

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE:	Oldacre Burn
DATE:	Spring 2024
LWD species: <i>Lype reducta</i>	



TAXON	
<i>Gammarus pulex/fossarum</i>	309
<i>Agapetus fuscipes</i>	12
<i>Chaetopteryx villosa</i>	11
<i>Limnephilus lunatus</i>	24
<i>Sericostoma personatum</i>	4
<i>Glyphotaelius pellucidus</i>	8
<i>Orthocladiinae</i>	36
<i>Lepidostoma hirtum</i>	1
<i>Potamophylax cingulatus</i>	11
<i>Caenis rivulorum</i> group	9
<i>Leuctra nigra</i>	5
<i>Chloroperla torrentium</i>	4
<i>Baetis muticus</i>	6
<i>Baetis rhodani/atlanticus</i>	12
<i>Rhithrogena</i>	38
<i>Scirtes</i>	13
<i>Stenophylax permistus</i>	3
<i>Hydropsyche pellucidula</i>	13
<i>Plectrocnemia conspersa</i>	2
<i>Lype reducta</i>	1
<i>Wormaldia occipitalis</i>	5
<i>Tipula</i>	1

[illegible][illegible]

Saprobic index	1.75
PSI	84.62
LIFE	8.20
CCI	10.00
BMWP	124.00
ASPT	7.29
NTAXA	17.00
EPT sp (taxa)	18.00
EPT ab	169.00
TOTAL ab	529.00
WHPT	138.30
WHPT ASPT	7.68
TRPI	99.98

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE:	Cressel Brook - Milford Hall
DATE:	Spring 2024
White-clawed Crayfish present	



TAXON	
<i>Gammarus pulex/fossarum</i>	573
<i>Halesus digitatus</i>	1
<i>Limnephilus lunatus</i>	27
<i>Halesus radiatus</i>	5
<i>Agapetus fuscipes</i>	13
<i>Scirtes</i>	21
<i>Dicranota</i>	5
<i>Isoperla grammatica</i>	12
<i>Orthocladiinae</i>	25
<i>Caenis rivulorum group</i>	18
<i>Potamophylax cingulatus</i>	1
<i>Pisidium</i>	15
<i>Ancylus fluviatilis</i>	7
<i>Glossiphonia complanata</i>	9
<i>Simulium</i>	3
<i>Baetis rhodani/atlanticus</i>	22
<i>Glyphotaelius pellucidus</i>	10
<i>Hydropsyche pellucidula</i>	8
<i>Rhithrogena</i>	3
<i>Austropotamobius pallipes</i>	1

TAXON	

TAXON	

Saprobic index	1.90
PSI	68.57
LIFE	7.83
CCI	14.00
BMWP	96.00
ASPT	6.00
NTAXA	16.00
EPT sp (taxa)	11.00
EPT ab	120.00
TOTAL ab	779.00
WHPT	99.80
WHPT ASPT	6.24
TRPI	100.00

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE:	Sher Brook upstream - Cherry Slade
DATE:	Spring 2024
LWD species: <i>Lype reducta</i> & <i>Dicranota robusta</i> . Brook Lamprey ammocoetes present.	



TAXON	
<i>Limnephilus lunatus</i>	3
<i>Halesus radiatus</i>	3
<i>Odontocerum albicorne</i>	3
<i>Drusus annulatus</i>	6
<i>Sericostoma personatum</i>	12
<i>Scirtes</i>	11
<i>Silo pallipes</i>	3
<i>Lype reducta</i>	1
<i>Caenis rivulorum</i> group	9
<i>Glyphotaelius pellucidus</i>	8
<i>Plectrocnemia conspersa</i>	1
<i>Hydraena gracilis</i>	8
<i>Rhithrogena</i>	47
<i>Baetis muticus</i>	6
<i>Chloroperla torrentium</i>	6
<i>Nemoura avicularis</i>	14
<i>Baetis rhodani/atlanticus</i>	9
<i>Gammarus pulex/fossarum</i>	126
<i>Pisidium</i>	3
<i>Pilaria</i>	1
<i>Dicranota robusta</i>	3
<i>Ptychoptera</i>	1

[illegible][illegible]

Saprobic index	1.63
PSI	73.33
LIFE	7.96
CCI	9.52
BMWP	135.00
ASPT	6.43
NTAXA	21.00
EPT sp (taxa)	16.00
EPT ab	141.00
TOTAL ab	326.00
WHPT	161.20
WHPT ASPT	7.01
TRPI	88.89

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE:	Sher Brook downstream - Alder Carr
DATE:	Spring 2024
LWD species: <i>Hydatophylax infumatus</i> . Brook lamprey ammocoetes present.	



TAXON		TAXON		TAXON	
<i>Gammarus pulex/fossarum</i>	5	<i>Isoperla grammatica</i>	6		
<i>Sialis lutaria</i>	1	<i>Chloroperla torrentium</i>	6		
<i>Anacaena lutescens</i>	1	<i>Leuctra nigra</i>	1		
<i>Limnius volckmari</i>	1	<i>Ptychoptera</i>	5		
<i>Hydropsyche pellucidula</i>	4	<i>Glossosoma boltoni</i>	1		
<i>Elmis aenea</i>	5	<i>Hydropsyche pellucidula</i>	4		
<i>Hydraena gracilis</i>	1	<i>Agapetus fuscipes</i>	19		
<i>Pericoma</i>	1	<i>Glossiphonia heteroclita</i>	2		
<i>Orthocladinae</i>	1	<i>Pilania</i>	1		
<i>Caenis rivulorum group</i>	2	<i>Pedicia</i>	6		
<i>Rhyacophila dorsalis</i>	1	<i>Tabanidae</i>	1		
<i>Glyptotendipes pallidus</i>	6	<i>Silo pallipes</i>	9		
<i>Gyraulax albus</i>	1	<i>Limnephilus lunatus</i>	14		
<i>Gammarus pulex</i>	945	<i>Hydatophylax infumatus</i>	1		
<i>Potamophylax cingulatus</i>	6				
<i>Sericostoma personatum</i>	2				
<i>Ephemera danica</i>	13				
<i>Rhithrogena</i>	14				
<i>Plectrocnemia conspersa</i>	1				
<i>Baetis rhodani/atlanicus</i>	6				
<i>Nemoura avicularis</i>	11				
<i>Halesus radiatus</i>	5				

