



Wensum Catchment Ecology Group

20th Feb 2023

Agenda
Previous Actions
Presentation on the River Wensum Strategy
Fish Recovery Plan
 To Include Summary of Sept 2022 Fish Surveys
 Update on PhD studies
Riverfly 2023
Other research projects
Partnership Update and Spring Newsletter

Fishery Recovery Plan

We have agreed a plan that has a number of milestones to ensure any future stocks can sustain themselves.

- ✓ Define the area of focus
- ✓ Define current Density
 - Understand the current health concerns
 - Define the cause of these concerns
 - Define and improve the habitat
 - Reach agreement with Landowners
 - Define monitoring plan
 - Reach agreement on stocking protocol

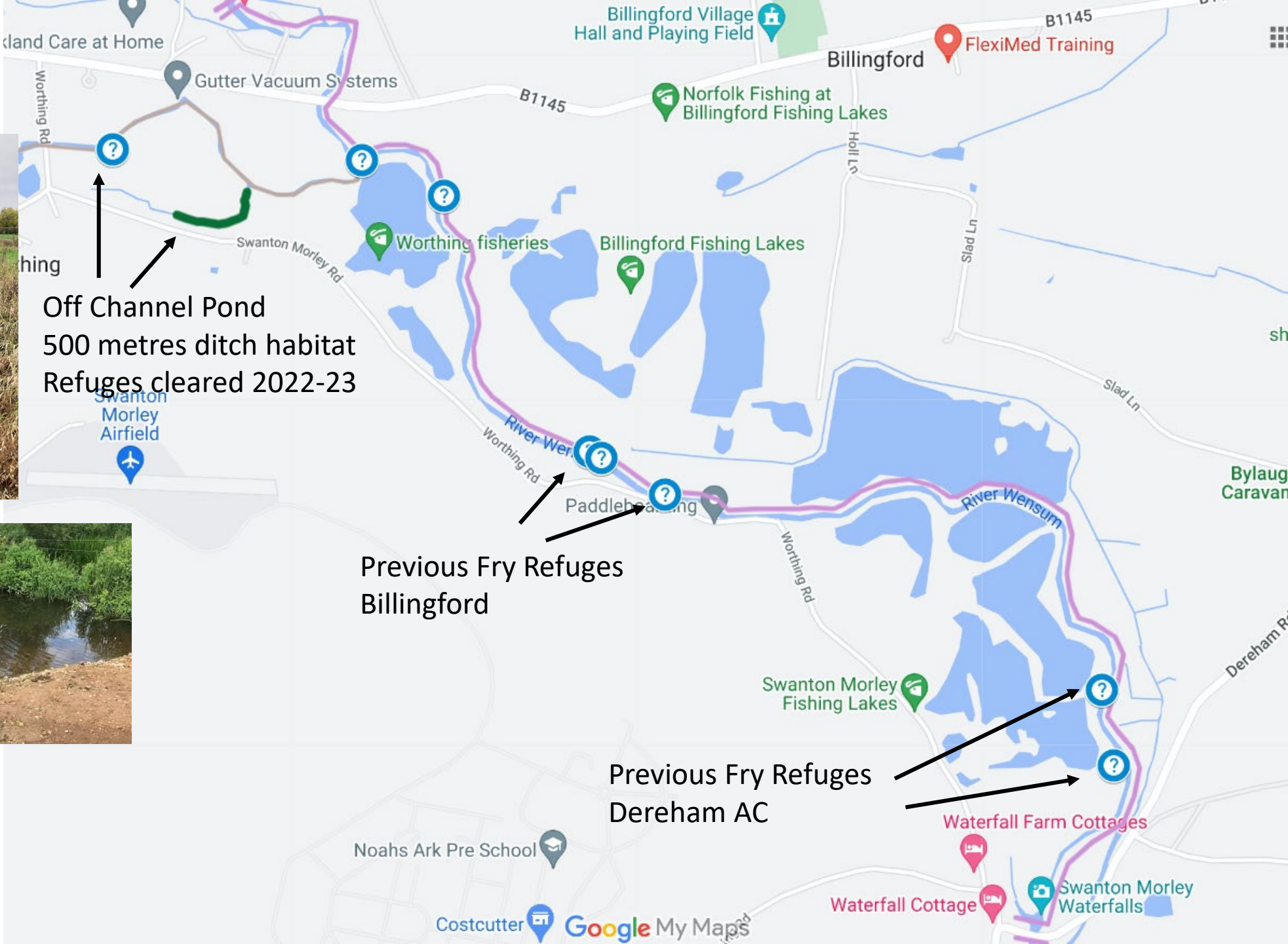


School Holidays Foundry Bridge Norwich 1972

Fishery Recover Plan

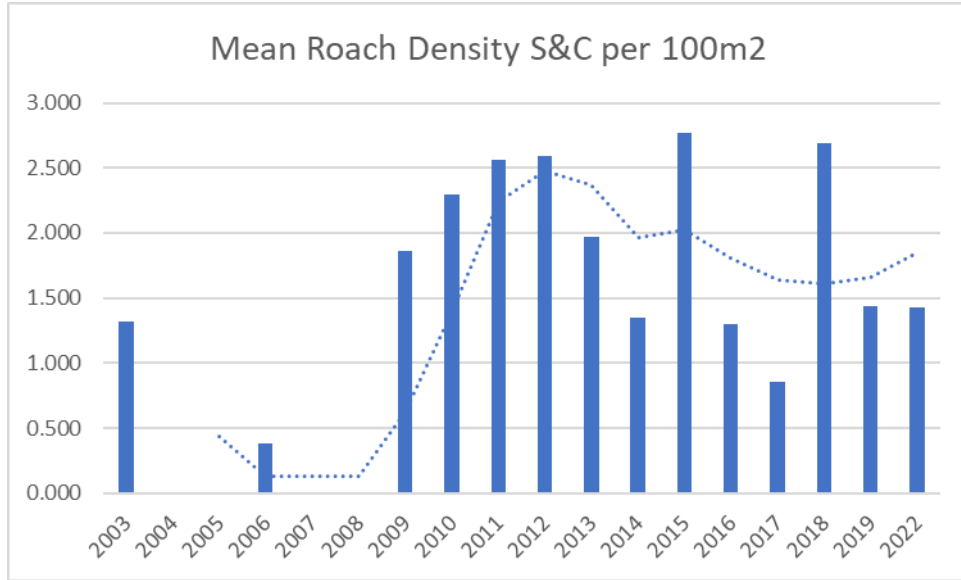


Off Channel Pond
500 metres ditch habitat
