

## Appendix A: NRIDB BAP Progress 2021-22

ACTION		PARTNERS	DATE	2021-22 STATUS	2021-22 PROGRESS
<b>COASTAL AND FLOODPLAIN GRAZING MARSH</b>					
1.	Continue to work in partnership with stakeholders to look for opportunities, to enhance grazing marshes by appropriate water level management practice.	NRT, NE, EA and Landowners	Ongoing	Ongoing	This has been delivered through changes in water level management allowing for seasonal wetting to several grazing marshes at Holme Marshes, by working in partnership with Norfolk Rivers Trust and the Landowners in 2021.
2.	Deliver one Natural Flood Management project per year	BCP, NE, EA, NRT and Landowners	2018-23	Ongoing	Aldborough flood plain reconnection scheme that was delivered and completed in September 2021. The top layer of the bank was removed to reconnect the floodplain, allowing for overflow during periods of high flow.  Improvement work to the IDB river Scarrow Beck that was completed in September 2021, consisting of river channel restoration, floodplain reconnection and associated habitat improvements. Funded by WEG in partnership with National Trust as part of their Riverlands project.
<b>REEDBED</b>					
3.	Map areas of reedbed and reed fringe within the NR IDB catchment area.	NRT, NE, EA and Landowners	2018	Ongoing	GIS data layer to be provided by Norfolk Biodiversity information service (NBIS).
4.	Identify potential sites for habitat restoration and expansion within the NR IDB area and consider future management planning of these sites during this process.	NRT, NE, EA and Landowners	Ongoing	Ongoing	Improvement work to the IDB river Scarrow Beck that was completed in Autumn 2021, consisting of river channel restoration, floodplain reconnection and associated habitat improvements. Funded by WEG in partnership with National Trust as part of their Riverlands project.  This has been delivered through changes in water level management allowing for seasonal wetting to several grazing marshes at Holme Marshes, by working in partnership with Norfolk Rivers Trust and the Landowners in 2021.

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<b>FENS</b>					
5.	Map areas of fen within the NRIDB catchment area.	NBIS and NE	2018	Ongoing	GIS data layer to be provided by Norfolk Biodiversity information service (NBIS).
6.	Implement appropriate restoration and WLMP objectives for the River Nar and River Wensum SAC, Langor Drain and Norfolk Valley Fens and other NRIDB tributaries.	NRT NE, EA and Landowners	Ongoing	Ongoing	Langor Brook – check condition with Nik Bertholdt - HM.
7.	Consider opportunities for Fen rehabilitation and Management during this process. Priority will be given to Norfolk Valley Fen-type habitats (dependent on base –rich groundwater) for their restoration and preservation.	NE and Landowners	2020	Ongoing	No opportunities came to light during 2021-22. Continue to look for opportunities for Fen rehabilitation and management.
<b>CHALK RIVER</b>					
8.	Ensure compliance with the IDB SMO by auditing an identified number of maintenance works jobs annually, to ensure they are being carried out to an agreed standard across the whole board.		2018 - 23	Ongoing	SMO audits are completed twice a year within the NRIDB area to assess the maintenance practices against the SMO manual.  SMO Audit 1: Great Ryburgh B drain maintenance was audited in December 2021  SMO Audit 2: To be done January 2022
9.	Carry out a review of the IDB's SMO in line with changes in legislation or best practice guidelines.		2018	Complete	Reviewed 2018. Next review 2023.
10.	Continue to work in partnership with stakeholders to deliver river restoration schemes for WFD improvements on the River Nar.	NRT, EA, NE and Landowners	2018 - 20	Ongoing	River NAR WEG Scheme – The last phase of the river restoration works between Castle Acre and West Acre including felling and installing wood material into the channel, increasing habitat and flow diversity.
12.	Continue to work in partnership with stakeholders to deliver river restoration on the Langor Drain at Kettlestone Common.	NE, EA and Landowners	2020	Complete	The restoration is complete and has been signed off.