Saprobic index	1.88
PSI	58.93
LIFE	7.80
CCI	10.00
BMWP	145.00
ASPT	6.59
NTAXA	22.00
EPT sp (taxa)	20.00
EPT ab	130.00
TOTAL ab	1109
WHPT	185.40
WHPT ASPT	6.87
TRPI	98.89

Staffordshire Wildlife Trust - CCh SPRING 2024

1 - Oldacre Burn - Brocton

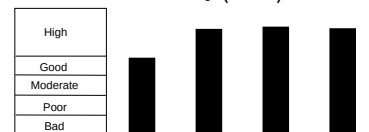
2 - Cressel Brook (Oldacre Burn) - Milford

3 - Sher Brook U/S - Cherry Slade

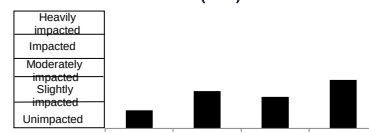
4 - Sher Brook D/S - Alder Carr

	1	2	3	4
BMWP	124	96	135	145
ASPT	7.29	6.00	6.43	6.59
WHPT	138.3	99.8	161.2	185.4
WHPT ASPT	7.68	6.24	7.01	6.87
R	23	20	29	36
Riverfly - species	18	11	16	20
Riverfly - numbers	169	120	326	130
CCI	10.00	14.00	9.52	10.00
LIFE	8.20	7.83	7.96	7.80
PSI	84.62	68.57	73.33	58.93
SPEAR	42.61	58.55	59.72	58.87
TRPI	98.00	83.33	88.89	97.90
Saprobic	1.75	1.90	1.63	1.88

Pesticide Rating (SPEAR)



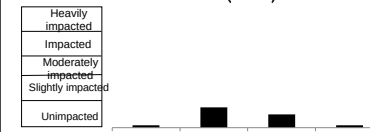
Siltation (PSI)



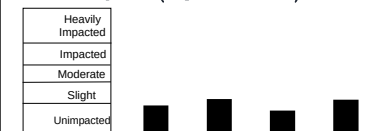
Flow (LIFE)



Nutrient 'P' (TRPI)



Organic (Saprobic value)



RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE:	Old Brook - Abrahams Valley
DATE:	Spring 2024
LWD @ species: <i>Epiphragma ocellare</i> & <i>Lype reducta</i>	



TAXON	
<i>Gammarus pulex/fossarum</i>	247
<i>Agapetus fuscipes</i>	51
<i>Odontocerum albicorne</i>	2
<i>Silo pallipes</i>	4
<i>Wormaldia occipitalis</i>	4
<i>Ptychoptera</i>	1
<i>Rhyacophila dorsalis</i>	1
<i>Sericostoma personatum</i>	4
<i>Potamophylax cingulatus</i>	18
<i>Caenis rivulorum</i> group	15
<i>Perlodes microcephalus</i>	1
<i>Nemoura avicularis</i>	2
<i>Leuctra nigra</i>	2
<i>Chloroperla torrentium</i>	2
<i>Rhithrogena</i>	25
<i>Scirtes</i>	5
<i>Serratella ignita</i>	6
<i>Baetis rhodani/atlanticus</i>	11
<i>Plectrocnemia conspersa</i>	1
<i>Glyphotaelius pellucidus</i>	4
<i>Lype reducta</i>	1
<i>Epiphragma ocellare</i>	1

[illegible][illegible]

Saprobic index	1.56
PSI	81.08
LIFE	8.30
CCI	10.00
BMWP	144.00
ASPT	8.00
NTAXA	18.00
EPT sp (taxa)	18.00
EPT ab	154.00
TOTAL ab	408.00
WHPT	163.90
WHPT ASPT	8.20
TRPI	100.00

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE: Stafford Brook - Bevins Beeches

DATE: Spring 2024

ADDITIONAL INFORMATION:



TAXON	
<i>Gammarus pulex/fossarum</i>	494
<i>Dixa</i>	1
<i>Ptychoptera</i>	3
<i>Sericostoma personatum</i>	3
<i>Potamophylax cingulatus</i>	13
<i>Chloroperla torrentium</i>	1
<i>Nemoura avicularis</i>	8
<i>Isoperla grammatica</i>	2
<i>Rhithrogena</i>	1
<i>Caenis rivulorum group</i>	81
<i>Plectrocnemia conspersa</i>	1
<i>Velia saulii</i>	1
<i>Limnephilus lunatus</i>	5
<i>Glyptotendipes pallidus</i>	9
<i>Agapetus fuscipes</i>	6
<i>Helobdella stagnalis</i>	1

TAXON	

TAXON	

Saprobic index	1.91
PSI	69.57
LIFE	7.71
CCI	10.00
BMWP	82.00
ASPT	7.45
NTAXA	11.00
EPT sp (taxa)	10.00
EPT ab	49.00
TOTAL ab	630.00
WHPT	103.60
WHPT ASPT	7.40
TRPI	100.00

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE: Stafford Brook SSSI

DATE: Spring 2024

LWD species: *Lype reducta* & *Lipsothrix* species. Brook Lamprey ammocoetes present.



TAXON	
<i>Gammarus pulex/fossarum</i>	918
<i>Hydropsyche pellucidula</i>	44
<i>Hydropsyche siltalai</i>	51
<i>Limnephilus lunatus</i>	5
<i>Agapetus fuscipes</i>	77
<i>Glyphotaelius pellucidus</i>	2
<i>Lype reducta</i>	1
<i>Scirtes</i>	46
<i>Plectrocnemia conspersa</i>	1
<i>Caenis rivulorum group</i>	1
<i>Perlodes microcephala</i>	1
<i>Rhithrogena</i>	36
<i>Baetis rhodani/atlanticus</i>	3
<i>Pedicia</i>	8
<i>Glossiphonia complanata</i>	2
<i>Orthocladiinae</i>	9
<i>Hydracarina</i>	1
<i>Sericostoma personatum</i>	1
<i>Potamophylax latipennis</i>	1
<i>Lipsothrix</i>	1

TAXON	

TAXON	

Saprobic index	1.75
PSI	82.14
LIFE	8.00
CCI	5.57
BMWP	96.00
ASPT	6.40
NTAXA	15.00
EPT sp (taxa)	13.00
EPT ab	224.00
TOTAL ab	1209
WHPT	98.10
WHPT ASPT	6.54
TRPI	100.00