Refuges cleared 2022-23

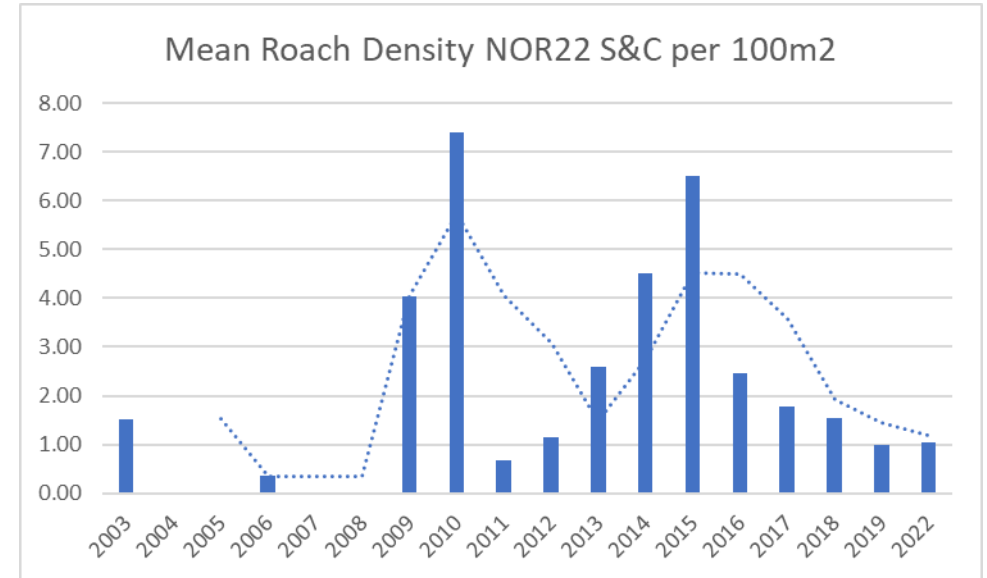


Wensum Fish Surveys Sept-22

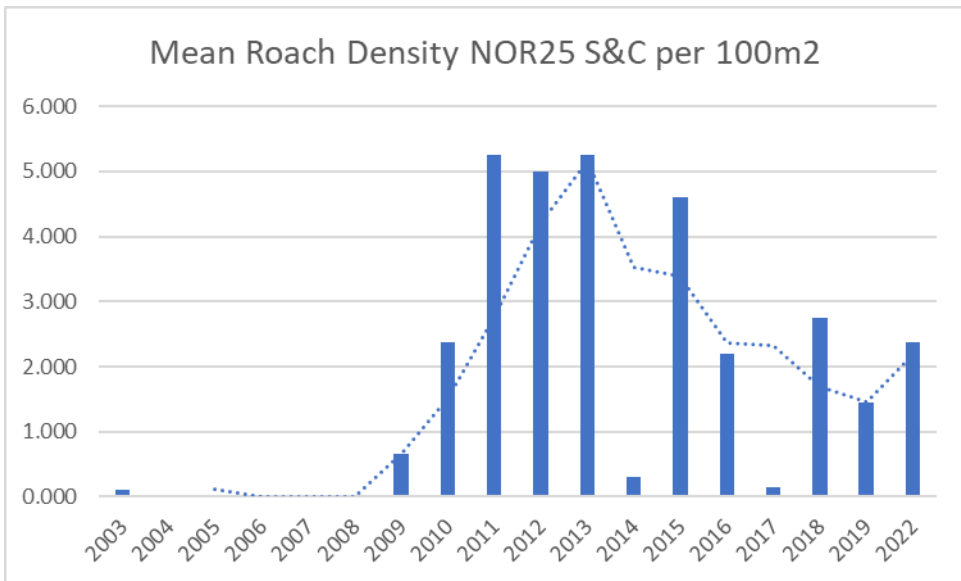
River Wensum Mean



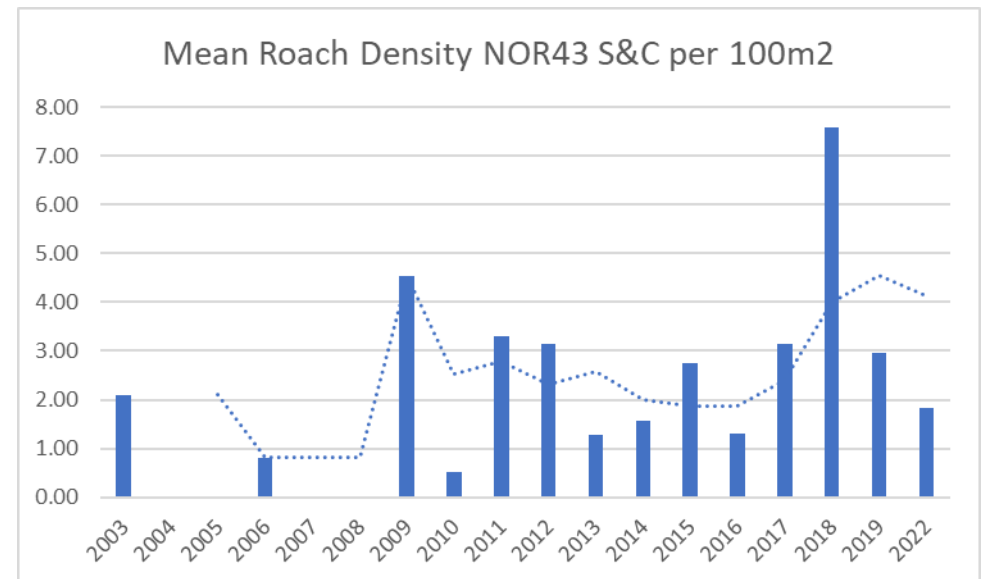
Swanton Morley



Elsing Bridge



Hellesden



Fish Health



PhD student Calum Ramage from Nottingham University is leading on the studies of contaminants on fish and mammals in the Wensum and the linkages to chemicals and pesticides.

