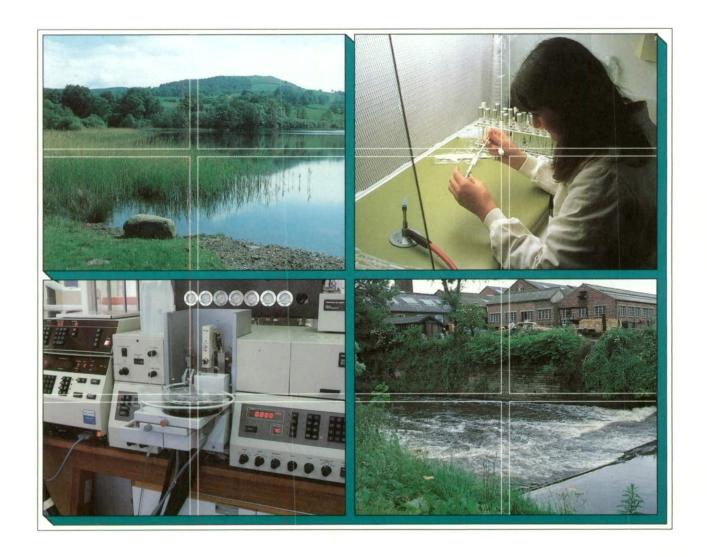
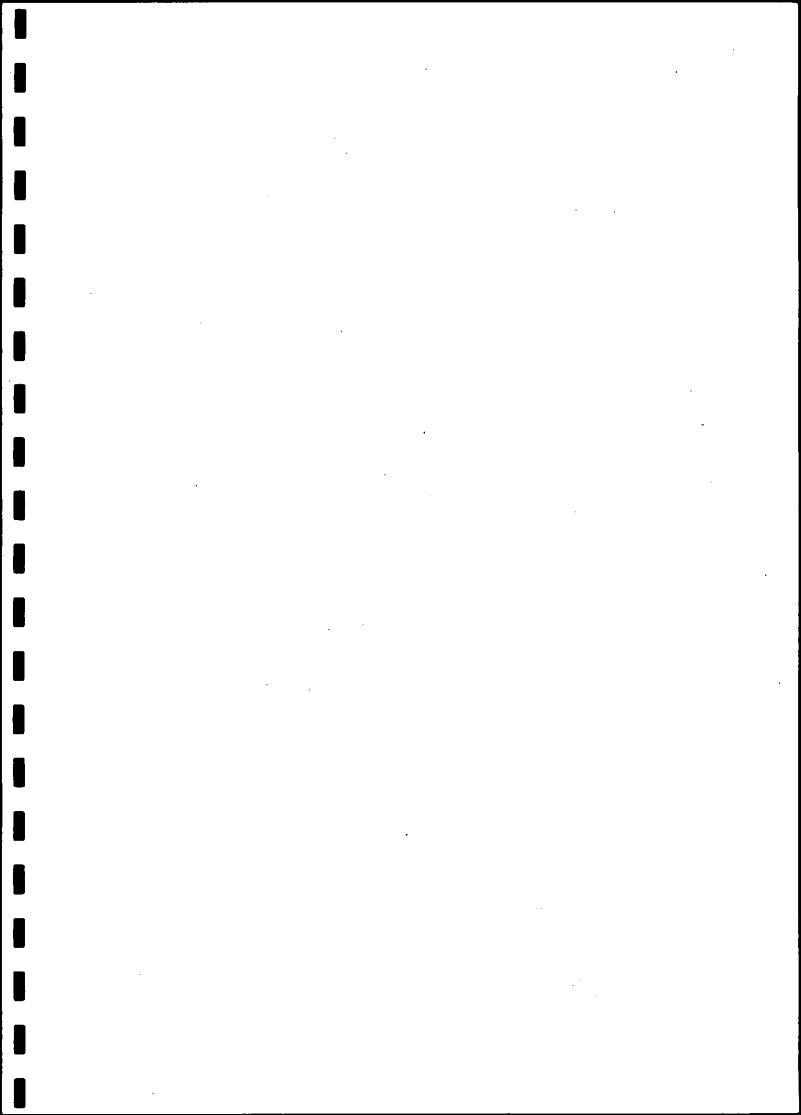


Quality audit of biological samples for the 1990 River Quality Survey NRA Anglian Region

R.J.M Gunn, BSc J.F. Wright, PhD J.H. Blackburn, BSc M.T. Furse, BSc





INSTITUTE OF FRESHWATER ECOLOGY River Laboratory, East Stoke, Wareham, Dorset BH20 6BB

Tel: 0929 462314 Fax: 0929 462180

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R.J.M. Gunn, J.F. Wright, J.H. Blackburn & M.T. Furse

Project leader:

J.F. Wright

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1. INTRODUCTION

The 1990 River Quality Survey included the sampling of aquatic macro-invertebrates for biological assessment of river quality throughout the United Kingdom. In England and Wales the survey was undertaken by the National Rivers Authority (NRA), the River Purification Boards (RPBs) sampled in Scotland and the Department of Economic Development (DED) undertook the work in Northern Ireland.

Approximately 7750 sites were surveyed, the majority of which were sampled in spring, summer and autumn. Standard collection procedures were used and the sampling strategy was compatible with RIVPACS (River InVertebrate Prediction And Classification System), which has been developed by the Institute of Freshwater Ecology (IFE). Most of the remaining sites were sampled in a single season only, in order to extend the scope of the survey. For a variety of reasons, a few locations were sampled in just two seasons.

Samples were sorted for the families of macro-invertebrates included in the Biological Monitoring Working Party (BMWP) system. Taxa present were recorded on site data sheets. Sample processing and recording techniques varied from region to region.

In order to undertake this massive programme of fieldwork and sample processing, a large number of new staff were employed by the surveying agencies. In view of the number of staff involved and the variability of sample processing techniques, it was recognised that an independent quality control exercise was necessary to promote a consistently high level of reliability.

The IFE was contracted to undertake an audit of the sample sorting and identification performance of each NRA region, RPB and the DED. This report collates the results of 76 samples audited for Anglian Region of the NRA. The IFE was not required to perform any statistical analyses nor interpretation of the results of the audit.

2. SAMPLE SELECTION

Nearly all samples from the 1990 River Quality Survey were sent to IFE for storage. They were catalogued on arrival and placed in crates, such that individual samples were readily accessible. A stratified random selection of samples for each sample processor was then made. Selection was undertaken by IFE staff and no selection was made before each sample had been received by IFE. Thus, sample processors had no means of knowing which of their samples would be audited.

The total number of sample processors employed nationally during the survey was considerably higher than that anticipated at the outset. As a consequence, the number of samples audited per processor was limited by the need to keep within the contracted overall total of 700 samples. A minimum of 4 samples was audited per processor, except where individuals processed very few samples or did not process material from each of the 3 seasons.

Sample selection was weighted towards spring samples in order to give early feedback on the blindspots of particular sorters and problems of identification.

3. SAMPLE PROCESSING

Biologists processing samples for the 1990 Survey were instructed to sort their samples, ideally within the laboratory, and select examples of each scoring taxon within the BMWP system. In most cases, the invertebrates were placed in a vial of preservative (4% formaldehyde solution or 70% industrial alcohol) and the BMWP taxa were listed on a data sheet. The vial of animals and the sorted material were then returned to the sample container and preservative added. Thus, each sample available to IFE for selection for audit should have included:

- i) a list of the BMWP FAMILIES FOUND IN THE SAMPLE
- ii) a vial containing representatives from each family
- iii) the preserved sample

When these three elements were present, the sequence of operations at IFE was as follows:

- a) The remainder of the sample was sorted and the BMWP families listed
- b) The families contained within the vial were identified and listed
- c) A comparison was made between the NRA listing of families and those identified from the vial by IFE
- d) A comparison was made between the NRA listing of families and those found in the sample by IFE
- e) "Losses" or "gains" from the NRA listing of families were noted. In the case of "gains", each additional family was identified, where possible, to species level, in order to clarify any specific repetitive errors.

For a number of different reasons, some samples did not include a vial containing representative examples of the families listed on the NRA data sheet. These samples were avoided for audit, where possible. When selection of such samples was unavoidable (eg where a particular sorter would otherwise have been excluded from the audit exercise), only operations a), d) and e) above were appropriate.

Several directives were issued to IFE relating to he treatment of BMWP taxa. Terrestrial representatives of BMWP scoring families, animals deemed to have been dead at the time of sampling, cast insect skins, pupal exuviae, empty mollusc shells and tail ends of "living" specimens were to be excluded from the listing of families present. Trichopteran pupae, although not routinely identified by many biologists, were to be included in the listing of families.

4. REPORTING

The results of each sample audit were recorded on a standard report form (Table 1). For audit samples where a vial of animals was included, the comparison between the NRA listing and the taxa found in the vial by IFE was shown in box A of the report form. Discrepancies could be due to carelessness, misidentifications or errors in completing the NRA data sheet. Families not on the NRA listing but found by IFE in the remainder of the sample were entered in box B of the report form under "additional families". When the families listed as "losses" in section A of the report form were compared with the full list of families recorded in the sample by IFE, some apparent losses from the vial were offset by the presence of those families in the remainder of the sample. These taxa were therefore listed in the "losses" box of section A and the "gains" box of section B and were neither a net loss nor a net gain. In these cases, the families were marked with an asterisk in both boxes. Such errors are noted as "omissions" in the tables which summarise the results for each season (Tables 2, 3 and 4).