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE: Rising Brook - Furnace Coppice

DATE: Spring 2024

LWD species: *Hydatophylax infumatus*



TAXON		TAXON		TAXON	
<i>Hydatophylax infumatus</i>	1	<i>Calopteryx splendens</i>	1		
<i>Limnephilus lunatus</i>	9	<i>Chloroperla torrentium</i>	14		
<i>Halesus radiatus</i>	1	<i>Chloroperla tripunctata</i>	3		
<i>Sericostoma personatum</i>	1	<i>Nemoura</i>	5		
<i>Glyptotaelius pellucidus</i>	8	<i>Glossiphonia complanata</i>	1		
<i>Rhyacophila dorsalis</i>	1	<i>Ephemera danica</i>	4		
<i>Hydropsyche pellucidula</i>	21	<i>Oligochaeta</i>	3		
<i>Hydropsyche siltalai</i>	3	<i>Athripsodes aterrimus</i>	9		
<i>Chironominae</i>	2	<i>Potamophylax cingulatus</i>	3		
<i>Caenis rivulorum group</i>	28	<i>Piloria</i>	3		
<i>Sericostoma personatum</i>	3	<i>Simulium ornatum group</i>	1		
<i>Orthocladinae</i>	49				
<i>Tanyptodinae</i>	3				
<i>Chelifera</i>	1				
<i>Gammarus pulex/fossarum</i>	359				
<i>Potamopyrgus antipodarum</i>	908				
<i>Pisidium</i>	5				
<i>Radix balthica</i>	1				
<i>Heptagenia sulphurea</i>	1				
<i>Rhithrogena</i>	66				
<i>Ecdyonurus</i>	7				
<i>Baetis rhodani/atlancticus</i>	25				

Saprobic index	2.05
PSI	60.38
LIFE	8.04
CCI	13.70
BMWP	119.00
ASPT	5.95
NTAXA	20.00
EPT sp (taxa)	20.00
EPT ab	213.00
TOTAL ab	1550
WHPT	140.10
WHPT ASPT	6.37
TRPI	71.43

Staffordshire Wildlife Trust - CCh

spring 2024

5 - Old Brook - Abraham's Valley

6 - Stafford Brook - Bevin's Birches

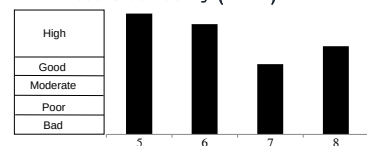
7 - Stafford Brook - SSSI

8 - Rising Brook - Furnace Coppice

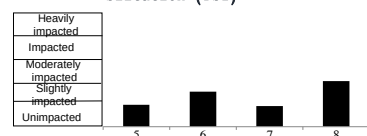


	5	6	7	8
BMWP	139	82	96	119
ASPT	8.18	7.45	6.40	5.90
WHPT	158.5	103.6	98.1	140.1
WHPT ASPT	8.34	7.40	6.54	6.37
$\bar{x}$	21	16	20	32
Riverfly - species	18	10	13	20
Riverfly - numbers	154	630	224	213
CCI	10.00	10.00	5.57	13.70
LIFE	8.30	7.71	8.00	8.06
PSI	81.08	69.57	82.14	60.38
SPEAR	67.76	61.79	39.31	49.49
TRPI	99.10	94.67	95.00	71.43
Saprobic	1.56	1.91	1.75	32.00

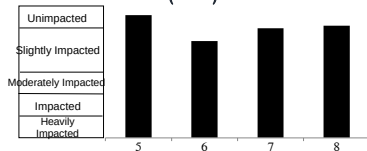
Pesticide Rating (SPEAR)



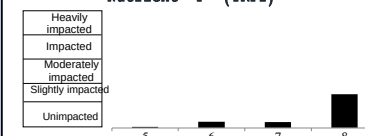
Siltation (PSI)



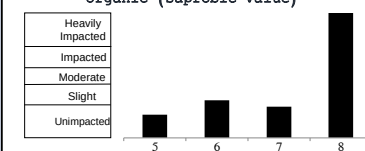
Flow (LIFE)



Nutrient 'P' (TRPI)



Organic (Saprobic value)



RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE:	Rising Brook - Sheepwash Farm
DATE:	Spring 2024
ADDITIONAL INFORMATION: Bullheads, Brown Trout	



TAXON	
<i>Gammarus pulex/fossarum</i>	188
<i>Orectochilus villosus</i>	4
<i>Rhyacophila dorsalis</i>	5
<i>Glossiphonia complanata</i>	2
<i>Pedicia</i>	2
<i>Orthocladiinae</i>	9
<i>Chelifera</i>	1
<i>Pilaria</i>	1
<i>Dicranota</i>	3
<i>Caenis rivulorum</i> group	5
<i>Sericostoma personatum</i>	3
<i>Odontocerum albicorne</i>	4
<i>Silo pallipes</i>	9
<i>Limnephilus lunatus</i>	3
<i>Glyphotaelius pellucidus</i>	6
<i>Agapetus fuscipes</i>	56
<i>Serratella ignita</i>	11
<i>Baetis rhodani/atlanticus</i>	108
<i>Rhithrogena</i>	127
<i>Ecdyonurus</i>	3
<i>Ephemera danica</i>	9
<i>Isoperla grammica</i>	21

[illegible][illegible]

Saprobic index	1.60
PSI	84.21
LIFE	8.50
CCI	13.39
BMWP	139.00
ASPT	6.95
NTAXA	20.00
EPT sp (taxa)	19.00
EPT ab	421.00
TOTAL ab	714.00
WHPT	166.00
WHPT ASPT	7.55
TRPI	98.00

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE: Rising Brook - Slitting Mill

DATE: Spring 2024

White-clawed Crayfish & spawning Brook Lamprey adults



TAXON	
<i>Gammarus pulex/fossarum</i>	208
<i>Hydropsyche pellucidula</i>	37
<i>Hydropsyche siltalai</i>	44
<i>Agapetus fuscipes</i>	39
<i>Silo pallipes</i>	7
<i>Chelifera</i>	2
<i>Limnephilus lunatus</i>	4
<i>Sericostoma personatum</i>	13
<i>Athripsodes aterrimus</i>	1
<i>Caenis rivulorum group</i>	1
<i>Lepidostoma hirtum</i>	1
<i>Halesus radiatus</i>	1
<i>Potamophylax cingulatus</i>	2
<i>Ephemera danica</i>	10
<i>Limnius volckmari</i>	55
<i>Elmis aenea</i>	21
<i>Serratella ignita</i>	9
<i>Baetis rhodani/atlanticus</i>	49
<i>Potamopyrgus antipodarum</i>	687
<i>Sphaerium corneum</i>	19
<i>Orectochilus villosus</i>	7
<i>Pilaria</i>	2

