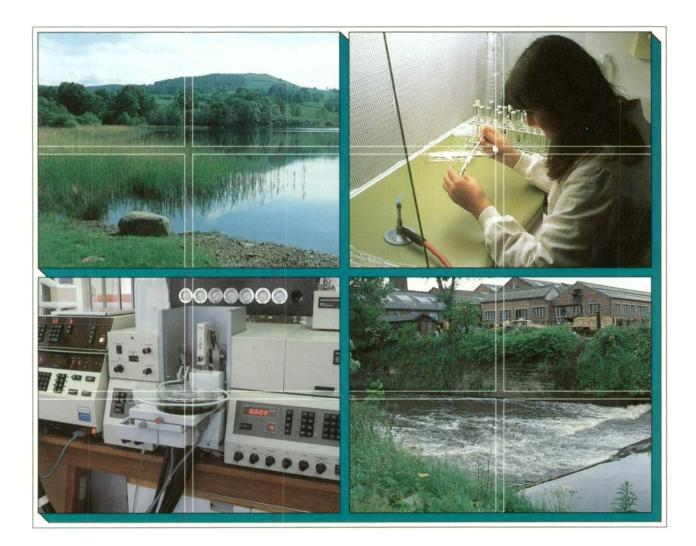


An audit of performance in the processing of macro-invertebrate samples in 1991. NRA Wessex Region

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Natural Environment Research Council

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An audit of performance in the processing of macro-invertebrate samples in 1991. NRA Wessex Region

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Project leader: Report date: Report to:

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1. INTRODUCTION

In 1991 the sampling of aquatic macro-invertebrates for the biological assessment of river quality continued throughout the United Kingdom. In England and Wales this task 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.

The majority of sites were sampled in spring, summer and autumn. Standard collection procedures, as used in the 1990 River Quality Survey, were retained and the sampling strategy was therefore compatible with RIVPACS (River InVertebrate Prediction And Classification System), which has been developed by the Institute of Freshwater Ecology (IFE). For a variety of reasons, a few locations were sampled in just one or two seasons.

Samples were sorted by NRA, RPB and DED personnel for the families of macroinvertebrates 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 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. As in 1990, the IFE was contracted to undertake an audit of the sample sorting and identification performance of each NRA region, several RPBs and the DED. This report presents the results of 60 samples audited for Wessex 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

Samples for audit were selected internally by each of the agencies being monitored. The biologists processing these samples had no prior knowledge of the samples to be audited.

The manner of sample selection, which biologists would be monitored and the number of audit samples from each season, were left to the discretion of the agency, within the limits of the total number of samples that IFE was contracted to audit.

3. SAMPLE PROCESSING

The normal protocol for NRA, RPB and DED biologists was to sort their samples within the laboratory and to 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 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 data sheet. Others arrived with the vial damaged in transit such that the representative examples were no longer separated. For these samples, only operations a), d) and e) above were appropriate.

Several directives were issued to IFE relating to the 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 molluse shells and posterior 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 in which the vial of animals was damaged or missing, 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 the Appendix.

ACKNOWLEDGEMENTS

Thanks to Mike Furse for help and advice, to Kay Symes and Angela Matthews for assistance with cataloguing and storage of samples and to Valerie Palmer and Diana Morton for typing the manuscript.

Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE

1991 RIVER OUALITY SURVEY AQC - BIOLOCICAL SAMPLES RECION RIVER DATE SITE SORTER SAMPLE CODE AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE LOSSES CAINS ٨ VTAL BMWP FAMILLES NOT ADDITIONAL FAMILIES FOUND BY IFE FOUND BY IFE

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 CAINS

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TABLE 2.The 19 spring samples audited for Wessex Region, with sample sorter initials and
numbers of taxa 'lost', 'gained' and 'omitted'

River	Site	Sorter	Losses	Gains	Omissions
Hillfarrance Brook	Hillfarrance	PDS	0	0	0
Mude	Dehavilland Bridge	GPG	0	1	0
Piddle	Piddlehinton	DAC	0	2	0
Doverte Brook	Newport	GPG	0	0	0
Willett Watercourse	Leigh Cottages	GPG	0	2	0
Sutton Stream	Whistle Bridge	PDS	0	2	0
Somerset Frome	Freshford	DLS	0	1	0
Brit	Netherbury	GPG	0	5	0
Somerset Frome	Iron Mill	DAC	0	2	0
Piddle	West Mills	DAC	0	8	0
Biss	North Bradley	PRH	0	6	0
Bristol Avon	Melksham	PRH	0	7	0
Divelish	Rons Mill	PRH	0	2	0
Semington Brook	Market Lavington	PRH	0	1	0
Tone	Bishops Hull	PDS	0	1	0
Dorset Frome	Maiden Newton	DLS	0	0	0
Lydden	Cannings Court	PDS	0	2	0
Mells	Fernhill	DLS	0	4	0
Hampshire Avon	Avon Bridge	DLS	0	0	0