Species identifications, state of development (eg adult or larval coleopterans) and the presence of a single representative of a family within the remainder of the sample were recorded in the notes section of the report form. Where the NRA data sheet indicated that a family was noted and released at the site, this was recorded in the notes section but not included as a "loss", even though the family was not found in the vial.

For those samples which did not contain a vial of animals, box A of the report form was not applicable (N/a). Families not on the NRA list but present in the sample were listed in box B under "additional families" as before. Families recorded on the NRA list but not found by IFE were indicated on the left hand side of box B. If the vial of animals was retained by the NRA, entries in this box could include the sole representative of a family which was removed by the NRA, a family seen at the site which escaped or was released (without mention being made on the NRA data sheet), inaccurate identification, the wrong family box being ticked on the NRA data sheet or the family being present in the sample but missed by IFE.

Results of the audits of individual samples are presented in Table 5.

ACKNOWLEDGEMENTS

Thanks to Mrs Jessica Winder and Mrs Kay Symes for assistance with cataloguing and storage of samples and Mrs Valerie Palmer for typing the manuscript.

I	REGION	RIVER	
5	EASON	SITE	
. 5	SORTER	SAMPLE CODE	
ł	AQC OF BMWP FAMILIES A. II	N VIAL B. IN	SAMPLE
		LOSSES	CAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE		
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	:
•			
	·	NET LOSSES	NET GAINS
1	NOTES		

TABLE 2. The 37 spring samples audited for Anglian Region, with sample sorter initials and numbers of taxa 'lost', 'gained' and 'omitted'

River	Site	Sorter	Losses	Gains	Omissions
Elstow Brook	D/s Stewartby Lk	RFS	0	9	1
Witcham Gr Drain	C'water Sl Mepal	SEH	0	4	0
Ancholme	Horkstow	SJB	0	3	0
Witham	Langrice Bridge	CAE	0	6	4
Cam	Cambridge	GTF	1	5	0
Bain	D/s Coningsby STV	V IG	0	4	0
Upper Witham	Bracebridge	RPC	0	2	0
Sincil Dyke	Destructor	RPC	0	0	0
Cam	Chesterton	GTF	0	1	1
Cut Off Channel	M'wold Hythe Br	SEH	1	7	0
* N. Lynn Drain	61M09	WTC	0	2	0
* Tove	Cappenham Bridge	PDS	1	3	0
Old Wryde Drain	B1167 Bridge	IG	0	3	0
Londonthorpe Beck	Belton Park	AS	0	4	4
Blackwater	Blackwater Bridge	MJ	0	3	0
Waveney	Burgh St Peter	MJ/EJB	2	2	2
Tud	Whitford Bridge	EJB	1	3	0
Lark	Bury St Edmonds	GTF	0	3	0
Stour	Dedham Mill Pool	PJM	0	2	. 0
Hen Brook	St Neotts	RFS	0	3	1
Belchamp Brook	Nether Hall	FCB	0	4	0
Fossdyke Canal	Pyewipe	RCP/AS	0	4	0
Willoughby High Dr	Chapel St Leon	CAE	0	3	0
Ancholme	Cadney	IG	0	1	0
Marley Gap Brook	Stocks Br Stive	RFS	1	3	0
Wensum	South Raynham	ЕЈВ	0	6	0
Hintlesham	Church Lane Br	MJ	0	5	0
Bourne Brook	Nightingale Hall	FCB	0	5	0
Holland Brook	Holland Road Br	FCB	1	5	0
Wid	Lawness Bridge	PJM	0	4	0
Robins Brook	Robins Bridge	PJM	0	4	0
Lark	Sicklesmere	PDS	0	2	0
Leiston Beck	Lovers Lane Br	EJB	0	2	0
Old Ancholme	Brigg	SJB	0	2	0
Bain	Hemingby	AS	3	4	4
Horncastle Canal	Dalderry	AS	0	2	3
* Middleton Stop Dr	Middleton Towers	WTC	-	-	-

^{*} indicates no vial of animals present in sample.

TABLE 3. The 21 summer samples audited for Anglian Region, with sample sorter initials and numbers of taxa 'lost', 'gained' and 'omitted'

River	Site	Sorter	Losses	Gains	Omissions
Nene	Nether Heyford	RPC	1	1	0
Hobhole Drain	Freiston Bridge	CAE	0	1	0
Tiffey	Carlton Forehoe	EJB	0	6	0
Chater	Lyndon Road Br	AS	1	7	3
Ouse	Haversham Bridge	RFS	0	8	0
Everdon Brook	Everdon	AS	0	5 .	2
Dobbs Beck	Dobbs Lane	MJ	0	4	0
Heacham	Heacham Mill	WTC	0	7	1
Granta	Hildersham Ford	GTF	0	5	2
N Level Main Drain	Tydd Gote	RPC	0	1	0
Glem	Scotchford Bridge	РЈМ	0	5	0
Stretham C'water	Pumping Station	SEH	0	3	0
Brant	Blackmoor Bridge	CAE	1	2	0
Nar	West Acre	WTC	2	6	0
Brampton Branch	Kingsthorpe	IG	0	4	0
Stour	Pont B BBA Ltd	FCB	0	6	0
Willow Brook South	S. Priors Hall	IG	0	0	0
Greyfleet Drain	Queens Bridge	PH -	0	0	0
Long Eau	Little Carlton	PH	0	5	0
Great Eau	Cloves Bridge	PH	1	4	0
Laceby Beck	Laceby	SJB	0	5	0

TABLE 4. The 18 autumn samples audited for Anglian Region, with sample sorter initials and numbers of taxa 'lost', 'gained' and 'omitted'.

River	Site	Sorter	Losses	Gains	Omissions
Wensum	Bintry Mill	MJ	0	1	0
Alconbury Brook	Alconbury Ford	RFS	0	4	0
East Fen C'water	Stickney	SJB ·	0	0	0
Nene	Flore Road Bridge	PH	0	2	0
Grand Union Canal	A43 Blisworth	IG	0	1	0
Grand Union Canal	East of A5	SJL	0	6	. 0
Stour	Little Thurlow	FCB	0	1	0
Nene	Cogenhoe	CAE	1	5	0
Box Trib (Groton)	Horners Green	PJM	0	0	0
Stirtloe Brook	Offord Intake	JN	0	8	3
Didlington Brook	Margetts Farm	JN	0 .	2	0
East Ruston Stream	New Bridge	EB	1	2	2
Brampton Branch	Chapel Brampton	SJL	0	6	0
Nar	KingsLynn	WTC	3	8	2
Mid Level Main Dr	Mullicourt Priory	JN	0	3	0
Old West	Old Streatham PS	SEH	0	3	0
Ripton Brook	Bury	JN	0	3	0
Louth Canal	Ticklepenny Lock	SJL	0	1	1

TABLE 5

Results of individual sample audits

		1			
RE	EGION Anglian	RIVER	Elstow Brook		
SE	EASON Spring	SITE	Outflow Stewartby Lake		
sc	ORTER RFS	SAMPLE CODE	·		
AC	QC OF BMWP FAMILIES A. II	N VIAL + B. II	N SAMPLE +		
		LOSSES	GAINS		
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between: i) BMWP families listed on sample data sheet	1.Lymnaeidae*	None		
	and ii) BMWP families found in VIAL by IFE				
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample) N/a	2.Planariidae 3.Dendrocoelidae 4.Lymnaeidae* 5.Sphaeriidae 6.Erpobdellidae 7.Caenidae 8.Haliplidae 9.Polycentropodidae 10.Molannidae 11.Leptoceridae		
N.C.	· ·	NET LOSSES 0	NET GAINS 9		
NC	NOTES 1. Empty shells in vial 2. Dugesia polychroa, D. tigrina, Polycelis sp. 8. Larvae 9. Cyrnus flavidus 11. Athripsodes aterrimus, Mystacides sp.				

