Improvement Programme for England's Natura 2000 Sites (IPENS) Planning for the Future

Site Improvement Plan River Itchen

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, or contact Natural England's Responsible Officer for the site via our enquiry service 0300 060 3900, or enquiries@naturalengland.org.uk

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

UK0012599 River Itchen SAC

Site description

The River Itchen is one of the `classic` chalk rivers of southern England, drawing most of its character from this geological stratum. The Itchen supports an abundant and exceptionally species rich aquatic flora. It has a primary notification for its river habitat, at SSSI level (chalk river type) and also under Habitats Directive Annex I (Code H3260, watercourses with *Ranunculion* and *Batrachion* vegetation). This habitat notification comprises the river channel, its banks and parts of its riparian zone. In addition, parts of the floodplain are notified for their wetland habitat, and the river discharges via Southampton Water into the Solent which has a range of habitat designations.

The site is additionally notified for a number of SSSI and Habitats Directive Annex II species features, including invertebrate assemblages and a key breeding population of the nationally rare southern damselfly *Coenagrion mercuriale*, white-clawed crayfish *Austropotamobius pallipes*-one of the last remaining strongholds in central southern England), Atlantic salmon *Salmo salar*, Bullhead *Cottus gobio* and Brook lamprey *Lampetra planeri*, and an expanding population of Otter *Lutra lutra*.

The Itchen faces numerous pressures from water abstraction and flow diversions, discharges, agricultural runoff, channel modifications, fisheries management and human impacts associated with the urbanisation alongside much of the river`s valley.

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 Water Pollution	Pressure	H3260 Rivers with floating vegetation often dominated by water-crowfoot, S1044 Southern damselfly, S1092 White-clawed (or Atlantic stream) crayfish, S1096 Brook lamprey, S1106 Atlantic salmon, S1163 Bullhead	Environment Agency to implement actions from: DWP plans; review of consents, and any identified from the investigation into waste water treatment	Environment Agency, Hampshire and Isle of Wight Wildlife Trust, Hampshire County Council, Highways Agency, Natural England, Wildlife Trust, Catchment partnership, Upper Itchen Initiative, Wessex Chalk Streams and Rivers Trust, Parish Council(s), Test and Itchen Catchment Partnership
2 Physical modification	Pressure	H3260 Rivers with floating vegetation often dominated by water-crowfoot, S1044 Southern damselfly, S1092 White-clawed (or Atlantic stream) crayfish, S1096 Brook lamprey, S1106 Atlantic salmon, S1163 Bullhead	Implement River Restoration Strategy	Environment Agency, Hampshire and Isle of Wight Wildlife Trust, Natural England
3 Siltation	Pressure	H3260 Rivers with floating vegetation often dominated by water-crowfoot, S1092 White-clawed (or Atlantic stream) crayfish, S1096 Brook lamprey, S1106 Atlantic salmon, S1163 Bullhead	Implement diffuse water pollution plan actions and River Restoration Strategy actions along with land management advice	Environment Agency, Hampshire and Isle of Wight Wildlife Trust, Natural England