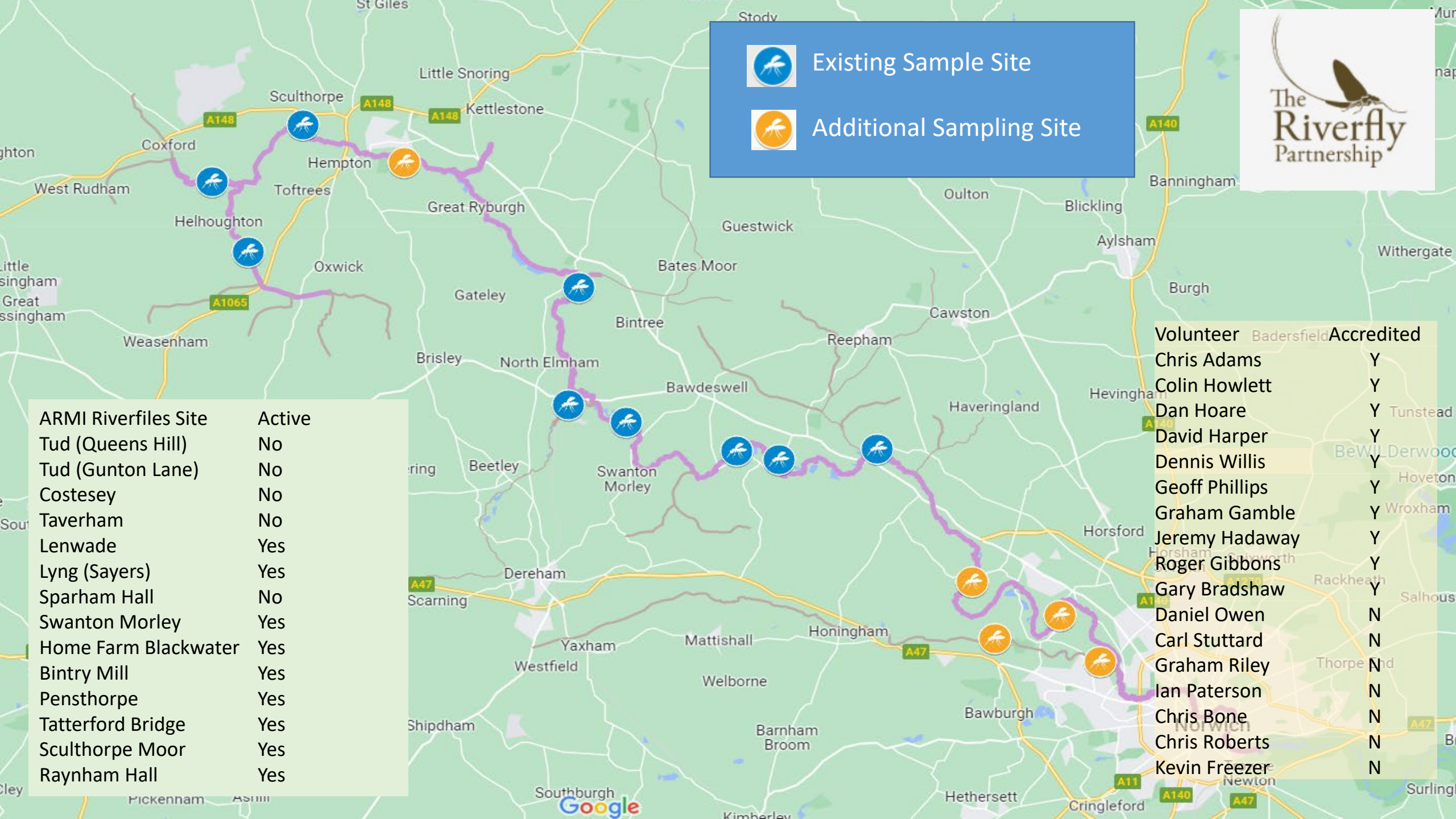
Over 1000 assays have been collected and frozen for by analysis using the latest scientific research. With the process taking several months to process the data. Initial results are expected to be available by June 2023