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

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River	Site	Sorter	Losses	Gains	Omissions
Hooke	Maiden Newton	DAC	0	3	0
Beer Hacket	Beer Hacket	PDS	0	2	0
Hampshire Avon	Durrington	DAC	1	2	1
Yeo	Goathill	PDS	0	1	0
Bristol Avon	Kellaways	PRH	0	4	0
Yeo	D/s Penn STW	PDS	1	1	0
Axe North	Knowle Hill	DAC	0	2	0
Wellow Brook	Writhlington	DLS	0	1	0
Wylye	Crockerton Green	DLS	0	2	0
Sydling Brook	Grimstone	DAC	0	0	0
Wellow Brook	Foxcote	DLS	0	0	0
Mells	Mells	DAC	0	0	0
Chelston Stream	Ham	PDS	0	1	0
Brit	Netherbury	GPG	0	0	0
Marden	Stanley	PRH	0	1	0
Chew	Shrowl Bridge	DLS	0	0	0
Parrett	Lower Severalls	GPG	0	0	0
Hampshire Avon	Woodgreen	PRH	0	4	0
Fishers Brook	Lower Whitley	PRH	0	0	0
Avill	Dunster	GPG	1	1	0
Ozleworth Brook	Burrough Hill Farm	GPG	0	0	0

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TABLE 4.The 20 autumn samples audited for Wessex Region, with sample sorter initials and
numbers of taxa 'lost', 'gained' and 'omitted'

River	Site	Sorter	Losses	Gains	Omissions
Dorset Frome	Hurst Bridge	DAC	0	5	0
Hooke	Lower Kingcombe	DLS	1	0	0
Wylye	Norton Bavant	DLS	0	0	0
Deane Water East	Pewsey	DAC	0	0	0
Corfe River	Wytch	DAC	0	4	0
Lam Brook	Lambridge	PRH	0	4	0
Cale	Goulds Farm	PRH	0	0	0
Hampshire Avon	Amesbury	DAC	0	1	0
Bristol Avon	Summerlands Farm	PRH	0	1	2
Bristol Avon	Frying Pan Farm	PRH	0	0	0
Hampshire Avon	Royalty	GPG	0	1	0
Doniford Stream	Sampford Brett	GPG	0	1	0
Yeo	Thornford	PDS	0	1	2
Brit	Netherbury	GPG	0	5	1
Ozleworth Brook	Kingswood	GPG	0	2	1
Hillfarrance Brook	Hillfarrance	PDS	1	4	· 1
Hampshire Avon	Salisbury	DLS	0	1	0
Biss Brook	Brook House Farm	PDS	0	1	0
Tone	East Nynchead	PDS	0	0	· 0
Nadder	Churchfields	DLS	0	2	1

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APPENDIX

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Results of individual sample audits

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AQC - BIOLOGICAL SAMPLES

REGION	Wessex		RIVER	Hillfarrance Brook
SEASON	6.3.91		SITE	Hillfarrance
SORTER	PDS		SAMPLE CODE	09 5205 HLL 020
AQC OF I	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

LOSSES

CAINS

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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 completed when no vial supplied with sample)	None
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NET LOSSES 0

NOTES

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AQC - BIOLOGICAL SAMPLES

REGION	Weввех		RIVER	Mude
DATE	8.5.91		SITE	Dehavilland Bridge
SORTER	GPG		SAMPLE CODE	09 4310 MUD 005.
AQC OF I	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

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 Elmidae

NET	CAINS	1

NET LOSSES 0

NOTES

1 Limnius volckmari (adults), Oulimnius tuberculatus(adults + larvae)

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AQC - BIOLOGICAL SAMPLES

REGION Wessex	RIVER Piddle
DATE 27.3.91	SITE Piddlehinton
SORTER DAC	SAMPLE CODE 09 4441 PDD 277
AQC OF BMWP FAMILIES A. IN	VIAL + B. IN SAMPLE +

LOSSES

GAINS

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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

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	(This box only completed when no vial supplied with sample)	1 Hydrobiidae 2 Leptoceridae
in SAMPLE by IFE	,	

NET LOSSES

0

NOTES

1 Potamopyrgus jenkinsi 1 only 2 Athripsodes sp. (juvenile) 1 only NET GAINS

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AQC - BIOLOCICAL SAMPLES

REGION	Wessex		R	RIVER	Doverte Brook	
DATE	18.3.91			SITE	Newport	
SORTER	GPG		SAMPLE	CODE	09 5423 DOV 030	-
AQC OF J	BMWP FAMILIES A.	IN VIAL	+	В.	IN SAMPLE +	

LOSSES

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<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)	None

	NET LOSSES	NET GAINS 0
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NOTES		

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AQC - BIOLOGICAL SAMPLES

REGION	Wessex]	RIVER	Willett Watercourse
DATE	20.5.91		SITE	Leigh Cott
SORTER	GPG		SAMPLE CODE	09 5109 WIL 001
AQC OF I	SMWP 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

BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
(This box only completed when no vial supplied with sample)	1 Planariidae 2 Simuliidae
	FOUND BY IFE (This box only completed when no vial supplied

NET LOSSES 0

NOTES

1 Polycelis nigra/tenuis 1 only 2 Simulium (Wilhelmia) sp. NET GAINS

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AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Sutton Stream
DATE	8.5.91		SITE	Whistle Bridge
SORTER	PDS		SAMPLE CODE	09 5202 SUT 035
AQC OF I	SMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

	LOSSES	CAINS
	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

<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 Neritidae 2 Glossiphoniidae '

0 2 NET LOSSES NET GAINS NOTES 1 Theodoxus fluviatilis 1 only 2 Glossiphonia complanata 1 only

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AQC - BIOLOCICAL SAMPLES

R	EGION	Wessex	RIVER	Somerset Frome
	DATE	22.4.91	SITE	Freshford
S	ORTER	DLS	SAMPLE CODE	09 5311 SFR 002
A	QC 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
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n 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 lis on sample data sh and ii) BMWP families fou in SAMPLE by IFE	eet with sample)	1 Haliplidae

0 1 NET LOSSES NET GAINS NOTES 1 Haliplus sp. (larva) 1 only ` .

AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Brit
DATE	17.4.91		SITE	Netherbury
SORTER	GPG		SAMPLE CODE	09 4481 BRT 100
AQC OF H	SMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

GAINS

	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

3 <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 Piscicolidae 2 Hydrophilidae 3 Leptoceridae 4 Lepidostomatidae 5 Brachycentridae

0 NET LOSSES

NOTES

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1 Piscicola geometra 1 only 2 Hydraena gracilis 1 only

3 Athripsodes sp. 4 Lepidostoma hirtum

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5 Brachycentrus subnubilus (pupa) 1 only

NET GAINS

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AQC - BIOLOGICAL SAMPLES

REGION	Wessex		RIVER	Somerset Frome	
DATE	15.4.91	···	SITE	Iron Mill	
SORTER	DAC		SAMPLE CODE	09 5311 SFR 260	
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 completed when no vial supplied with sample)	1 Taeniopterygidae 2 Hydroptilidae

0 NET LOSSES

NOTES

1 Brachyptera risi 1 only 2 Hydroptila sp. 1 only

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NET GAINS

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AQC - BIOLOGICAL SAMPLES

REGION We	88ex	RIVER	Piddle
DATE 20	.5.91	SITE	West Mills
SORTER DA	C	SAMPLE CODE	09 4445 PDD 020
AQC OF BMWP	FAMILIES A. IN VIAL	+ B.	IN SAMPLE +

LOSSES

GAINS

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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	1 Hydrometridae 2 Brachycentridae

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)	3 Neritidae 4 Hydrobiidae 5 Sphaeriidae 6 Leuctridae 7 Dryopidae 8 Tipulidae

NET LOSSES

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NET GAINS 8

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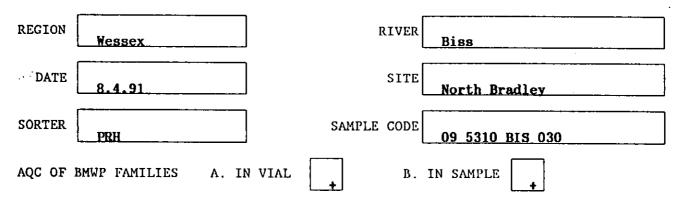
(aquatic) in sample.

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s 1 "In sample" written on sheet	5 Pisidium sp.
2 Brachycentrus subnubilus	6 Leuctra geniculata
3 Theodoxus fluviatilis	7 Dryops sp. (adult) 1 only
4 Bithynia tentaculata 1 only	8 Antocha vitripennis 1 only
Hydrometridae or Rhyacophilidae o Curculionidae not included in 199	mitted from No of taxa count of 27 1 survey but Hydronomus alismatis

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AQC - BIOLOCICAL SAMPLES



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A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families lister on sample data shee and	li l	
ii) BMWP families found in VIAL by IFE		

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 Lymnaeidae 2 Planorbidae 3 Calopterygidae 4 Psychomyiidae 5 Hydroptilidae 6 Leptoceridae

NET LOSSES

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NET GAINS

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NOTES

1 Lymnaea peregra 1 only 2 Gyraulus albus 1 only

- 3 Calopteryx splendens 1 only
- 4 Tinodes waeneri
- 5 Hydroptila sp.
- 6 Mystacides azurea 1 only

AQC - BIOLOCICAL SAMPLES

REGION Wessex	RIVER Bristol Avon
C DATE 16.5.91	SITE Melkshan
SORTER PRH	SAMPLE CODE 09 5301 BAV 585
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	None	None
ii) BMWP families found in VIAL by IFE	. "	

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 Planorbidae 2 Ancylidae 3 Baetidae 4 Leptophlebiidae 5 Coenagriidae 6 Aeshnidae 7 Elmidae

NET LOSSES

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NET GAINS

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NOTES

- 1 Gyraulus albus, Hippeutis complanatus
- 2 Acroloxus lacustris 1 only
- 3 Cloeon dipterum 1 only
- 4 Habrophlebia fusca 1 only
- 5 Ischnura elegans
- 6 Indet Aeshnid nymphs (juveniles)
- 7 Oulimnius sp. (larvae)

AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Divelish
DATE	18.3.91		SITE	Rons Mill
SORTER	PRH		SAMPLE CODE	09 4334 DIV 020
AQC OF	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

LOSSES

GAINS

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NET 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	None	1 Beraeidae
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 li on sample data s and ii) BMWP families fo in SAMPLE by IFE	eet with sample)	2 Psychomyiidae

NET LOSSES

0

NOTES

1 Beraeodes minutus 2 Tinodes waeneri 1 only

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AQC - BIOLOGICAL SAMPLES

REGION [Wessex		RIVER	Semington Brook
DATE	3.6.91		SITE	Market Lavington
SORTER	PRH		SAMPLE CODE	09 5309 SMG 180
AQC OF B	MWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE

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NET GAINS

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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	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 completed when no vial supplied with sample)	1 Lymnaeidae

NET LOSSES 0

NOTES

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1 Lymnaea peregra 1 only

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AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Tone
DATE	3.6.91		SITE	Bishops Hull
SORTER	PDS		SAMPLE CODE	09 5205 TON 192
AQC OF B	SMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

LOSSES

GAINS

NET GAINS

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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	None	None
ii) BMWP families found in VIAL by IFE	<i>.</i> "	

<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)	1 Leptophlebiidae
in SAMPLE by IFE		

NET LOSSES

0

NOTES

1 Habrophlebia fusca 1 only

AQC - BIOLOGICAL SAMPLES

REGION	Wessex	RIVER	Dorset Frome
S DATE	6.6.91	SITE	Maiden Newton
SORTER	DLS	SAMPLE CODE	09 4451 DFR 455
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	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	(This box only completed when no vial supplied with sample)	None
	and ii) BMWP families found in SAMPLE by IFE		

0 0 NET GAINS NET LOSSES NOTES

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AQC - BIOLOGICAL SAMPLES

REGION Wessex	RIVER	Lydden
DATE 18.3.91	SITE	Cannings Court
SORTER PDS	SAMPLE CODE	09 4333 LYN 145
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	None	None
ii) BMWP families found in VIAL by IFE	, "	

<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 Leptophlebiidae 2 Elmidae

NET LOSSES

0

NOTES

1 Habrophlebia fusca 1 only 2 Elmis aenea (adult + larva) NET GAINS

.

