

Environmental Protection Internal Report

**REGIONAL WATER QUALITY
MONITORING AND SURVEILLANCE
PROGRAMME FOR 1992**

**BIOLOGICAL IMPACT ASSESSMENT OF
DISCHARGES ON RECEIVING WATERS**

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*National Rivers Authority
South West Region*

REGIONAL WATER QUALITY MONITORING AND SURVEILLANCE PROGRAMME FOR 1992

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INTERNAL REPORT FWS/92/008

SUMMARY

This report describes the routine biological discharge monitoring programme to be undertaken by NRA South West Region in 1992. This was a new programme in 1992.

The complete monitoring programme covers approximately 203 sewage treatment works with descriptive consents; 100 fish farms; 30 trade effluent discharges; and 5 storm sewage overflows. There are also a number of consented farm discharges in the programme, however the actual number is likely to change between now and next year (1993) owing to a revision of these consents following the first charges being levied on them; many of the consents may be redundant, or need substantial revision. A few consented farm discharges were monitored in 1992, which served to verify the difficulties of locating many of these discharges, but demonstrated the effectiveness of the newly developed methods that are to be used for monitoring them.

It is estimated that the programme will take 5 years to complete. Each discharge is to be visited once, and samples are to be taken upstream and downstream from the discharges. Each year, selected catchments will be targeted. A number of trade effluents that are of concern to the Quality Regulations Section are to be investigated in 1992 irrespective of their catchment.

The monitoring of consented farm discharges is to be concentrated in the Winter (January-February). Other discharges are to be monitored between March and November.

Consented farm discharges are to be monitored using a rapid field assessment technique developed recently by the Water Research Centre and NRA Welsh Region, and tested and modified in the South West Region in 1991. The other discharges are to be monitored using the standard NRA biological river quality monitoring methods using invertebrates.

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June 1992



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1. INTRODUCTION TO THE 1992 ROUTINE DISCHARGE MONITORING PROGRAMME

This report describes NRA South West Region's routine biological discharge monitoring programme for 1992. This programme was initiated in Autumn 1991. 1992 was to be the first year that it was undertaken.

1.1 Scope of the routine biological discharge monitoring programme

This monitoring programme is not aimed at all discharges, but at selected types:

- ♦ Sewage Treatment Works (STWs) with descriptive consents. Descriptive consents do not specify limiting concentrations or loadings of chemical determinands that the discharge should comply with, but state that the discharge should have no detrimental effect on the water or ecological quality of the receiving water. The consents of STWs that are found to have a detrimental impact on the receiving water will be reviewed; they will be issued with numerical consents that specifying concentrations or loadings of a number of chemical determinands with which the discharge must comply.
- ♦ Fish farm discharges. Consents for fish farms have only recently been issued. Their effects on the rivers in the South West Region have never been comprehensively assessed.
- ♦ Trade effluent discharges. A selected number of trade effluent discharges have been included in the programme, and are to be surveyed as a matter of urgency in 1992. This includes a number of discharges from agricultural processors, china-clay works, and a small number of discharges which, whilst complying with their numerical consents, are suspected of having a detrimental effect on their receiving waters.
- ♦ Consented farm discharges. Although there is a move to reduce the number of consented farm discharges, the current practice being to attempt to contain the wastes on the farm, a considerable number of consents for discharges to watercourses still exist.

This monitoring programme complements a similar, but more extensive chemical monitoring programme. There is a separate biological monitoring programme for STWs in South West Water Services' capital improvement programme, which is to be undertaken by the Freshwater Investigations Team.

1.2 Aim of the routine biological discharge monitoring programme

The aim of the routine biological discharge monitoring programme is to monitor the ecological impacts of selected types of discharges in the South West Region on their receiving waters. It is to provide information to enable the effectiveness of existing consents in protecting water quality to be assessed, and to identify discharges where the consent conditions may need revision.

1.3 Objectives

- To provide an economical means of screening the impact of discharges not monitored in other discharge monitoring programmes.
- To complement a chemical monitoring programme of selected discharges to identify:
 - those that have a substantial impact on their receiving waters and which may be breaking their consent conditions
 - those that are not exceeding their consent conditions, but have an adverse impact on river quality, and which may require a review of their consent
 - Sewage works which should be added to the capital improvement scheme
- To provide evidence of consent exceedence for:
 - legal proceedings
 - identifying where special investigations may be required
- To provide baseline data against which the effectiveness of improvements or remedial measures can be assessed.
- To provide an overview of the effect of certain categories of discharge on the water and ecological quality of rivers in the South West Region.