The EA have finally agreed to also take samples of roach for health assessment and will be completing this in the coming weeks.



In January the PhD was extended to include analysis of Otter Spirant and members of the Ecology group engaged in the collection of this.

However after a great start in early February,, following concerns with the spread of avian influenza across species and following a full risk assessment, it was agreed that additional protection measures were needed.



Existing Sample Site



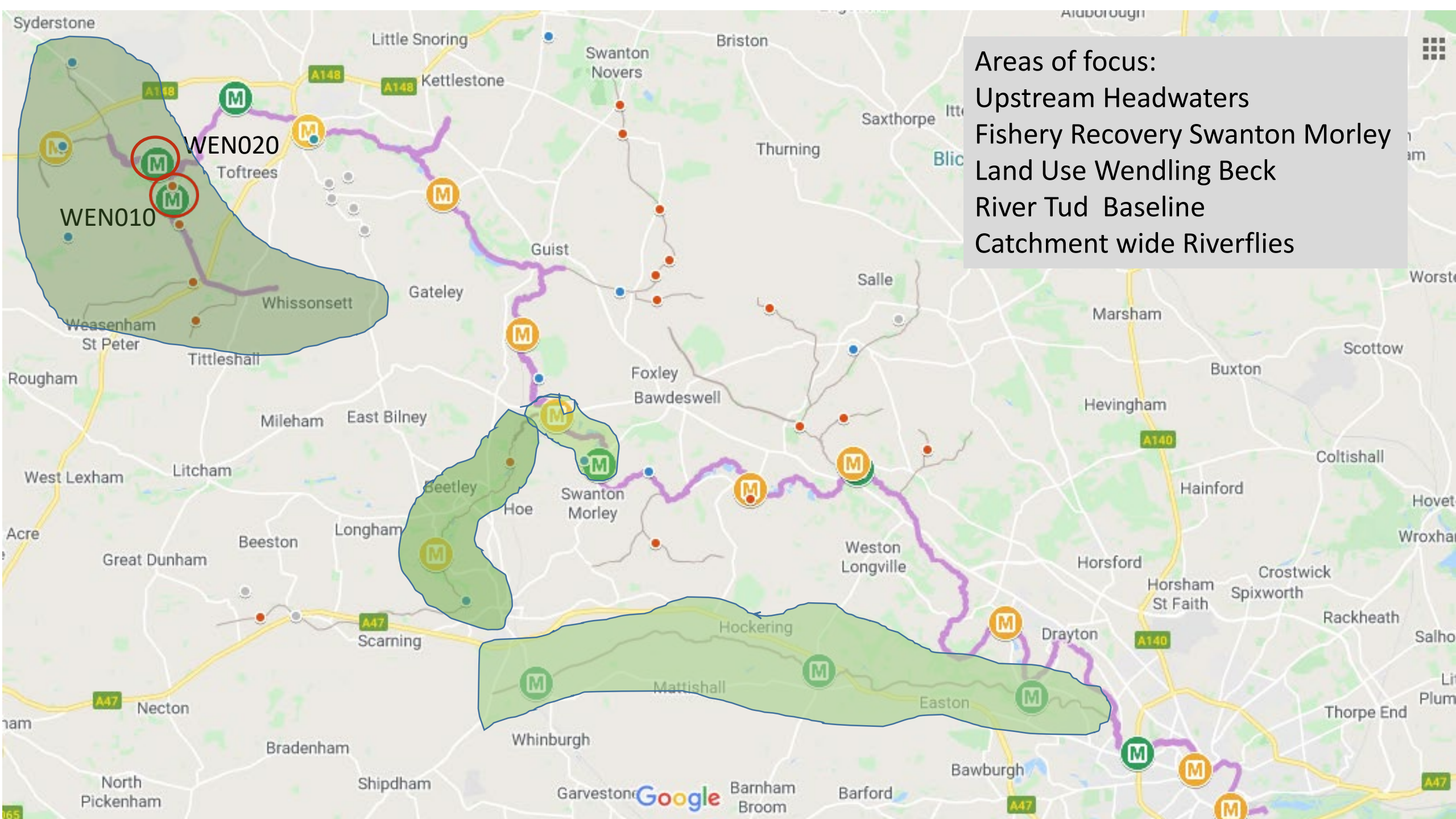
Additional Sampling Site

The Riverfly Partnership

ARMI Riverfiles Site	Active
Tud (Queens Hill)	No
Tud (Gunton Lane)	No
Costesey	No
Taverham	No
Lenwade	Yes
Lyng (Sayers)	Yes
Sparham Hall	No
Swanton Morley	Yes
Home Farm Blackwater	Yes
Bintry Mill	Yes
Pensthorpe	Yes
Tatterford Bridge	Yes
Sculthorpe Moor	Yes
Raynham Hall	Yes

Volunteer Accredited

Chris Adams	Y
Colin Howlett	Y
Dan Hoare	Y
David Harper	Y
Dennis Willis	Y
Geoff Phillips	Y
Graham Gamble	Y
Jeremy Hadaway	Y
Roger Gibbons	Y
Gary Bradshaw	Y
Daniel Owen	N
Carl Stuttard	N
Graham Riley	N
Ian Paterson	N
Chris Bone	N
Chris Roberts	N
Kevin Freezer	N



Areas of focus:

- Upstream Headwaters
- Fishery Recovery Swanton Morley
- Land Use Wendling Beck
- River Tud Baseline
- Catchment wide Riverflies



