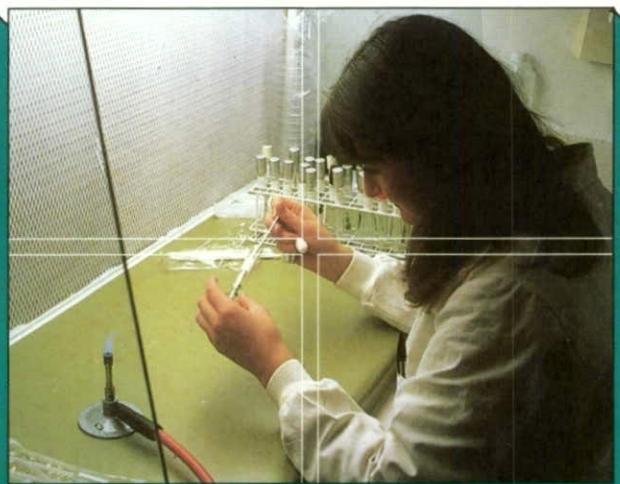
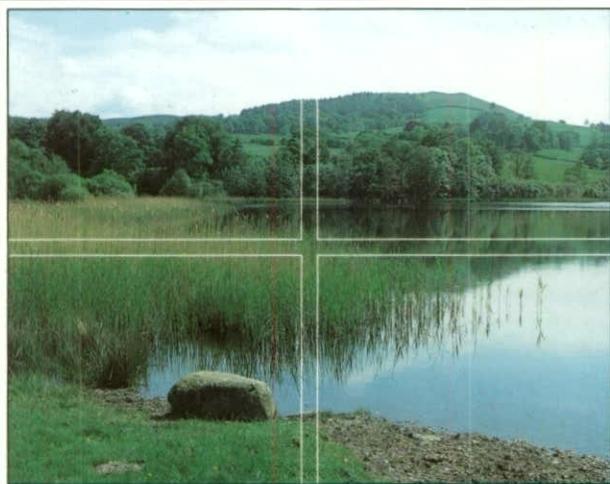


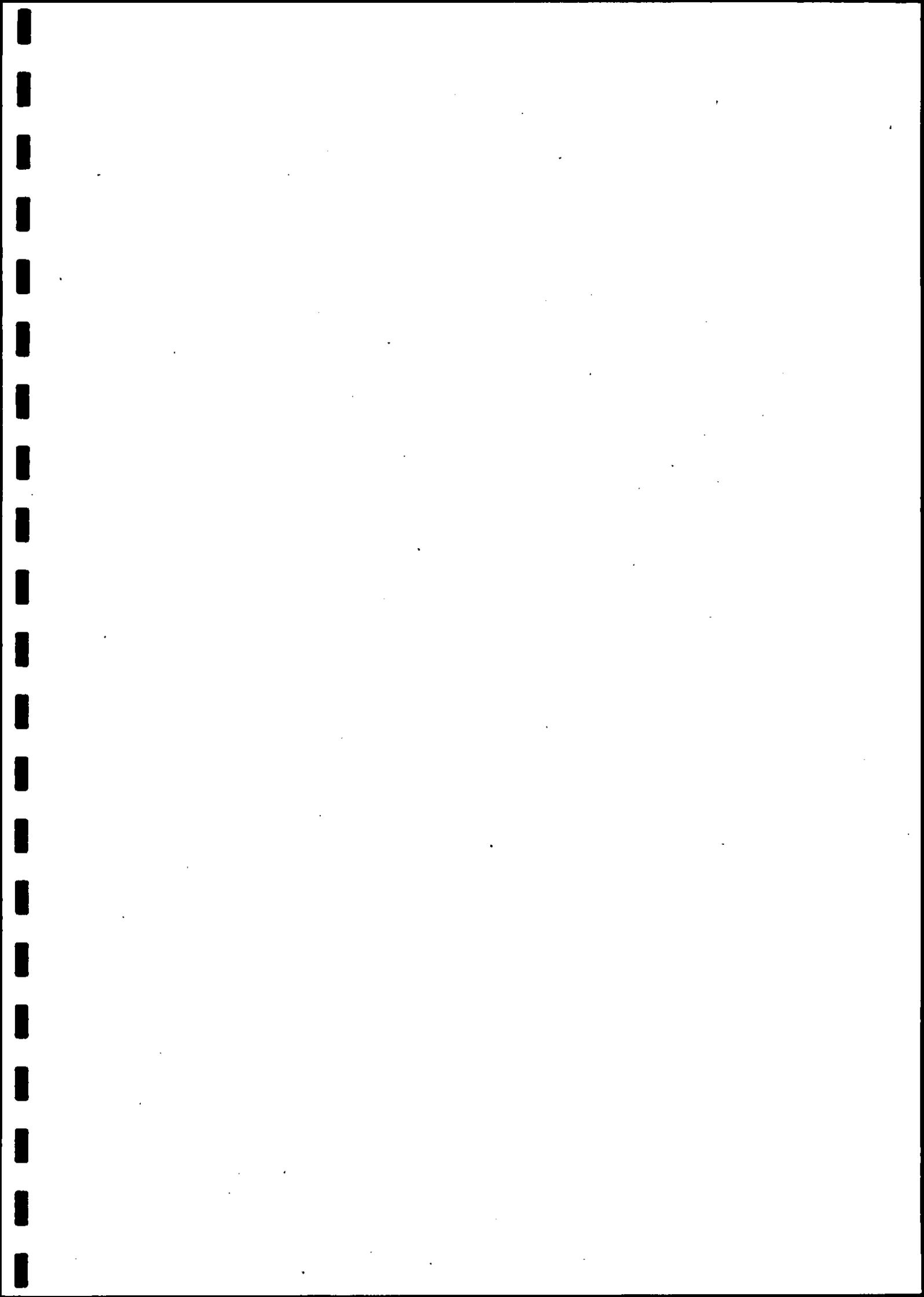


Institute of
Freshwater
Ecology

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

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for the 1990 River Quality Survey
NRA Southern Region

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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 63 samples audited for Southern 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 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 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 Syme's for assistance with cataloguing and storage of samples and Mrs Valerie Palmer for typing the manuscript.

