

Appendix 7-5a - River Habitat Survey (TOBIN - June 2022)



RIVER HABITAT SURVEY (SITE VISIT ON 29TH AND 30TH OF JUNE 2022)

Sampling site	Reach extent (m)	Riparian Vegetation	Left Bank Features	Left Bank Features	Channel shading	Left Bank Height (m)	Right Bank Height (m)	Bank Width (m)			Wet Width (m)			Water Level	Velocity	Macrophytes	Left Bank Land Use	Right Bank Land Use
								Start	Middle	End	Start	Middle	End					
1	30	Gorse (<i>Ulex europaeus</i>)	Scrub	None	Light (<25%)	4	4	2.5	2.5	2.5	2	2	2	Normal	Moderate	Yellow Iris (<i>Iris pseudacorus</i>)	Cutaway Bog	Cutaway Bog
		Alder (<i>Alnus glutinosa</i>)														Water Mint (<i>Mentha aquatica</i>)		
		Willow (<i>Salix</i> sp.)														Bulrush (<i>Typha latifolia</i>)		
		Field Horsetail (<i>Equisetum arvense</i>)														Common Water-crowfoot (<i>Ranunculus aquatilis</i>)		
		Field Bindweed (<i>Convolvulus arvensis</i>)																
		Oxeye Daisy (<i>Leucanthemum vulgare</i>)																
		Rough Hawkbit (<i>Leontodon hispidus</i>)																
		Sweet Vernal-grass (<i>Anthoxanthum odoratum</i>)																

Sampling site	Reach extent (m)	Riparian Vegetation	Left Bank Features	Left Bank Features	Channel shading	Left Bank Height (m)	Right Bank Height (m)	Bank Width (m)			Wet Width (m)			Water Level	Velocity	Macrophytes	Left Bank Land Use	Right Bank Land Use
		Tall Fescue (<i>Schedonorus arundinaceus</i>) Cocksfoot (<i>Dactylis glomerata</i>)																
6	35	Willow (<i>Salix</i> sp.) Bracken (<i>Pteridium aquilinum</i>) Meadowsweet (<i>Filipendula ulmaria</i>) Great Willowherb (<i>Epilobium hirsutum</i>) Nettle (<i>Urtica dioica</i>) Marsh Thistle (<i>Cirsium palustre</i>)	N/A	N/A	Medium (<50%)	2.5	2.5	4	4	4	3.5	3.5	3.5	Normal	Moderate	Branched Bur-reed (<i>Sparganium erectum</i>) Duckweed (<i>Lemna</i> spp.) Common Water-crowfoot (<i>Ranunculus aquatilis</i>)	Other	Other

Sampling site	Reach extent (m)	Riparian Vegetation	Left Bank Features	Left Bank Features	Channel shading	Left Bank Height (m)	Right Bank Height (m)	Bank Width (m)			Wet Width (m)			Water Level	Velocity	Macrophytes	Left Bank Land Use	Right Bank Land Use
		Tall Fescue (<i>Schedonorus arundinaceus</i>) Cocksfoot (<i>Dactylis glomerata</i>) Perennial Rye-grass (<i>Lolium perenne</i>)						Start	Middle	End	Start	Middle	End					
7	15	Field Bindweed (<i>Convolvulus arvensis</i>) Nettle (<i>Urtica dioica</i>) Bramble (<i>Rubus fruticosus</i> agg.) Great Willowherb (<i>Epilobium hirsutum</i>) Willow (<i>Salix</i> spp.) Marsh Valerian (<i>Valeriana dioica</i>)	Treeline	Scrub	Light (<25%)	0.75	0.75	7	7	7	5	5	5	Flood	Slow	Water Mint (<i>Mentha aquatica</i>) Common Reed (<i>Phragmites australis</i>)	Pasture	Other
2	25	Reed Canary-grass (<i>Phalaris arundinaceae</i>)	Fence	Fence	Light	2	1	7	7	7	6	6	6	Flood	Slow	None	Woodland	Other