Broads Catchment Partnership

Wensum Catchment Partnership



NORFOLK
RIVERS TRUST



CaSTCo



Wensum Monitoring Dashboard 2023

Compartment	SSSI Unit Number	Reach Number	Section	Length	River Restoration	Fishing Rights	Target Fishery	Invasive																	Fish										SAC Desg White Crayfish	SAC Desg Desmoulin's snail	SAC Desg Brook lamprey	SAC Desg Bullhead
								Plant Species	Fish Roach Density	Fish Dace Density	Fish Chub Density	Fish Pike Density	Fish Trout Density	Inverts Score	Chem P	Chem A	Chem N	Chem Solids	Flow	Habitats	Fish Passage	Geomorphology Restoration	Macrophytes	NNIS														
								%	100m2	100m2	100m2	100m2	100m2	Score	mg/l	mg/l	mg/l	mg/l	% HOF	Metres	Pass	Percentage	?	?														
1	N/A	N/A	Yare - New Mills	4.39																	Eel	0%	40							0.00	0.09							
2	N/A	N/A	New Mills - Hellesdon Mill	4.23		4.23	Coarse	100	2.4	0.52	2.07	0.17	0.02		0.06	0.04	5.92	5.73	47		Eel	0%	40							0.00	0.09							
3	54	RWRS 01	Hellesdon Mill - Mount Farm	1.65			Coarse	100	2.4	0.52	2.07	0.17	0.02		0.06	0.04	5.92	5.73	47		Full	0%	40							0.00	0.09							
3	54	RWRS 02	Mount Farm - Costessey Mill	3.16	0.72	1.4	Coarse	100	2.4	0.52	2.07	0.17	0.02		0.06	0.04	5.92	5.73	47		Eel	23%	40							0.00	0.09							
4	54	RWRS 03	Costessey Mill - Taverham Mill	3.91	1.5	1.03	Coarse	100	2.12	2.58	5.98	0.39	0.00		0.06	0.04	5.92	5.73	47		Eel	38%	40							0.00	0.09							
5	53	RWRS 04	Taverham Mill - Northfields	1.49		0.8		25	2.12	2.58	5.98	0.39	0.00		0.06	0.04	5.92	5.73	47			0%	40							0.07	0.19							
5	53	RWRS 05	Northfields - Downstream Ringland	2.56				25	2.12	2.58	5.98	0.39	0.00		0.06	0.04	5.92	5.73	47			0%	40							0.07	0.19							
5	53	RWRS 06	Downstream Ringland -Ringland Road	0.23	0.23			25	2.12	2.58	5.98	0.39	0.00		0.06	0.04	5.92	5.73	47			100%	40							0.07	0.19							
5	53	RWRS 07	Ringland Road - Attlebridge Hall	3.62	0.41			25	2.12	2.58	5.98	0.39	0.00		0.06	0.04	5.92	5.73	47			11%	40							0.07	0.19							
6	53	RWRS 08	Attlebridge Hall - Morton Bridge	1.25	1.25			100	2.12	2.58	5.98	0.39	0.00		0.06	0.04	5.92	5.73	47	100		100%	40							0.07	0.19							
6	53	RWRS 09	Morton Bridge - Slade Plantation	1.11	0.34			100	2.12	2.58	5.98	0.39	0.00		0.06	0.04	5.92	5.73	47			31%	40							0.07	0.19							