TABLE 1. The IFE Report form

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

REGION RIVER

SEASON SITE

SORTER 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 | | |

| | | | |
|---|--|---|----------------------------------|
| 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) | |

NET LOSSES NET GAINS

NOTES

TABLE 2. The 34 spring samples audited for Southern Region, with sample sorter codes and numbers of taxa 'lost', 'gained' and 'omitted'

| River | Site | Sorter | Losses | Gains | Omissions |
|--------------------|-------------------|--------|--------|-------|-----------|
| Cuckmere | Sheepwash bridge | E1 | 0 | 2 | 0 |
| Dudwell | Burwash Weald | E1 | 0 | 2 | 0 |
| Shovelstrode Str | Butcherfield Cot | E2 | 0 | 2 | 0 |
| Great Stour | Vauxhall | E2 | 0 | 3 | 0 |
| Coggins Mill Str | Bivelham Farm | E3 | 1 | 4 | 1 |
| Royal Military Ca | Stone Bridge | E4 | 0 | 2 | 0 |
| Kent Rother | Udian | E5 | 1 | 3 | 0 |
| Eden Vale Stream | Blackberry Farm | E5 | 0 | 1 | 0 |
| Kird | Kirdford Bridge | W1 | 0 | 3 | 0 |
| Parsons Brook | Purveyors Farm Br | W2 | 2 | 3 | 0 |
| Cheesemans Br Trib | Potwell | W3 | 0 | 0 | 0 |
| Blakes Gill | Scolliers Bridge | W4 | 0 | 3 | 0 |
| Horton Heath Str | Maddoxford Farm | W6 | 0 | 3 | 0 |
| Great Stour | Longport Bridge | E7 | 0 | 3 | 0 |
| Gibbs Brook | Brook Farm | E8 | 1 | 1 | 0 |
| Penerly Water | Penerly Gate | W11 | 0 | 5 | 1 |
| Brookley Stream | Brockenhurst | W11 | 3 | 3 | 0 |
| Bourne | Dux Farm | E6 | 0 | 5 | 0 |
| Arun | Wellcross Bridge | W2 | 0 | 2 | 0 |
| Adur East | Hookers Farm | W6 | 1 | 4 | 0 |
| Sunnyside Stream | Weir Wood | E4 | 0 | 0 | 0 |
| Hawkhurst S. Str | A229 Bridge | E8 | 0 | 0 | 0 |
| Warblington Stream | Warblington Ch | W3 | 1 | 0 | 0 |
| Chess Stream | Chess Bridge | W4 | 0 | 8 | 0 |
| Minstead Stream | A272 Bridge | W9 | 0 | 6 | 0 |
| Test | Witchurch | W9 | 1 | 3 | 1 |
| Sarre Penn | Chislet Park | E3 | 1 | 1 | 0 |
| Kent Rother | Newenden | E7 | 1 | 0 | 0 |
| Stor | Wickford Bridge | W1 | 0 | 2 | 0 |
| Pagham Rife | D/s Pagham STW | W7 | 1 | 1 | 0 |
| Sowley Str West | East End | W7 | 1 | 0 | 0 |
| Lukely Brook | Carisbrook | W8 | 0 | 2 | 2 |
| Kird | U/s Pond Bay Mill | W8 | 1 | 1 | 0 |
| Hexden Ch Trib | Cattsford | E6 | 1 | 1 | 0 |

TABLE 3. The 15 summer samples audited for Southern Region, with sample sorter codes and numbers of taxa 'lost', 'gained' and 'omitted'

| River | Site | Sorter | Losses | Gains | Omissions |
|-------------------|--------------------|--------|--------|-------|-----------|
| Waldron Gill | Brookside Bridge | E1 | 1 | 3 | 0 |
| Lephams Br Stream | Rocks Lane | E2 | 1 | 3 | 0 |
| East Stour | Sevington Bridge | E3 | 0 | 4 | 0 |
| Sissinghurst Str | S'hurst Castle Rd | E7 | 3 | 1 | 0 |
| Little Hawden Str | Bid Bridge | E4 | 0 | 4 | 1 |
| Eden Vale Stream | Blackberry Farm | E6 | 1 | 3 | 0 |
| Brede Trib 70 | D/s Powdermill Res | E8 | 2 | 3 | 0 |
| Sussex Rother | Trotton Bridge | W3 | 0 | 0 | 0 |
| Blakes Gill | Scolliers Bridge | W4 | 0 | 5 | 0 |
| Caul Bourne | Shalfleet | W2 | 0 | 0 | 0 |
| Loxwood Stream | Drungewick | W9 | 2 | 1 | 0 |
| Broad Rife | Ferry Sluice | W8 | 0 | 2 | 0 |
| Shawfords Lake | A3051 Bridge | W1 | 1 | 0 | 0 |
| Greenhill Leat | Saddlers Mill | W7 | 1 | 1 | 0 |
| Kird | Harsfold Farm | W11 | 0 | 3 | 0 |

TABLE 4. The 14 autumn samples audited for Southern Region, with sample sorter codes and numbers of taxa 'lost', 'gained' and 'omitted'.