AQC - BIOLOGICAL SAMPLES

REGION	Wessex		RIVER	Mells
DATE	8.4.91		SITE	Fernhill
SORTER	DLS		SAMPLE CODE	09 5312 MLL 125
AQC OF	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE

LOSSES

GAINS

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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	None	None
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 Hydrobiidae 2 Nemouridae 3 Hydrophilidae 4 Tipulidae

NET LOSSES

0

NET GAINS

4

NOTES

1 Potamopyrgus jenkinsi 1 only 2 Nemoura cambrica/erratica, Amphinemura standfussi 3 Hydraena gracilis 1 only

4 Eloeophila sp. 1 only

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AQC - BIOLOCICAL SAMPLES

REGION Wessex	RIVER Hampshire Avon
STDATE 16.5.91	SITE Avon Bridge
SORTER DLS	SAMPLE CODE 09 4321 HAV 580
AQC OF BMWP FAMILIES A. IN VIAL	+ B. IN SAMPLE +

LOSSES

GAINS

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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	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 completed when no vial supplied with sample)	None

	NET LOSSES 0	NET GAINS 0
NOTES	 	
NOIES		

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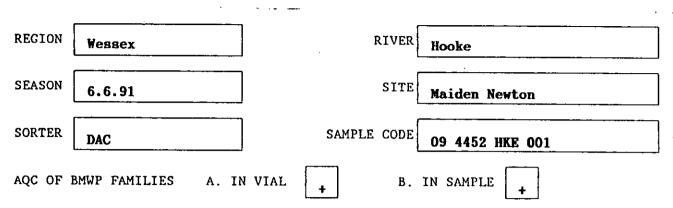
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AQC - BIOLOGICAL SAMPLES



	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	1 Simuliidae

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 Leuctridae 3 Hydroptilidae

NET LOSSES 0

NOTES

1 Simulium ornatum group, S.(Wilhelmia) sp. 2 Leuctra sp. (juvenile) 1 only 3 Ithytrichia sp. 1 only

NET GAINS 3

AQC - BIOLOGICAL SAMPLES

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REGION	RIVER B	eer Hacket		
5.8.91	SITE	eer Hacket		
SORTER PDS	SAMPLE CODE	9 5202 BRH 001		
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	None	None		

on sample data sheet and ii) BMWP families found in VIAL by IFE

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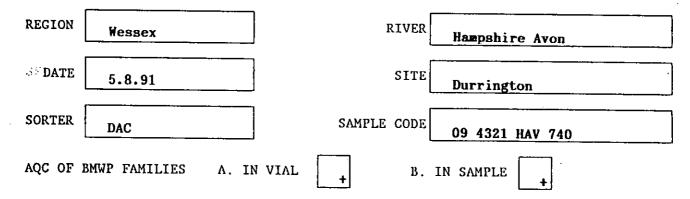
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Hydrobiidae 2 Elmidae

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0 NET LOSSES 2 NET GAINS NOTES 1 Potamopyrgus jenkinsi 2 Elmis aenea (adult) 1 only

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AQC - BIOLOCICAL SAMPLES



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 Glossiphoniidae* 2 Curculionidae	None

B	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	<pre>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</pre>	(This box only completed when no vial supplied with sample)	3 Piscicolidae 4 Glossiphoniidae* 5 Leuctridae
			, .

NET LOSSES

1

NOTES

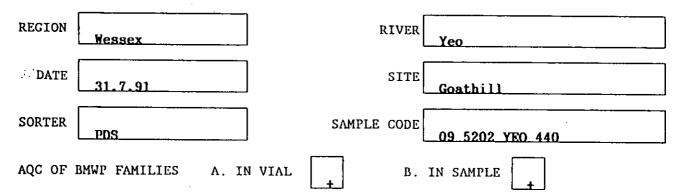
2 Curculionidae not included in 1991 survey 3 Piscicola geometra 1 only

- 4 Hemiclepsis marginata
- 5 Leuctra fusca in sample, cast skin in vial

NET CAINS

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AQC - BIOLOCICAL SAMPLES



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
i	1) 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)	1 Caenidae

NET LOSSES

0

NOTES

1 Caenis luctuosa/macrura 1 only

NET GAINS

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AQC - BIOLOGICAL SAMPLES

REGION	Wessex		RIVER	Bristol Avon
DATE	15.7.91		SITE	Kellaways
SORTER	PRH		SAMPLE CODE	09 5301 BAV 775
AQC OF I	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	None	1 Molannidae
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 Valvatidaé 3 Coenagriidae 4 Gerridae

NET LOSSES

0

NOTES

1 Molanna angustata

- 2 Valvata piscinalis 1 only 3 Pyrrhosoma nymphula 1 only
- 4 Indet Gerrid nymphs