Haz260 Rivers with floating vegetation often dominated by water-crowfoot, 51044 Southern damselifty, 51092 White-clawed (or Atlantic stream) craylish, 51096 Brook lamprey, 51106 Atlantic salmon, 51163 Builhead					
water-crowfoot, \$1044 Southern damselfly, \$1092 White-clawed (or Atlantic stream) crayfish, \$1096 Brook lamprey, \$1106 Atlantic salmon, \$1163 Bullhead, \$1355 Otter Pressure H3260 Rivers with floating vegetation often dominated by water-crowfoot Pressure H3260 Rivers with floating vegetation often dominated by water-crowfoot Threat S1044 Southern damselfly Threat S1044 Southern damselfly Pressure Level Management Pressure Level Management Threat H3260 Rivers with floating vegetation often dominated by also water level management Pressure Level Management Threat H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1016 Desmoulin's whorl snail, \$1044 Southern damselfly Pressure Level Management Threat H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1016 Desmoulin's whorl snail, \$1044 Southern damselfly shill be also water level management Threat H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1016 Desmoulin's whorl snail, \$1044 Southern damselfly, \$1092 White-clawed (or Atlantic salmon, \$1163 Bullhead shill be also water level management Threat H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1044 Southern damselfly, \$1092 White-clawed (or Atlantic salmon, \$1163 Bullhead shill be also water level management and lialse with fisheries on appropriate management and lialse with fisheries on approp	4 Overgrazing	Pressure	water-crowfoot, S1044 Southern damselfly, S1092 White- clawed (or Atlantic stream) crayfish, S1096 Brook lamprey,	throughout the floodplain and	Hampshire and Isle of Wight Wildlife Trust, Natural England
control water-crowfoot water-crowfoot water-crowfoot cutting, assess whether a weed management plan is required and liaise with fisheries on appropriate management floodplain dryness in particular impacts of boreholes (see Issue 6) but also water level management 8 Inappropriate water levels Pressure Pressure H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1016 Desmoulin's whorl snail, \$1044 Southern damselfly, \$1092 White-clawed (or Atlantic stream) crayfish, \$1096 Brook lamprey, \$1106 Atlantic salmon, \$1163 Bullhead Pressure Pressure H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1016 Desmoulin's whorl snail, \$1044 Southern damselfly, \$1092 White-clawed (or Atlantic stream) crayfish, \$1096 Brook lamprey, \$1106 Atlantic salmon, \$1163 Bullhead Pressure H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1016 Desmoulin's whorl snail, \$1044 Southern damselfly, \$1092 White-clawed (or Atlantic stream) crayfish, \$1096 Brook lamprey, \$1106 Atlantic salmon, \$1163 Bullhead Pressure H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1016 Atlantic salmon, \$1163 Bullhead Quantify the impacts of fisheries riverbank management and liaise with fisheries on appropriate management, through the River Restoration Strategy Environment Agency, Natural England amend if necessary CQuantify the impacts of fisheries riverbank management and liaise with fisheries on appropriate management, through the River Restoration Strategy Pressure H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1044 Southern damselfly, \$1092 White-clawed (or Atlantic stream) crayfish, \$1096 Brook lamprey, \$1106 Atlantic salmon, \$1163 Bullhead Pressure H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1046 Southern damselfly, \$1092 White-clawed (or Atlantic stream) crayfish, \$1096 Brook lamprey, \$1106 Brook lamprey	5 Water abstraction	Pressure	water-crowfoot, S1044 Southern damselfly, S1092 White- clawed (or Atlantic stream) crayfish, S1096 Brook lamprey,		England, Southern Water
England Engl		Pressure		cutting, assess whether a weed management plan is required and liaise with fisheries on appropriate	England, Test and Itchen Association, Wessex Chalk
Level Management Plan projects after appraisal of options (see Issue 7) 9 Change in land management Threat H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1016 Desmoulin's whorl snail, \$1044 Southern damselfly, \$1092 White-clawed (or Atlantic stream) crayfish, \$1096 Brook lamprey, \$1106 Atlantic salmon, \$1163 Bullhead, \$1355 Otter 10 Inappropriate cutting/mowing Pressure H3260 Rivers with floating vegetation often dominated by water-crowfoot, \$1044 Southern damselfly, \$1092 White-clawed (or Atlantic stream) crayfish, \$1096 Brook lamprey, \$1106 Atlantic stream) crayfish, \$1096 Brook lamprey, \$1106 Atlantic salmon, \$1163 Bullhead Pressure S1092 White-clawed (or Atlantic stream) crayfish, \$1106 River Restoration Strategy Inplement control measures for invasive non-native Atlantic set of the projects after appraisal of options (see Issue 7) Monitor HLS compliance with grazing prescriptions, and amend if necessary Widlife Trust, Natural England Fisheries riverbank management and liaise with fisheries on appropriate management, through the River Restoration Strategy Implement control measures for invasive non-native England England Widlife Trust, Natural England Widlife Trust, Natural England Widlife Trust, Natural England Fisheries riverbank management and liaise with fisheries on appropriate management, through the River Restoration Strategy Environment Agency, Hampshire and Isle of Wight	7 Hydrological changes	Threat	S1044 Southern damselfly	floodplain dryness in particular impacts of boreholes (see Issue 6) but	England
water-crowfoot, S1016 Desmoulin's whorl snail, S1044 Southern damselfly, S1092 White-clawed (or Atlantic stream) crayfish, S1096 Brook lamprey, S1106 Atlantic salmon, S1163 Bullhead, S1355 Otter Pressure H3260 Rivers with floating vegetation often dominated by water-crowfoot, S1044 Southern damselfly, S1092 White- clawed (or Atlantic stream) crayfish, S1096 Brook lamprey, S1106 Atlantic salmon, S1163 Bullhead Pressure Pressure S1092 White-clawed (or Atlantic stream) crayfish, S1006 Atlantic salmon Pressure S1092 White-clawed (or Atlantic stream) crayfish, S1106 Atlantic salmon Wildlife Trust, Natural England Wildlife Trust, Natural England For invasion in the proving and	• • •	Pressure	S1044 Southern damselfly	Level Management Plan projects after appraisal of	
cutting/mowing water-crowfoot, S1044 Southern damselfly, S1092 White-clawed (or Atlantic stream) crayfish, S1096 Brook lamprey, S1106 Atlantic salmon, S1163 Bullhead fisheries on appropriate management, through the River Restoration Strategy 11 Invasive species Pressure S1092 White-clawed (or Atlantic stream) crayfish, S1106 Atlantic stream) crayfish, S1106 Implement control measures for invasive non-native fisheries riverbank management and liaise with fisheries on appropriate management, through the River Restoration Strategy England, Test and Itchen Association, Wessex Chalk Streams and Rivers Trust, Test and Itchen Catchment Partnership England, Test and Itchen Streams and Itchen Catchment Partnership Environment Agency, Hampshire and Isle of Wight		Threat	water-crowfoot, S1016 Desmoulin's whorl snail, S1044 Southern damselfly, S1092 White-clawed (or Atlantic stream) crayfish, S1096 Brook lamprey, S1106 Atlantic salmon, S1163	grazing prescriptions, and	
Atlantic salmon for invasive non-native Hampshire and Isle of Wight		Pressure	water-crowfoot, S1044 Southern damselfly, S1092 White- clawed (or Atlantic stream) crayfish, S1096 Brook lamprey,	fisheries riverbank management and liaise with fisheries on appropriate management, through the	England, Test and Itchen Association, Wessex Chalk Streams and Rivers Trust, Test and Itchen Catchment
	11 Invasive species	Pressure		for invasive non-native	Hampshire and Isle of Wight