REGION Anglian	RIVER	Witcham Gravel Dr
SEASON Spring	SITE	Catchwater Sl Mepal
SORTER	SAMPLE CODE	
AQC OF BMWP FAMILIES A. IN	V VIAL + B.	IN SAMPLE +
	LOSSES	GAINS
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and	None	None
ii) BMWP families found in VIAL by IFE		
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completwhen no vial supplied with sample) N/a	ed 1.Valvatidae 2.Sphaeriidae 3.Oligochaeta 4.Chironomidae
	NET LOSSES 0	NET GAINS 4
NOTES		

1	REGION	Anglian	RIVER	ncholme	
:	SEASON	Spring	SITE	orkstow	
:	SORTER SJB SAMPLE CODE				
1	AQC OF	BMWP FAMILIES A. IN	VVIAL + B. IN	SAMPLE +	
	, ,		LOSSES	GAINS	
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	1.Viviparidae 2.Unionidae	None	
В		<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	i) B	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only completed when no vial supplied with sample) N/a	3.Planariidae 4.Corophiidae 5.Leptoceridae	
			NET LOSSES 0	NET GAINS 3	
N	OTES	3.Dugesia sp. 5.Mystacides sp.	nid presumed too large fo	or vial	

P	Anglian Anglian	RIVER	itham
S	SEASON Spring	SITE	angrice Br
S	CAE CAE	SAMPLE CODE	
A	AQC OF BMWP FAMILIES A. IN	VVIAL + B. IN	SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1.Planariidae* 2.Coenagriidae* 3.Haliplidae* 4.Chironomidae*	None
, ,			
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample) N/a	5.Planariidae* 6.Valvatidae 7.Planorbidae 8.Sphaeriidae 9.Haliplidae* 10.Hydrophilidae 11.Elmidae 12.Tipulidae 13.Chironomidae*
		NET LOSSES 0	NET GAINS 6
N	1,2 & 3 Label reads 10.Laccobius sp. (a+ 11.Oulimnius sp.	"not incl Planariidae, Ha	aliplidae, Coenagriidae"

	r	·	
]	REGION Anglian	RIVER	am
;	SEASON Spring	SITE	oe Fen Br, Cambridge
;	SORTER	SAMPLE CODE	·
4	AQC OF BMWP FAMILIES A. IN	V VIAL + B. IN	SAMPLE +
		LOSSES	GAINS -
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found	1.Limnephilidae	None
	in VIAL by IFE		
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample) N/a	2.Neritidae 3.Baetidae 4.Caenidae 5.Coenagriidae 6.Elmidae
	•		
		NET LOSSES 1.	NET GAINS 5
ì	3.Abdomen only 6.Elmis aenea larva		

1	REGION	RIVER	
•	Anglian	KIVEK	Bain
:	SEASON Spring	SITE	D/s Coningsby STW
:	SORTER IG	SAMPLE CODE	
4	AQC OF BMWP FAMILIES A. II	W VIAL H	IN SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and	None	None
	ii) BMWP families found in VIAL by IFE		
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample) N/a	1.Hydrobiidae 2.Lymnaeidae 3.Planorbidae 4.Simuliidae
		NET LOSSES 0	NET GAINS 4
1	NOTES 1.Bithynia tentacula 2.Lymnaea sp (damage 3.Armiger crista, An 4.Simulium sp larva	·d)	

REGIO	4	RIVER	
•	Anglian]Up	per Witham
SEASO	Spring	SITE Br	acebridge
SORTE	RPC	SAMPLE CODE	
AQC OI	F BMWP FAMILIES A. I	N VIAL B. IN	SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i)	ferences between: BMWP families listed on sample data sheet and BMWP families found in VIAL by IFE	None	None
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i)	ferences between: BMWP families listed on sample data sheet and BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample) N/a	1.Viviparidae 2.Haliplidae
	·		·
		NET LOSSES 0	NET GAINS 2
NOTES	1.Viviparus sp. (juv 2.Adult + larvae	venile)	

		ı	
REGIO	Anglian	RIVER	Sincil Dyke
SEAS	ON Spring	SITE	Destructor
SORTI	ER RPC	SAMPLE CODE	
AQC (OF BMWP FAMILIES A. IN	V VIAL + B.	IN SAMPLE +
		LOSSES	GAINS
A	VIAL.	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i	fferences between:) BMWP families listed on sample data sheet and) BMWP families found in VIAL by IFE		
			····
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i	fferences between:) BMWP families listed on sample data sheet and) BMWP families found in SAMPLE by IFE	(This box only complet when no vial supplied with sample)	ed
		NET LOSSES 0	NET GAINS 0
NOTES			

F	REGION	Anglian	RIVER	Cam
5	SEASON	Spring	SITE	Chesterton
5	SORTER	CTF	SAMPLE CODE	
F	AQC OF	BMWP FAMILIES A. II	VVIAL + B. 1	IN SAMPLE +
			LOSSES	GAINS
Α		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	1.Glossiphoniidae*	None
В		<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) B	rences between: MWP families listed n sample data sheet and MWP families found	(This box only complete when no vial supplied with sample)	2.Planariidae 3.Glossiphoniidae*
	_	n SAMPLE by IFE		
		•	٠	
•		- 1	NET LOSSES 0	NET GAINS 1
		9. B		
1	OTES	2.Dugesia tigrina		

	_			
1	REGION	Anglian	RIVER	Cut Off Channel
:	SEASON [Spring	SITE	Methwold Hythe Br
:	SORTER [SEH	SAMPLE CODE	
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +				IN SAMPLE +
			LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BMV on ii) BMV	ences between: IP families listed sample data sheet and IP families found VIAL by IFE	1.Polycentropodidae	2. Psychomyi idae
ļ				
В	****	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BMV on ii) BMV	ences between: IP families listed sample data sheet and IP families found SAMPLE by IFE	(This box only complete when no vial supplied with sample) N/a	3.Planorbidae 4.Baetidae 5.Hydrophilidae 6.Elmidae 7.Limnephilidae 8.Tipulidae
•			NET LOSSES 1	NET GAINS 7
N		3.Anisus vortex 4.Cloeon dipterum 5.Laccobius sp.(a+1) 6.Larvae 8.Tipula sp.		

	n é	
REGION Anglian	RIVER	N.Lynn Drain
SEASON Spring	SITE	61M09
SORTER WTC	SAMPLE CODE	
AQC OF BMWP FAMILIES A. II	N VIAL X B.	IN SAMPLE +
	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	N/a	N/a
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample) None	ed 1.Hydrobiidae 2.Chironomidae
· .	NET LOSSES 0	NET GAINS 2
NOTES 1. Assiminea grayana,	Hydrobia ulvae	
	•	
		·

1	REGION				
•	Anglian	RIVER	Tove .		
5	SEASON Spring	SITE	Cappenham Br		
\$	SORTER PDS	SAMPLE CODE			
AQC OF BMWP FAMILIES A. II		N VIAL X B.	IN SAMPLE +		
		LOSSES	GAINS		
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	N/a	N/a.		
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complet when no vial supplied with sample) 1 Hydropsychidae	ed 2 Hydrobiidae 3 Lymnaeidae 4 Limnephilidae		
		NET LOSSES 1	NET GAINS 3		
	·	1 105565	NET GAINS 3		
N	NOTES				
	}				

REG	Anglian	RIVEROLD	Wryde Drain	
SEA	Spring	SITE B11	67 Rd Br	
SOR	TER IG	SAMPLE CODE		
AQC	OF BMWP FAMILIES A. I	N VIAL + B. IN S	SAMPLE +	
		LOSSES	GAINS	
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	ifferences between: i) BMWP families listed on sample data sheet and i) BMWP families found in VIAL by IFE	None	None	
<u></u>				
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	ifferences between: i) BMWP families listed on sample data sheet and i) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Sphaeriidae 2 Glossiphoniidae 3 Asellidae	
		NET LOSSES 0	NET GAINS 3	
		NET LOSSES 0	NET GAINS 3	
NOT	NOTES 2 Theromyzon tessulatum			

REGION Anglian	RIVER	donthorpe Beck	
SEASON Spring	SITE Bel	ton Park	
SORTER	SAMPLE CODE		
AQC OF BMWP FAMILIES A. IN	V VIAL H	SAMPLE +	
	LOSSES	GAINS	
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Glossiphoniidae* 2 Limnephilidae* 3 Chironomidae* 4 Simuliidae*	None	
B SAMPLE			
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	5 Planariidae 6 Glossiphoniidae* 7 Nemouridae 8 Corixidae 9 Limnephilidae* 10 Tipulidae 11 Chironomidae* 12 Simuliidae*	
	NET LOSSES 0	NET GAINS 4	
NOTES 7 Amphinemura standfussi 8 Hesperocorixa sahlbergi 10 Pilaria sp. & Tipula sp.			

		·		
REGION Anglian	RIVER	Blackwater		
SEASON Spring	SITE	Blackwater Br		
SORTER MJ	SAMPLE CODE			
AQC OF BMWP FAMILIES A. IN	N VIAL + B. I	N SAMPLE +		
	LOSSES	GAINS		
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Astacidae	None		
B SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	d 2 Planorbidae 3 Polycentropodidae 4 Hydroptilidae		
NET LOSSES 0 NET GAINS 3				
NOTES 1 Astacidae assumed returned to river 3 Polycentropus flavomaculatus 4 Ithytrichia sp.				

<u></u>	,		
REGION Anglian	RIVER W	aveney	
SEASON Spring	SITE	urgh St Peter	
SORTER MJ(id)/EJB(so)	SAMPLE CODE		
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			
	LOSSES	GAINS	
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1.Dreissenidae* 2.Unionidae* 3.Psychomyidae 4.Chironomidae	5.0ligochaeta	
<u> </u>			
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	6.Viviparidae 7.Dreissenidae* 8.Unionidae*	
	NET LOSSES 2	NET GAINS 2	
NOTES 1 & 2 Dreissena & Unionid assumed too large for vial 3 Ecnomus tenellus not found in vial			

REGION Anglian	RIVER Tuc	i	
SEASON Spring	SITE	itford Br	
SORTER EJB	SAMPLE CODE		
AQC OF BMWP FAMILIES A. II	N VIAL + B. IN S	SAMPLE +	
	LOSSES	GAINS	
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Valvatidae	None	
B SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Planariidae 3 Planorbidae 4 Rhyacophilidae	
NET LOSSES 1 NET GAINS 3 NOTES 1 Valvata-like terrestrial snail in vial 2 Polycelis felina 3 Bathyomphalus contortus 4 Agapetus sp.			