2. DESCRIPTION OF THE PROGRAMME

2.1 Site location and survey design

It is estimated that it will take about 5 years to survey every discharge in the programme once, with the staff resources currently allocated to this programme (one full-time equivalent). The first survey is likely to take considerably longer than subsequent surveys, because the precise location of many of the discharges, suitable sites from which to monitor their effects, and the arrangements for access to them will have to be determined and recorded. Many of the discharges have already been located by the chemical monitoring teams. The number of consented farm discharges is likely to be revised substantially, and will be less than the estimate made in late 1991.

The programme is purposefully open-ended to allow flexibility, however the progress of the programme is to be reviewed at the end of Autumn 1992, to assess whether the programme can be completed in 5 years. The effectiveness of the methods will be evaluated at the end of the year, as will the reporting procedures.

Consented farm discharges will be monitored in Winter (January-March). This is the time of year when farm discharges are usually of greatest concern, because many are influenced rainfall. The methods that are to be used to assess the impact of these discharges have been developed specifically for use during the Winter (December-March). Similar biological methods for investigating the impact of farm waste are being developed for other times of the year. Other routine biological monitoring undertaken by the Region, including routine river quality monitoring, does not take place during the Winter because the greater flows make access to larger streams difficult, and because RIVPACS is not optimised for Winter.

The impact of other discharges will be monitored between March and November. This is the period when routine biological monitoring of rivers occurs, and the RIVPACS model is able to provide predictions of the faunas that should be expected at biological monitoring sites if their environmental conditions were good.

2.2 Survey methods

2.2.1 STWs, fish farms and trade effluent discharges

Macro-invertebrates will be sampled at sites upstream and downstream from the discharges. The downstream sites must be taken beyond the mixing zone. Standard NRA sampling protocols for routine river monitoring will be used (3 minute kick plus 1 minute search with a pond-net, or in deep water, three to five throws of a medium Naturalists' dredge). Standard NRA sample processing methods will also be used. The standard NRA sampling method is used so that the results are sufficiently robust to be used as evidence in prosecutions.

Site details including stream width, depth, and substrate characteristics, are recorded with every macro-invertebrate sample. This is to enable RIVPACS to be used to predict the nature of the invertebrate fauna that would be expected if the site was un-impacted, and for the data to be analyzed using the standard NRA methods.

Invertebrates will be identified to family, and their abundances estimated.

The field survey methods have been described in more detail in Furse et al. (1986), and in a training video (National Rivers Authority, 1990).

The presence and cover of ochre and sewage fungus will be recorded, as will the presence of blanket weed Cladophora and other visual indicators of detrimental impacts.

The sample from the downstream site will be processed first. If that sample indicates good biological quality, the discharge will be considered to have no significant detrimental impact on the biological quality of the receiving water, provided that sewage fungus, algal and macrophyte growth are also unaffected. In these cases, the sample taken upstream from the discharge will not need to be processed.

2.2.2 Farm discharges

Macro-invertebrates will be sampled from riffles using a standard 1 mm mesh long-handled pond net. The method cannot be used on depositing substrates or pools. A one minute kick is sufficient (as opposed to three minutes for samples taken for monitoring other types of discharge described in Section 2.2.1, and for RIVPACS evaluation). No search for organisms attached to rocks, in vegetation or under roots is required.

Although the assessment of pollution category is to be made in the field, samples should be returned to the laboratory for storage. Some of these samples may be used for further development of the methodology. Samples should be fixed in formaldehyde, and stored in alcohol, in the same manner as routine biological river monitoring samples in 1990 and 1991.

The cover of sewage fungus at each site will be estimated by observing the cover on at least 5 large stones. Sometimes it may be necessary to bring a sample back to the laboratory to confirm that it is sewage fungus and not silt or a bloom of epilithic diatoms. On pale coloured substrates it will be necessary to bring the stones back to the laboratory to determine the cover.

Substrate type, width and depth will be recorded to provide some background information for use in evaluating the data, as well as an aide memoire. Information on substrate composition is useful because the method is less reliable on depositing substrata.

Environmental measurements will be taken in the same way as for routine river samples. The substrate categories are the same as those on the field data sheet for routine river samples. Percentages of particulate substrate types should be estimated independently of bedrock, and should total 100%. A separate estimate of the cover of bedrock will be based on its percentage cover in the riffle sampled.