6	53	RWRS 10	Slade Plantation - Lenwade Mill	2.94		2.358		100	2.12	2.58	5.98	0.39	0.00		0.06	0.04	5.92	5.73	47			0%	40							0.07	0.19							
7	52	RWRS 11	Lenwade Mill - Walsis Hill	2.43		1.458	Coarse	0	0.7	1.97	3.7	0.42	0.03		0.06	0.04	6.14	5.65	47			0%	40							0.42	0.24							
7	52	RWRS 12	Walsis Hill - Lyng Mill	2.15	2.15	2.15	Coarse	0	0.7	1.97	3.7	0.42	0.03	12	0.06	0.04	6.14	5.65	47	500		100%	40							0.42	0.24							
8	52	RWRS 13	Lyng Mill - Elsing Mil	3.74		4.13	Coarse	0	1.91	3.21	2.01	1.49	0	13	0.06	0.04	6.67	5.17	47			0%	40							0.00	0.00							
9	51	RWRS 14	Elsing Mill - Swanton Morley Mill	4.71	0.88	2.08	Coarse	0	1.91	3.21	2.01	1.49	0	7	0.06	0.04	6.67	5.17	47	2200		19%	40							0.00	0.00							
10	51	RWRS 15	Swanton Morley Mill - Riverside Farm	2.52		2.212	Coarse	0	1.02	0.20	0.08	0.59	0.05		0.05	0.03	9.09	6.00	99			0%	40							0.05	0.05							
10	51	RWRS 16	Riverside Farm - North Elmham Mill	1.17		0.867	Coarse	0	1.02	0.20	0.08	0.59	0.05		0.05	0.03	9.09	6.00	99	500		0%	40							0.05	0.05							
11	50	RWRS 17	North Elmham Mill - Bintree Woods	2.6				0	0.42	0.00	0.00	0.43	0.43	17	0.05	0.03	9.09	6.00	99			0%	40							1.83	1.75							
11	50	RWRS 18	Bintree Woods - Dell View Farm	0.86				0	0.42	0.00	0.00	0.43	0.43	17	0.05	0.03	9.09	6.00	99			0%	40							1.83	1.75							
12	50	RWRS 19	Dell View Farm - Bintry Mill	2.67	2.67	0.405	Coarse	0	0.42	0.00	0.00	0.43	0.43		0.05	0.03	9.09	6.00	99			100%	40							0.00	1.00							
13	49	RWRS 20	Bintry Mill - Guist Common	2.01		0.93	Game	100	0.42	0.00	0.00	0.43	0.43		0.05	0.03	9.09	6.00	99			0%	40							1.83	1.75							
13	49	RWRS 21	Guist Common - Great Ryburgh Mill	3.31	1.32			100	0.42	0.00	0.00	0.43	0.43		0.05	0.03	9.09	6.00	99			40%	40							1.83	1.75							
14	48	RWRS 22	Great Ryburgh Mill - Pensthorpe Wildfowl Park	2.38		0.362	Mixed	25	0.42	0.00	0.00	0.43	0.43		0.05	0.03	9.09	6.00	99			0%	40							1.83	1.75							
14	48	RWRS 23	Pensthorpe Wildfowl Park - Great Ryburgh Commor	1.98	1.98		Mixed	25	0.42	0.00	0.00	0.43	0.43		0.05	0.03	9.09	6.00	99			100%	40							1.83	1.75							
14	48	RWRS 24	Great Ryburgh Common	0.18	0.175		Mixed	0	0.42	0.00	0.00	0.43	0.43		0.05	0.03	9.09	6.00	99			97%	40							1.83	1.75							