TAXON	
<i>Dicranota</i>	3
<i>Tanypodinae</i>	1
<i>Orthocladiinae</i>	1
<i>Simulium</i>	1
<i>Anabolia nervosa</i>	1
<i>Oligochaeta</i>	3
<i>Potamophylax cingulatus</i>	3
<i>Rhyacophila dorsalis</i>	3
<i>Ecdyonurus</i>	1
<i>Rhithrogena</i>	18
<i>Perlodes microcephala</i>	1
<i>Isoperla grammatica</i>	13
<i>Leuctra</i>	1
<i>Chloroperla torrentium</i>	2
<i>Austropotambius pallipes</i>	2

TAXON	

Saprobic index	1.96
PSI	76.12
LIFE	8.25
CCI	14.00
BMWP	176.00
ASPT	7.04
NTAXA	25.00
EPT sp (taxa)	23.00
EPT ab	261.00
TOTAL ab	1273
WHPT	197.30
WHPT ASPT	7.31
TRPI	100.00

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE:	Fallow Stream - Seven Springs
DATE:	Spring 2024
LWD species: <i>Scleroprocta</i> sp.	



TAXON	
<i>Gammarus pulex/fossarum</i>	20
<i>Agapetus</i>	13
<i>Sericostoma personatum</i>	8
<i>Beraea pullata</i>	2
<i>Glyphotaelius pellucidus</i>	13
<i>Potamophylax cingulatus</i>	1
<i>Rhithrogena</i>	153
<i>Limnephilus lunatus</i>	3
<i>Tanypodinae</i>	1
<i>Caenis rivulorum</i> group	3
<i>Pedicia</i>	1
<i>Simulium angustitarse</i>	1
<i>Elmis aenea</i>	2
<i>Gammarus pulex</i>	479
<i>Scirtes</i>	34
<i>Chloroperla torrentium</i>	25
<i>Nemoura avicularis</i>	13
<i>Radix balthica</i>	1
<i>Potamopyrgus antipodarum</i>	3
<i>Diplectrona felix</i>	1
<i>Scleroprocta</i>	1

[illegible][illegible]

Saprobic index	1.76
PSI	75.68
LIFE	7.94
CCI	11.92
BMWP	100.00
ASPT	6.25
NTAXA	16.00
EPT sp (taxa)	11.00
EPT ab	252.00
TOTAL ab	778.00
WHPT	109.90
WHPT ASPT	6.87
TRPI	100.00

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE: **Stony Brook - Fair Oak**

DATE: **Spring 2024**

Eloeophila trimaculata and *Dicranota robusta* nationally significant



TAXON		TAXON		TAXON	
<i>Gammarus pulex/fossarum</i>	14	<i>Limnius volckmari</i>	1		
<i>Limnophora robusta</i>	1	<i>Elmis aenea</i>	1		
<i>Eloeophila trimaculata</i>	1	<i>Baetis muticus</i>	21		
<i>Dicranota robusta</i>	3	<i>Baetis rhodani/atlancticus</i>	22		
<i>Orthocladiinae</i>	14	<i>Rhithrogena</i>	54		
<i>Gammarus pulex</i>	243	<i>Nemoura avicularis</i>	31		
<i>Tipula</i>	1	<i>Perlodes microcephalus</i>	2		
<i>Drusus annulatus</i>	11	<i>Isoperla grammica</i>	11		
<i>Silo pallipes</i>	14	<i>Leuctra</i>	3		
<i>Caenis rivulorum group</i>	2	<i>Chloroperla torrentium</i>	3		
<i>Agapetus fuscipes</i>	44	<i>Odontocerum albicorne</i>	1		
<i>Glyptotaelius pellucidus</i>	26	<i>Sericostoma personatum</i>	1		
<i>Chaetopteryx villosa</i>	5				
<i>Halesus radiatus</i>	3				
<i>Potamophylax cingulatus</i>	19				
<i>Potamopyrgus antipodarum</i>	25				
<i>Ancylus fluviatilis</i>	3				
<i>Ephemera danica</i>	1				
<i>Scirtes</i>	25				
<i>Wormaldia occipitalis</i>	4				
<i>Rhyacophila dorsalis</i>	2				
<i>Velia saulii</i>	1				

Saprobic index	1.55
PSI	84.75
LIFE	8.26
CCI	13.72
BMWP	160.00
ASPT	7.27
NTAXA	22.00
EPT sp (taxa)	21.00
EPT ab	280.00
TOTAL ab	613.00
WHPT	186.80
WHPT ASPT	7.47
TRPI	100.00

Staffordshire Wildlife Trust CCh 9-12

spring 2024

9 - Rising Brook - Sheepwash Farm

10 - Rising Brook - Slitting Mill

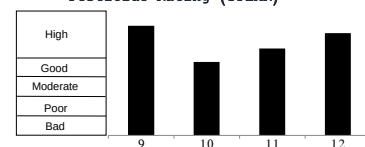
11 - Fallow Stream - Seven Springs

12 - Stony Brook - Fair Oak

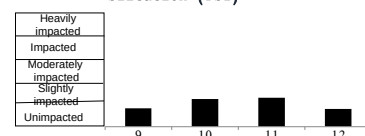


	9	10	11	12
BMWP	139	176	100	160
ASPT	6.95	7.04	6.25	7.27
WHPT	166	197.3	109.9	186.8
WHPT ASPT	7.55	7.31	6.87	7.47
R	29	37	20	34
Riverfly - species	19	23	11	21
Riverfly - numbers	420	261	252	280
CCI	13.39	14.00	11.92	13.72
LIFE	8.50	8.25	7.94	8.26
PSI	84.21	76.12	75.00	84.75
SPEAR	61.57	41.18	48.78	57.43
TRPI	99.00	85.00	97.00	92.00
Saprobic	1.60	1.96	1.76	1.55

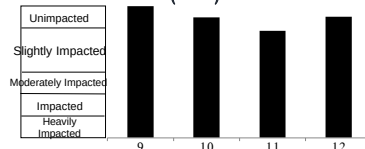
Pesticide Rating (SPEAR)



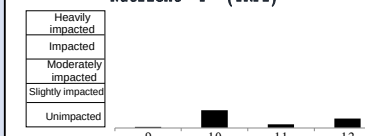
Siltation (PSI)



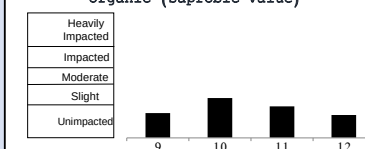
Flow (LIFE)



Nutrient 'P' (TRPI)



Organic (Saprobic value)



RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE:	Stony Brook - Birches Valley
DATE:	Spring 2024
LWD species: <i>Lype reducta</i> & <i>Lipsothrix</i> species. White-clawed Crayfish.	