A rough sketch, rather than a corridor type map as drawn at routine river sites will be drawn, and will indicate the location of potential sources of pollution. The direction of flow will also be indicated.

Brief field comments will be written for each sample. Without field observations, it is difficult to evaluate the biological data. Field observations are as important as the data from the biological (or chemical) samples themselves.

2.3 Data analysis and reporting

The biological data, and the environmental data to support RIVPACS from the programme monitoring the impacts of STWs, fish farms and trade effluent discharges will be entered into the Regions' biological database.

The severity of any detrimental impacts from STWs, fish farms or trade effluents will be determined by comparisons of upstream and downstream sites, and will be expressed as taxonomic deficits, and deficits in commonly used biotic indices such as BMWP-score and ASPT. Where feasible, the absolute impact of the discharge may be placed on a universal scale using EQIs.

The impact of farm discharges will be assessed using indicator keys which categorise the severity of farm pollution. Both a key devised for Devon streams, which was based on field surveys in 1991, and a Welsh key will be used. The path through both keys will be indicated. The evaluation will be undertaken in the field, and confirmed after the laboratory analysis of sewage fungus.

The evaluation of impact will be determined by the field biologists. Discharges that have a detrimental impact will be reported to the Freshwater Officer within one week of the impact being identified. Appropriate action will then be taken, including the dissemination of this information to pollution control staff.

A formal report of the results of the survey will be produced at the end of the year.

3 PROGRAMME INFORMATION

3.1 The Catchments given priority in 1992

The following catchments are to be targeted in 1992, in the following order of priority:

- | | |
|-------------|-----------|
| 1. Torridge | 6. Lynher |
| 2. Taw | 7. Plym |
| 3. Otter | 8. Camel |
| 4. Tamar | 9. Erme |
| 5. Tavy | 10. Exe. |

3.2 STWs with descriptive consents, fish farms and trade discharges

The discharges to be included in the programme are listed in Table 3.1. This list is provisional. The precise location of the sampling sites will be determined by the biologists following consultation with chemical sampling staff and a site reconnaissance. Storm sewage overflows will be considered as a part of the discharge from a STW. All the discharges from a STW should be monitored by single sites upstream and downstream from the works. The nature of some discharges in the programme is not known. They will be retained in the programme only if they are STW or fish farm discharges.