14	48	RWRS 25	Great Ryburgh Common - Fakenham Mill	1.96		1.914	Mixed	25	0.42	0.00	0.00	0.43	0.43		0.05	0.03	9.09	6.00	99			0%	40							1.83	1.75							
15	47	RWRS 26	Fakenham Mill - Hempton	0.46		0.46		100						12	0.05	0.03	9.09	6.00	74			0%	40							0.00	0.00							
15	47	RWRS 27	Hempton - Sculthorpe Moor	1.72	1.72	1.72	Mixed	0						11	0.05	0.03	9.09	6.00	74			100%	40							0.00	0.00							
15	47	RWRS 28	Sculthorpe Moor - Sculthorpe Mill	1.25	0.405		Mixed	0						11	0.05	0.03	9.44	4.8	74			32%	40							0.00	0.00							
16	47	RWRS 29	Sculthorpe Mill - South Mill Farm	2.63	0.85		Mixed	0						11	0.05	0.04	7.8	4.84	74			32%	40							0.00	0.00							
17	47	RWRS 30	South Mill Farm - River Tat confluence	0.67	0.65			0						13	0.05	0.04	7.8	4.84	74			97%	40							0.00	5.00							
17	46	RWRS 31	Tat confluence	0.48				0						13	0.05	0.04	7.8	4.84	74			0%	40							0.00	5.00							
17	46	RWRS 33	Tatterford Common - Helhoughton Common	0.72				0						15	0.05	0.04	5	5.29	74			0%	40							0.00	8.00							
17	45	RWRS 34	Helhoughton Common - Brickkiln Plantation	1.57	1.57			0						13	0.05	0.04	5	5.29	74			100%	40							0.00	8.00							
18	45	RWRS 35	Brickkiln Plantation - West Raynham	0.71	0.71			0						9	0.05	0.03	5	5.29	74			100%	40							0.00	8.00							
18	45	RWRS 36	West Raynham - South Raynham Bridge	1.41	1.41			0						9	0.05	0.03	5	5.29	74			100%	40							0.00	8.00							
18	45	RWRS 37	South Raynham Bridge - Normans Burrow Wood	0.72	0.72			0						9	0.05	0.03	5	5.29	74			100%	40							0.00	8.00							
18	45	RWRS 38	Normans Burrow Wood - Pear Tree Corner	0.85	0.85			100						6	0.62	0.46	5	5.29	74			100%	40							0.00	8.00							
19	46	RWRS 32	Tat Tatterford Common	3.28	2.19			0	0.00	0.00	0	0.00	3.28	8	0.12	0.11	5	5.29	74			67%	40							0.00	5.00							
20		RWRS	Tat River Tat Coxford	3.25				0	0.00	0.00	0	0.00	5.33	2	0.73	0.11	5					0%	40							0.00	5.00							
20A		RWRS	Tat River Tat East Rudham	3.53				0						8	0.84	0.02	20						40															
21		RWRS	Langor Drain	1.98				0																														
22		RWRS	Guist Drain	0.74				0																														
23		RWRS	Wendling Beck - Dillington - Worthing	6.90				0							0.03	0.04																						