| River | Site | Sorter | Losses | Gains | Omissions |
|------------------|--------------------|--------|--------|-------|-----------|
| Bourne | Hurstbourne Priors | W2 | 0 | 5 | 0 |
| Rodge Brook | Porchfield | W8 | 0 | 0 | 0 |
| Broad Rife | Ferry Sluice | W1 | 0 | 0 | 0 |
| Hook Lake | Hook | W3 | 0 | 0 | 0 |
| Hermitage Stream | Bedhampton WW | W9 | 1 | 1 | 0 |
| Monks Brook | Swaythling | W7 | 0 | 1 | 0 |
| Merston Stream | Blackwater | W11 | 1 | 0 | 0 |
| Kent Rother | Robertsbridge PS | E3 | 1 | 0 | 0 |
| Kent Rother | Newenden | E1 | 0 | 0 | 0 |
| Reading Sewer | Peening Quarter | E6 | 0 | 0 | 0 |
| Barden Mill Str | Poundbridge | E7 | 0 | 0 | 0 |
| Shovelstrode Str | Butcherfield Cot | E2 | 0 | 1 | 0 |
| Ouse | Gold Bridge | E4 | 1 | 0 | 0 |
| Medway | Hartlake Bridge | E8 | 0 | 0 | 0 |

TABLE 5
Results of individual sample audits

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|------------------|
| REGION | Southern | RIVER | Cuckmere |
| SEASON | Spring | SITE | Sheepwash Bridge |
| SORTER | R1 | SAMPLE CODE | NRA05 2216 |

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 |
| 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 Calopterygidae (Agridae) 2 Hydrophilidae |

NET LOSSES NET GAINS

NOTES

1 Calopteryx splendens
2 Hydraena gracilis

Non-BMWP families:
No Muscidae found in vial but Tabanidae (Chrysops Group) found there

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|---------------|
| REGION | Southern | RIVER | Dudwell |
| SEASON | Spring | SITE | Burwash Weald |
| SORTER | E1 | SAMPLE CODE | NRA05 1126 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|--|---|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center; font-size: 1.2em;">None</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center; font-size: 1.2em;">None</p> |
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center;">(This box only completed when no vial supplied with sample)</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center;">1 Taeniopterygidae 2 Hydrophilidae</p> |

NET LOSSES NET GAINS

| | |
|--------------|---|
| NOTES | 1 Brachyptera risi (1 only) 2 Hydraena gracilis (1 only) |
|--------------|---|

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-----------------------|
| REGION | Southern | RIVER | Shovelstrode Stream |
| SEASON | Spring | SITE | Butcherfield Cottages |
| SORTER | E2 | SAMPLE CODE | NRA05 1016 |

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 | 1 Ephemerellidae |
| 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 Nemouridae |

NET LOSSES NET GAINS

NOTES
 1 Ephemerella ignita
 2 Nemoura cinerea

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-------------|
| REGION | Southern | RIVER | Great Stour |
| SEASON | Spring | SITE | Vauxhall |
| SORTER | E2 | SAMPLE CODE | NRA05 1094 |

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 | 1 Limnephilidae |
| 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 Ancylidae 3 Piscicolidae |

NET LOSSES NET GAINS

NOTES

1 Limnephilus rhombicus (Melampophylax mucoreus also in sample)
 2 Ancylus fluviatilis (1 only)
 3 Piscicola geometra (1 only)

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|---------------------|
| REGION | Southern | RIVER | Coggins Mill Stream |
| SEASON | Spring | SITE | Bivelham Farm |
| SORTER | E3 | SAMPLE CODE | NRA05 1124 |

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 Leptoceridae* 2 Goeridae | 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) | 3 Ephemerellidae 4 Caenidae 5 Haliplidae 6 Hydroptilidae 7 Leptoceridae* |

NET LOSSES NET GAINS

NOTES

- 1 Lasiocephala basalis (in vial) mistaken for Athripsodes (in sample)?
- 3 Ephemerella ignita
- 4 Caenis rivulorum
- 5 Brychius elevatus (adult, 1 only)
- 6 Ithytrichia sp.

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|----------------------|
| REGION | Southern | RIVER | Royal Military Canal |
| SEASON | Spring | SITE | Stone Bridge |
| SORTER | E4 | SAMPLE CODE | NRA05 1144 |

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 | 1 Valvatidae |
| 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 Dytiscidae |

NET LOSSES NET GAINS

NOTES

1 Valvata cristata
2 Graptodytes pictus (1 only)

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-------------|
| REGION | Southern | RIVER | Kent Rother |
| SEASON | Spring | SITE | Udiam |
| SORTER | E5 | SAMPLE CODE | NRA05 1120 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|--|--|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p>1 Valvatidae</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p>None</p> |
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p>(This box only completed when no vial supplied with sample)</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p>2 Ephemerellidae 3 Hydrophilidae 4 Goeridae</p> |

NET LOSSES NET GAINS

NOTES

2 Juvenile specimens
 3 Hydraena pulchella (1 only)
 4 Goera pilosa (1 only)

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|------------------|
| REGION | Southern | RIVER | Eden Vale Stream |
| SEASON | Spring | SITE | Blackberry Farm |
| SORTER | E5 | SAMPLE CODE | NRA05 1038 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|--|--|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center;">None</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center;">None</p> |
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center;">(This box only completed when no vial supplied with sample)</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center;">1 Hydroptilidae</p> |

NET LOSSES NET GAINS

NOTES 1 Hydroptila sp. (1 only)

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-----------------|
| REGION | Southern | RIVER | Kird |
| SEASON | Spring | SITE | Kirdford Bridge |
| SORTER | W1 | SAMPLE CODE | NRA05 3049 |

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 | 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 Ephemerellidae 3 Ephemeridae |