Table 3.1 Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

ROUTINE BIOLOGICAL MONITORING OF DISCHARGES 1992 - VERSION 3

Discharge	U.R.N.	N.G.R.	Date	Field	ED	SS	AM	VEL	% SPT	ADDITIONAL CONDITIONS
* STW UPLINE STW	W61780ZFE	ST 3340 9340								
FF HARVEST FARM, UPLINE, FISH FARM	POLA/P/1	SY 3180 9470		TDYP	DES					
STW SALOME REGIS STW	02A	SY 1475 8860		SMA 416						
FF WILMINGTON TROUT FARM, HAYNE LANE, WILMINGTON	PO2B/P/1	ST 2130 0050								
FF JELSHANE MILL FARM, SHUTE, ANWISSEIR FISH FM	PO2B/P/30	ST 2460 9630								
* STW OFFWELL STW	02B	SY 1925 9890		SMA 653						
FF HARBROOK FARM, CHARD, FISH FM	PO2C/P/1	ST 2920 0850								
TE DAIRY CREST CHARD CREAMERY, CHARD JUNCTION	PO2C/P/14	ST 3380 0460	10/08/83	SMA 283	20	30	5	104		
FF ROCKWELL TROUT FARM, MEBURY, ANWISSEIR	PO2D/P/1	ST 2750 0220								[See FMT Investigation]
* STW MEBURY STW	02D	ST 2750 0203		SMA 409						
* STW STOCKLAND STW	02D	ST 2490 0408		SMA 654						
FF JESLOT AGRICULTURE, FISH FARM, OTTERY ST MARY	PO4B/P/1	SY 0820 9810								
TE EXPRESS DAIRY CO LTD HUNTON CREAMERY WASTES	PO4B/P/21	ST 1500 0060	17/03/81	IRA 1067	40	50		37.7		
STW HUNTON STW	04B	SY 0845 8820		SMA 525						
* STW HUNTON STW	04B	ST 2053 0767		SMA 659						
SSO ANWISSEIR SSD	05A	SX 9480 8800		IRA-84-1222						
?? SHILLINGFORD ST GEORGE	05A	SX 9075 8805		SMA 452						
STW SHILLINGFORD ABBOT STW	05A	SX 9135 8865		SMA 562						
STW EXETER (ARGYLE ROAD) STW	05A	SX 9225 9485		SMA 599						
FF UPRM FARM, FARMINGTON, AR EXETER, FISH FM	PO5B/P/1	SY 0210 9070								
STW ANWISSEIR STW	05B	ST 0358 9186		IRA-84-0201						
FF HOLLIS FISH FARM, SHELDON, HUNTON	PO5C/P/1	ST 1218 0793								
FF KODDIFORD MILL, KENTISEARE, FISH FM	PO5C/P/2	ST 0560 0840								
FF HODDY FISHERIES, KERSWELL, CILLOFTON	PO5C/P/4	SS 0770 0630								
FF KOLD HEAVILLE, FARM, EXETER, FISH FM	PO5C/P/5	SS 9570 0060								
FF PREPARED TROUT FARM, HEWOCK	PO5C/P/6	ST 1460 1180								
FF HADON PARK FISHERY, WILAND	PO5C	ST 0445 1040	26/12/91	IRA-84-2904						
TE ST REGIS (UK) LTD, HIGHER KINGS MILL, CILLOFTON	PO5C/P/33	ST 0310 0820	21/09/87	SMA 884	200	200		54.5		SAMPLING JUN 92. Inlet-outlet difference; HD < 2, SS < 3, AM < 0.15
TE ST REGIS (UK) LTD, SILVERTON MILL, HELE	PO5C/P/34	SS 9760 0110	11/01/91	IRA-84-2494	70	60	30	164		01/11/91 IRA-84-2840 100:60 54 cumac/hr
TE STONG WALLE & STONG WILAND, TIVERTON JUNCTION	PO5C/P/36	ST 0310 1150	22/11/79	SMA 116	100	100	20	13.6		25 AL, 10 phosphate
TE ST IVEL LID, SUTTON ROAD, HEWOCK	PO5C/P/37	ST 1400 1390	30/10/85	SMA 615	60	60		25		2 C
TE J BURBY & SONS - IVERN VALLEY MILL	PO5C/P/38	SS 9930 0250	23/03/72	IRA 1548/1547	DES					
TE ILLDOW PRUDER TIVERTON JUNCTION WILAND	PO5C/P/59	ST 0301 1141	03/08/90	IRA-84-1920	20	30		136		
* STW HARBROOK STW	05C	ST 0100 1260		IRA 2						
* STW KERSWELL STW	05C	ST 0782 0633		SMA 408						
* STW ASHILL STW	05C	ST 0860 1190		SMA 489						
STW ILLFORD STW	05C	ST 0695 0595		SMA 513						
* STW SHELDON STW	05C									
* STW STAMFORD FEVEREL STW	05C	ST 0350 1400		IRA20	DES					
?? HELE VILLAGE (WIGGINS TERACE)	05C	SS 9935 0235		SMA 543						
* STW HELE (WHITMANS) STW	05C	SS 9955 0205		SMA 550						