12 Undergrazing	Pressure	S1044 Southern damselfly	Establish favourable grazing via existing local mechanisms and agrienvironment agreements and	Hampshire and Isle of Wight Wildlife Trust, Natural England
13 Inappropriate ditch management	Pressure	S1044 Southern damselfly	Establish appropriate management of ditches through agri-environment agreements and advice	Hampshire and Isle of Wight Wildlife Trust, Natural England
14 Inappropriate scrub control	Pressure	S1044 Southern damselfly	Manage scrub appropriate for southern damselfly through (amending) agri-environment agreements	Hampshire and Isle of Wight Wildlife Trust, Natural England
15 Forestry and woodland management	Pressure	H3260 Rivers with floating vegetation often dominated by water-crowfoot	Implement the river restoration strategy	Environment Agency, Hampshire and Isle of Wight Wildlife Trust, Natural England

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 Water Pollution

The Diffuse Water Pollution Plan identifies numerous issues with water quality, in addition to point sources from Waste Water Treatment Works. The Plan is a critical document to achieve favourable condition, and action-owners were consulted as part of the process of revising the plan. Pollution causes excessive algal growth, smothering macrophytes, and increased BOD, decreasing oxygen availability for spawning gravels used by salmon and trout. Reducing road run off can build on the existing Environment Agency and Highways Agency project assessing priority outfalls, and use existing Memorandum of Understanding to highlight any known issues with trunk roads for potential remedial funding. Work is needed with the Environment Agency to quantify any impacts. Possible role for Test and Itchen Catchment Partnership (TICP) through the Catchment Action Plan, to focus on non-trunk roads with Hampshire County Council. Environment Agency (EA) Review of Consents (RoC) process has been completed, but phosphate standards used conform to previous Common Standards Monitoring (CSM) guidance (used for setting SSSI and SAC targets). There is a risk of permitting several years of non-compliance from affected discharges. Revised CSM targets may impact on all discharges.

Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
Diffuse Water Pollution Plan action: reduce road runoff (both as pathway for sediment from elsewhere, and as source from roadside) and review settling pond maintenance, both trunk roads and other public roads. This includes investigations to quantify the extent of issue, and time taken to train staff in new procedures.	Not yet determined	2015-27	Diffuse Water Pollution Plan	Local Authority, Highways Agency	Hampshire County Council	Environment Agency, Highways Agency, Wessex Chalk Streams and Rivers Trust, Test and Itchen Catchment Partnership
Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
Diffuse Water Pollution Plan action: quantify the extent of the problem, through systematic catchment-wide risk appraisal, and address septic tank phosphate input. e.g. Compulsory registration of septic tanks and small package plants, to quantify inputs to the system and help reduce them	Not yet determined	2015	Regulation: Issue Appropriate Notice/Consent	Not yet determined	Environment Agency	n/a
	reduce road runoff (both as pathway for sediment from elsewhere, and as source from roadside) and review settling pond maintenance, both trunk roads and other public roads. This includes investigations to quantify the extent of issue, and time taken to train staff in new procedures. Action description Diffuse Water Pollution Plan action: quantify the extent of the problem, through systematic catchment-wide risk appraisal, and address septic tank phosphate input. e.g. Compulsory registration of septic tanks and small package plants, to quantify inputs to the system and	Diffuse Water Pollution Plan action: reduce road runoff (both as pathway for sediment from elsewhere, and as source from roadside) and review settling pond maintenance, both trunk roads and other public roads. This includes investigations to quantify the extent of issue, and time taken to train staff in new procedures. Action description Cost estimate Not yet determined Cost estimate Not yet determined Not yet determined Cost estimate Not yet determined Not yet determined Cost estimate Cost estimate	Diffuse Water Pollution Plan action: reduce road runoff (both as pathway for sediment from elsewhere, and as source from roadside) and review settling pond maintenance, both trunk roads and other public roads. This includes investigations to quantify the extent of issue, and time taken to train staff in new procedures. Action description Cost estimate Timescale Not yet determined Cost estimate Timescale Not yet determined	Diffuse Water Pollution Plan action: reduce road runoff (both as pathway for sediment from elsewhere, and as source from roadside) and review settling pond maintenance, both trunk roads and other public roads. This includes investigations to quantify the extent of issue, and time taken to train staff in new procedures. **Action description** Diffuse Water Pollution Plan action: quantify the extent of the problem, through systematic catchment-wide risk appraisal, and address septic tank phosphate input. e.g. Compulsory registration of septic tanks and small package plants, to quantify inputs to the system and Not yet determined **Timescale** Mechanism* Not yet 2015 Regulation: Issue Appropriate Notice/Consent **Notice/Consent**	Diffuse Water Pollution Plan action: reduce road runoff (both as pathway for sediment from elsewhere, and as source from roadside) and review settling pond maintenance, both trunk roads and other public roads. This includes investigations to quantify the extent of issue, and time taken to train staff in new procedures. Action description Diffuse Water Pollution Plan action: quantify the extent of the problem, through systematic catchment-wide risk appraisal, and address septic tank phosphate input. e.g. Compulsory registration of septic tanks and small package plants, to quantify inputs to the system and	Diffuse Water Pollution Plan action: reduce road runoff (both as pathway for sediment from elsewhere, and as source from roadside) and review settling pond maintenance, both trunk roads and other public roads. This includes investigations to quantify the extent of issue, and time taken to train staff in new procedures. Action description Cost estimate Timescale Mechanism Funding option Delivery lead body Not yet determined Not yet determined Funding option Delivery lead body Not yet determined Not yet determined Not yet determined Output Diffuse Water Pollution Plan action: quantify the extent of the problem, through systematic catchment-wide risk appraisal, and address septic tank phosphate input. e.g. Compulsory registration of septic tanks and small package plants, to quantify inputs to the system and

Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
10	Diffuse Water Pollution Plan action: agree and consult on the preferred restoration option for Alresford Pond (suspected of impacting on downstream SAC). Then implement the proposal, with involvement from the Test and Itchen Catchment Partnership if this is selected as priority project in Catchment Action Plan.	£200,000	2015	Diffuse Water Pollution Plan	Not yet determined	Natural England	Environment Agency, Local partnership
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
1D	Diffuse Water Pollution Plan action: ensure best practice management of septic tanks/package plants is adhered to, to ensure they operate within capacity. e.g. through an awareness campaign by local groups/town/parish councils. Possible role for Test and Itchen Catchment Partnership (TICP) through Catchment Action Plan	Not yet determined	2015	Diffuse Water Pollution Plan	Catchment Partnership Funding	Catchment partnership	Local partnership, Catchment partnership, Upper Itchen Initiative, Parish Council(s), Test and Itchen Catchment Partnership
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
1E	Review discharge consents for water cress and fish farms based on revised phosphate standards for the SAC.	Not yet determined	2015	Regulation: Issue Appropriate Notice/Consent	Environment Agency	Environment Agency	n/a

n Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
under the 2014 transition arrangements. Target future NELMS funding to address areas where a change in land management is required to achieve favourable SAC		2014-2020	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	Rural Development Programme (RDPE)	Natural England	Hampshire and Isle of Wight Wildlife Trust
n Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
Itchen Valley Grazing project: allocate funds to support project advice on land management of existing HLS agreements, and non-HLS grazed land, in lieu of new HLS/NELMS payments. Agrienvironment schemes do not fully cover the delivery of the project, joining up fragmented habitats throughout the floodplain.	£60,000 over 6 years	2014 -2020	Partnership agreement	SSSI partnership funding (NE)	Natural England	Hampshire and Isle of Wight Wildlife Trust
n Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
Diffuse Water Pollution Plan action - address diffuse pollution from agriculture through a catchment based approach, providing advice and support for capital items to farmers to voer both on farm issue and adjacent tracks.	£360,000 over 6 years	2015 - 2020	England Catchment Sensitive Farming (CSF)	Rural Development Programme (RDPE)	Natural England	Environment Agency
	continue to benefit water quality (particularly through control and monitoring of stocking densities where grazed) and southern damselfly habitat. Set up new agreements on relevant landholdings under the 2014 transition arrangements. Target future NELMS funding to address areas where a change in land management is required to achieve favourable SAC condition, including renewing expiring HLS agreements. **Action description** Itchen Valley Grazing project: allocate funds to support project advice on land management of existing HLS agreements, and non-HLS grazed land, in lieu of new HLS/NELMS payments. Agrienvironment schemes do not fully cover the delivery of the project, joining up fragmented habitats throughout the floodplain. **Action description** Diffuse Water Pollution Plan action address diffuse pollution from agriculture through a catchment based approach, providing advice and support for capital items to farmers to voer both on farm issue	Ensure existing HLS agreements continue to benefit water quality (particularly through control and monitoring of stocking densities where grazed) and southern damselfly habitat. Set up new agreements on relevant landholdings under the 2014 transition arrangements. Target future NELMS funding to address areas where a change in land management is required to achieve favourable SAC condition, including renewing expiring HLS agreements. **Action description** Itchen Valley Grazing project: advice on land management of existing HLS agreements, and non-HLS grazed land, in lieu of new HLS/NELMS payments. 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In Action description Itchen Valley Grazing project: allocate funds to support project advice on land management of existing HLS agreements, and non-HLS grazed land, in lieu of new HLS/NELMS payments. Agrienvironment schemes do not fully cover the delivery of the project, joining up fragmented habitats throughout the floodplain. In Action description Cost estimate Timescale Funding option SSSI partnership agreement greement Funding option Fun	Ensure existing HLS agreements continue to benefit water quality (particularly through control and monitoring of stocking densities where grazed) and southern damselfly habitat. Set up new agreements on relevant landholdings under the 2014 transition arrangements. Target future NELMS funding to address areas where a change in land management is required to achieve favourable SAC condition, including renewing expiring HLS agreements. **Action description** **Timescale** **Action description** **Action description** **Itchen Valley Grazing project: advice on land management of existing HLS agreements, and non-HLS grazed land, in lieu of new HLS/NELMS payments. Agrienvironment schemes do not fully cover the delivery of the project, joining up fragmented habitats throughout the floodplain. **Action description** **Cost estimate** **Timescale** **Timescale** **Mechanism** **Funding option** **Delivery lead body** **Natural England** **Delivery lead body** *

2 Physical modification

A range of physical modifications affect the Annex I river habitat, which have adverse consequences for characteristic biological communities of the habitat including specifically notified species. Modifications include weirs and other in-channel structures causing impoundment, siltation and interruptions to biological movements, over-deepening, over-widening and straightening of channels, and bank re-sectioning and reinforcement.