REGION Anglian	RIVER Lar	k	
SEASON Spring	SITE	y St Edmonds	
SORTER CTF	SAMPLE CODE		
AQC OF BMWP FAMILIES A. IN	V VIAL + B. IN S	SAMPLE +	
	LOSSES	GAINS	
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Baetidae	None	
B SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Hydrobiidae 3 Sphaeriidae 4 Haliplidae	
NET LOSSES 0 NET GAINS 3			
NOTES 1 Note saying "Bactidae" in vial 2 Potamopyrgus jenkinsi 3 Haliplus sp. (larva)			

F	REGION	Anglian	RIVER	Stour	
S	EASON	Spring	SITE	Dedham Mill Pool	
SORTER PJM SAMPLE CODE					
AQC OF BMWP FAMILIES A. IN			N VIAL # B.	IN SAMPLE +	
	3		LOSSES	GAINS	
Α		VIAL.	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	i) BN or	rences between: WP families listed n sample data sheet and WP families found	None	1 Valvatidae	
į		NI TAMETITES FOUND		<u>.</u> .	
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	1) BN or ii) BN	cences between: WP families listed n sample data sheet and WP families found n SAMPLE by IFE	(This box only complet when no vial supplied with sample)	2 Leptoceridae	
	·				
	NET LOSSES 0 NET GAINS 2				
NOTES 1 Valvata piscinalis & V. cristata 2 Athripsodes sp.					

REGION Anglian	RIVER	len Brook
SEASON Spring	SITE	St Neotts
SORTER RFS	SAMPLE CODE	
AQC OF BMWP FAMILIES A. IN	V VIAL + B. II	N SAMPLE 4
	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and	1 Erpobdellidae*	None
ii) BMWP families found in VIAL by IFE		
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Planariidae 3 Planorbidae 4 Erpobdellidae* 5 Chironomidae
	•	
	NET LOSSES 0	NET GAINS 3
	:	
NOTES 2 Planaria torva 3 Gyraulus albus		

REGION Anglian	RIVER	lchamp Brook		
SEASON Spring	SITE	ther Hall		
SORTER FCB	SAMPLE CODE			
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +				
,	LOSSES	GAINS		
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences betwee i) BMWP families on sample data and ii) BMWP families in VIAL by IFE	listed None sheet	None		
		<u> </u>		
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences betwee i) BMWP families on sample data and ii) BMWP families in SAMPLE by I	when no vial supplied sheet with sample)	1 Lymnaeidae 2 Sphaeriidae 3 Helodidae 4 Hydropsychidae		
,				
NET LOSSES 0 NET GAINS 4				
NOTES 1 Lymnaca per 2 Pisidium s 3 Helodes sp 4 Hydropsych	p.			

F	REGION Anglian	RIVER	Fossdyke Canal		
5	SEASON Spring	SITE	Pyewipe		
9	SORTER RPC(id)/AS	SAMPLE CODE			
£	AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +				
		LOSSES	GAINS		
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None		
,	·				
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complet when no vial supplied with sample)	1 Hydrobiidae 2 Ancylidae 3 Psychomyiidae 4 Hydroptilidae		
Į		NEW YORKING 0			
		NET LOSSES 0	NET GAINS 4		
N	NOTES 1 Potamopyrgus jenkinsi 2 Ancylus fluviatilis 3 Tinodes waeneri 4 Without case - Hydroptila sp.?				

REGION Anglian	RIVER	Willoughby High Dr
SEASON Spring	SITE	Chapel St Leonards
SORTER CAE	SAMPLE CODE	
AQC OF BMWP FAMILIES A. II	N VIAL + B.	IN SAMPLE +
	LOSSES	GAINS
VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complet when no vial supplied with sample)	1 Physidae 2 Notonectidae 3 Leptoceridae
	NET LOSSES 0	NET GAINS 3
NOTES 2 Small nymph 3 Mystacides sp.		

REGION Anglian	RIVER	Ancholme		
SEASON Spring	SITE	Cadney		
SORTER IG	SAMPLE CODE	·		
AQC OF BMWP FAMILIES A. IN	N VIAL H	IN SAMPLE +		
	LOSSES	GAINS		
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None		
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	1 Elmidae		
NET LOSSES 0 NET GAINS 1				
NOTES 1 Oulimnius sp. (lar	va)			

I	REGION	Anglian	RIVER	Marley Gap Brook	
:	SEASON	Spring	SITE	Stocks Br Stive	
:	SORTER	RFS	SAMPLE CODE	NRA010512	
	AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +				
			LOSSES	GAINS	
A		VIAL.	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	i) Bi on ii) Bi	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	1 Hydrophilidae	None	
_	r				
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	i) Bl on ii) Bl	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only complete when no vial supplied with sample)	d 2 Sphaeriidae 3 Sialidae 4 Tipulidae	
NET LOSSES NET GAINS 3					
ì	NOTES	1 Adult Staphylinida 3 Sialis lutaria	e + terrestrial beetle	arva found.	

REGION Anglian	RIVER	sum	
SEASON Spring	SITE A10	65 Br. S.Raynham	
SORTER EJB	SAMPLE CODE		
AQC OF BMWP FAMILIES A. IN	VIAL + B. IN S	SAMPLE +	
	LOSSES	GAINS	
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	. None	
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Valvatidae 2 Planorbidae 3 Leptophlebiidae 4 Gyrinidae 5 Scirtidae 6 Hydroptilidae	
NET LOSSES 0 NET GAINS 6			
NOTES 1 Valvata piscinalis 2 Gyraulus albus 3 Habrophlebia fusca 4 Orectochilus villo 5 Elodes sp. 6 Ithytrichia sp.			

		ı	
RE	GION Anglian	RIVER	Hintlesham
SE	ASON Spring	SITE	Church Lane Bridge
so	RTER MJ	SAMPLE CODE	
AQ	C OF BMWP FAMILIES A. IN	V VIAL + B.	IN SAMPLE +
	·	LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
٠	·		
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complet when no vial supplied with sample)	Planariidae Sphaeriidae Siphaeriidae Sialidae Sialidae Simuliidae
NET LOSSES 0 NET GAINS 5			
NO	TES 1 Crenobia alpina 3 Erpobdella octocul 4 Sialis fuliginosa 5 Simulium costatum	ata	

AQC - BIOLOGICAL SAMPLES

RIVER Bourne Brook

REGION

Anglian

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SEASON Spring	SITE	Nightingale Hall Farm	
SORTER FCB	SAMPLE CODE N	IRA01 0950	
AQC OF BMWP FAMILIES A. IN	W VIAL + B. IN	SAMPLE +	
	LOSSES	GAINS	
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None	
In VIAL by IFE	<u>L</u>		
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Planorbidae 2 Caenidae 3 Nemouridae 4 Hydroptilidae 5 Simuliidae	
NET LOSSES 0 NET GAINS 5			
NOTES 1 Bathyomphalus cont 2 Caenis luctuosa gr 3 Amphinemura standf 4 Hydroptila sp.	oup .		
		· · · · · · · · · · · · · · · · · · ·	

REGION Anglian	RIVER Ho	olland Brook
SEASON Spring	SITE	olland Main Rd Bridge
SORTER FCB	SAMPLE CODE NE	A01 0939
AQC OF BMWP FAMILIES A. IN	VIAL + B. IN	SAMPLE +
	LOSSES	CAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Physidae	None
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Valvatidae 3 Hydrobiidae 4 Oligochaeta 5 Baetidae 6 Tipulidae
	NET LOSSES 1	NET GAINS 5
NOTES 1 Succinea sp. 2 Valvata cristata 3 Bithynia tentacula 5 Cloeon dipterum 1 6 6 Helius sp.	ta, Potamopyrgus jenkinsi only	

REGION Anglian	RIVER	d	
SEASON Spring	SITE	wness Bridge	
SORTER PJM	SAMPLE CODE NR.	A01 1005	
AQC OF BMWP FAMILIES A. IN	VIAL + B. IN S	SAMPLE +	
	LOSSES	GAINS	
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES \'FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Planariidae	
		·	
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Lymnaeidae 3 Haliplidae 4 Elmidae	
NET LOSSES 0 NET CAINS 4			
NOTES 2 Lymnaea peregra 3 Haliplus sp. (larv 4 Oulimnius sp. (adu	a) 1 only lts + larvae)		

F	REGION Anglian	RIVER	Robins Brook
5	SEASON Spring	SITE	Robins Bridge
5	SORTER PJM	SAMPLE CODE	NRA01 0975
F	AQC OF BMWP FAMILIES A. I	N VIAL + B. I	IN SAMPLE +
		LOSSES	GAINS
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	1 Planariidae 2 Sphaeriidae 3 Erpobdellidae 4 Elmidae
NET LOSSES 0 NET GAINS 4			
ì	Polycelis felina 2 Pisidium sp. 3 Erpobdella octocu 4 Elmis aenea, Limn		