Table 3.1 cont. Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

ROUTINE BIOLOGICAL MONITORING OF DISCHARGES 1992 - VERSION 3

Upland	DISCHARGE	U.R.N.	N.G.R.	DISE	FOLIO	EOD	SS	AMM	VOL	% SPT	ADDITIONAL CONDITIONS
FF	BURN VALLEY TROUT FARM, BURNAGES, SILVERTON	P050/P/1	SS 9623 0691	14/08/84	SMAA 324	5	15	0.7	2000		SEE BURN VALLEY TROUT FARM
FF	BURNAGES, SILVERTON	P050/P/1		#							
STW	BUTENLEIGH STW	05D	SS 9740 0775		SMAA 487						
STW	BROCKLEIGH STW	05D	SS 9385 0730		SMAA 488						
STW	COMLEY BRIDGE STW	05D	SX 9507 9550		SMAA 507						
STW	CHERLEIGH STW	05D	SS 9160 0812		SMAA 519						
STW	COMBEY CROSS STW	05D	SS 9065 0505		SMAA 565						
FF	BELLROCK VALLEY, TROUT FARM	P05E/P/10	SS 8970 2020								
FF	GREAT WESTERN SALMON LTD, WEIR, SILVERTON	P05E/P/11	SS 9340 2470								
FF	DEE VALLEY FISHERY, EXETERIDE, SILVERTON	P05E/P/12	SS 9280 2470								
TE	ASHLEY TIP, TIVERTON	P05E/P/35	SS 9490 0950								
TE	JOHN HERRIDGE & CO LTD, TIVERTON	P05E/P/36	SS 9520 1280	11/12/79	SMAA 118	75	75	15	170		115 detergent, 0.5 methyl naphthalene, 0.5 total phenols
FF	RAINBOW VALLEY FISH FARM, OUTLET A, OAKFORD	P05E/P/61	SS 9290 2160	16/08/83	SMAA 284	3	10	0.3	940		
FF	RAINBOW VALLEY FISH FARM, OUTLET B	P05E/P/61B	SS 9290 2160								
FF	HIGHLEIGH MILL FISH FARM, HIGHLEIGH BRIDGE	P05E/P/61A	SS 9200 2290	16/08/83	SMAA 285	10	20	2.5	500		
TE	HUGHER KILN (MONKEY) 4 STES	JAS PROG									
TE	HUGHER KILN (BI-ANNUAL) 8 STES	JAS PROG									
STW	HANSHAM STW	05E	ST 0045 2035		SMAA 406						
STW	KONKORD STW	05E	SS 9113 2142		SMAA 412						
STW	WASHFIELD STW	05E	SS 9360 1530		SMAA 460						
STW	STODDLEIGH STW	05E	SS 9250 1900		SMAA 463						
STW	OLDWAY END STW	05E	SS 8698 2504		SMAA 464						
STW	MOREBICH STW	05F	SS 9535 2477		SMAA 411						
STW	SHILLINGFORD STW	05F	SS 9794 2378		SMAA 652						
FF	CASTLE HILL FISHERY, WOODHILL FLOREY, MINEHEAD	P05G/P/1	SS 9860 3340								
FF	MERTON FISH FARM, BROXTON REGIS	P05G/P/2	SS 9580 2940								
ST	MORLESBALL (RESERVOIR) SEPTIC TANK	05G	SS 9640 3100		SMAA 566						
??	MORLESBALL (FROGELL OR PARK)	05G	SS 9690 2850		SMAA 646						
??	MORLESBALL (DM)	05G	SS 9640 2940		SMAA 647						
STW	MORSFORD STW	05G	SS 9100 3470		SMAA 651						
STW	BROXTON REGIS STW	05G	SS 9553 3120		SMAA 715						
STW	BROXTON STW	05G	SS 9230 3323		SMAA 728						
ST	SILVERTON (RECREATION) SEPTIC TANK	05H	SS 9133 2764		SMAA 635						
FF	EAST LODGE, CREDY PARK, CREDITON	P05J/P/1	SS 8390 0120								
FF	EAST LODGE, CREDY PARK, CREDITON, OUTLET B	P05J/P/1	SS 8390 0120								
STW	FENWICK STW	05J	SS 8560 1163		SMAA 420						
STW	KIDALE (CREDITON) STW	05J	SS 7830 0160		SMAA 657						
TE	HERRIFIELD TIP TREATMENT UNIT, KINGSLEIGH	P06B/P/41	SX 8460 7630	26/08/81	SMAA 181	75	75	10	42		Sum Cr+O+NH4+2n < 2
TE	MAB BALL CLAY - S.D.24	P06B041	SX 8600 7270								
??	HROADWAY AVENUE KINGSLEIGH	06B	SX 8658 7323		NRV-SW-2535						