NET LOSSES NET GAINS

NOTES

- 1 Polycelis nigra/tenuis
- 2 Ephemerella ignita
- 3 Ephemera vulgata 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-----------------------|
| REGION | Southern | RIVER | Parsons Brook |
| SEASON | Spring | SITE | Purveyors Farm Bridge |
| SORTER | W2 | SAMPLE CODE | NRA05 3019 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|--|--|
| A | <p><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p>BMWP FAMILIES NOT FOUND BY IFE</p> <p>1 Ephemeroidea 2 Rhyacophilidae</p> | <p>ADDITIONAL FAMILIES FOUND BY IFE</p> <p>3 Psychomyidae</p> |
| B | <p><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p>BMWP FAMILIES NOT FOUND BY IFE</p> <p>(This box only completed when no vial supplied with sample)</p> | <p>ADDITIONAL FAMILIES FOUND BY IFE</p> <p>4 Nemouridae 5 Leptoceridae</p> |

NET LOSSES NET GAINS

NOTES

3 Lype sp.
 4 Nemoura cinerea 1 only
 5 Athripsodes sp.

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|--------------------|
| REGION | Southern | | RIVER | Cheesemans Br Trib |
| SEASON | Spring | | SITE | Potwell |
| SORTER | W3 | | SAMPLE CODE | NRA05 4106 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|---|---|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center;">None</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center;">None</p> |

| | | | |
|----------|--|--|---|
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center;">(This box only completed when no vial supplied with sample)</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center;">None</p> |
|----------|--|--|---|

NET LOSSES

NET GAINS

NOTES

Non-BMWP taxon:
Bibionidae found in vial

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|------------------|
| REGION | Southern | RIVER | Blakes Gill |
| SEASON | Spring | SITE | Scolliers Bridge |
| SORTER | W4 | SAMPLE CODE | NRA05 3021 |

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 |
| 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 Sphaeriidae 3 Leptophlebiidae |

NET LOSSES NET GAINS

NOTES

1 Potamopyrgus jenkinsi 1 only
 2 Pisidium sp. 1 only
 3 Habrophlebia fusca

Non-BMWP taxon:
 Rhagionidae - Atrichops crassipes

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|---------------------|
| REGION | Southern | RIVER | Horton Heath Stream |
| SEASON | Spring | SITE | Maddoxford Farm |
| SORTER | W6 | SAMPLE CODE | NRA05 4114 |

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 |
| 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 Rhyacophilidae 3 Beraeidae |

NET LOSSES 0 NET GAINS 3

NOTES

1 Potamopyrgus jenkinsi 1 only
 2 Rhyacophila sp. 1 only, Agapetus sp. 1 only
 3 Beraeodes minutus

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

REGION Southern

RIVER Great Stour

SEASON Spring

SITE Longport Bridge

SORTER E7

SAMPLE CODE NRA05 1090

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 | 1 Dendrocoelidae 2 Physidae |

| | | | |
|----------|---|---|-------------------------------------|
| 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) | 3 Haliplidae |

NET LOSSES 0

NET GAINS 3

NOTES

- 1 Dendrocoelum lacteum
- 2 Physa fontinalis
- 3 Haliplus sp. (larva) 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

REGION Southern

RIVER Gibbs Brook

SEASON Spring

SITE Brook Farm

SORTER E8

SAMPLE CODE NRA05 1031

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 Polycentropodidae | 2 Dendrocoelidae |

| | | | |
|----------|--|---|----------------------------------|
| 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 1

NET GAINS 1

NOTES

2 Dendrocoelum lacteum

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|---------------|
| REGION | Southern | RIVER | Penerly Water |
| SEASON | Spring | SITE | Penerly Gate |
| SORTER | W11 | SAMPLE CODE | NRA05 4164 |

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 Leuctridae* | 2 Sphaeriidae 3 Perlodidae |

| | | | |
|---|--|---|--|
| 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 Leuctridae* 5 Capniidae 6 Elmidae 7 Beraeidae |

NET LOSSES NET GAINS

NOTES

3 Isoperla grammatica
 4 Leuctra geniculata, L. fusca
 5 Capnia bifrons 1 only
 6 Oulimnius sp. 1 only
 7 Beraeodes minutus 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-----------------|
| REGION | Southern | RIVER | Brookley Stream |
| SEASON | Spring | SITE | Brockenhurst |
| SORTER | W11 | SAMPLE CODE | NRA05 4171 |

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: 1) BMWP families listed on sample data sheet and 11) BMWP families found in VIAL by IFE | 1 Aphelocheiridae 2 Curculionidae 3 Chrysomelidae | None |

| | | | |
|---|--|---|--|
| B | <u>SAMPLE</u> | BMWP FAMILIES NOT FOUND BY IFE | ADDITIONAL FAMILIES FOUND BY IFE |
| | Differences between: 1) BMWP families listed on sample data sheet and 11) BMWP families found in SAMPLE by IFE | (This box only completed when no vial supplied with sample) | 4 Elmidae 5 Rhyacophilidae 6 Beracidae |

NET LOSSES

NET GAINS

NOTES

- 1 Terrestrial Hemipteran
- 2 Terrestrial Curculionid species
- 4 Elms aenea (larvae)
- 5 Agapetus sp. 1 only
- 6 Beracodes minutus 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

REGION Southern

RIVER Bourne

SEASON Spring

SITE Dux Farm

SORTER E6

SAMPLE CODE NRA05 1046

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 | 1 Dendrocoelidae 2 Glossiphoniidae 3 Ephemeridae 4 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) | 5 Leptophlebiidae |

NET LOSSES 0

NET GAINS 5

NOTES

- 1 Dendrocoelum lacteum
- 2 Glossiphonia complanata 1 only
- 3 Front half in vial, 1 only
- 4 Simulium costatum 1 only
- 5 Paraleptophlebia submarginata