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13.	Continue to deliver other river restoration projects on IDB stretches of chalk stream within Norfolk River's area. Work in partnership with other stakeholders to achieve this.	NE, EA, NT and Landowners	2018 - 23	Ongoing	<p>Beck Hall Farm Barn (Billingford) – 250m of watercourse have been restored upstream of Billingford Road and was funded through the Water Environment Improvement Fund with a contribution from the landowner.</p> <p>River NAR WEG Scheme – The last phase of the river restoration works was delivered between Castle Acre and West Acre including felling and installing wood material into the channel, increasing habitat and flow diversity.</p> <p>Raynham Estate, small restoration project delivered early 2021. In channel restoration using wood to improve habitat and promote a more natural flow regime.</p> <p>Wendling Beck catchment restoration. A partnership project involving NRIDB, NRT, Anglian Water, Landowners, Norfolk Wildlife Trust. Looking at opportunities to restore the whole catchment including water quality and natural capital.</p> <p>Improvement work to the IDB river Scarrow Beck that was completed in Autumn 2021, consisting of river channel restoration, floodplain reconnection and associated habitat improvements. Funded by WEG in partnership with National Trust as part of their Riverlands project.</p> <p>Himalayan Balsam removal through the method of pulling along sections at Narborough during Summer 2021, enabling works for in channel restoration.</p>
15.	Continue to work with Norfolk Rivers Trust and the Catchment Partnerships to deliver Rural Sustainable Urban Drainage Systems (r SUDS) as a means to minimise sediment	NRT, EA, NE, BCP, NWNCP and Landowners	2018 - 23	Ongoing	No meetings attended during 2021 due to COVID. Partnership works continue in identifying, enabling and delivering works,

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	and diffuse pollution into chalk river systems.				
<b>WET WOODLANDS</b>					
16.	Carry out a desk study audit of wet woodland locations in the Norfolk Rivers IDB area to prioritise potential sites of interest.		2018	Ongoing	GIS data layer to be provided by Norfolk Biodiversity information service (NBIS).
17.	To consult Norfolk Wildlife Trust prior to work through or near County Wildlife Sites.	NWT	2018 - 23	Ongoing	CWS maps have been added to all board GIS system so they can be viewed before maintenance proceeds.  Desk studies are completed prior to maintenance works to identify CWS near the drain and reported to the NWT.
18.	To include wet woodland conservation in all aspects of IDB maintenance, capital scheme and river restoration delivery.	NE, NWT, NRT, EA and LA's	2018 - 23	Ongoing	River NAR WEG Scheme – The last phase of the river restoration works between Castle Acre and West Acre including felling and installing wood material into the channel, increasing habitat and flow diversity.
<b>WATER VOLE</b>					
19.	Ensure compliance with the IDB SMO by auditing an identified number of maintenance works jobs annually, to ensure they are being carried out sensitively and to an agreed standard across the Board.		2018 - 23	Ongoing	SMO audits are completed twice a year within the NRIDB area to assess the maintenance practices against the SMO manual.  SMO Audit 1: Great Ryburgh B drain maintenance was audited in December 2021  SMO Audit 2: To be completed January 2022
21.	Continue to work in partnership on the Norfolk Mink Control Project.	NNNSI	2018 - 23	Ongoing	Norfolk Mink Control Meetings attended 3 times per year.  NRIDB contributing £2500 toward the Norfolk Mink Control Project during 2021-22: <a href="https://thenorfolkproject.org.uk/">https://thenorfolkproject.org.uk/</a>  Water Life Recovery East steering group meeting attended.
22.	Take opportunities to enhance Water Vole habitat where appropriate during Capital or river/wetland restoration schemes.	NE, EA, Landowners and NWT	Ongoing	Ongoing	Additional bank habitat created as part of the Sculthorpe Silt Trap Installation Scheme delivered Autumn 2021.