Table 3.1 cont. Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

ROUTINE BIOLOGICAL MONITORING OF DISCHARGES 1992 - VERSION 3

UNIT	DISCHARGE	U.R.N.	N.G.R.	DATE	FOLID	ED	SS	APM	VOL	% SET	ADDITIONAL CONDITIONS
??	LINDEN TERRACE NEWTON ABBOT	106B	SK 8541 7103								
STW	SOUTH KITCHEN STW	106B	SK 8100 7225								
FF	WATERGESS FM, KERSWELL SPRINGS, CHALEITCH, FISH FM	106C/P/1	SK 8813 8065	07/11/89	NPA-6A-116	5	15	1	120		
FF	THE MILL HOLES, CHRISTOW	106C/P/2	SK 8350 8500								
STW	HENCOCK (MARRHILL) STW	106C	SK 8480 8120		NPA-6A-0409						
STW	MURCHINSON STW	106C	SK 6880 8815		SWA 379						
STW	COCKERWELL STW	106C	SK 7655 9240		SWA 399						
STW	THROKLEIGH STW	106C	SK 6760 9055		SWA 450						
STW	SANDY PARK STW	106C	SK 7136 8932		SWA 454						
STW	DOODSCOMBELEIGH STW	106C	SK 8515 8697		SWA 494						
STW	TULEHAM STW	106C	SK 8520 8215		SWA 526						
STW	CHRISTOW (DEIGN TERRACE) STW	106C	SK 8390 8650		SWA 714						
STW	DEWSELINGTON STW	106C	SK 7379 9148		SWA 906						(Check, this may have been investigated by FWT)
STW	NORTH BOVEY STW	106D	SK 7452 8375		SWA 576						
STW	NEWTON STW	106D	SK 7580 8030		SWA 722						
* STW	MERTONWASTHEAD STW	106E/2A/2E	SK 7680 8490		10A3						
FF	RICHLANDS FISH FARM, BLUE POST, TOWNES	107A/P/1	SK 7355 6040	04/08/88	SWA 2062	5	20		2275/24Hr		NO MATERIAL HARMFUL TO FLORA OR FAUNA DOWNSTREAM OF THE OUTLET
FF	DART VALE TROUT FARM, TUCKENHAY MILL, TOWNES	107A/P/2	SK 8110 5440	14/09/90	NPA-6A-2075	DES					
STW	HARBORFORD STW	107A	SK 7910 5600		10A 377						
STW	ASHINGTON STW	107A	SK 8148 5636		NPA-6A-2871						
STW	ASHINGTON STW	107A	SK 8148 5636		NPA-6A-2871						
STW	ASHINGTON STW	107A	SK 8148 5636		NPA-6A-2871						
STW	KONCEGAR (HIGHER FERRY) STW	107A	SK 8820 5225		SWA 395						
STW	OUTTISHAM STW	107A	SK 8640 5510		SWA 397						
STW	HADWELL STW	107A	SK 7765 5345		SWA 447						
STW	OUTTISHAM (PAUL) STW	107A	SK 8675 5480		SWA 630						
FF	TORBRON FISH FM, TORBRON, TOWNES	107B/P/1	SK 8200 6600								
STW	LANDSVALE (MERRY CROSS) STW	107B	SK 7815 6550		SWA 375						
STW	FOUNDFORGE STW	107B	SK 7060 7228		SWA 381						
STW	ROCKERY STW	107B	SK 7433 6158		SWA 382						
STW	MURRAYS CROSS STW	107B	SK 7835 6335		SWA 387						
STW	LELSON STW	107B	SK 7123 7280		SWA 422						
STW	LANDSVALE (GULLARFORD) Farm STW	107B	SK 7750 6670		SWA 438						
STW	RYNKAUGH STW	107B	SK 7020 7385		SWA 575						
STW	BROUHPHINSTON STW	107B	SK 7981 6563		SWA 684						
* STW	WIDELLYBE (-IN-THE-HOOR)	107B	SK 7180 7660		NPA-6A-52	DES					
FF	VALLEY SPRINGS TROUT FM, SHERFORD, KINGSEBRIDGE	108A/P/1	SK 7920 4580								
STW	ST ANN'S CHAPEL STW	108A	SK 6655 4745		SWA 383						
STW	KERNKROUGH STW	108A	SK 7925 4115		SWA 445						
STW	EAST FORTKELFOUTH STW	108A	SK 7465 3890		SWA 449						
STW	SHERFORD STW	108A	SK 7780 4425		SWA 453						
??	EAST ALLINGTON (THE MOUNDS)	108A	SK 7610 4930		SWA 497						
STW	COMETON STW	108A	SK 7335 4625		SWA 498						
STW	HEESON STW	108A	SK 8132 4115		SWA 500						

