of the site varies seasonally, with different areas being favoured over others at certain times of the year</li> </ul>		<ul> <li>Key factors affecting site integrity</li> <li>Appropriate management, including grazing, mowing, vegetation clearance an appropriate level</li> <li>The absence or control of introduced or invasive species</li> <li>Current extent and distribution of suitable feeding and roosting habitat (e.g. saltmarsh, mudflats);</li> <li>Sufficient prey availability (e.g. small fish, crustaceans and worms);</li> <li>Minimal levels of disturbance;</li> <li>Water quality necessary to maintain intertidal plant and animal communities; and</li> <li>Water quantity and salinity gradients necessary to maintain saltmarsh conditions suitable for bird feeding and roosting.</li> </ul>		
Assessment of sig	nificance of effects:			
Nature of	LSE identified at the screening stage	Possible eff	ects in combination	Adverse effect on integrity
potential impact	and potential adverse effect of the	with other p	lans and policies	
<b>-</b> · ·		<b>T</b> I NA 1		
I ourism and	The screening stage identified that a	The Marine a	and Coastal Access Bill	AEOI – mitigation measures needed.
recreational	number of policies could be considered	aims to secure a long distance		
pressures	to increase levels of disturbance around	route ("the English coastal route")		
	the site.	and land for open-air recreation		
	Brooding torps & wintering brooding	accessible to the public around the		
	and passage waterfewl and seabirds	coast of England;		
	and passage wateriow and seabilities	Policy M6 of	the BSS advocatos	
	noise and/or physical activities	tourism dovo	lopmont adjacent to	
		National parl	$\alpha$ and $\Delta ONRs - this$	
	CS1 2 CS2 CS3 CS4 are comparable	annlies to thi	s site and could lead to	
	with PO1_PO3_PO4_PO11 and PO12	increased vis	sitor pressure	
	These nolicies set out the spatial		noi piessuie.	
	strategy and area visions and will	Morecambe	Bay falls within North	
	increase the number of local residents	West coast a	area of search for a	
		regional park	and parts of	
	7 Settlements within 1km of the	Morecambe	Bay are planned to be	
	Morecambe Bay European marine site	part of it. A N	Iorth West Coastal Trail	
	which will receive additional	is being cons	sidered. Dependent on	
	development under the Core Strategy	selection of a	area, and proposed	

		uses (e.g. leisure, tourism) there is potential for increased visitor pressure. 2700 new homes planned for Barrow-in-Furness. Regeneration of waterfront Barrow is a priority.	
Changes to water levels, turbidity, reduced water quality, reduction in habitat extent, disturbance of roosting and feeding areas	Not an issue identified at screening as this has been added following consultation on preferred options. Policy CS8.7 'Sustainable Construction, Energy Efficiency and Renewable Energy' updates the Preferred Options document by introducing a policy which supports nuclear and renewable energy generation. The Policy supports development of tidal schemes which will most definitely affect the habitat extent if developed in Morecambe Bay. The development of offshore, foreshore and onshore windfarms could also have adverse effects depending on location and details of the project.	All Regions are currently supporting renewable energy in their RSSs, in line with the aspirations of the UK government. In the North West region there are already a significant number of energy projects that are operational, under construction, with planning permission, or under consideration. Bridge across Morecambe Bay and Solway Energy Gateway and Mersey Barrage have all been suggested as tidal schemes	AEOI – the policy does not name projects or locations but adverse effects possible alone or in combination mitigation required.
Mitigation proposed.	<ul> <li>Tourism and recreational pressures</li> <li>Possible mitigation measures are access management, habitat management and provision of alternative recreational space.</li> <li>CS8.3b should help to reduce an increase in daily numbers to the site by providing locally accessible open space for new and existing residents.</li> <li>Core Strategy should make reference to the Morecambe Bay Strategy and the solutions to managing disturbance which are recommended there as these have been developed by a wide range of stakeholders. These solutions should be considered as measures that might be considered as planning conditions when granting permissions for developments in and around the Morecambe Bay European site. Natural England need to be involved in these discussions and delivery on the ground.</li> <li>The capacity of European sites to receive and increase in visitors without a corresponding increase in level of impact needs to be examined. The text to CS8.4 should make reference to this issue as a problem that requires attention by all development proposals.</li> </ul>		