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|------------------|
| REGION | Southern | RIVER | Arun |
| SEASON | Spring | SITE | Wellcross Bridge |
| SORTER | W2 | SAMPLE CODE | NRA05 3043 |

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 |

| | | | |
|---|--|---|----------------------------------|
| 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 Ancylidae 2 Caenidae |

NET LOSSES NET GAINS

NOTES

1 Acroloxus lacustris 1 only
2 Caenis luctuosa/macrura 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|--------------|
| REGION | Southern | RIVER | Adur East |
| SEASON | Spring | SITE | Hookers Farm |
| SORTER | W6 | SAMPLE CODE | NRA05 3002 |

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 Scirtidae | 2 Gammaridae |

| | | | |
|----------|--|---|--|
| 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) | 3 Erpobdellidae 4 Elmidae 5 Leptoceridae |

NET LOSSES 1 NET GAINS 4

NOTES

- 1 Indet terrestrial adult
- 2 Gammarus pulex
- 3 Erpobdella octoculata 1 only
- 4 Elmis aenea (larva) 1 only
- 5 Athripsodes aterrimus 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|------------------|
| REGION | Southern | | RIVER | Sunnyside Stream |
| SEASON | Spring | | SITE | Weir Wood |
| SORTER | E4 | | SAMPLE CODE | NRA05 1015 |

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 None | ADDITIONAL FAMILIES FOUND BY IFE None |

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

NET LOSSES NET GAINS

NOTES

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|------------------------|
| REGION | Southern | RIVER | Hawkhurst South Stream |
| SEASON | Spring | SITE | U/s A229 Bridge |
| SORTER | EH | SAMPLE CODE | NRA05 1132 |

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 |

| | | | |
|---|--|---|----------------------------------|
| 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

NOTES

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-------------------------|
| REGION | Southern | RIVER | Warblington Stream |
| SEASON | Spring | SITE | Warblington Church Path |
| SORTER | W3 | SAMPLE CODE | NRA05 4100 |

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 Curculionidae | 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

NOTES 1 Terrestrial species

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|--------------|
| REGION | Southern | RIVER | Chess Stream |
| SEASON | Spring | SITE | Chess Bridge |
| SORTER | W4 | SAMPLE CODE | NRA05 3013 |

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 |

| | | | |
|---|--|---|--|
| 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 Planariidae 2 Physidae 3 Sphaeriidae 4 Platycnemididae 5 Hydrophilidae 6 Scirtidae 7 Elmidae 8 Leptoceridae |

NET LOSSES NET GAINS

- NOTES
- 1 Polycelis nigra/tenuis
 - 2 Physa fontinalis 1 only
 - 3 Pisidium sp.
 - 4 Platycnemis pennipes 1 only
 - 5 Helophorus brevivalpis 1 only
 - 6 Elodes sp. (larva) 1 only
 - 7 Adults + larvae Elmis, Limnius, Oulimnius
 - 8 Athripsodes aterrimus

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|---------------------------------------|-------------|---|
| REGION | <input type="text" value="Southern"/> | RIVER | <input type="text" value="Minstead Stream"/> |
| SEASON | <input type="text" value="Spring"/> | SITE | <input type="text" value="A272 Road Bridge"/> |
| SORTER | <input type="text" value="W9"/> | SAMPLE CODE | <input type="text" value="NRA05 3036"/> |

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 | 1 Taeniopterygidae 2 Leuctridae |

| | | | |
|---|--|---|---|
| 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) | 3 Leptophlebiidae 4 Dytiscidae 5 Sialidae 6 Rhyacophilidae |

NET LOSSES NET GAINS

- NOTES
- 1 Brachyptera risi 1 only
 - 2 Leuctra nigra 1 only
 - 3 Habrophlebia fusca 1 only
 - 4 Oreodytes sanmarkii (adult) 1 only
 - 5 Sialis lutaria 1 only
 - 6 Rhyacophila dorsalis 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|------------|
| REGION | Southern | RIVER | Test |
| SEASON | Spring | SITE | Witchurch |
| SORTER | W9 | SAMPLE CODE | NRA05 4133 |

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 Lepidostomatidae 2 Physidae* | 3 Dendrocoelidae 4 Valvatidae |

| | | | |
|---|--|---|----------------------------------|
| 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 Physidae* 6 Hydropsychidae |

NET LOSSES 1 NET GAINS 3

NOTES

3 Dendrocoelum lacteum
4 Valvata piscinalis
5 Physa fontinalis 1 only
6 Hydropsyche siltalai 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|---------------------------------------|-------------|---|
| REGION | <input type="text" value="Southern"/> | RIVER | <input type="text" value="Sarre Penn"/> |
| SEASON | <input type="text" value="Spring"/> | SITE | <input type="text" value="Chislet Park"/> |
| SORTER | <input type="text" value="E3"/> | SAMPLE CODE | <input type="text" value="NRA05 1110"/> |

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 Planorbidae | 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 Gammaridae |

NET LOSSES NET GAINS

NOTES

1 Terrestrial Gastropod
2 Gammarus pulex 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-------------|
| REGION | Southern | RIVER | Kent Rother |
| SEASON | Spring | SITE | Newenden |
| SORTER | E7 | SAMPLE CODE | NRA05 1121 |

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 Asellidae | 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

NOTES

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-----------------|
| REGION | Southern | RIVER | Stor |
| SEASON | Spring | SITE | Wickford Bridge |
| SORTER | W1 | SAMPLE CODE | NRA05 3047 |

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 | 1 Planorbidae |

| | | | |
|----------|--|---|----------------------------------|
| 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 Hydrophilidae |