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Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
2A	Implement River Restoration Strategy projects on prioritised reaches where feasible (e.g. not damaging property). Details of timing and costs are in the River Restoration Strategy. Where obstacles cannot be overcome, install fish passes in line with Solent Fish (and eel) Pass Strategy	£7,000,000	2015-27	River Restoration Plan: Restoration Project	Environment Agency, Heritage Lottery Fund (HLF), Water Framework Directive (WFD), HLS/NELMS, Flood and Coastal Erosion Risk Management (FCERM) 2015-21	Environment Agency	Hampshire and Isle of Wight Wildlife Trust, Natural England, Landowner(s)

3 Siltation

Siltation resulting from a variety of factors (direct inputs of silt into the system from land use, runoff from diffuse sources, deposition arising from impoundments and overwide channels) is a widespread problem affecting the Annex I river habitat, with consequences for macrophytes, southern damselfly habitat (where in ditches) and spawning gravels for fish.

	graveis for fish.						
,	Action Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
	3A see Action 2A	see costs for Action 2A	2015-2027	River Restoration Plan: Restoration Project	Environment Agency, Natural England, Heritage Lottery Fund (HLF), Water Framework Directive (WFD), HLS/NELMS, Flood and Coastal Erosion Risk Management (FCERM) 2015-21	Environment Agency	Hampshire and Isle of Wight Wildlife Trust, Natural England
,	Action Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
•	3B see Action 1F	£400,000 over 5 years	2014-2020	Rural Development Programme for England (RDPE): Environmental Stewardship Higher Level Scheme (HLS)	Rural Development Programme (RDPE)	Natural England	Hampshire and Isle of Wight Wildlife Trust

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Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
3C	see Action 1G	£60,000 over 6 years	2014-2020	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	SSSI partnership funding (NE)	Natural England	Hampshire and Isle of Wight Wildlife Trust
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
3D	see Action 1H	£360,000 over 6 years	2015-2020	England Catchment Sensitive Farming (CSF)	Rural Development Programme (RDPE)	Natural England	Environment Agency
4 Ov	orgraning						
	ergrazing ts of over-grazing on river banks and w	vet meadow syste	ems, removing r	riparian and meadow ha	abitat and causing	runoff into watercourses.	
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
4A	see Action 1F: Ensure existing HLS agreements continue to benefit water quality (particularly through control and monitoring of stocking densities where grazed) and southern	£400,000 over 5 years	2014-2020	Rural Development Programme for England (RDPE): Common Agricultural Policy	Rural Development Programme (RDPE)	Natural England	Hampshire and Isle of Wight Wildlife Trust

2014-20 (New Environmental Land

Management

Scheme)

damselfly habitat. Set up new agreements on relevant landholdings

arrangements. Target future NELMS funding to address areas where a change in land management is

required to achieve favourable SAC condition, including renewing expiring

under the 2014 transition

HLS agreements.

Act	on Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
4B	see Action 1G: Itchen Valley Grazing project: allocate funds to support project advice on land management of existing HLS agreements, and non-HLS grazed land, in lieu of new HLS/NELMS payments. Agrienvironment schemes do not fully cover the delivery of the project, joining up fragmented habitats throughout the floodplain.	£60,000 over 6 years	2014 -2020	Partnership agreement	SSSI partnership funding (NE)	Natural England	Hampshire and Isle of Wight Wildlife Trust

5 Water abstraction

Abstraction modifies the natural flow regime on which the Annex I river habitat depends for its proper functioning. Impacts may occur on habitat character and habitat extent, within the channel or in riparian wetland areas. All parts of the flow regime may be affected but low-to-intermediate flows are most likely to be significantly impacted. Abstraction should not impact on floodplain SAC features such as southern damselfly, as well as riverine features such as salmon. Effects on the habitat can have various effects on individual notified species. Activities outside of the SAC may also have detrimental impacts on site features and habitats. Natural England does not endorse any particular solution at this time.

Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)	
5A	Amend water company abstraction licence identified through the Review of Consent process. These will find alternatives to the large water company abstraction on the River Itchen. This links with the Restoring Sustainable Abstraction (RSA) programme.	Not yet determined	2015-18	Water Industry Asset Management Plan (AMP): Abstraction Licence - Revoke/Amend	Price Review, AMP process, WRMP process	Environment Agency	Natural England, Southern Water Services Ltd	
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)	
5B	Amend/ revoke Environment Agency permits to abstract and then augment river (Candover and Arle schemes respectively) and linked Water Resource Management Plan process.	Not yet determined	2015	Water Industry Asset Management Plan (AMP): Abstraction Licence	Not yet determined	Environment Agency	Natural England, Southern Water Services Ltd	