NET GAINS

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AQC - BIOLOGICAL SAMPLES

REGION	Wessex		RIVER	Үео
J. DATE	17.7.91		SITE	D/s Penn STW
SORTER	PDS		SAMPLE CODE	09 5202 YEO 260
AQC OF B	MWP 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	1 Valvatidae	None
i	i) 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 Elmidae

NET LOSSES 1

NOTES

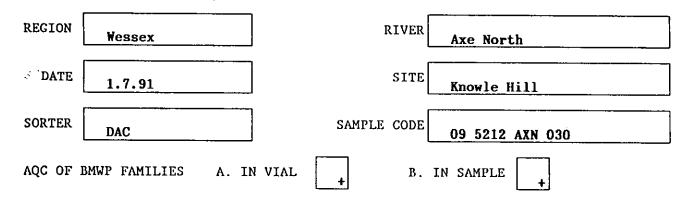
2 Elmis aenea (adults), Limnius volckmari (larva)

NET GAINS 1

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AQC - BIOLOGICAL SAMPLES



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	None	None
ii) BMWP families found in VIAL by IFE		

<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 Glossiphońiidae 2 Simuliidae

NET LOSSES

0

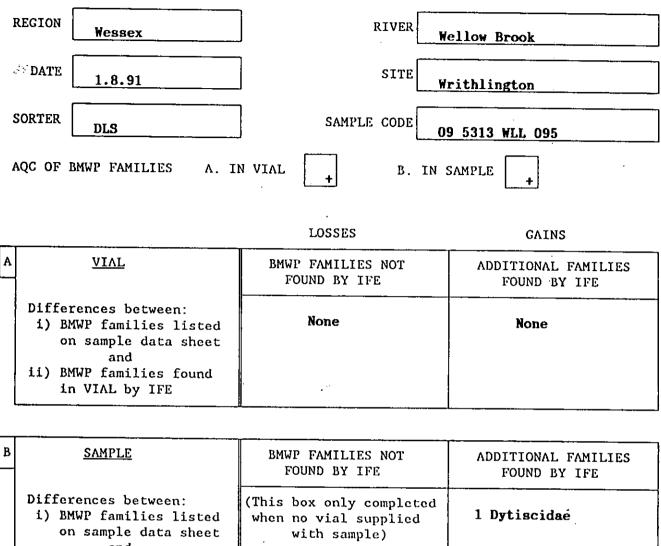
NOTES

1 Glossiphonia complanata 1 only 2 Simulium ornatum group (larvae + pupae)

NET GAINS

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AQC - BIOLOGICAL SAMPLES



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 Dytiscidae

NET LOSSES

0

NOTES

1 Oreodytes sanmarkii (adult) 1 only

NET GAINS

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AQC - BIOLOGICAL SAMPLES

REGION	Wessex	· · ·	RIVER	Wylye
DATE	13.6.91		SITE	Crockerton Green
SORTER	DLS		SAMPLE CODE	09 4323 WYL 340
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	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 completed when no vial supplied with sample)	1 Hydroptilidae 2 Tipulidae

NET LOSSES 0

NET GAINS

NOTES

1 Oxyethira sp. 1 only 2 Dicranota sp.

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AQC - BIOLOCICAL SAMPLES

REGION	RIVER Sydling Brook
DATE 31.7.91	SITE Grimstone
SORTER DAC	SAMPLE CODE 09 4454 SYD 002
AQC OF BMWP FAMILIES A. IN VIAL	+ B. IN SAMPLE +

LOSSES

GAINS

	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	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	<pre>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</pre>	(This box only completed when no vial supplied with sample)	None

	NET	LOSSES	0	NET	GAINS	0
NOTES						
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AQC - BIOLOGICAL SAMPLES

REGION	Wessex		RIVER	Wellow Brook
DATE	1.8.91		SITE	Foxcote
SORTER	DLS		SAMPLE CODE	09 5313 WLL 090
AQC OF 1	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

LOSSES

GAINS

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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	None	None
ii) BMWP families found in VIAL by IFE		

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		None
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0 NET LOSSES NET GAINS 0 . NOTES

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AQC - BIOLOCICAL SAMPLES

REGION Wessex	RIVER Mells
24.6.91	SITE Mells
SORTER DAC	SAMPLE CODE 09 5312 MLL 060
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	None	None
ii) BMWP families found in VIAL 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	B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	 i) BMWP families listed on sample data sheet and ii) BMWP families found 	(This box only completed when no vial supplied	

		NET	LOSSES	0	NET	GAINS	0
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NOTES							

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AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Chelston Stream
DATE	17.6.91		SITE	Ham
SORTER	PDS		SAMPLE CODE	09 5205 CHE 013
AQC OF I	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	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 completed when no vial supplied with sample)	1 Ephemerellidae

0 1 NET LOSSES NET GAINS NOTES . 1 Ephemerella ignita 1 only

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AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Brit
DATE	18.7.91		SITE	Netherbury
SORTER	GPG		SAMPLE CODE	09 4481_BRT_100
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	None	None
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)	None
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	NET LOSSES	NET GAINS 0
NOTES		

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AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Marden
DATE	17.6.91		SITE	Stanley
SORTER	PRH		SAMPLE CODE	09 5308 MAR 025
AQC OF I	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

LOSSES

GAINS

1

NET 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	."	