	Changes to water levels, turbidity, reduced water quality, reduction in habitat extent, disturbance of roosting and feeding areas / impacts from renewable energy infrastructure: Add addition text to CS8.7 to recognise the international importance of much of the coastline and upland areas and to highlight that Projects should avoid significant adverse effects on sites of international nature conservation importance by assessment under the Habitats Regulations.
Comments from Natural England and Environment Agency	Confirmed results of assessment – no additional comments
Mitigation incorporated into the Core Strategy	<b>Tourism and recreational pressures.</b> Reference to assessing the effects of increased visitors, solutions to managing disturbance proposed in the Morecambe Bay Strategy and need to engage with Natural England have been added to Policy CS8.4 (Biodiversity & Geodiversity) and Policy CS8.5 Coast. The Core Strategy now supports stricter mitigation measures in terms of zoning and byelaw enforcement to protect Morecombe Bay SPA through the addition of specific text in CS8.5
	Changes to water levels, turbidity, reduced water quality and reduction in habitat extent/ impacts from renewable energy infrastructure: Suggested text added to CS7.7.

Location of Morecambe Bay SPA. Images © Magic.



Name and location	Morecambe Bay			
Name and location Morecambe Bay		the second of Oscilla Oscillation and Leaserships, and expression to the leasership		
Distance from plan area	Morecambe Bay lies between the coasts of South Cumbria and Lancashire, and represents the largest			
	continuous intertidal area in i	Britain. Morecampe Bay comprises the estuaries of five rivers and the		
	accretion of mudflats behind Walney Island. The area is of intertidal mud and sandflats, with associated			
	saltmarsh, shingle beaches and other coastal habitats. It is a component in the chain of west coast			
	estuaries of outstanding importance for passage and overwintering waterfowl (supporting the third-largest			
	number of wintering waterfowl in Britain), and breeding waterfowl, gulls and terns.			
Reason(s) for designation	Designated under Ramsar criterion 4, 5 and 6 for:			
	• The site is a staging area for migratory waterfowl including internationally important numbers of			
	passage ringed plover Charadrius hiaticula.			
	<ul> <li>Assemblages of inter</li> </ul>	rnational importance (peak counts in winter - 223709 waterfowl)		
	Species/populations	occurring at levels of international importance: Lesser Black-backed Gull.		
	Herring Gull, Sandwi	ch Tern, Great Cormorant, Common Shelduck, Northern Pintail, Common		
	Eider, Eurasian Ovst	ercatcher, Ringed Plover, Grev Plover, Sanderling, Eurasian Curlew,		
	Common Redshank	Ruddy Turnstone Great Crested Grebe Pink-footed Goose Furasian		
	Wigeon Common G	oldeneve Red-breasted Merganser European Golden Plover Northern		
	Lanwing Red Knot	Dunlin, Bar-tailed Godwit		
	Lapwing, Reu Knol, Dunini, Bai-laneu Gouwil.			
	Species occurring at levels of national importance: Black-neaded Guil, Ruff, whimbrei, Spotted			
O an a smarth and the stimula	Redshank, Common Greenshank, Eurasian Teal, Black-tailed Godwit.			
Conservation objectives	I o maintain populations of th	ose species for which this site is considered to be of European importance		
Requirements to maintain favourable condi	tion status of site	Key factors affecting site integrity		
<ul> <li>Maintained populations of species and</li> </ul>	structure and function of	<ul> <li>Appropriate management, including grazing, mowing, vegetation</li> </ul>		
habitats for which the sites designated		clearance an appropriate level		
		<ul> <li>The absence or control of introduced or invasive species</li> </ul>		
		<ul> <li>Current extent and distribution of suitable feeding and roosting</li> </ul>		
		habitat (e.g. saltmarsh, mudflats);		
		Sufficient prev availability (e.g. small fish, crustaceans and		
		worms):		
		Minimal levels of disturbance:		
		Water quality percessary to maintain intertidal plant and animal		
		communities: and		
		Weter supplity and calicity anadicate accessory to accipately		
		vvaler quantity and salinity gradients necessary to maintain		
		saltmarsh conditions suitable for bird feeding and roosting.		
Assessment of significance of effects:				