gement of aquatic weed for fishery active				activity is currently	/ exempted under the OLE	Os list (Operations Likely to
Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
Investigate and quantify the extent of impacts of fisheries management practices which are currently exempted under the OLDs list. The resulting evidence base will direct any future actions and appropriate mechanisms in order to fulfil the River Restoration Strategy and progress towards favourable condition of the designated sites.	Not yet determined	2015-18	Investigation / Research / Monitoring	Not yet determined	Natural England	Environment Agency, Test and Itchen Association, Wessex Chalk Streams and Rivers Trust
drological changes						
locations on the floodplains are too dry	v, with reasons no	ot clear - impact	s on ditches (decreased	d flowing water) for	r southern damselfly and r	neadow flora.
Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
Investigate causes of apparent drying on floodplain meadows, with a focus on abstractions (if not covered by RoC) and water level management issues. Implement any changes identified through existing mechanisms. Affects discrete areas of the SAC floodplain.	£30,000	2015	Investigation / Research / Monitoring	Not yet determined	Natural England	Environment Agency
ppropriate water levels						
					ed options to re-wet the flo	oodplain, benefitting flora
Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
Water Level Management Plan actions: quantify the need for alterations to water levels, and reappraise remaining proposals to establish appropriate water levels on the site, linked with investigations into hydrological impacts, and River Restoration Strategy implementation.	£50,000	2015	Water Level Management Plan	Not yet determined	Natural England	Environment Agency
	Investigate and quantify the extent of impacts of fisheries management practices which are currently exempted under the OLDs list. The resulting evidence base will direct any future actions and appropriate mechanisms in order to fulfil the River Restoration Strategy and progress towards favourable condition of the designated sites. Investigate causes of apparent drying on floodplain meadows, with a focus on abstractions (if not covered by RoC) and water level management issues. Implement any changes identified through existing mechanisms. Affects discrete areas of the SAC floodplain. Inpropriate water levels I levels are not appropriate. The Water bennecting habitat for southern damselfly actions: quantify the need for alterations to water levels, and reappraise remaining proposals to establish appropriate water levels on the site, linked with investigations into hydrological impacts, and River	gement of aquatic weed for fishery activities affects protego, and the extent and level of impacts on the watercome of Action description Investigate and quantify the extent of impacts of fisheries management practices which are currently exempted under the OLDs list. The resulting evidence base will direct any future actions and appropriate mechanisms in order to fulfil the River Restoration Strategy and progress towards favourable condition of the designated sites. drological changes locations on the floodplains are too dry, with reasons not action and appropriate water level management issues. Implement any changes identified through existing mechanisms. Affects discrete areas of the SAC floodplain. appropriate water levels relevels are not appropriate. The Water Level Management is southern damselfly. These need reconnecting habitat for southern damselfly. These need reappraise remaining proposals to establish appropriate water levels on the site, linked with investigations into hydrological impacts, and River	gement of aquatic weed for fishery activities affects protected habitats ege), and the extent and level of impacts on the watercourse is not concleted. Action description Cost estimate Timescale Investigate and quantify the extent of impacts of fisheries management practices which are currently exempted under the OLDs list. The resulting evidence base will direct any future actions and appropriate mechanisms in order to fulfil the River Restoration Strategy and progress towards favourable condition of the designated sites. drological changes locations on the floodplains are too dry, with reasons not clear - impact drying on floodplain meadows, with a focus on abstractions (if not covered by RoC) and water level management issues. Implement any changes identified through existing mechanisms. Affects discrete areas of the SAC floodplain. Interpropriate water levels I levels are not appropriate. The Water Level Management Plan (Natura connecting habitat for southern damselfly. These need re-appraisal and actions: quantify the need for alterations to water levels, and re-appraise remaining proposals to establish appropriate water levels on the site, linked with investigations into hydrological impacts, and River	gement of aquatic weed for fishery activities affects protected habitats e.g. *Ranunculus*. This is ge), and the extent and level of impacts on the watercourse is not conclusively known. *Action description *Cost estimate Timescale Mechanism** Investigate and quantify the extent of impacts of fisheries management practices which are currently exempted under the OLDs list. The resulting evidence base will direct any future actions and appropriate mechanisms in order to fulfil the River Restoration Strategy and progress towards favourable condition of the designated sites. **drological changes** Iocations on the floodplains are too dry, with reasons not clear - impacts on ditches (decreased Action description *Cost estimate Timescale Mechanism** Investigate causes of apparent drying on floodplain meadows, with a focus on abstractions (if not covered by RoC) and water level management issues. Implement any changes identified through existing mechanisms. Affects discrete areas of the SAC floodplain. **Impropriate water levels** *Ievels are not appropriate. The Water Level Management Plan (Natural England with Environronnecting habitat for southern damselfly. These need re-appraisal and implementation where proposed in the site, linked with investigations into hydrological impacts, and River**	gement of aquatic weed for fishery activities affects protected habitats e.g. Ranunculus. This is activity is currently ge), and the extent and level of impacts on the watercourse is not conclusively known. **Action description** **Cost estimate** Timescale** Mechanism** Funding option** Not yet general practices which are currently exempted under the OLDs list. The resulting evidence base will direct any future actions and appropriate mechanisms in order to fulfil the River Restoration Strategy and progress towards favourable condition of the designated sites. **Cot estimate** Timescale** Monitoring** Monitoring** Monitoring** **Tunding option** Not yet determined Monitoring** **Action description** Cost estimate** Timescale** Mechanism** Funding option** Not yet determined Monitoring** **Action description** Cost estimate** Timescale** Mechanism** Funding option** Not yet determined Monitoring** **Action description** Cost estimate** Timescale** Mechanism** Funding option** Not yet determined focus on abstractions (if not covered by RoC) and water level management any changes identified through existing mechanisms. Affects discrete areas of the SAC floodplain. **Popropriate** Timescale** Mechanism** Funding option** Not yet determined Monitoring* Monitoring* **Propriate** Monitoring** Monitoring** **Propriate** Monitoring** Monitoring** Monitoring** **Propriate** Monitoring** Monitoring** Monitoring** Monitoring** Monitoring** **Propriate** Mechanism** Funding option* Not yet determined determined management Plan (Natural England with Environment Agency) agree on the side of the saction of the side of the sactio	gement of aquatic weed for fishery activities affects protected habitats e.g. Ranunculus. This is activity is currently exempted under the OLE ge), and the extent and level of impacts on the watercourse is not conclusively known. Action description Cost estimate Timescale Mechanism Funding option Delivery lead body Investigate and quantify the extent of impacts of fisheries management determined Volty and the currently exempted under the OLDs list. The resulting evidence base will direct any future actions and appropriate mechanisms in order to fulfil the River Restoration Strategy and progress towards favourable condition of the designated sites. drological changes locations on the floodplains are too dry, with reasons not clear - impacts on ditches (decreased flowing water) for southern damselfly and rodging and rodg