TAXON	
<i>Gammarus pulex/fossarum</i>	37
<i>Agapetus fuscipes</i>	1
<i>Diplectrona felix</i>	1
<i>Lype reducta</i>	6
<i>Rhyacophila dorsalis</i>	1
<i>Wormaldia occipitalis</i>	2
<i>Gammarus pulex</i>	
<i>Ephemera danica</i>	8
<i>Scirtes</i>	1
<i>Caenis rivulorum group</i>	1
<i>Limnephilus lunatus</i>	3
<i>Silo pallipes</i>	26
<i>Chaetopteryx villosa</i>	1
<i>Elmis aenea</i>	21
<i>Simulium</i>	18
<i>Ancylus fluviatilis</i>	9
<i>Isoperla grammatica</i>	9
<i>Ecdyonurus</i>	3
<i>Rhithrogena</i>	27
<i>Leuctra</i>	3
<i>Chloroperla torrentium</i>	7
<i>Baetis rhodani/atlanticus</i>	43

[illegible][illegible]

Saprobic index	1.85
PSI	85.71
LIFE	8.41
CCI	15.05
BMWP	151.00
ASPT	7.19
NTAXA	21.00
EPT sp (taxa)	19.00
EPT ab	184.00
TOTAL ab	593.00
WHPT	169.00
WHPT ASPT	7.35
TRPI	100.00

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE:	Brereton Brook - Brereton
DATE:	Spring 2024
<i>Oxycera morrisii</i> is Nationally Scarce	



TAXON	
<i>Gammarus pulex/fossarum</i>	6
<i>Hydropsyche pellucidula</i>	57
<i>Chaetopteryx villosa</i>	3
<i>Scirtes</i>	41
<i>Gammarus pulex</i>	1129
<i>Glossiphonia complanata</i>	6
<i>Erpobdella octoculata</i>	1
<i>Tipula</i>	1
<i>Pilaria</i>	1
<i>Caenis rivulorum</i> group	3
<i>Tabanidae</i>	1
<i>Tanytarsini</i>	2
<i>Pedicia</i>	1
<i>Prodiamesa olivacea</i>	1
<i>Oxycera morrisii</i>	2
<i>Anacaena lutescens</i>	1
<i>Helophorus</i>	1
<i>Limnius volckmari</i>	1
<i>Plectrocnemia conspersa</i>	1
<i>Amphinemura sulcicollis</i>	19
<i>Baetis rhodani/atlanticus</i>	11
<i>Limnephilus lunatus</i>	1

[illegible][illegible]

Saprobic index	1.97
PSI	58.97
LIFE	7.50
CCI	14.88
BMWP	87.00
ASPT	5.12
NTAXA	17.00
EPT sp (taxa)	9.00
EPT ab	102.00
TOTAL ab = 1329	1329.00
WHPT	113.50
WHPT ASPT	5.68
TRPI	100.00

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE:	Shropshire Brook - Beaudesert Old Park
DATE:	Spring 2024
White-clawed Crayfish present	



TAXON	
<i>Gammarus pulex/fossarum</i>	11
<i>Ptychoptera</i>	29
<i>Eloeophila trimaculata</i>	1
<i>Tanytarsini</i>	3
<i>Gammarus pulex</i>	598
<i>Scirtes hemisphaericus</i>	17
<i>Ecdyonurus</i>	6
<i>Simulium ornatum group</i>	5
<i>Ephemera danica</i>	3
<i>Caenis rivulorum group</i>	3
<i>Baetis rhodani/atlanticus</i>	1
<i>Chloroperla torrentium</i>	1
<i>Limnephilus lunatus</i>	4
<i>Amphinemura sulcicollis</i>	1
<i>Hydropsyche pellucidula</i>	3
<i>Wormaldia occipitalis</i>	1
<i>Austropotamobius pallipes</i>	2

TAXON	

TAXON	

Saprobic index	1.99
PSI	73.08
LIFE	8.27
CCI	12.83
BMWP	105.00
ASPT	6.56
NTAXA	16.00
EPT sp (taxa)	9.00
EPT ab	23.00
TOTAL ab	689.00
WHPT	115.90
WHPT ASPT	6.82
TRPI	100.00

RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE: Shropshire Brook - Hare's Hill

DATE: Spring 2024

LWD species: *Lype reducta* & *Chelifera* sp. White-clawed Crayfish present. Adult Turkey B



TAXON		TAXON		TAXON	
<i>Gammarus pulex/fossarum</i>	3	<i>Heptagenia sulphurea</i>	5		
<i>Athripsodes aterrimus</i>	22	<i>Baetis rhodani/atlancticus</i>	6		
<i>Ptychoptera</i>	8	<i>Austropotamobius pallipes</i>	4		
<i>Ephemera danica</i>	29				
<i>Dicranota</i>	7				
<i>Tanypodinae</i>	3				
<i>Orthocladinae</i>	14				
<i>Simulium</i>	7				
<i>Chelifera</i>	1				
<i>Caenis rivulorum group</i>	2				
<i>Pilaria</i>	1				
<i>Gammarus pulex</i>	163				
<i>Pisidium</i>	25				
<i>Ecdyonurus</i>	49				
<i>Polycentropus irroratus</i>	4				
<i>Hydropsyche pellucidula</i>	3				
<i>Baetis muticus</i>	53				
<i>Amphinemura sulciatilis</i>	1				
<i>Lype reducta</i>	1				
<i>Isoperla grammica</i>	2				
<i>Chloroperla torrentium</i>	5				
<i>Rhythrogena</i>	5				