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 Simuliidae
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NET LOSSES

0

NOTES

1 Simulium erythrocephalum (larvae)

AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Chew
DATE	8.7.91		SITE	Shrowl Bridge
SORTER	DLS		SAMPLE CODE	09 5314 CHW 210
AQC OF	BMWP FAMILIES	A. IN VIAL	→ B.	IN SAMPLE +

LOSSES

GAINS

0

NET 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	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 completed when no vial supplied with sample)	None

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NOTES

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AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Parrett
DATE	1.7.91		SITE	Lower Severalls
SORTER	GPG		SAMPLE CODE	09 5203 PRR 540
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	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	(This box only completed when no vial supplied with sample)	None
and ii) BMWP families found in SAMPLE by IFE		

	NET LOSSES 0 NET	GAINS	0
NOTES			
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AQC - BIOLOCICAL SAMPLES

F	REGION Wessex		RIVER	Hampshire Avon	٦
	·· DATE 11.7.91		SITE	Woodgreen]
5	SORTER PRH		SAMPLE CODE	09 4326 HAV 376]
F	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	٦
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found		None	None	1	
	in VIAL by I	F			

B {	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BMW on ii) BMW	nces between: P families listed sample data sheet and P families found SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Aphelocheiridae 2 Hydrophilidae 3 Psychomyiidae 4 Tipulidae

NET LOSSES

0

NET GAINS

4

NOTES

1 Aphelocheirus aestivalis 1 only 2 Helophorus brevipalpis (adult) 1 only 3 Tinodes waeneri 1 only 4 Dicranota sp.

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AQC - BIOLOGICAL SAMPLES

REGION	Wessex		RIVER	Fishers Brook
DATE	5.8.91		SITE	Lower Whitley
SORTER	PRH		SAMPLE CODE	09 5308 FSH 012
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	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 completed when no vial supplied with sample)	None

	NET LOSSES 0	NET CAINS 0
NOTES		

AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Avill
DATE	12.8.91		SITE	Dunster
SORTER	GPG		SAMPLE CODE	09 5105 AVL 050
AQC OF H	SMWP 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 Leptoceridae	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 Dytiscidaé

NET LOSSES

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NOTES

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2 Oreodytes septentrionalis (larva) 1 only

NET GAINS

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AQC - BIOLOCICAL SAMPLES

REGION	Wessex		RIVER	Ozleworth Brook
DATE	17.6.91		SITE	Burroughhill Farm
SORTER	GPG		SAMPLE CODE	09 5423 OZL 010
AQC OF	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

LOSSES

GAINS

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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 completed when no vial supplied with sample)	None

NOTES 0 NET GAINS 0

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AQC - BIOLOGICAL SAMPLES

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REGION Wessex		Dorset Frome
DATE 28.11.91		Hurst Bridge
SORTER DAC	SAMPLE CODE	09 4457 DFR 190
AQC OF BMWP FAMILIES A. IN	N VIAL + B. I	N SAMPLE +
	7.	·
[]]	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 1 Valvatidae 2 Sphaeriidae 3 Ephemerellidae 4 Caenidae 5 Lepidostomatidae
<u> </u>	NET LOSSES 0	NET GAINS 5

NOTES

1 Valvata piscinalis 1 only 2 Pisidium sp. 3 Ephemerella ignita 1 only

- 4 Caenis rivulorum 1 only
- 5 Indet lepidostomatid (juvenile) 1 only

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AQC - BIOLOGICAL SAMPLES

REGION	Wessex		Hooke
DATE	2.9.91] site	Lower Kingcombe
SORTER	DLS	SAMPLE CODE	09 4452 HKE 051
	MWP FAMILIES A. I	N VIAL + B. LOSSES	IN SAMPLE + GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BMT on	ences between: WP families listed sample data sheet and WP families found	1 Cordulegasteridae	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 completed when no vial supplied with sample)	None

in VIAL by IFE

NET LOSSES 1 NET GAINS 0 NOTES • •

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AQC - BIOLOGICAL SAMPLES

1	REGION	Wessex		fylye
	DATE	5.9.91		lorton Bavant
	SORTER	DLS	SAMPLE CODE	9 4323 WYL 285
1	AQC OF I	BMWP FAMILIES A. I		SAMPLE +
_			LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM or	rences between: WP families listed sample data sheet and	None	None
i		WP families found VIAL by IFE		·
				· · · · · · · · · · · · · · · · · · ·
B		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM on	ences between: WP families listed sample data sheet and	(This box only completed when no vial supplied with sample)	None
		WP families found SAMPLE by IFE		
			NET LOSSES 0	
			NET LOSSES 0	NET GAINS 0
N	OTES			

AQC - BIOLOGICAL SAMPLES

REGION	Wessex		Deane Water East
DATE	3.9.91	SITE	Режвеу
SORTER	DAC	SAMPLE CODE	09 4321 DNE 015
AQC OF B	MWP FAMILIES A. I	N VIAL + B. IN	SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM	ences between: WP families listed	None	None

 i) BMWP families listed on sample data sheet and
 ii) BMWP families found in VIAL by IFE

.

SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and	(This box only completed when no vial supplied with sample)	None
ii) BMWP families found in SAMPLE by IFE		:

NET LOSSES NET GAINS 0 0 NOTES . .