F	REGION	Anglian	RIVER	Lark
5	SEASON	Spring	SITE	A134 Sicklesmere
SORTER PDS SAMPLE CODE NRA01 1044			NRA01 1044	
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			IN SAMPLE +	
			LOSSES	GAINS
Α		<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) Bi or ii) Bi	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	None	None
į		J 112		·
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) Bi or ii) Bi	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only complet when no vial supplied with sample)	
:				
NET LOSSES 0 NET GAINS 2				
N	OTES	1 Indet larvae 2 Hydroptila sp. 1 o	nly	
		•		

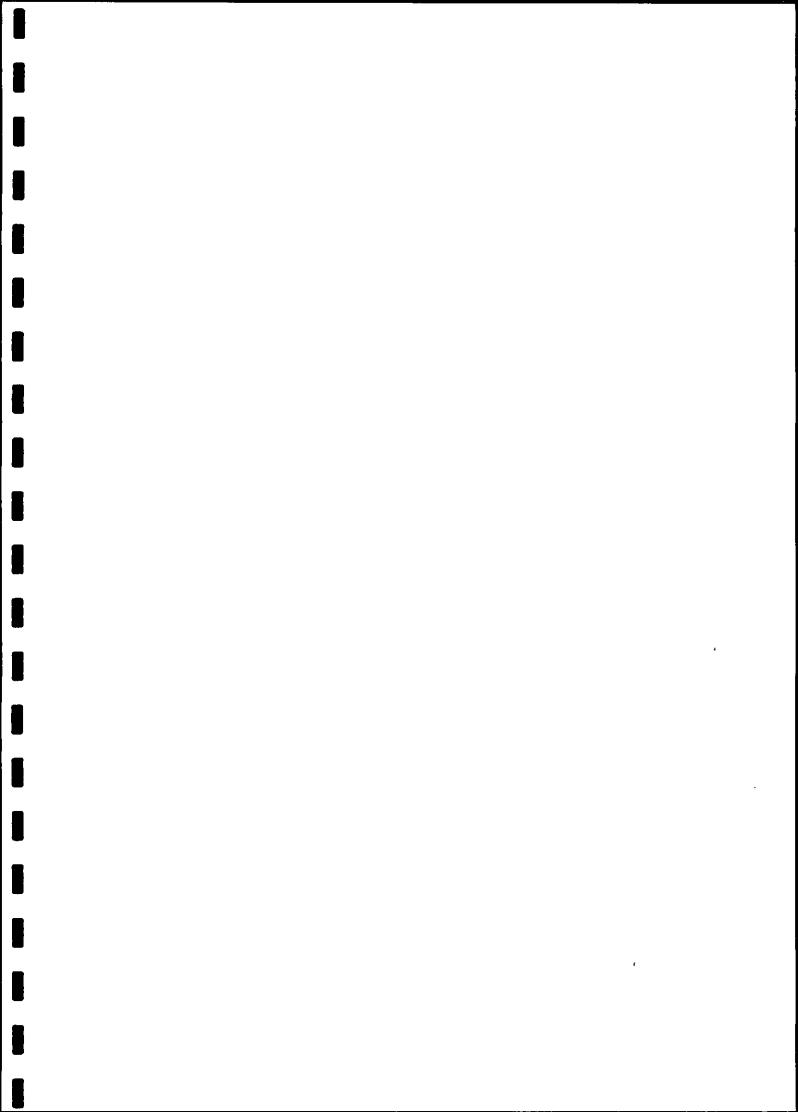
I	REGION	Anglian	RIVER	Leiston Beck
5	EASON	Spring	SITE	Lovers Lane Bridge
9	SORTER	ЕЈВ	SAMPLE CODE	
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			IN SAMPLE +	
			LOSSES	GAINS
A		<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	1) Bl	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	None	None
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) Bi or ii) Bi	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only complet when no vial supplied with sample)	
N	OTES	1 Pisidium sp. 1 onl 2 Gammarus sp., Cran	NET LOSSES 0 y ngonyx pseudogracilis	NET GAINS 2

	•	•
REGION Anglian	RIVER	Old Ancholme
SEASON Spring	SITE	Brigg
SORTER SJB	SAMPLE CODE	NRA01 0024
AQC OF BMWP FAMILIES A. II	N VIAL B. II	N SAMPLE +
	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Coenagriidae 2 Elmidae
	NET LOSSES 0	NET CAINS 2
NOTES 1 Ischnura elegans 2 Oulimnius sp. (la		

			. ·	
F	REGION	Anglian	RIVER	Bain
9	SEASON	Spring	SITE	Hemingby
	SORTER	AS	SAMPLE CODE	NRA01 0143
F	\QC OF	BMWP FAMILIES A. II	N VIAL + B. IN	SAMPLE +
			LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) (ii)	erences between: BMWP families listed on sample data sheet and BMWP families found in VIAL by IFE	1 Sphaeriidae* 2 Oligochaeta 3 Asellidae* 4 Gammaridae* 5 Haliplidae* 6 Chrysomelidae 7 Hydropsychidae	None
			1 nydropsychidae	
В		<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) I (ii) I	erences between: BMWP families listed on sample data sheet and BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	8 Hydrobiidae 9 Sphaeriidae* 10 Asellidae* 11 Gammaridae* 12 Baetidae 13 Haliplidae* 14 Gyrinidae 15 Rhyacophilidae
l			NET LOSSES 3	NET GAINS 4
N.	NOTES	6 Terrestrial bee 8 Bithynia tentac 12 Baetis scambus/ 14 Orectochilus vi 15 Rhyacophila dor	ulata 1 only fuscatus llosus (larva) 1 only	

REGION Anglian	RIVER	
	· · · · · · · · · · · · · · · · · · ·	Horncastle Canal
SEASON Spring	SITE	Dalderry
SORTER AS	SAMPLE CODE	NRA01 0147
AQC OF BMWP FAMILIES A. IN	N VIAL + B. IN	SAMPLE +
	LOSSES	GAINS
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Valvatidae* 2 Planorbidae* 3 Sphaeriidae*	4 Dytiscidae
<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found	(This box only completed when no vial supplied with sample)	5 Valvatidae* 6 Planorbidae* 7 Sphaeriidae* 8 Gammaridae
in SAMPLE by IFE		
·		
	NET LOSSES 0	NET GAINS 2
NOTES 8 Crangonyx pseudog	gracilis	
		·

F	REGION Anglian	RIVER Mi	ddleton Stop Drain
S	SEASON Spring	SITE	ddleton Towers
5	SORTER WTC	SAMPLE CODE NR	A01 0712
F	AQC OF BMWP FAMILIES A. I	N VIAL X B. IN S	SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	No vial - not applicable	No vial - not applicable
 1	- <u>-</u>		
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	
	,		
ι	,		<u></u>
NET LOSSES X NET GAINS X			
N	No data sheet for t	I.F.E. on 31.05.90 this site received, despite on of results impossible	repeated requests



F	REGION	Anglian	RIVER	Nene	
5	SEASON	Summer	SITE	Nether Heyford	
5	SORTER	RPC	SAMPLE CODE		
AQC OF BMWP FAMILIES A. IN		BMWP FAMILIES A. IN	V VIAL + B. 1	IN SAMPLE +	
			LOSSES	GAINS	
A		VIAL.	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	1) Bi or 11) Bi	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	1 Erpobdellidae	None	
_				:	
В		<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	i) Bi on ii) Bi	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only complete when no vial supplied with sample)	ed 2 Elmidae	
	NET LOSSES 1 NET GAINS 1				
N	NOTES	2 Oulimnius sp. (lar	va) i only		
	L				

F	REGION Anglian	RIVER	Hobhole Drain	
9	SEASON Summer	SITE	Freiston Bridge	
S	SORTER CAE	SAMPLE CODE N	NRA01 0187	
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			N SAMPLE +	
		LOSSES	GAINS	
A	VIAL .	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None	
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Hydrophilidae	
į				
NET LOSSES 0 NET GAINS 1				
ħ	NOTES 1 Laccobius biguttat	us		

]	REGION	Anglian	RIVER	Tiffey
:	SEASON	Summer	SITE	Carlton Forehoe
:	SORTER	ЕЈВ	SAMPLE CODE	
1	AQC OF	BMWP FAMILIES A. II	N VIAL + B.	IN SAMPLE +
			LOSSES	GAINS
A		<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	None	1 Corixidae
·	·			
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only complet when no vial supplied with sample)	
•			NET LOSSES 0	NET GAINS 6
N	NOTES 2 Polycelis sp. 1 only 3 Lymnaea peregra 1 only 4 Physa fontinalis 1 only 5 Baetis sp. 1 only 6 Notonecta sp. (nymph) 1 only			

REGION Anglian	RIVER	ter		
SEASON Summer	SITE Lyn	don Rd Br		
SORTER AS	SAMPLE CODE NRA	01 0209		
AQC OF BMWP FAMILIES A. IN	VIAL + B. IN S	SAMPLE +		
	LOSSES	GAINS		
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Sphaeriidae* 2 Erpobdellidae* 3 Notonectidae 4 Limnephilidae*	5 Haliplidae 6 Simuliidae		
B SAMPLE	PAGID DANTI TRO NOM	ADDITIONAL		
SAPITE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	7 Sphaeriidae* 8 Erpobdellidae* 9 Baetidae 10 Calopterygidae 11 Gerridae 12 Elmidae 13 Hydroptilidae 14 Limnephilidae*		
NET LOSSES 1 NET GAINS 7				
NOTES 7 Pisidium sp. 8 Erpobdella octoculata 1 only 9 Baetis sp. (abdomens only) 10 Calopteryx splendens 11 Gerris lacustris 1 only 12 Oulimnius tuberculatus (adults), Elmis aenea (larva) 13 Hydroptila sp. 14 Limnephilus sp. 1 only				

REGION Anglian	RI	Ouse Ouse		
SEASON Summer	5	Haversham Bridge		
SORTER RFS	SAMPLE (CODE NRA01 0406		
AQC OF BMWP FAMILIES	S A. IN VIAL +	B. IN SAMPLE +		
	Losses	GAINS		
A VIAL	BMWP FAMILIES N FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between i) BMWP families on sample data and ii) BMWP families in VIAL by IF	listed None a sheet found	None		
B <u>SAMPLE</u>	BMWP FAMILIES N FOUND BY IFE	OT ADDITIONAL FAMILIES FOUND BY IFE		
Differences between 1) BMWP families on sample data and ii) BMWP families in SAMPLE by 1	listed when no vial supposed with sample) found	lied 1 valvatidae		
NET LOSSES 0 NET GAINS 8				
	tinalis ambus/fuscatus elegans 1 only a sp.			