Saprobic index	1.79
PSI	65.00
LIFE	8.10
CCI	18.67
BMWP	118.00
ASPT	6.56
NTAXA	18.00
EPT sp (taxa)	14.00
EPT ab	188.00
TOTAL ab	423.00
WHPT	133.40
WHPT ASPT	6.67
TRPI	100.00

Staffordshire Wildlife Trust - CCh

spring 2024

13 - Stony Brook - Birches Valley

14 - Brereton Brook

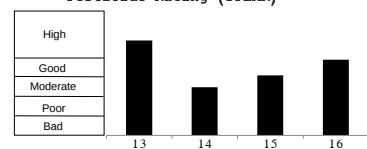
15 - (Upper) Shropshire Brook - Beadesert Old Park

16 - Shropshire Brook - Hare's Hill

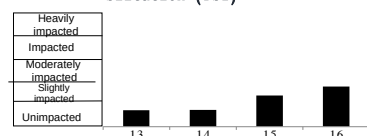


	13	14	15	16
BMWP	151	143	105	118
ASPT	7.19	7.15	6.56	6.56
WHPT	169	161.1	115.9	133.4
WHPT ASPT	7.35	7.32	6.82	6.67
R	35	29	17	25
Riverfly - species	19	10	9	14
Riverfly - numbers	184	71	23	188
CCI	15.05	11.11	12.83	18.67
LIFE	8.41	8.44	8.27	8.10
PSI	85.71	85.42	73.08	65.00
SPEAR	53.22	27.02	33.63	42.46
TRPI	98.23	96.00	93.45	71.43
Saprobic	1.85	1.85	1.99	1.79

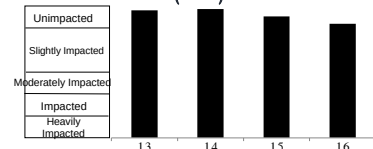
Pesticide Rating (SPEAR)



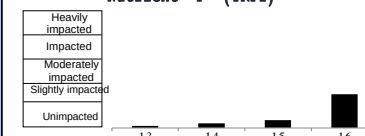
Siltation (PSI)



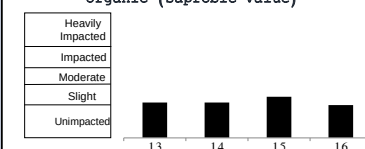
Flow (LIFE)



Nutrient 'P' (TRPI)



Organic (Saprobic value)



RIVER INVERTEBRATE FINGERPRINTING REPORT

SITE: Ben Brook Trib - Piggot's Bottom

DATE: Spring 2024

ADDITIONAL INFORMATION:



TAXON	
<i>Gammarus pulex/fossarum</i>	652
<i>Potamophylax cingulatus</i>	15
<i>Hydropsyche pellucidula</i>	116
<i>Scirtes</i>	11
<i>Elmis aenea</i>	3
<i>Nemoura avicularis</i>	16
<i>Ptychoptera</i>	21
<i>Dicranota</i>	5
<i>Simulium</i>	21
<i>Caenis rivulorum group</i>	1
<i>Tanytarsini</i>	3
<i>Rhithrogena</i>	25
<i>Baetis rhodani/atlanticus</i>	31
<i>Agapetus fuscipes</i>	45
<i>Limnephilus lunatus</i>	14
<i>Athripsodes aterrimus</i>	1
<i>Sericostoma personatum</i>	1
<i>Pisidium</i>	13
<i>Potamopyrgus antipodarum</i>	4
<i>Stagnicola palustris</i>	1

TAXON	

TAXON	

Saprobic index	1.79
PSI	60.53
LIFE	7.94
CCI	4.36
BMWP	97.00
ASPT	5.71
NTAXA	17.00
EPT sp (taxa)	9.00
EPT ab	264.00
TOTAL ab	999.00
WHPT	111.40
WHPT ASPT	6.19
TRPI	72.72

SITE:	Redmoor Brook - Gentleshaw Common
DATE:	Spring 2024
ADDITIONAL INFORMATION:	
Male 3-spined Stickleback. <i>Oxycera</i> sp.	

[illegible]

Saprobic index	2.03
PSI	55.56
LIFE	7.44
CCI	24.00
BMWP	42.00
ASPT	4.67
NTAXA	9.00
EPT sp (taxa)	6.00
EPT ab	34.00
TOTAL ab	839.00
WHPT	49.20
WHPT ASPT	4.92
TRPI	100.00

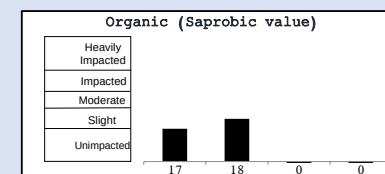
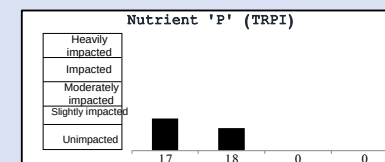
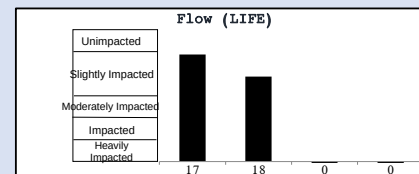
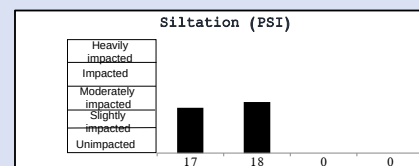
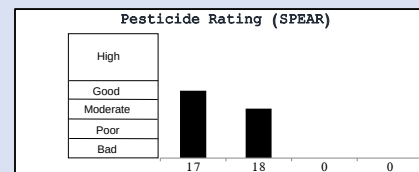
spring 2024

17 - Ben Brook (Trib) - Piggot's Bottom

18 - Redmoor Brook - Gentleshaw Common



	17	18		
BMWV	97	42		
ASPT	5.71	4.67		
WHPT	111.4	49.2		
WHPT ASPT	6.19	4.92		
R	20	14		
Riverfly - species	9	6		
Riverfly - numbers	264	34		
CCI	4.36	16.10		
LIFE	7.94	7.44		
PSI	60.53	55.56		
SPEAR	37.78	27.67		
TRPI	72.72	81.00		
Saprobic	1.79	2.03		



River Invertebrate Fingerprinting Report

Staffordshire Wildlife Trust - CCh

SPRING - 2024



Comments

Sites 1-2 Oldacre Burn

There were no obvious anthropogenic stresses at either sample site in The Spring of 2024 but bioquality dropped at the downstream site (BMWP, WHPT, Species richness ...) which may be due to the slight flow (LIFE) and sediment (PSI) stress increases at the downstream site.

