

# Site Improvement Plan

## Crowdy Marsh

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

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

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

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

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

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

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

**UK0030329 Crowdy Marsh SAC**

## Site description

Crowdy Marsh is one of several valley mires found around the edge of the granite massif of Bodmin Moor, and is included within Bodmin Moor North SSSI.

Most of the gently-sloping wide valley is now occupied by a freshwater reservoir, and Crowdy Marsh is all that is left of the once more extensive valley mire system at the eastern end of the reservoir. It supports valuable transition mire habitat, which includes the water tracks and occasional waterlogged hollows found throughout the marsh. Part of the site is common land and part is privately owned.

## 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 Hydrological changes	Pressure	H7140 Very wet mires often identified by an unstable `quaking` surface	Hydrological investigation and evaluation, and implementation of appropriate mitigation measures if required	Environment Agency, Natural England, South West Water Ltd
2 Air Pollution: impact of atmospheric nitrogen deposition	Pressure	H7140 Very wet mires often identified by an unstable `quaking` surface	Site Nitrogen Action Plan	Not yet determined

## 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 Hydrological changes

The transition mire is likely to be dependent on the maintenance of high water levels in the adjacent reservoir. Extended periods of drawdown could adversely affect the hydrology of the transition mire as occurred in the summers of 2010 and 2013.

Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
<b>1A</b>	Determine the hydrological requirements necessary to meet favourable condition through appropriate monitoring and investigation, and ascertain whether reservoir draw down results in adverse impacts on the hydrology of the mire.	£20,000	2015-16	Investigation / Research / Monitoring	Natural England, Water Framework Directive (WFD)	Natural England	South West Water Ltd
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
<b>1B</b>	If investigation indicates that current drawdown levels are adversely affecting the SAC, investigate ways in which hydrological impacts could be mitigated, including examining the frequency and extent of reservoir draw down and extent to which other reservoirs (such as Stannon, Park and Porth) could be used to maintain water supply during dry periods.	£15,000	2015-17	Investigation / Research / Monitoring	Natural England, Water Framework Directive (WFD)	South West Water Ltd	Environment Agency, Natural England

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>1C</b>	If investigation indicates that current drawdown levels are adversely affecting the SAC and cannot be mitigated through other measures, then the abstraction licence/operating agreement for the reservoir requires amendment under PR19.	Not yet determined	2019-24	Restoring Sustainable Abstraction Programme: Abstraction Licence - Revoke/Amend	Natural England, Water Framework Directive (WFD)	Environment Agency	Natural England, South West Water Ltd

## 2 Air Pollution: impact of atmospheric nitrogen deposition

Nitrogen deposition exceeds site relevant critical loads and may be adversely affecting bryophytes, and reducing species diversity.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>2A</b>	Control, reduce and ameliorate atmospheric nitrogen impacts	Not yet determined	2014-20	Site Nitrogen Action Plan	Not yet determined	Not yet determined	n/a

## Site details

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

### Qualifying features

#UK Special responsibility

<b>Crowdy Marsh SAC</b>	H7140 Transition mires and quaking bogs
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### Site location and links

#### Crowdy Marsh SAC

Area (ha) <b>92.65</b>	Grid reference <b>SX150834</b>	<a href="#">Map link</a>
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Local Authorities	Cornwall
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Site Conservation Objectives	<a href="#">European Site Conservation Objectives for Crowdy Marsh SAC</a>
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European Marine Site conservation advice	<a href="#">n/a</a>
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Regulation 33/35 Package	<a href="#">n/a</a>
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Marine Management Organisation site plan	<a href="#">n/a</a>
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## Water Framework Directive (WFD)

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

### **Crowdy Marsh SAC**

*River basin*

South West

[South West RBMP](#)

*WFD Management catchment*

North Cornwall, Seaton, Looe and Fowey

*WFD Waterbody ID (Cycle 2 draft)*

GB108049007040, GB30846131

## Overlapping or adjacent protected sites

Site(s) of Special Scientific Interest (SSSI)	
Crowdy Marsh SAC	Bodmin Moor, North SSSI

National Nature Reserve (NNR)	
Crowdy Marsh SAC	n/a

Ramsar	
Crowdy Marsh SAC	n/a

Special Areas of Conservation (SAC) and Special Protection Areas (SPA)	
Crowdy Marsh SAC	n/a

<i>Version</i>	<i>Date</i>	<i>Comment</i>
1.0	07/10/2014	

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