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<b>BROWN TROUT</b>					
23.	Ensure compliance with the IDB SMO by auditing an identified number of maintenance works jobs annually, to ensure they are being carried out to an agreed standard across the whole board.		2018 - 23	Ongoing	SMO audits are completed twice a year within the NRIDB area to assess the maintenance practices against the SMO manual.  SMO Audit 1: Great Ryburgh B drain maintenance was audited in December 2021  SMO Audit 2: To be completed January 2022
24.	Ensure the life stages, habitat requirements and migration routes for the brown trout are taken into consideration when developing river restoration projects.	NE, EA and Landowners	2018-23	Ongoing	No opportunities came to light during 2021-22. Continue to look for opportunities for consideration of brown trout during future restoration projects.
25.	Continue to establish the feasibility and delivery of other river restoration projects on IDB stretches of chalk stream reaches within Norfolk Rivers Area. Where appropriate, work in partnership with other Stakeholders to achieve this.	NE, NRT, EA and Landowners	2018 - 23	Ongoing	No opportunities came to light during 2021-22. Continue to look for opportunities in 2022-23.
26.	Continue to work with NRT and the BCP to deliver Rural Sustainable Urban Drainage Systems as a means to minimise sediment and diffuse pollution into chalk river systems. Deliver one rural SUD per year.	NRT, BCP and NWCP	2018 - 23	Ongoing	Partnership working to deliver Sculthorpe Silt Trap installation Scheme delivered Autumn 2021, minimizing sediment and diffuse pollution from entering the main river watercourse.
27.	Continue to deliver chalk stream restoration on EA main river as part of the Integrated River Management Programme.	EA and Landowners	2018-23	Ongoing	Site visits took place early 2021 as part of scoping visits for a project at Lyng on the River Wensum, in the hope to deliver a restoration scheme.
<b>BARN OWL</b>					
28.	Continue to contribute to the maintenance and monitoring of nest boxes within the NR IDB area via the Wildlife Conservation Partnership.	WCP	Ongoing	Ongoing	NRIDB contribute £1667 toward barn owl conservation within the area for which we also receive barn owl box replacement, monitoring and reporting by, Colin Shawyer (WCP).

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29.	Continue to maintain sward height during bankside maintenance mowing of 150mm.	Staff and Contractors	Ongoing	Ongoing	Consistent with SMO and reviewed through regular SMO auditing. See Action 8 for details of audits undertaken.
<b>WHITE CLAWED CRAYFISH</b>					
30.	Ensure compliance with the IDB SMO by auditing an identified number of maintenance works jobs annually, to ensure they are being carried out sensitively and to the agreed standard across the whole board.	Contractors	2018 - 23	Ongoing	SMO audits are completed twice a year within the NRIDB area to assess the maintenance practices against the SMO manual.  SMO Audit 1: Great Ryburgh B drain maintenance was audited in December 2021  SMO Audit 2: To be completed January 2022
31.	Review and ensure biosecurity measures are being maintained across the Board.	Contractors and Staff	2018 - 21	Ongoing	New Biosecurity policies and GRAs are in place to ensure plant and equipment is suitably cleaned prior to arrival and leaving each site.  The NRIDB Biosecurity Policy was adopted by the Board in 2018. The policy and associated procedures have been reviewed during 2020 and updated alongside the other WMA Boards. A summary flowchart has been produced to aid practical adherence to necessary measures. A portable steam cleaner is being procured for the WMA Eastern Boards; this can be towed to sites to clean plant and equipment.
32.	Liaise and work closely with the Norfolk Crayfish Group.	NRT, EA, NE and NWT	2018 - 23	Ongoing	The crayfish meeting group has had no further meetings since the onset of Covid
33.	Contribute to crayfish surveys throughout the NRIDB area.	NE, NRT, EA and Landowners	2018 - 23	Ongoing	2020-21 The Norfolk Crayfish Group undertook eDNA testing in a series of water courses. Sample sites included the Tat (Tatterford TF86699 28016), Stiffkey (Warham Bridge TF95012 41677). Both the Tat and the Stiffkey sites are within the NRIDB drainage district. WCC eDNA has been identified in the Stiffkey. WCC have been identified in the River Tas as an area with WCC, also within the NRIDB drainage district.