Sites 3-4 Sher Brook

There were no obvious anthropogenic stresses at either sample site in the Spring of 2024 and bioquality remained consistently good at both sites (BMWP, WHPT, Species richness ...). Both sites contained some LWD indicator species and the woody debris associated caddis *Hydatophylax infumatus* is relatively rare.

Site 5 Old Brook

There were no obvious anthropogenic stresses at the Abraham's Valley sample site in The Spring of 2024 and bioquality was good (BMWP, WHPT, Species richness ...). The site contained some LWD indicator species and the woody debris associated crane fly *Epiphragma ocellare* is relatively rare.

Sites 6-7 Stafford Brook

There were some slight anthropogenic stresses at both sample sites in the Spring of 2024 where bioquality was lowered at both sites (BMWP, WHPT, Species richness ...) and may be due to the slight variable 'chemical' (SPEAR) and sediment (PSI) stress increases but not that marked. The SSSI sample site on the Stafford Brook contained LWD indicator species which included the *Lipsothrix* species.

Sites 8-10 Rising Brook

There were no obvious anthropogenic stresses at either sample site in the Spring of 2024 and bioquality remained consistently good at both sites (BMWP, WHPT, Species richness ...). The Furnace Coppice sample site contained the LWD indicator and woody debris associated caddis *Hydatophylax infumatus* which is relatively rare.

11. Fallow Stream

The Fallow Stream at Seven Springs had no obvious anthropogenic stresses in the Spring of 2024 and bioquality was modest (BMWP, WHPT, Species richness ...). There was a potential LWD indicator species in the Scleroprocta species larvae found but we had no suitable larval keys for many of these species (awaiting a paper).

River Invertebrate Fingerprinting Report

Staffordshire Wildlife Trust - CCh

Spring - 2024



Comments

12-13. Stony Brook

There were no obvious anthropogenic stresses at either sample site in The Spring of 2024 and bioquality remained consistently good at both sites (BMWP, WHPT, Species richness ...). Both sites contained some LWD indicator species with the flies *Eloeophila trimaculata* and *Dicranota robusta* being nationally significant at the Fair Oak site. The Birches Valley sample site on the Stony Brook contained LWD indicator species which included *Lipsothrix* species.

14. Brereton Brook

There was some slight anthropogenic stresses at the Brereton sample site in The Spring of 2024 where although bioquality was not markedly lowered (BMWP, WHPT, Species richness ...) there was a slight 'chemical' (SPEAR) stress evident. Despite this the Nationally Scarce Soldierfly *Oxycera morrisii* was present in the sample.

15-16. Shropshire Brook

There were some slight anthropogenic stresses at both sample sites in the Spring of 2024 where bioquality was lowered at both sites (BMWP, WHPT, Species richness ...) and may be due to the slight variable 'chemical' (SPEAR) and sediment (PSI) stress increases at the Beaudesert Old Park and Hare's Hill sites respectively. The Hare's Hill sample site contained LWD indicator species.

17. Ben Brook

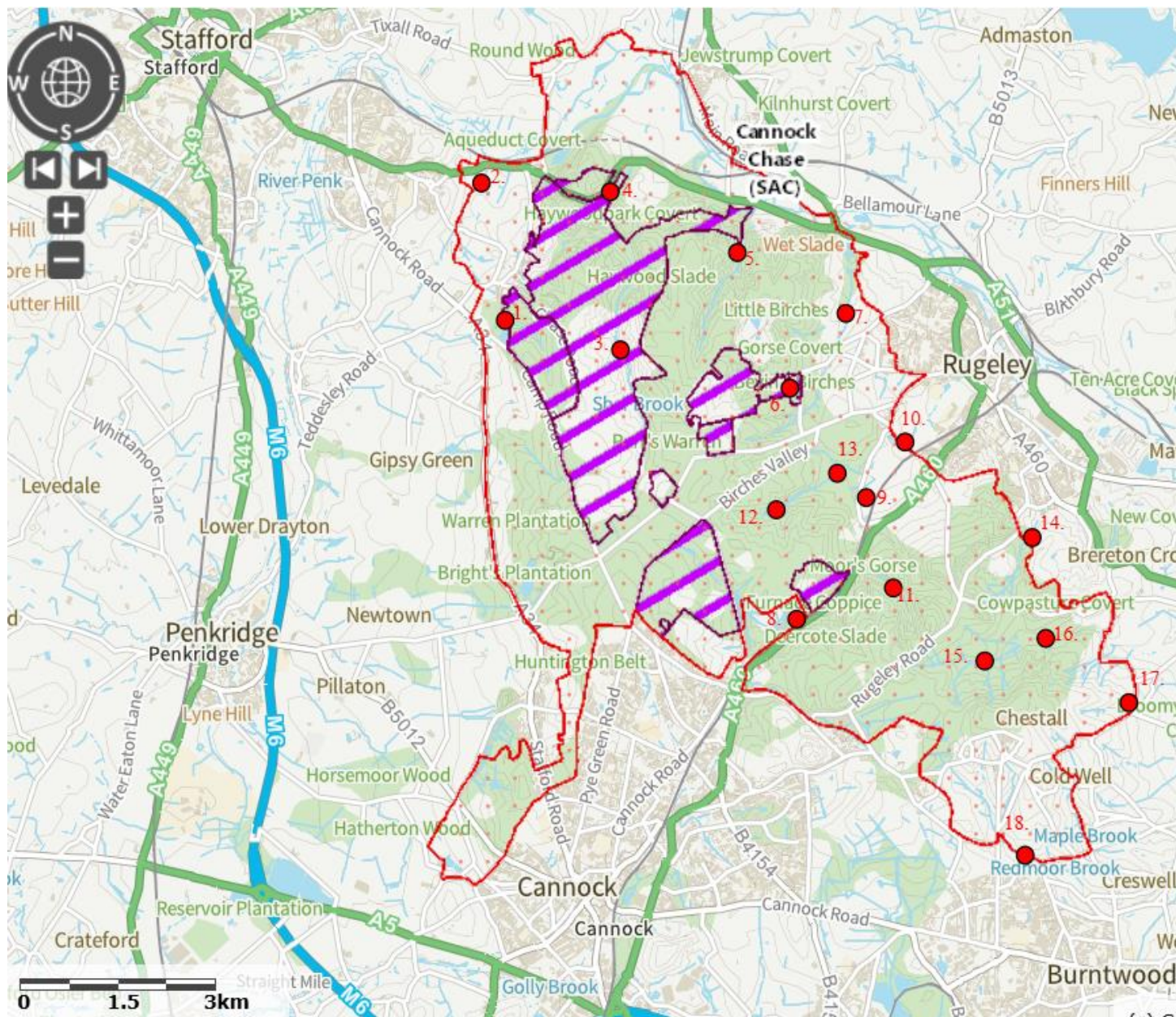
There were no obvious anthropogenic stresses at the Piggot's Bottom sample site in the Spring of 2024 and bioquality was moderate (BMWP, WHPT, Species richness ...). There was some borderline indication of fine sediment (PSI) stress at this site but not marked.