NET LOSSES NET GAINS

NOTES

1 Gyraulus albus
2 Hydraena brittteni/riparia/rufipes 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

REGION Southern

RIVER Pagham Rife

SEASON Spring

SITE D/s Pagham STW

SORTER W7

SAMPLE CODE NRA05 3068

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 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 Haliplidae |

NET LOSSES 1

NET GAINS 1

NOTES Halipus fluviatilis (adult) 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|--------------------|
| REGION | Southern | RIVER | Sowley Stream West |
| SEASON | Spring | SITE | East End |
| SORTER | W7 | SAMPLE CODE | NRA05 4175 |

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 Caenidae | 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

NOTES

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|--------------|
| REGION | Southern | RIVER | Lukely Brook |
| SEASON | Spring | SITE | Carisbrook |
| SORTER | WB | SAMPLE CODE | NRA05 5277 |

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 Hydrobiidae* 2 Ancylidae* | |
| 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) | 3 Hydrobiidae* 4 Lymnaeidae 5 Physidae 6 Ancylidae* |

NET LOSSES NET GAINS

NOTES

4 Lymnaea peregra 1 only
5 Physa fontinalis 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|-------------------|
| REGION | Southern | | RIVER | Kird |
| SEASON | Spring | | SITE | U/s Pond Bay Mill |
| SORTER | W8 | | SAMPLE CODE | NRA05 3051 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|--|---|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p>1 Chrysomelidae</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p>None</p> |

| | | | |
|----------|--|--|--|
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p>(This box only completed when no vial supplied with sample)</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p>2 Hydrobiidae</p> |
|----------|--|--|--|

NET LOSSES NET GAINS

NOTES

1 Terrestrial species
 2 Potamopyrgus jenkinsi 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|----------------|
| REGION | Southern | RIVER | Hexden Ch Trib |
| SEASON | Spring | SITE | Cattsford |
| SORTER | E6 | SAMPLE CODE | NRA05 1137 |

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 Hydropilidae | 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 Leptoceridae |

NET LOSSES NET GAINS

NOTES

1 Osmylus fulvicephalus in vial
2 Athripsodes sp. 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|------------------|
| REGION | Southern | RIVER | Waldron Gill |
| SEASON | Summer | SITE | Brookside Bridge |
| SORTER | E1 | SAMPLE CODE | NRA05 2221 |

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 |

| | | | |
|----------|--|---|---|
| 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 Leuctridae 2 Beracidae 3 Leptoceridae |

NET LOSSES NET GAINS

NOTES

1 Leuctra fusca 1 only
2 Beracodes minutus
3 Athripsodes bilineatus 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|-----------------------|
| REGION | Southern | | RIVER | Lephams Bridge Stream |
| SEASON | Summer | | SITE | Rocks Lane |
| SORTER | E2 | | SAMPLE CODE | NRA05 2241 |

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 Chrysomelidae | 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 Ephemerae 3 Hydrometridae 4 Sericostomatidae |

NET LOSSES NET GAINS

NOTES

- 1 Terrestrial species
- 2 Ephemera sp. 1 only
- 3 Indet Hydrometrid nymph 1 only
- 4 Sericostoma personatum 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|------------------|
| REGION | Southern | RIVER | East Stour |
| SEASON | Summer | SITE | Sevington Bridge |
| SORTER | E3 | SAMPLE CODE | NRA05 1101 |

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 | 1 Leptophlebiidae 2 Tipulidae |

| | | | |
|----------|--|---|----------------------------------|
| 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) | 3 Erpobdellidae 4 Simuliidae |

NET LOSSES NET GAINS

NOTES

- 1 Habrophlebia fusca
- 2 Dicranota sp. 1 only
- 3 Indet Erpobdellid 1 only
- 4 Simulium aureum group 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|--------------------------|
| REGION | Southern | RIVER | Sissinghurst Stream |
| SEASON | Summer | SITE | Sissinghurst Castle Road |
| SORTER | E7 | SAMPLE CODE | NRA05 1071 |

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: 1) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE | 1 Planorbidae 2 Chrysomelidae 3 Curculionidae | None |

| | | | |
|----------|--|---|----------------------------------|
| B | <u>SAMPLE</u> | BMWP FAMILIES NOT FOUND BY IFE | ADDITIONAL FAMILIES FOUND BY IFE |
| | Differences between: 1) 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 Dryopidae |

NET LOSSES NET GAINS

NOTES

2,3 Terrestrial species
4 Dryops sp. (adult) 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|----------------------|
| REGION | Southern | | RIVER | Little Hawden Stream |
| SEASON | Summer | | SITE | Bid Bridge |
| SORTER | E4 | | SAMPLE CODE | NRA05 1040 |

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 Chironomidae* | 2 Baetidae |

| | | | |
|----------|--|---|--|
| 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) | 3 Dytiscidae 4 Sialidae 5 Limnephilidae 6 Chironomidae* |

NET LOSSES NET GAINS

NOTES

2 Baetis rhodani, Centroptilum luteolum
 3 Stictotarsus duodecimpustulatus (larva) 1 only
 4 Sialis lutaria
 5 Limnephilus lunatus 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|------------------|
| REGION | Southern | | RIVER | Eden Vale Stream |
| SEASON | Summer | | SITE | Blackberry Farm |
| SORTER | E6 | | SAMPLE CODE | NRA05 1038 |

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 Hydrobiidae | 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 Planorbidae 3 Baetidae 4 Naucoridae |