Action 8B	Action description Water Level Management Plan actions: implement any viable remaining projects once options appraisals are carried out, to establish appropriate water levels on the site.	Cost estimate £100,000	Timescale 2015-27	Mechanism Water Level Management Plan	Funding option Not yet determined	Delivery lead body Natural England	Delivery partner(s) Environment Agency
9 Ch	ange in land management						
Risk o	f non-compliance with HLS agreement	s may be affectir	ng water quality	of the river and floodpla	ain carriers.		
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
9A	see Action 1F: Ensure existing HLS agreements continue to benefit water quality (particularly through control and monitoring of stocking densities where grazed) and southern damselfly habitat. Set up new agreements on relevant landholdings under the 2014 transition arrangements. Target future NELMS funding to address areas where a change in land management is required to achieve favourable SAC condition, including renewing expiring HLS agreements.		2014-2020	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	Rural Development Programme (RDPE)	Natural England	Hampshire and Isle of Wight Wildlife Trust

10 Inappropriate cutting/mowing

There are some instances of inappropriate management of riverbanks, which impacts on marginal habitat, with consequences for riparian and in-channel biota. These affect the biota using the riparian zone directly, and the biota of the river channel in terms of reducing bankside cover and enhancing silt inputs. Better bankside management can help prevent runoff from adjacent fields into the river, protecting water quality.

Action Action description

10A

Investigate and quantify the extent of Not yet impacts of fisheries management practices which are currently exempted under the OLDs list. The resulting evidence base will direct any future actions and appropriate mechanisms in order to fulfil the River Restoration Strategy and progress towards favourable condition of the designated sites.

Cost estimate

determined

Timescale 2015

Mechanism

Investigation / Research / Monitoring

Funding option

Not yet

Natural England determined

Delivery lead body

Delivery partner(s)

Environment Agency, Test and Itchen Association, Wessex Chalk Streams and Rivers Trust. Test and **Itchen Catchment** Partnership

11 Invasive species

The presence of signal crayfish in parts of the catchment is suspected posing a significant risk to the white-clawed crayfish population through crayfish plague. However, white-clawed crayfish populations are fragmented, and therefore direct impacts from signals suspected not to be significant. Also there are widespread issues with Himalayan and orange balsam along the riparian corridor but the extent of the problem is unknown.

Action Action description

11A Encourage biosecurity and invasive species control through support for Southern Chalkstreams Project to continue provision of advice to landowners (including biosecurity). captive rearing and breeding project for white-clawed cravfish, and monitoring of signal crayfish sightings. Creation of catchment strategy for future of native crayfish population, including identification of release sites. Links with EA fish stocking process review.

Cost estimate Timescale

6 years

£240.000 over 2014 -2020

Mechanism Partnership

Not yet agreement determined

Delivery lead body Funding option Natural England

Environment Agency, Hampshire and Isle of Wight Wildlife Trust

Delivery partner(s)

Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
11B	Control invasive plant species (Himalayan balsam is a localised issue and orange balsam is expanding and could become a problem).	£60,000 over 6 years	2014 -2020	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	Rural Development Programme (RDPE)	Natural England	n/a
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
11C	Investigate the spread and impacts of orange balsam. Use available mechanisms to implement any recommendations.	£20,000	2016	Investigation / Research / Monitoring	Not yet determined	Natural England	n/a

12 Undergrazing

Undergrazing impacts on wet meadow systems, causing degradation of southern damselfly habitat in particular. Bridges are required to access and manage sites and prevent SAC condition to deteriorate. This requires special project funding, which is currently prohibited in HLS agreements.

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	Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
	12A	see Action 4A: Ensure existing HLS agreements continue to benefit water quality (particularly through control and monitoring of stocking densities where grazed) and southern damselfly habitat. Set up new agreements on relevant landholdings under the 2014 transition arrangements. Target future NELMS funding to address areas where a change in land management is required to achieve favourable SAC condition, including renewing expiring HLS agreements.	5 years	2014-2020	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	Rural Development Programme (RDPE)	Natural England	Hampshire and Isle of Wight Wildlife Trust

	ction 2 B	Action description NELMS: ensure new agreements adequately resolve issues	Cost estimate £16,000	Timescale 2014	Mechanism Rural Development Programme for England (RDPE): Environmental Stewardship Higher Level Scheme (HLS)	Funding option Rural Development Programme (RDPE)	Delivery lead body Natural England	Delivery partner(s) n/a
	ction 2C	Action description HLS amendments: support access bridge for cattle grazing and vehicular access for tree/scrub removal	Cost estimate £80,000	Timescale 2014 - 2020	Mechanism Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	Funding option Rural Development Programme (RDPE)	Delivery lead body Natural England	Delivery partner(s) n/a
		appropriate ditch management						
		ditches are not managed, leading to re	eed encroachmer	nt, reducing flow	•	•	, ,	
A	ction	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
13	3A	Ensure existing HLS agreements continue to benefit water quality (particularly through control and monitoring of stocking densities where grazed) and southern damselfly habitat. Set up new agreements on relevant landholdings under the 2014 transition arrangements. Target future NELMS funding to address areas where a change in land management is required to achieve favourable SAC condition, including renewing expiring HLS agreements.		2014-2020	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	Rural Development Programme (RDPE)	Natural England	Hampshire and Isle of Wight Wildlife Trust

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Inappropriate scrub control impacts particularly around ditches for southern damselfly, where scrub shades some ditches, preventing growth of marginal plants for egglaying, and reduce flow in ditches.