18. Redmoor Brook

There were marked signs of anthropogenic stresses at the Gentleshaw Common sample site in The Spring of 2024 and bioquality was relatively poor (BMWP, WHPT, Species richness ...). Both BMWP and WHPT ASPT bioquality indicators had dropped below 5 indicating polluted conditions. The overall bioquality was likely associated with the more marked 'chemical' (SPEAR) and fine sediment (PSI) stresses.

Metric	Name/Meaning	Measures	Healthy rating
BMWP	Biological Monitoring Working Party score	Scores, mostly at family level, invertbrate sensitivity to organic pollution. Looks at invertebrate presence but not abundance.	≥71
ASPT	Average Score Per Taxa	Calculated by dividing the BMWP score by the Number of Taxa (Ntaxa)	≥6
WHPT	Walley Hawkes Paisley Trigg index	As BMWP but using a greater number of Taxa (families)	Requires RIVPACS O:E (observed to expected) for a particular watercourse
WHPT ASPT	Walley Hawkes Paisley Trigg Average Score Per Taxa (or NTaxa)	Calculated by dividing the WHPT score by the Number of Taxa (Ntaxa)	As above
Number of Taxa		The number of individual species	≥35
Riverfly -species	Mayfly, stonefly and caddisfly species	The number of riverfly species	≥20
Riverfly -numbers	Total mayfly, stonefly and caddisfly	The number of individual riverflies	N/A
CCI	Community Conservation Index	The community richness and relative rarity of its species	≥15
LIFE	Lotic Invertebrate Flow Evaluation	Indicates the flow velocity	≥7
PSI	Proportion of Sediment-sensitive Invertebrates	Indicates the level of sedimentation	61-100
SPEAR	Species At Risk	Indicates the level of pesticides, herbicides and complex chemicals	≥33
TRPI	Total Reactive Phosphorus Index	The level of nutrient enrichment	61-100
Saprobic	Organic enrichment	The amount of degradable organic material	2.29-1.0

Site Number	Site	Watercourse	Grid Ref	Survey Date	Notes
CCh1	Brocton	Oldacre Burn	SJ 96990 18880	03/05/2024	
CCh2	Milford Hall	(Oldacre Burn) Cressel Brook	SJ 96526 20955	03/05/2024	1 White-clawed Crayfish removed
CCh3	Cherry Slade	Upper Sher Brook	SJ 98703 18408	25/04/2024	Brook Lamprey Ammocoetes
CCh4	Alder Carr	Lower Sher Brook	SJ 98560 20860	25/04/2024	Brook Lamprey Ammocoetes
CCh5	Abraham's Valley	Old Brook	SK 00551 19942	04/05/2024	Bullhead
CCh6	Bevin's Birches	Upper Stafford Brook	SK 01450 17820	04/05/2024	
CCh7	Stafford Brook SSSI	Lower Stafford Brook	SK 02226 19043	04/05/2024	Brook Lamprey Ammocoetes
CCh8	Furnace Coppice	Upper Rising Brook	SK 01440 14310	24/04/2024	Bullhead
CCh9	Sheepwash Farm	Central Rising Brook	SK 02500 16120	19/04/2024	Brown Trout, Bullhead
CCh10	Slitting Mill	Lower Rising Brook	SK 03150 17070	19/04/2024	2 White-clawed Crayfish removed, Brook Lamprey spawning – 3 adults,
CCh11	Seven Springs	Upper Fallow Stream	SK 03051 14740	19/04/2024	3-Spined Stickleback
CCh12	Fairoak	Upper Stony Brook	SK 01120 15980	23/04/2024	Bullheads
CCh13	Birches Valley	Lower Stony Brook	SK 02053 16557	23/04/2024	4 White-clawed Crayfish removed
CCh14	Brereton	Brereton Brook	SK 05160 15670	04/05/2024	
CCh15	Beaudesert Old Park	Upper Shropshire Brook	SK 04480 13700	01/05/2024	2 White-clawed Crayfish removed
CCh16	Hare's Hill	Lower Shropshire Brook	SK 05419 14014	01/05/2024	4 White-clawed Crayfish removed, adult <i>Paraleptophlebia submarginata</i>
CCh17	Piggot's Bottom	Ben Brook tributary	SK 06620 13070	15/04/2024	
CCh18	Gentleshaw Common	Redmoor Brook	SK 05100 10710	01/05/2024	3-spined Stickleback male





1. Brocton, Oldacre Burn



2. Milford, Cressel Brook (Oldacre Burn)



3. Cherry Slade, Sher Brook



4. Alder Carr, Sher Brook



5. Abraham's Valley, Old Brook



6. Bevin's Birches, Stafford Brook



7. Stafford Brook SSSI



8. Furnace Coppice, Rising Brook



9. Sheepwash Farm, Rising Brook



10. Slitting Mill, Rising Brook



11. Seven Springs, Fallow Stream



12. Fair Oak, Stony Brook



13. Birches Valley, Stony Brook



14. Brereton Brook



15. Beaudesert Old Park, Shropshire Brook



16. Hare's Hill, Shropshire Brook



17. Piggot's Bottom, Ben Brook trib.



18. Gentleshaw Common, Redmoor Brook