NET LOSSES

NET GAINS

NOTES

- 1 Empty shell in vial
- 2 Gyraulius albus 1 only
- 3 Cloeon dipterum 1 only
- 4 Ilyocoris cimicoides (nymph) 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|---------------------|
| REGION | Southern | RIVER | Brede Trib 70 |
| SEASON | Summer | SITE | D/s Powdermill Res. |
| SORTER | E8 | SAMPLE CODE | NRA05 1170 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|--|--|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p>BMWP FAMILIES NOT FOUND BY IFE</p> <p>1 Planorbidae 2 Curculionidae</p> | <p>ADDITIONAL FAMILIES FOUND BY IFE</p> <p>3 Corixidae</p> |

| | | | |
|----------|--|--|---|
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p>BMWP FAMILIES NOT FOUND BY IFE</p> <p>(This box only completed when no vial supplied with sample)</p> | <p>ADDITIONAL FAMILIES FOUND BY IFE</p> <p>4 Ancyliidae 5 Psychomyiidae</p> |
|----------|--|--|---|

NET LOSSES NET GAINS

NOTES

2 Terrestrial species
 4 Ancyclus fluviatilis 1 only
 5 Iype sp. 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|----------------|
| REGION | Southern | RIVER | Sussex Rother |
| SEASON | Summer | SITE | Trotton Bridge |
| SORTER | W3 | SAMPLE CODE | NRA05 3025 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|---|---|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center; font-size: 1.2em;">None</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center; font-size: 1.2em;">None</p> |

| | | | |
|----------|--|--|---|
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center; font-size: 1.2em;">(This box only completed when no vial supplied with sample)</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center; font-size: 1.2em;">None</p> |
|----------|--|--|---|

NET LOSSES

NET GAINS

NOTES

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|------------------|
| REGION | Southern | | RIVER | Blakes Gill |
| SEASON | Summer | | SITE | Scolliers Bridge |
| SORTER | W4 | | SAMPLE CODE | NRA05 3021 |

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 None | ADDITIONAL FAMILIES FOUND BY IFE None |
| B | <u>SAMPLE</u> Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE | BMWP FAMILIES NOT FOUND BY IFE (This box only completed when no vial supplied with sample) | ADDITIONAL FAMILIES FOUND BY IFE 1 Hydrobiidae 2 Sphaeriidae 3 Agriidae 4 Haliplidae 5 Hydroptilidae |

NET LOSSES NET GAINS

NOTES

1 Potamopyrgus jenkinsi
 2 Pisidium sp.
 3 Agrion virgo. (=Calopteryx virgo) 1 only
 4 Haliplus sp. (larva) 1 only
 5 Hydroptila sp.

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

REGION Southern

RIVER Caul Bourne

SEASON Summer

SITE Shalfleet

SORTER W2

SAMPLE CODE NRA05 5274

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 |

| | | | |
|----------|--|---|----------------------------------|
| 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

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|----------------|
| REGION | Southern | | RIVER | Loxwood Stream |
| SEASON | Summer | | SITE | Drungewick |
| SORTER | W9 | | SAMPLE CODE | NRA05 3055 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|--|--|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p>BMWP FAMILIES NOT FOUND BY IFE</p> <p>1 Gerridae 2 Chrysomelidae</p> | <p>ADDITIONAL FAMILIES FOUND BY IFE</p> <p>None</p> |
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p>BMWP FAMILIES NOT FOUND BY IFE</p> <p>(This box only completed when no vial supplied with sample)</p> | <p>ADDITIONAL FAMILIES FOUND BY IFE</p> <p>3 Planariidae</p> |

NET LOSSES NET GAINS

NOTES

1,2 Terrestrial species
 3 Dugesia tigrina 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|---------------------------------------|-------------|---|
| REGION | <input type="text" value="Southern"/> | RIVER | <input type="text" value="Broad Rife"/> |
| SEASON | <input type="text" value="Summer"/> | SITE | <input type="text" value="Ferry Sluice"/> |
| SORTER | <input type="text" value="WB"/> | SAMPLE CODE | <input type="text" value="NRA05 3065"/> |

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 |

| | | | |
|---|--|---|----------------------------------|
| 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 Haliplidae 2 Hydrophilidae |

NET LOSSES NET GAINS

NOTES

1 Halipus sp. (larva) 1 only
2 Laccobius bipunctatus (adult) 1 only

Sample also contained Phaedon amoraciae (Chrysomelidae) adult - not considered truly aquatic

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|----------------|
| REGION | Southern | | RIVER | Shawfords Lake |
| SEASON | Summer | | SITE | A3051 Bridge |
| SORTER | W1 | | SAMPLE CODE | NRA05 4218 |

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 Hydrophilidae | 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

NOTES

1 Megasternum obscurum (terrestrial species)

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

REGION Southern

RIVER Greenhill Leat

SEASON Summer

SITE Saddlers Mill

SORTER W7

SAMPLE CODE NRA05 4149

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 Elmidae | 2 Hydrobiidae |

| | | | |
|----------|--|---|----------------------------------|
| 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 1

NET GAINS 1

NOTES 2 Bithynia tentaculata

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|---------------|
| REGION | Southern | RIVER | Kird |
| SEASON | Summer | SITE | Harsfold Farm |
| SORTER | W11 | SAMPLE CODE | NRA05 3050 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|--|--|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: 1) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p>BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center;">None</p> | <p>ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center;">1 Tipulidae</p> |
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: 1) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p>BMWP FAMILIES NOT FOUND BY IFE</p> <p>(This box only completed when no vial supplied with sample)</p> | <p>ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center;">2 Elmidae 3 Limnephilidae</p> |

NET LOSSES NET GAINS

NOTES

1 Tipula sp. (Dolichopodidae and Tabanidae not present in vial)
 2 Oulimnius sp. (larva) 1 only
 3 Indet Limnephilid (pupa) 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|--------------------|
| REGION | Southern | RIVER | Bourne |
| SEASON | Autumn | SITE | Hurstbourne Priors |
| SORTER | W2 | SAMPLE CODE | NRA05 4147 |