		<u></u>				
I	REGION Anglian	RIVER	Everdon Brook			
9	SEASON Summer	SITE	Everdon			
	SORTER AS	SAMPLE CODE	IRAO1 0250			
A	AQC OF BMWP FAMILIES A. IN	N VIAL + B. IN	SAMPLE +			
		LOSSES	GAINS			
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Sphaeriidae* 2 Elmidae*	None			
,						
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Lymnaeidae 4 Sphaeriidae* 5 Nemouridae 6 Hydrophilidae 7 Elmidae* 8 Polycentropodidae 9 Limnephilidae			
•	NET LOSSES 0 NET GAINS 5					
NOTES 3 Lymnaea peregra 1 only 4 Pisidium sp. 5 Amphinemura sp. 1 only 6 Helophorus sp. 1 only 7 Elmis, Limnius, Oulimnius, Riolus 8 Polycentropus sp. 1 only 9 Indet Limnephilid 1 only						

F	REGION Anglian	RIVER	Oobbs Beck
9	SEASON Summer	SITE	Oobbs Lane
. 5	SORTER MJ	SAMPLE CODE N	NRA01 0763
P	AQC OF BMWP FAMILIES A. IN	N VIAL B. IN	SAMPLE +
		LOSSES	GAINS
A	VIAL.	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and	None	None
٠	ii) BMWP families found in VIAL by IFE		
			·
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Planariidae 2 Valvatidae 3 Caenidae 4 Hydrophilidae
	·		
		NET LOSSES 0	NET GAINS 4
N	1 Indet Planariidae 2 Valvata piscinal 3 Caenis horaria 1 4 Indet larvae	is 1 only	
		:	

		• •				
REGION	Anglian	RIVER	Heacham			
SEASON	Summer	SITE	Heacham Mill			
SORTER	WTC	SAMPLE CODE	NRA01 0724			
AQC OF	AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +					
		LOSSES	GAINS			
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
i)	erences between: BMWP families listed on sample data sheet and	1 Glossiphoniidae*	2 Baetidae 3 Corixidae			
	BMWP families found in VIAL by IFE					
. •						
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
i) ii)	erences between: BMWP families listed on sample data sheet and BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	d 4 Planariidae 5 Valvatidae 6 Sphaeriidae 7 Glossiphoniidae* 8 Asellidae 9 Hydroptilidae			
•	NET LOSSES 0 NET CAINS 7					
NOTES	3 Micronecta sp. 4 Polycelis sp. 1 5 Valvata piscinal 6 Pisidium sp. 1 o 7 Helobdella stagn 8 Asellus aquaticu 9 Oxyethira sp.	is 1 only nly alis, Glossiphonia compl	anata			

<u></u>]			
REGION Anglian	RIVER G	ranta		
SEASON Summer	SITE	ldersham Ford		
SORTER GTF	SAMPLE CODE NI	RA01 0539		
AQC OF BMWP FAMILIES A. I	N VIAL + B. IN	SAMPLE +		
,	LOSSES	GAINS		
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Caenidae* 2 Elmidae*	3 Hydrophilidae		
				
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	4 Hydrobiidae 5 Caenidae* 6 Elmidae* 7 Hydroptilidae 8 Goeridae 9 Tipulidae		
NET LOSSES 0 NET GAINS 5				
NOTES 3 Hydraena nigrita in vial, Helophorus brevipalpis in sample 4Potamopyrgus jenkinsi 5 Caenis luctuosa group 6 Elmis aenea (adults + larvae), Oulimnius sp (larvae) 7 Hydroptila sp. (pupa) 1 only 8 Indet Goeridae (pupa) 1 only 9 Dicranota sp.				

,	REGION]	
•	REGION	Anglian	RIVER N	Level Main Drain
:	SEASON	Summer	SITE	1101 Tydd Gote
. :	SORTER	RPC	SAMPLE CODE N	RA01 0356
I	AQC OF 1	BMWP FAMILIES A. II	N VIAL + B. IN	SAMPLE +
			LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) Bh on ii) Bh	rences between: WP families listed n sample data sheet and WP families found n VIAL by IFE	None 	None
		,		· · · · · · · · · · · · · · · · · · ·
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	 i) Bh or ii) Bh 	Tences between: WP families listed n sample data sheet and WP families found n SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Oligochaeta
NET LOSSES 0 NET GAINS 1				
, N	NOTES 1 Nais sp. 1 only Prawns are Palaemon longirostris, not Neomysis integer			

		<u>. </u>			
1	REGION Anglian	RIVER G	lem		
	SEASON Summer	SITE	cotchford Bridge		
	SORTER PJM	SAMPLE CODE N	RA01 0905		
A	AQC OF BMWP FAMILIES A. IN	V VIAL + B. IN	SAMPLE +		
_		LOSSES	GAINS		
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found	None	None		
	in VIAL by IFE	:			
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Ephemerellidae 2 Haliplidae 3 Hydrophilidae 4 Limnephilidae 5 Leptoceridae		
	NET LOSSES 0 NET GAINS 5				
NOTES 1 Ephemerella ignit 2 Haliplus sp. (lar 3 Helophorus brevip 4 Limnephilus lunat 5 Athripsodes sp. (rvae) palpis tus 1 only			

		·			
REGIO	ON Anglian	RIVER	Stretham Catchwater		
SEASO	ON Summer	SITE	Pumping Station		
SORTE	ER SEH	SAMPLE CODE N	IRA01 0525		
AQC (OF BMWP FAMILIES A. II	N VIAL B. IN	SAMPLE +		
	<u>. </u>	LOSSES	GAINS		
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
i)	ferences between: BMWP families listed on sample data sheet and BMWP families found in VIAL by IFE	None	None		
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
1)	ferences between: BMWP families listed on sample data sheet and BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Haliplidae 2 Hydroptilidae 3 Leptoceridae		
			·		
	NET LOSSES 0 NET GAINS 3				
NOTES 1 Haliplus sp. (lar 2 Agraylea multipun 3 Triaenodes bicolo		nctata			
	·				

R	EGION Anglian	RIVER	rant
S	EASON Summer	SITE	lackmoor Bridge
S	ORTER CAE	SAMPLE CODE N	RA01 0093
A	QC OF BMWP FAMILIES A. IN	N VIAL B. IN	SAMPLE +
		LOSSES	GAINS
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Physidae	None
		,	· · · · · · · · · · · · · · · · · · ·
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Sphaeriidae 3 Hydrophilidae
Ne	OTES 2 Pisidium sp., Sph 3 Indet Larva 1 onl		NET GAINS 2

			·		
RE	GION Anglian	RIVER	Nar		
SE	ASON Summer	SITE	West Acre		
SO	RTER WTC	SAMPLE CODE	NRA01 0703		
AQ	C OF BMWP FAMILIES A. II	N VIAL + B. II	N SAMPLE +		
		LOSSES	GAINS		
Α	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Valvatidae 2 Limnephilidae	3 Sericostomatidae		
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	4 Haliplidae 5 Dytiscidae 6 Rhyacophilidae 7 Hydroptilidae 8 Simuliidae		
NET LOSSES 2 NET GAINS 6					
NOT	TES 1 Terrestrial special Sericostoma person de Brychius elevatus 5 Potamonectes sp. 6 Rhyacophila dorsa 7 Ithytrichia sp. 8 Simulium ornatum	onatum s (adults + larva) (larvae) alis l only	•		

F	REGION Anglian	RIVER	Brampton Branch
\$	SEASON Summer	SITE	lene, Kingsthorpe
	SORTER	SAMPLE CODE N	IRA01 0280
F	AQC OF BMWP FAMILIES A.	IN VIAL B. IN	SAMPLE +
_		LOSSES	GAINS
Α	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
•		·	
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Physidae 2 Asellidae 3 Ephemerellidae 4 Caenidae
;			
		NET LOSSES 0	NET GAINS 4
			·
N	NOTES 1 Physa fontinali 2 Asellus aquatic 3 Ephemerella ign 4 Caenis luctuosa	cus tita 1 only	