#### MORECAMBE BAY RAMSAR

Nature of potential impact	LSE identified at the screening stage and potential adverse effect of the CS	Possible effects in combination with other plans and policies	Adverse effect on integrity
Tourism and recreational pressures	The screening stage identified that a number of policies could be considered to increase levels of disturbance around the site. Breeding terns & wintering, breeding and passage waterfowl and seabirds are vulnerable to disturbance from noise and/or physical activities. CS1.2, CS2, CS3, CS4 are comparable with PO1, PO3, PO4, PO11 and PO12. These policies set out the spatial strategy and area visions and will increase the number of local residents. 7 Settlements within 1km of the Morecambe Bay European marine site which will receive additional development under the Core Strategy	The Marine and Coastal Access Bill aims to secure a long distance route ("the English coastal route") and land for open-air recreation accessible to the public around the coast of England; Policy W6 of the RSS advocates tourism development adjacent to National parks and AONBs – this applies to this site and could lead to increased visitor pressure. Morecambe Bay falls within North West coast area of search for a regional park and parts of Morecambe Bay are planned to be part of it. A North West Coastal Trail is being considered. Dependent on selection of area, and proposed uses (e.g. leisure, tourism) there is potential for increased visitor pressure. 2700 new homes planned for Barrow-in-Furness. Regeneration of waterfront Barrow is a priority.	AEOI – mitigation measures needed.
Changes to water levels, turbidity, reduced water quality, reduction in habitat extent, disturbance of roosting and feeding areas	Not an issue identified at screening as this has been added following consultation on preferred options. Policy CS8.7 'Sustainable Construction, Energy Efficiency and Renewable Energy' updates the Preferred Options document by introducing a policy which supports nuclear and renewable energy	All Regions are currently supporting renewable energy in their RSSs, in line with the aspirations of the UK government. In the North West region there are already a significant number of energy projects that are operational, under construction, with planning	AEOI – the policy does not name projects or locations but adverse effects possible alone or in combination mitigation required.

	generation. The Policy supports development of tidal schemes which will most definitely affect the habitat extent if developed in Morecambe Bay. The development of offshore, foreshore and onshore windfarms could also have adverse effects depending on location and details of the project.	permission, or under consideration. Bridge across Morecambe Bay and Solway Energy Gateway and Mersey Barrage have all been suggested as tidal schemes.		
Mitigation proposed.	Tourism and recreational pressures Possible mitigation measures are access r CS8.3b should help to reduce an increase existing residents. Core Strategy should make reference to th	<b>n and recreational pressures</b> e mitigation measures are access management, habitat management and provision of alternative recreational space. should help to reduce an increase in daily numbers to the site by providing locally accessible open space for new and residents.		
	recommended there as these have been developed by a wide range of stakeholders. These solutions should be considered as measures that might be considered as planning conditions when granting permissions for developments in and around the Morecambe Bay European site. Natural England need to be involved in these discussions and delivery on the ground. The capacity of European sites to receive and increase in visitors without a corresponding increase in level of impact needs to be examined. The text to CS8.4 should make reference to this issue as a problem that requires attention by all development proposals <b>Changes to water levels, turbidity, reduced water quality, reduction in habitat extent, disturbance of roosting and feeding</b> <b>areas / impacts from renewable energy infrastructure:</b>			
	Add addition text to CS8.7 to recognise the international importance of much of the coastline and upland areas and to highlight that Projects should avoid significant adverse effects on sites of international nature conservation importance by assessment under the Habitats Regulations.			
Comments from Natural England and Environment Agency	Confirmed results of assessment – no add	litional comments		
Mitigation incorporated into the Core Strategy	Tourism and recreational pressures. Reference to assessing the effects of incre Strategy and need to engage with Natural Coast. The Core Strategy now supports str Morecombe Bay Ramsar through the addit	eased visitors, solutions to managing d England have been added to Policy C ricter mitigation measures in terms of z tion of specific text in CS8.5	listurbance proposed in the Morecambe Bay S8.4 (Biodiversity & Geodiversity) and Policy CS8.5 zoning and byelaw enforcement to protect	

Location of Morecambe Bay Ramsar site. Images © Magic.