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AQC - BIOLOGICAL SAMPLES

REGION Wessex	RIVER	Corfe River
DATE 26.11.91	SITE	Wytch
SORTER DAC	SAMPLE CODE	09 4490 CRF 010
AQC OF BMWP FAMILIES A. IN	VIAL + B. 3	IN SAMPLE +
	LOSSES	
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	GAINS 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 Dytiscidae
· · · · · · · · · · · · · · · · · · ·		
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)	ed 2 Hydrobiidae 3 Elmidae 4 Polycentropodidae
	NET LOSSES 0	NET GAINS 4
NOTES 1 Platambus maculatus 2 Potamopyrgus jenkir 3 Elmis aenea (adult 4 Plectrocnemia consp	nsi + larvae)	

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AQC - BIOLOGICAL SAMPLES

.' 1	REGION	Wessex	RIVER	Lan Brook
;	DATE	25.11.91		Lambridge
:	SORTER	PRH	SAMPLE CODE	09 5301 LAM 008
I	AQC OF B	MWP FAMILIES A.		IN SAMPLE +
			LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM	ences between: WP families listed sample data sheet and	None	1 Heptageniidae
		WP families found VIAL by IFE		
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BMN on ii) BMN	ences between: WP families listed sample data sheet and WP families found SAMPLE by IFE	(This box only complete when no vial supplied with sample)	ed 2 Hydropsychidae 3 Limnephilidae 4 Lepidostomatidae
			NET LOSSES 0	NET GAINS 4
N	OTES	1 Ecdyonurus sp. 2 Hydropsyche silta 3 Indet limnephilia 4 Lepidostoma hirta	l (juvenile) 1 only	
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AQC - BIOLOGICAL SAMPLES

REGION Wessex	RIVER	Cale
DATE 11.11.91		Goulds Farm
SORTER PRH		
SORTER PRH	SAMPLE CODE	09 4332CAL 100
AQC OF BMWP FAMILIES A	. IN VIAL + B.	IN SAMPLE +
	**.	
, ,	LOSSES	GAINS
	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families liste on sample data shee and		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 liste on sample data shee and ii) BMWP families found in SAMPLE by IFE		ed None
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	NET LOSSES	D NET GAINS 0
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AQC - BIOLOGICAL SAMPLES

REGION	Wessex		RIVER	Hampshire Avon
DATE	12.11.91		SITE	Amesbury
SORTER	DAC		SAMPLE CODE	09 4321 HAV 690
AQC OF	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +
	· · · · · · · · · · · · · · · · · · ·		LOSSES	GAINS
A	<u>VIAL</u>	4	P FAMILIES NOT OUND 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 completed when no vial supplied with sample)	1 Hydroptilidae

NET LOSSES 0

NET GAINS

1

NOTES

1 Ithytrichia sp.

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AQC - BIOLOGICAL SAMPLES

REGION	Wessex	RIVER	Bristol Avon
DATE	28.11.91		Summerlands Farm
SORTER	PRH	SAMPLE CODE	09 5301 BAV 810
AQC OF BMW	P FAMILIES A. IN	N VIAL + B. IN	SAMPLE +
		LOSSES	GAINS
	<u>/IAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BMWP on sa ii) BMWP	ces between: families listed ample data sheet and families found IAL by IFE	1 Asellidae * 2 Baetidae*	3 Limnephilidae
	·	······································	
B <u>S</u> A	MPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
 i) BMWP on se ii) BMWP 	es between: families listed mple data sheet and families found MPLE by IFE	(This box only completed when no vial supplied with sample)	4 Asellidae* 5 Baetidae*
		NET LOSSES 0	NET GAINS 1
4	Limnephilus sp, Po Asellus aquaticus Cloeon dipterum, Co	tamophylax group entroptilum luteolum	
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AQC - BIOLOGICAL SAMPLES

Ŕ	EGION	Wessex		Bristol Avon
,	DATE [13.11.91		Frying Pan Farm
· SC	ORTER	PRH	SAMPLE CODE	09 5301 BAV 570
	QC OF B	MWP 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) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found VIAL by IFE	None	None
_ _		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BMN on ii) BMN	ences between: MP families listed sample data sheet and MP families found SAMPLE by IFE	(This box only complete when no vial supplied with sample)	d None
			NET LOSSES	NET CAINS 0
NOT	res			
			: 7	

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AQC - BIOLOGICAL SAMPLES

REGION	Wessex		RIVER	Hampshire Avon
DATE	28.11.91		SITE	Royalty
SORTER	GPG		SAMPLE CODE	09 4328 HAV 010
AQC OF H	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
i) ii)	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)	1 Lepidostomatidae

NET LOSSES 0

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NET GAINS

1

NOTES

1 Lepidostoma hirtum 1 only

AQC - BIOLOGICAL SAMPLES

REGION	Wessex	RIVER	Doniford Stream
DATE	20.11.91	SITE	Sampford Brett
SORTER [GPG	SAMPLE CODE	09 5109 DNF 030
AQC OF B	MWP FAMILIES	A. IN VIAL + B.	IN SAMPLE +
	······································	LOSSES	GAINS
A 	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE

	FOUND BY IFE	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 liste on sample data shee and		1 Leptoceridae
ii) BMWP families found in SAMPLE by IFE		

NET LOSSES

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NET GAINS

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NOTES

1 Athripsodes sp. (juvenile) 1 only

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AQC - BIOLOGICAL SAMPLES

1	REGION	Wessex		Үео
	DATE	5.11.91		Thornford
	SORTER	PDS	SAMPLE CODE	09 5202 YEO 350
	AQC OF I	BMWP FAMILIES A. I	N VIAL + B. J	IN SAMPLE +
			LOSSES	GAINS
. 🗛		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM or ii) BM	Tences between: WP families listed and WP families found NP families found NAL by IFE	1 Oligochaeta* 2 Caenidae*	None
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found SAMPLE by IFE	(This box only complete when no vial supplied with sample)	ed 3 Oligochaeta* 4 Caenidae* 5 Dytiscidae
				1
			NET LOSSES 0	NET GAINS 1
N	IOTES	3 Tubificidae, Lumbr 4 Caenis luctuosa/ma 5 Platambus maculatu	ICTUTA	
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AQC - BIOLOGICAL SAMPLES