		J		
REGIO	N Anglian	RIVER	Stour	
SEASO	N Summer	SITE	Point B BBA Ltd	
SORTE	R FCB	SAMPLE CODE	NRA01 0902	
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +				
		LOSSES	GAINS	
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
i)	ferences between: BMWP families listed on sample data sheet and BMWP families found in VIAL by IFE	None	None	
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
1)	ferences between: BMWP families listed on sample data sheet and BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	1 Physidae 2 Baetidae 3 Ephemerellidae 4 Hydrophilidae 5 Sialidae 6 Simuliidae	
	•	NET LOSSES	NET CAINS 6	
NOTES 1 Physa fontinalis 1 only 2 Baetis scambus/fuscatus, Centroptilum luteolum 3 Ephemerella ignita 4 Indet larvae 5 Sialis sp. 1 only 6 Simulium noelleri 1 only				

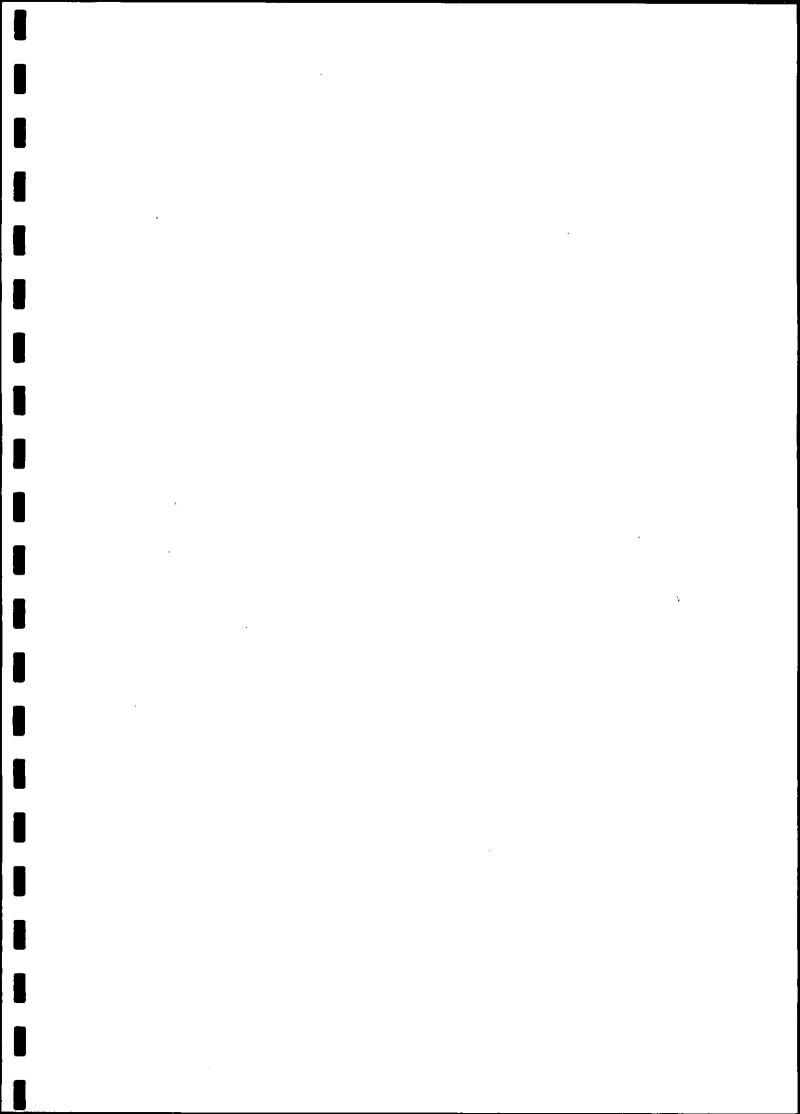
REGION Anglian	RIVER	illow Brook South
SEASON Summer	SITE	outh Priors Hall
SORTER IG	SAMPLE CODE N	RA01 0331
AQC OF BMWP FAMILIES A. IN	N VIAL + B. IN	SAMPLE +
	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet	None	None
and ii) BMWP families found in VIAL by IFE		
·		,
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found	(This box only completed when no vial supplied with sample)	None
in SAMPLE by IFE		
	NET LOSSES 0	NET GAINS 0
NOTES		
	·	

I	REGION	Anglian	RIVER	Greyfleet Drain
S	SEASON	Summer	SITE	Queens Bridge
5	SORTER	PH	SAMPLE CODE	NRA01 0053
Ė	AQC OF	BMWP FAMILIES A. II	V VIAL B.	IN SAMPLE +
			LOSSES	GAINS
Α		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	None	None
·				
В		<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only complet when no vial supplied with sample)	
	Г		NET LOSSES (D NET GAINS 0
1	OTES	•		

I	REGION	RIVER	
	Anglian		ong Eau
:	SEASON Summer	SITE Li	ttle Carlton
\$	SORTER PH	SAMPLE CODE NR	AO1 0057
į	AQC OF BMWP FAMILIES A. I	N VIAL + B. IN S	SAMPLE +
		LOSSES	GAINS
Α	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Sphaeriidae 2 Gammaridae 3 Psychomyiidae 4 Hydroptilidae 5 Simuliidae
1	NOTES 1 Sphaerium sp., Pi 2 Crangonyx pseudog 3 Tinodes waeneri 1 4 Agraylea multipun	racilis only ctata 1 only	NET GAINS 5
4 Agraylea multipunctata 1 only 5 Simulium angustitarse group, S. ornatum group			up

REGION Anglian	RIVER	eat Eau
SEASON Summer	SITE C1	oves Bridge
SORTER PH	SAMPLE CODE NRA01 0059	
AQC OF BMWP FAMILIES A. IN	N VIAL B. IN S	SAMPLE +
	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Mesoveliidae	None
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet. and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Valvatidae 3 Sphaeriidae 4 Glossiphoniidae 5 Elmidae
	NET LOSSES 1	NET CAINS 4
NOTES 1 Terrestrial Hemip 2 Valvata cristata, 3 Pisidium sp. 4 Helobdella stagna 5 Elmis aenea (larv	V. piscinalis	

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Ri	EGION Anglian	RIVER	uceby Beck	
SI	EASON Summer	SITE	ıceby	
S	ORTER SJB	SAMPLE CODE NE	RA01 0032	
AC	QC OF BMWP FAMILIES A. 1	IN VIAL + B. IN	SAMPLE +	
		LOSSES	GAINS	
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None	
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Hydrobiidae 2 Physidae 3 Gammaridae 4 Baetidae 5 Elmidae	
L-				
NET LOSSES 0 NET GAINS 5				
NO	1 Potamopyrgus jen 2 Physa fontinalis 3 Gammarus pulex 1 4 Cloeon dipterum 5 Elmis aenea (adu	only		



R	EGION	Anglian	RIVER	Wensum
S	EASON	Autumn	SITE	Bintry Mill
S	ORTER	МЈ	SAMPLE CODE	NRA01 0780
A	QC OF	BMWP FAMILIES A. I	N VIAL + B. 1	IN SAMPLE +
			LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) Bh	rences between: WP families listed n sample data sheet and WP families found n VIAL by IFE	None	1 Simuliidae
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) Bh or ii) Bh	rences between: IWP families listed n sample data sheet and IWP families found n SAMPLE by IFE	(This box only complete when no vial supplied with sample)	ed None
			NET LOSSES 0	NET GAINS
NO	DTES	Simulium erythrocep	halum	

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REGION Anglian	RIVER	Alconbury Brook		
SEASON Autumn	SITE	Alconbury Ford		
SORTER RFS	SAMPLE CODE	NRA01 0502		
AQC OF BMWP FAMILIES A. IN	V VIAL + B.	IN SAMPLE +		
	LOSSES	CAINS		
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None		
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	1 Physidae 2 Planorbidae 3 Sphaeriidae 4 Glossiphoniidae		
NET LOSSES 0 NET GAINS 4				
NOTES 1 Physa fontinalis 2 Gyraulus albus 1 3 Pisidium sp. 4 Theromyzon tessul	only			

REGION Anglian	RIVER	ast Fen Catchwater
SEASON Autumn	SITE	tickney
SORTER SJB	SAMPLE CODE NI	RA01 0176
AQC OF BMWP FAMILIES A. IN	V VIAL + B. IN	SAMPLE +
	LOSSES	GAINS
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
B SAMPLE	BMWP FAMILIES NOT	ADDITIONAL FAMILIES
<u>= </u>	FOUND BY IFE	FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None
<u></u>		
	NET LOSSES 0	NET GAINS 0
NOTES		

1	REGION Anglian	RIVER	lene
;	SEASON Autumn	SITE	lore Road Bridge
:	SORTER PH	SAMPLE CODE N	RA01 0256
ı	AQC OF BMWP FAMILIES A. I	N VIAL + B. IN	SAMPLE +
		LOSSES	GAINS
Α	VIAL.	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
		1	
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Ancylidae 2 Caenidae
		NET LOSSES 0	NET GAINS 2
ł	NOTES 1 Ancylus fluviatil 2 Caenis luctuosa/		

	7	
REGION Anglian	RIVER	Grand Union Canal
SEASON Autumn	SITE	A43 Blisworth
SORTER IG	SAMPLE CODE	NRA01 0362
AQC OF BMWP FAMILIES A. I	N VIAL + B. I	N SAMPLE +
_	LOSSES	GAINS
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	d 1 Glossiphoniidae
NOTES 1 Glossiphonia het	NET LOSSES 0	NET GAINS 1
	·	