Mechanism

Action Action description

Cost estimate

Timescale

Funding option Rural

Development

Delivery lead body

Delivery partner(s)

Remove scrub along ditches through £10,000 HLS agreements (see also Action

1F).

2014

Rural Development Programme for England (RDPE): Environmental

Programme (RDPE) Stewardship Higher Level Scheme (HLS)

Natural England

Hampshire and Isle of Wight Wildlife Trust, n/a

15 Forestry and woodland management

Some parts of channel are excessively shaded by wet woodland, impacting on the macrophyte community. The River Restoration Strategy identifies some stretches where excessive shading is causing a problem, but it is important to look at whole catchment, and assess against all SAC features when reviewing locations/actions. Some stretches may benefit from tree planting to reduce water temperatures, particularly in light of climate change, but must again be carefully assessed.

Action Action description

Cost estimate

Timescale

Mechanism

Funding option

Delivery lead body

Delivery partner(s)

Assess shading/lack of shading of Not vet ditches and watercourses, and where determined necessary, address through woodland management. Address the need for additional shading through local implementation/ version of joint

NE/EA Keeping Rivers Cool Project.

Not yet determined

Mechanism not identified / develop mechanism

Not yet determined Not yet determined

Not yet determined

Action	n Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
15B	(also Action 2A) Implement River Restoration Strategy projects on prioritised reaches where feasible (e.g. not damaging property). Details of timing and costs are in the River Restoration Strategy. Where obstacles cannot be overcome, install fish passes in line with Solent Fish (and eel) Pass Strategy	£7,000,000	2015-27	River Restoration Plan: Restoration Project	Environment Agency, Heritage Lottery Fund (HLF), Water Framework Directive (WFD), HLS/NELMS, Flood and Coastal Erosion Risk Management (FCERM) 2015-21	Environment Agency	Hampshire and Isle of Wight Wildlife Trust, Natural England, Landowner(s)

Site details

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

Qualifying features

#UK Special responsibility

River Itchen SAC H3260 Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion

S1044 Coenagrion mercuriale: Southern damselfly

S1092 Austropotamobius pallipes: White-clawed (or Atlantic stream) crayfish

S1096 Lampetra planeri: Brook lamprey

S1106 Salmo salar: Atlantic salmon

S1163 Cottus gobio: Bullhead

S1355 Lutra lutra: Otter

Site location and links

River Itchen SAC

Area (ha) 309.26 Grid reference SU467174 Map link

Local Authorities City of Southampton; Hampshire

Site Conservation Objectives <u>European Site Conservation Objectives for River Itchen SAC</u>

European Marine Site conservation advice n/a

Regulation 33/35 Package n/a

Marine Management Organisation site plan <u>n/a</u>

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 (RMBP) 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.

Additional information is provided on targets for flow and some water quality parameters, in order to meet the conservation objectives for certain Natura 2000 sites. The relevant targets are identified in the revised conservation objectives document (see link to PDF below).

These targets have been revised for a number of Natura 2000 rivers and lakes, following a review by the conservation agencies of Common Standards Monitoring Guidance. For rivers, this is done through local discussions between Natural England and Environment Agency staff. For lake sites, the only parameter where alignment of standards was reviewed was phosphorus and so this work was undertaken jointly at a national level.

The linked PDF documents include the proposed target values, and also set out an 'interim progress goal', that will need to be achieved by 2021. Where sufficient information is available the document also identifies a timescale for achievement of the longer-term target. For any sites where it has not been possible to agree specific targets, usually because further technical work is required, these will be indicated in the documents by an asterisk. For further information please see Part 2 of the River Basin Plan

River Itchen SAC

River basin

South East

South East RBMP

WFD Management catchment

Test & Itchen

WFD Waterbody ID (Cycle 2 draft) GB107042016650, GB107042016670, GB107042022580, GB107042022610, GB107042022620

Locally revised Conservation Objectives Moving towards common standards monitoring

guidance targets for SAC rivers

Additional information on locally revised

Conservation Objectives

Progress goals and selected targets for N2K rivers: Recording table and Record of decision

EA/ NE agreed RBMP lake SAC targets n/a

River Restoration Plan

Source of information on river restoration plans for SAC rivers where these are in place or planned, with links to documentation where this is available.

Webpage link: Restoring Designated Rivers

n/a

River Restoration Plan document

n/a

Overlapping or adjacent protected sites

Site(s) of Special Scientific Interest (SSSI)

River Itchen SAC River Itchen SSSI

National Nature Reserve (NNR)

River Itchen SAC n/a

Ramsar

River Itchen SAC n/a

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

River Itchen SAC n/a