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34.	Continue to establish the feasibility and delivery of river restoration projects on IDB stretches of chalk stream reaches within Norfolk Rivers Area. Where achievable, work in partnership with other stakeholders to achieve this.	NRT, EA, NE and Landowners	2018 - 23	Ongoing	See Action 13.
35.	Continue to deliver chalk stream restoration on EA main river as part of the Integrated River Management programme.	EA and Landowners	2018 - 23	Complete	See Action 14.
<b>NON NATIVE INVASIVE SPECIES</b>					
36.	Continue to contribute to and work in Partnership with the Norfolk Non-Native Invasive on invasive control projects.	NNNSI	Ongoing	Ongoing	<p>NRIDB contributed £2000 to the NNSI during 2021/22. This funding was used to tackle Floating Pennywort in the North Walsham and Dilham Canal has been provided. This was spent on using the NRIDB Board machine to remove large patches of Floating Pennywort in December 2020.</p> <p>Set up Floating Pennywort Steering Group for River Ant in October 2020. Regular monthly meetings of this partnership meeting to discuss survey and control continue.</p> <p>Watercourses around Horstead (and various Broads drains Wayford Bridge, Broad Fen-Dilham, Chaplefield) undertaken</p> <p>Ongoing work with the partnership, attending meetings with the partnership.</p> <p>Himalayan Balsam removal through the method of pulling along sections at Narborough during Summer 2021, enabling works for in channel restoration.</p> <p>Crassula hand removal and control from the Mannington Stream; working with National Trust Riverlands Project in November 2021</p>
37.	Maintain records for all species of concern using "That's Invasive!" app.	NNNSI, Staff and Contractors	Ongoing	Ongoing	The "That's Invasive" app is no longer live. The iRecord App is being used by WMA Officers. This app can be used for all biological records, including invasive species. Operated by the national Biological Records Centres,

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					records are verified by experts and shared with Local Environmental Records Centres.  A shared IDB iRecord account is active to better manage data recording and retrieval.
38.	Train staff regularly in key non-native species identification.	NNNSI, Staff and Contractors	Ongoing	Ongoing	A toolbox talk has been delivered on Floating Pennywort and included a reminder on other key invasive species. ID cards from the GB Non-native Species Secretariat have also provided to the operatives.  Staff will also report invasive species back to the Environmental Officer.
39	Ensure availability and regular review of identification guides developed for key non-native species to be used by officers, staff and contractors on site.	NNNSI, Staff and Contractors	Ongoing	Ongoing	ID cards from the GB Non-native Species Secretariat have been provided to the operatives in conjunction with toolbox talks.  If invasive species are known in areas, these species are then listed in the toolbox talk and specific information given.  Staff also report invasive species to the Environmental Team.
40.	Regularly review and ensure robust biosecurity measures are being maintained across the Board.	Staff and Contractors	Ongoing	Ongoing	Biosecurity Policy is under review and a summary flowchart has been produced to aid practical adherence to necessary measures.  The NRIDB Biosecurity Policy was adopted by the Board in 2018. The policy and associated procedures have been reviewed during 2020 and updated alongside the other WMA Boards. A summary flowchart has been produced to aid practical adherence to necessary measures. A portable steam cleaner is being procured for the WMA Eastern Boards; this can be towed to sites to clean plant and equipment.
42.	Work with the EA under PSCA to work towards eradication of Giant Hogweed from the River Bure.	EA, Contractors and Landowners	2018 - 23	Ongoing	EA wanted to treat this with their own team in 2019 onward.