REG	ION Anglian	RIVER	Grand Union Canal
		KIVEK	Grand Union Canal
SEA	SON Autumn	SITE	East of A5
SOR	TER SJL	SAMPLE CODE	NRA01 0366
AQC	OF BMWP FAMILIES A. IN	VVIAL + B.	IN SAMPLE +
		LOSSES	GAINS
Α.	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	ifferences between: i) BMWP families listed on sample data sheet and i) BMWP families found in VIAL by IFE	None	1 Glossiphoniidae
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
;	ifferences between: i) BMWP families listed on sample data sheet and i) BMWP families found in SAMPLE by IFE	(This box only complet when no vial supplied with sample)	
		NET LOSSES	0 NET CAINS 6
noti	2 Dugesia tigrina 3 Physa fontinalis 4 Erpobdella octocu	l only lata lis, H. lineolatus (adı	ults + 1 larva)

REGION Anglian	RIVER	Stour
SEASON Autumn	SITE	t Thurlow Church Bridge
SORTER FCB	SAMPLE CODE N	RA01 0893
AQC OF BMWP FAMILIES A.	IN VIAL + B. IN	SAMPLE +
	LOSSES	GAINS
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Planorbidae
	NET LOSSES 0	NET GAINS 1
NOTES 1 Gyraulus albus 1	lonly	

F	REGION Anglian	RIVER	Nene	
S	SEASON Autumn	SITE	Cogenhoe	
S	SORTER CAE	SAMPLE CODE	NRA01 0284	
A	AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			
		LOSSES	GAINS	
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Phryganeidae	2 Molannidae	
В	SAMPLE	BMWP FAMILIES NOT	ADDITIONAL FAMILIES	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	FOUND BY IFE (This box only complet when no vial supplied with sample)	ed 3 Valvatidae 4 Physidae 5 Elmidae 6 Psychomyiidae	
		NET LOSSES	1 NET GAINS 5	
N	OTES 2 Molanna angustata 3 Valvata piscinali 4 Physa fontinalis 5 Elmis aenea (larv 6 Tinodes waeneri		va)	

		<u> </u>
REGION Anglian	RIVER	Box Tr (Groton)
SEASON Autumn	SITE	Horners Green
SORTER PJM	SAMPLE CODE	NRA01 0922
AQC OF BMWP FAMILIES A. IN	N VIAL + B.	IN SAMPLE +
	LOSSES	CAINS
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
III VIAL by IFE		
B SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	ed None
	NET LOSSES 0	NET GAINS 0
NOTES	·	

REGION	Anglian	RIVER	Stirtloe Brook
SEASON [Autumn	SITE	Access Rd Offord Intake
SORTER	JN	SAMPLE CODE	NRA01 0498
AQC OF B	MWP FAMILIES A. I	N VIAL + B.	IN SAMPLE +
		LOSSES .	GAINS
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM7 on ii) BM7	ences between: WP families listed sample data sheet and WP families found VIAL by IFE	1 Baetidae* 2 Sialidae* 3 Polycentropodidae*	None
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BMV on ii) BMV	ences between: JP families listed sample data sheet and JP families found SAMPLE by IFE	(This box only completwhen no vial supplied with sample)	4 Hydrobiidae 5 Sphaeriidae 6 Glossiphoniidae 7 Asellidae 8 Baetidae* 9 Gerridae 10 Sialidae* 11 Polycentropodidae* 12 Psychomyiidae 13 Hydropsychidae 14 Simuliidae
NET LOSSES 0 NET CAINS 8			
NOTES	4 Potamopyrgus jen 5 Pisidium sp. 6 Helobdella stagn 7 Asellus aquaticu 9 Indet Gerrid nym 12 Lype sp. 13 Hydropsyche angu 14 Simulium angusti	alis s ph 1 only stipennis	

RE	Anglian .	RIVER	Diddington Brook
SE	Ason Autumn	SITE	Margetts Farm
so	ORTER JN	SAMPLE CODE	NRA01 0499
AC	C OF BMWP FAMILIES A. II	N VIAL + B. II	N SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
_			
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Erpobdellidae 2 Baetidae
		NET LOSSES 0.	NET GAINS 2
NO	TES 1 Erpobdella octocu 2 Cloeon simile 1 o		

		1 .	
1	REGION Anglian	RIVER	East Ruston Stream
;	SEASON Autumn	SITE	New Bridge
:	SORTER EB	SAMPLE CODE	NRA01 0770
ı	AQC OF BMWP FAMILIES A. I	N VIAL + B.	IN SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Planariidae* 2 Planorbidae* 3 Tipulidae	None
,·			
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complet when no vial supplied with sample)	4 Planariidae* 5 Lymnaeidae 6 Planorbidae* 7 Dytiscidae
•		NET LOSSES	1 NET GAINS 2
ŀ	3 Tabanid (Chrysops 5 Lymnaea stagnalis		

1	REGION Anglian	RIVER B	rampton Branch R. Nene	
;	SEASON Autumn	SITE	hapel Brampton	
:	SORTER SJL	SAMPLE CODE N	RA01 0277	
ı	AQC OF BMWP FAMILIES A. I	N VIAL + B. IN	SAMPLE +	
		LOSSES	GAINS	
Α	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None	
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Sphaeriidae 2 Oligochaeta 3 Coenagriidae 4 Hydrophilidae 5 Elmidae 6 Hydroptilidae	
	NET LOSSES 0 NET GAINS 6			
ľ	Pisidium sp. 3 Indet Coenagriid 4 Ochthebius minimu 5 Oulimnius sp. (la 6 Hydroptila sp. (p	ıs (adults), 1 Ind <mark>et larva</mark> ırvae)		

REGION Anglian	RIVER	Nar		
SEASON Autumn	SITE	SITE By-Pass Br, Kings Lynn		
SORTER WTC	SAMPLE CODE NRA01 0706			
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +				
LOSSES GAINS				
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Oligochaeta* 2 Agriidae 3 Corixidae* 4 Rhyacophilidae 5 Goeridae	6 Physidae 7 Glossiphoniidae 8 Pleidae 9 Chironomidae		
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	10 Ancylidae 11 Oligochaeta* 12 Baetidae 13 Corixidae* 14 Hydrophilidae 15 Leptoceridae		
·				
NET LOSSES 3 NET GAINS 8				
NOTES Site name on pot and label (Old Sluice) differs from that on NRA sheet (By-Pass Bridge). Site Reference on bottle is 58M11.				

]	REGION Anglian	RIVER	Mid Level Main Drain
;	SEASON Autumn	SITE Mullicourt Priory	
:	ORTER JN SAMPLE CODE NRA01 0689		
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			
	<u>-</u>	LOSSES	GAINS
A	JAIV	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
		•	
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	1 Dendrocoelidae 2 Valvatidae 3 Hydrophilidae
		•	
NET LOSSES 0 NET GAINS 3			
ŀ	NOTES 1 Dendrocoelum lact 2 Valvata piscinali 3 Laccobius minutus	s 1 only	

]	REGION Anglian	RIVER	Old West River	
:	SEASON Autumn	SITE	Old Streatham P.S.	
:	SORTER SEH	SAMPLE CODE	NRA01 0519	
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +				
		LOSSES	GAINS	
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None	
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
;	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	1 Dendrocoelidae 2 Hydrophilidae 3 Hydroptilidae	
		·		
		NET LOSSES 0	NET GAINS 3	
ħ	1 Dendrocoelum lact 2 Laccobius minutus 3 Agraylea multipun	1 only		

1	REGION Anglian		RIVER	Ripton Bro	ok
:	SEASON Autumn		SITE	Bury	
	SORTER JN		SAMPLE CODE	NRA01 0675	
I	AQC OF BMWP FAMIL	IES A. IN VI	AL + B.	IN SAMPLE	•
			LOSSES		GAINS
A	VIAL]	BMWP FAMILIES NOT FOUND BY IFE		IONAL FAMILIES UND BY IFE
	Differences beto i) BMWP familion on sample do and ii) BMWP familion in VIAL by	es listed ata sheet es found	None		None
В	<u>SAMPLE</u>	1	BMWP FAMILIES NOT FOUND BY IFE	1	IONAL FAMILIES UND BY IFE
	Differences beto i) BMWP familion sample done and ii) BMWP familion in SAMPLE by	es listed who	is box only complet en no vial supplied with sample)	2 Phys	vatidae sidae ropsychidae
			NET LOSSES	0	NET GAINS 3
ı	2 Physa	ta piscinalis 1 fontinalis osyche sp. (head	-		

REGION	Anglian	RIVER	Louth Canal
SEASON	Autumn	SITE	Ticklepenny Lock
SORTER	SJL	SAMPLE CODE	NRA01 0044
AQC OF	BMWP FAMILIES A. IN	V VIAL + B.	IN SAMPLE +
		LOSSES	GAINȘ
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	1 Dendrocoelidae*	None
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) B o ii) B	rences between: MWP families listed on sample data sheet and MWP families found on SAMPLE by IFE	(This box only complet when no vial supplied with sample)	
NOTES	3 Sigara dorsalis/st	NET LOSSES 0	NET CAINS 1