REGION	Wessex		Brit
DATE	11.11.91] SITE	Netherbury
SORTER	GPG	SAMPLE CODE	09 4481 BRT 100
AQC OF E	SMWP FAMILIES A. I	N VIAL + B. I	IN SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found VIAL by IFE	1 Odontoceridae *	2 Lepidostomatidae
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В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found SAMPLE by IFE	(This box only complete when no vial supplied with sample)	d 3 Planariidae 4 Valvatidae 5 Leuctridae 6 Gyrinidae 7 Odontoceridae*
		NET LOSSES	NET GAINS 5
NOTES	2 Lepidostoma hirtum 3 Dugesia lugubris/p 4 Valvata piscinalis 5 Leuctra hippopus 1 6 Orectochilus villo 7 Odontocerum albico	olychroa 1 only only sus (larva) 1 only	
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AQC - BIOLOGICAL SAMPLES

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REGION Wessex		RIVER	Ozleworth Brook
DATE 23.9.91		SITE	Kingswood
SORTER GPG		SAMPLE CODE	09 5243 OZL 030
AQC OF BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +
		••	
[···] ··· ·	I	OSSES	GAINS
A <u>VIAL</u>	31	AMILIES NOT D BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between i) BMWP families I on sample data and	listed 1 Dytis sheet	scidae*	None
ii) BMWP families i in VIAL by IFE	Found		
B <u>SAMPLE</u>		AMILIES NOT D BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences betweer i) BMWP families 1 on sample data and ii) BMWP families f	isted when no sheet wit	only complete vial supplied h sample)	ed 2 Dytiscidae* 3 Elmidae 4 Rhyacophilidae

NET LOSSES

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NET GAINS

2

NOTES

in SAMPLE by IFE

2 Oreodytes sanmarkii (adults) 3 Elmis aenea, Limnius volckmari, Oulimnius sp. (larvae) 4 Rhyacophila dorsalis 1 only

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AQC - BIOLOGICAL SAMPLES

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1	REGION	Wessex	RIVER	Hillfarrance Brook
•	DATE	3.9.91		Hillfarrance
ł	SORTER	PDS	SAMPLE CODE	09 5205 HLL 020
1	AQC OF I	BMWP FAMILIES A. I	N VIAL + B. IN	N SAMPLE +
	r 		LOSSES	GAINS
A <u>VIAL</u>		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM or ii) BM	Tences between: WP families listed a sample data sheet and WP families found a VIAL by IFE	1 Leptoceridae * 2 Sericostomatidae	3 Beraeidae
			······································	
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM on	ences between: WP families listed sample data sheet	(This box only completed when no vial supplied with sample)	4 Hydroptilidae 5 Limnephilidae

NET LOSSES

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NET GAINS

6 Leptoceridae*

7 Simuliidae

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NOTES

and

ii) BMWP families found

in SAMPLE by IFE

3 Beraeodes minutus 4 Hydroptila sp. (pupae)

5 Chaetopteryx villosa 1 only 6 Mystacides nigra/longicornis

7 Simulium ornatum group (larva + pupa)

AQC - BIOLOGICAL SAMPLES

	REGION	14] [
		Wessex	RIVER	Hampshire Avon
,	DATE	21.11.91		Salisbury
;	SORTER	DLS	SAMPLE CODE	09 4326 HAV 530
4	AQC OF 1	BMWP FAMILIES A. I	N VIAL + B.	IN SAMPLE +
	· <u> </u>		LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM or ii) BM	ences between: WP families listed sample data sheet and WP families found VIAL by IFE	None	None
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM	ences between: WP families listed sample data sheet and	(This box only complete when no vial supplied with sample)	ed 1 Planariidae

NET LOSSES 0

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17

NET GAINS

1

NOTES

ii) BMWP families found in SAMPLE by IFE

1 Dugesia lugubris/polychroa 1 only

AQC - BIOLOGICAL SAMPLES

REGION	Wessex		RIVER	Biss Brook
DATE	21.11.91		SITE	Brook House Farm
SORTER	PDS		SAMPLE CODE	09 5310 BIS 055
AQC OF 1	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	None	None
ii) BMWP families found in VIAL by IFE		i I

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	(This box only completed when no vial supplied with sample)	1 Limnephilidae
ii) BMWP families found in SAMPLE by IFE	-	÷

NET LOSSES 0 NET GAINS 1
ES 1 Indet limnephilid (juvenile) 1 only

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NOTES

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AQC - BIOLOGICAL SAMPLES

DATE 3.9.91 SITE East Nynehead	
SORTER PDS SAMPLE CODE 09 5205 TON 260	
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	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	(This box only completed when no vial supplied with sample)	None
ii) BMWP families found in SAMPLE by IFE		
		:
		· · · ·

	NET LOSSES 0	NET GAINS 0
NOTES	 	:

AQC - BIOLOGICAL SAMPLES

REGION	Wessex	RIVER	Nadder		
DATE 7.11.91		SITEChurchfields			
SORTER DLS		SAMPLE CODE	09 4322 NDD 015		
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +					
		LOSSES	GAINS		
 A <u>VIAL</u> Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE 		BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
		1 Hydropsychidae*	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)	2 Caenidae 3 Hydropsychidae* 4 Hydroptilidae

NOTES 2 Caenis luctuosa/macrura 3 Hydropsyche pellucidula 4 Ithytrichia sp. 1 only

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