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 | 1 Physidae 2 Lepidostomatidae |
| 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) | 3 Valvatidae 4 Lymnaeidae 5 Sericostomatidae |

NET LOSSES NET GAINS

NOTES

| |
|--|
| <ul style="list-style-type: none"> 1 Physa fontinalis 2 Lepidostoma hirtum 3 Valvata piscinalis 1 only 4 Lymnaea peregra 5 Sericostoma personatum |
|--|

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-------------|
| REGION | Southern | RIVER | Rodge Brook |
| SEASON | Autumn | SITE | Porchfield |
| SORTER | W8 | SAMPLE CODE | NRA05 5273 |

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 |
| 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

NOTES

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

REGION Southern

RIVER Broad Rife

SEASON Autumn

SITE Ferry Sluice

SORTER W1

SAMPLE CODE NRA05 3065

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 |

| | | | |
|--|---------------|---|----------------------------------|
| 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

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|------------|
| REGION | Southern | RIVER | Hook Lake |
| SEASON | Autumn | SITE | Hook |
| SORTER | W3 | SAMPLE CODE | NRA05 4116 |

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 |
| 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

NOTES

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

REGION **Southern**

RIVER **Hermitage Stream**

SEASON **Autumn**

SITE **Bedhampton Waterworks**

SORTER **w9**

SAMPLE CODE **NRA05 4103**

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 Hydrophilidae | 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 Hydroptilidae |

NET LOSSES

NET GAINS

NOTES **1 Indet terrestrial larva in vial
2 Agraylea multipunctata 1 only**

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|-------------|
| REGION | Southern | | RIVER | Monks Brook |
| SEASON | Autumn | | SITE | Swaythling |
| SORTER | W7 | | SAMPLE CODE | NRA05 4127 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|--|---|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center; font-weight: bold;">None</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center; font-weight: bold;">None</p> |
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center;">(This box only completed when no vial supplied with sample)</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center; font-weight: bold;">1 Hydroptilidae</p> |

NET LOSSES NET GAINS

NOTES 1 Agraylea sexmaculata 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|----------------|
| REGION | Southern | RIVER | Merston Stream |
| SEASON | Autumn | SITE | Blackwater |
| SORTER | W11 | SAMPLE CODE | NRA05 5278 |

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 Chrysomelidae | 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

NOTES

1 Indet terrestrial Chrysomelid

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|--------------------|
| REGION | Southern | RIVER | Kent Rother |
| SEASON | Autumn | SITE | Robertsbridge P.S. |
| SORTER | E3 | SAMPLE CODE | NRA05 1119 |

AQC OF BMWF FAMILIES A. IN VIAL + B. IN SAMPLE +

| | | LOSSES | GAINS |
|---|--|-------------------------------|----------------------------------|
| A | <u>VIAL</u> | BMW FAMILIES NOT FOUND BY IFE | ADDITIONAL FAMILIES FOUND BY IFE |
| | Differences between: i) BMWF families listed on sample data sheet and ii) BMWF families found in VIAL by IFE | 1 Tipulidae | None |

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

NET LOSSES 1 NET GAINS 0

NOTES

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|-------------|
| REGION | Southern | | RIVER | Kent Rother |
| SEASON | Autumn | | SITE | Newenden |
| SORTER | E1 | | SAMPLE CODE | NRA05 1121 |

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 |
| 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

NOTES

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-----------------|
| REGION | Southern | RIVER | Reading Sewer |
| SEASON | Autumn | SITE | Peening Quarter |
| SORTER | E6 | SAMPLE CODE | NRA05 1141 |

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

| | | LOSSES | GAINS |
|----------|--|--|--|
| A | <p style="text-align: center;"><u>VIAL</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center; font-weight: bold;">None</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center; font-weight: bold;">None</p> |
| B | <p style="text-align: center;"><u>SAMPLE</u></p> <p>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</p> | <p style="text-align: center;">BMWP FAMILIES NOT FOUND BY IFE</p> <p style="text-align: center;">(This box only completed when no vial supplied with sample)</p> | <p style="text-align: center;">ADDITIONAL FAMILIES FOUND BY IFE</p> <p style="text-align: center; font-weight: bold;">None</p> |

NET LOSSES NET GAINS

NOTES

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

REGION Southern

RIVER Barden Mill Stream

SEASON Autumn

SITE Bowens, Poundbridge

SORTER E7

SAMPLE CODE NRA05 1025

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 |
| 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

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | | |
|--------|----------|--|-------------|-----------------------|
| REGION | Southern | | RIVER | Shovelstrode Stream |
| SEASON | Autumn | | SITE | Butcherfield Cottages |
| SORTER | E2 | | SAMPLE CODE | NRA05 1016 |

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 |
| 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 Simuliidae |

NET LOSSES NET GAINS

NOTES 1 Simulium ornatum group 1 only

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | | | |
|--------|----------|-------------|-------------|
| REGION | Southern | RIVER | Ouse |
| SEASON | Autumn | SITE | Gold Bridge |
| SORTER | E4 | SAMPLE CODE | NRA05 2228 |

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 Hydrophilidae | 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

NOTES 1 Indet terrestrial adult in vial

1990 RIVER QUALITY SURVEY

AQC - BIOLOGICAL SAMPLES

| | |
|--|---|
| REGION Southern | RIVER Medway |
| SEASON Autumn | SITE Hartlake Bridge |
| SORTER EB | SAMPLE CODE NRA05 1010 |

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 None | ADDITIONAL FAMILIES FOUND BY IFE None |

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

NET LOSSES 0 NET GAINS 0

NOTES