Sampling site	Reach extent (m)	Riparian Vegetation	Left Bank Features	Left Bank Features	Channel shading	Left Bank Height (m)	Right Bank Height (m)	Bank Width (m)			Wet Width (m)			Water Level	Velocity	Macrophytes	Left Bank Land Use	Right Bank Land Use
		Ash (<i>Fraxinus excelsior</i>) Great Willowherb (<i>Epilobium hirsutum</i>) Bramble (<i>Rubus fruticosus</i> agg.) Nettle (<i>Urtica dioica</i>) Field Bindweed (<i>Convolvulus arvensis</i>) Meadowsweet (<i>Filipendula ulmaria</i>) Marsh Hawk's-beard (<i>Crepis paludosa</i>)																
8	15	Alder (<i>Alnus glutinosa</i>) Willow (<i>Salix</i> sp.) Blackthorn (<i>Prunus Spinosa</i>)	Treeline	Treeline	Full (>75%)	2.5	2.5	7	7	7	5	5	5	Normal	Very Slow	None	Cutaway Bog	Pasture

Sampling site	Reach extent (m)	Riparian Vegetation	Left Bank Features	Left Bank Features	Channel shading	Left Bank Height (m)	Right Bank Height (m)	Bank Width (m)			Wet Width (m)			Water Level	Velocity	Macrophytes	Left Bank Land Use	Right Bank Land Use
		Sycamore (<i>Acer pseudoplatanus</i>) Ash (<i>Fraxinus excelsior</i>) Bramble (<i>Rubus fruticosus</i> agg.) Creeping Thistle (<i>Cirsium arvense</i>) Field Bindweed (<i>Convolvulus arvensis</i>)																
4	15 m	Hawthorn (<i>Crataegus monogyna</i>) Ash (<i>Fraxinus excelsior</i>) Ivy (<i>Hedera hibernica</i>) Creeping Thistle (<i>Cirsium arvense</i>)	None	Treeline	Light (<25%)	3.5	3.5	7	7	7	5.5	5.5	5.5	Flood	Moderate	Branched Bur-reed (<i>Sparganium erectum</i>)	Pasture	Pasture

Sampling site	Reach extent (m)	Riparian Vegetation	Left Bank Features	Left Bank Features	Channel shading	Left Bank Height (m)	Right Bank Height (m)	Bank Width (m)			Wet Width (m)			Water Level	Velocity	Macrophytes	Left Bank Land Use	Right Bank Land Use
		Bramble (<i>Rubus fruticosus</i> agg.) Hart's-tongue (<i>Asplenium scolopendrium</i>) Creeping Buttercup (<i>Ranunculus repens</i>) Cleavers (<i>Galium aparine</i>) Blackthorn (<i>Prunus Spinosa</i>)																
5	15	Dock (<i>Rumex</i> spp.) Hawthorn (<i>Crataegus monogyna</i>) Nettle (<i>Urtica dioica</i>) Yorkshire Fog (<i>Holcus lanatus</i>) Great Willowherb (<i>Epilobium hirsutum</i>)	Hedgerow	Electric fence	Light (<25%)	1	1	5	5	5	5	5	5	Flood	Moderate	Common Water-crowfoot (<i>Ranunculus aquatilis</i>) Water Mint (<i>Metha aquatica</i>)	Pasture	Pasture

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		Dog-rose (<i>Rosa canina</i>)																
3	15	Marsh Valerian (<i>Valeriana dioica</i>)	None	Fenced	Light (<25%)	2.5	2	6	6	6	5	5	5	Flood	Slow	Duckweed (<i>Lemna</i> spp.)	Cutaway Bog	Pasture
		Meadowsweet (<i>Filipendula ulmaria</i>)														Branched Bur-reed (<i>Sparganium erectum</i>)		
		Willow (<i>Salix</i> sp.)														Water Mint (<i>Metha aquatica</i>)		
		Marsh Thistle (<i>Cirsium palustre</i>)														Yellow Water-lily (<i>Nuphar lutea</i>)		
		Bracken (<i>Pteridium aquilinum</i>)																
		Bramble (<i>Rubus fruticosus</i> agg.)																
		Dock (<i>Rumex</i> spp.)																
		Field Bindweed (<i>Convolvulus arvensis</i>)																
		Great Willowherb (<i>Epilobium hirsutum</i>)																

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