Table 3.1 cont. Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

DISCHARGE	U.R.N.	N.G.R.	DATE	FOLIO	EDD	SS	AMM	VOL	% SW	ADDITIONAL CONDITIONS
STW KELLATION STW	108A	SK 8020 3095		SWAA 510						
FF THE MILL, GAWA BRIDGE, NEWHOUSE FM, FISH FM	108B/P/1	SK 7297 5365								
FF NEW HOUSE FM & FISHERY MORELEIGH, TOWNES	108B/P/2	SK 7400 5340								
FF JALESON FISH FARM LODDISWELL	108B/P/3	SK 7110 4980								
FF THE LEFT, NEW MILL LANE, LODDISWELL	108B/P/4	SK 7200 4790								
STW MOULSTON STW	108B	SK 7165 4155		SWAA 378						
STW NORTH HUSH STW	108B	SK 7113 5623		SWAA 380						
STW CALIFORNIA CROSS STW	108B	SK 7070 5305		SWAA 456						
STW MORELEIGH STW	108B	SK 7400 4860		SWAA 584						
FF MILL LEFT TROUT FARM ERMINGTON	109B/P/2	SK 6425 5323								
FF MILLBROOK TROUT FM WEAFOOT, ERMINGTON	109B/P/3	SK 6415 5311								
TE MIDDONS TEAVE LTD, IVARBRIDGE	109B/P/5	SK 6340 5660	08/11/90	NRA-SW-2322	50	50	68			
STW FILHAM STW	109B	SK 6502 5622		SWAA 2108						
SSO BERDON (WINSTON LANE) SSO	110A	SK 5550 5190		NRA-SW-1070						
SSO SPARWELL STW - SSO	110A	SK 5810 5742		NRA-SW-1536						
STW MOTHER STW	111A	SK 5552 6148		SWAA 699						
SSO COOME STW (INLET TO WEBS) - SSO	112A	SK 4300 5820		NRA-SW-1144						
STW MILDEN COME STW	112B	SK 4871 6550		SWAA 698						
FF HIGHER LUMBERN FISH FARM	112C/P/27	SK 4530 7430	#							SEE MILDENAO TROUT FARM
FF MILDENAO TROUT FARM, LUMBERN	112C/P/27	SK 4442 7490	17/10/88	SWAA 2130	19	30	2.7	800		(NO BACTERIOCIDES, MALACHITE GREEN OR OTHER IRRADIABLE CHEMICALS DOWN)
FF ROWEN FISH FARM TWISTOCK A OUTLET	112C/P/32	SK 4930 7570	07/03/79	SWAA 99	3		0.3	1138	80	
FF ROWEN FARM FISH FARM TWISTOCK B OUTLET & MISC	112C/P/33	SK 4930 7540	07/03/79	SWAA 100	3		0.3	4550	80	
STW MILL HILL STW	112C	SK 4536 7422		SWAA 613						
STW BERDOR STW	112C	SK 4820 8116		SWAA 717						
FF BENSLEIGH HATCHERY MILDEN ABBOT FISH FM	112E/P/32	SK 3932 7831	05/11/80	SWAA 150	3		0.3	1136/28H	80	
FF CRISBRIDGE FISH FARM, LAMERTON	112E/P/33	SK 4169 7537	11/05/88	SWAA 105	5		0.7	500/28H	60	
FF HIGHER WOODLEY FISH FARM	112E/P/33	SK 4169 7537	#							SEE CRISBRIDGE FISH FARM, LAMERTON
STW HILLSBORO STW	112E	SK 4175 7260		SWAA 569						
STW STENHAM DAMBELL STW	112E	SK 4060 7588		SWAA 602						
STW LATCHLEY STW	112E	SK 4083 7397		SWAA 603						
STW LAMERTON STW	112E	SK 3594 8243		SWAA 696						
TE AMBROSIA CREAMERY S T W - EFFLUENT	112F/P/7	SK 3970 8490	21/04/81	15/47/SV/P/7	45	85		34		NOTE: there is also a cooling water discharge - not in biological prog
STW BOURTON STW	112F	SK 5321 9025		SWAA 663						
STW LUDFORD STW	112F	SK 5086 8479		SWAA 695						
FF SOUTH REED FISHERIES, BONGLE CROSS, BRANTON CLOV	112G/P/1	SK 4970 9180								
STW BRANTON CLOVELLY STW	112G	SK 4648 9175		SWAA 581						
STW EAST KITCHEN STW	112G	SK 3821 8844		SWAA 685						
STW BROADACCOMBER STW	112G	SK 4136 8884		SWAA 706						

Table 3.1 cont. Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

ROUTINE BIOLOGICAL MONITORING OF DISCHARGES 1992 -- VERSION 3

Discharge	U.R.N.	N.G.R.	Date	Folio	BD	SS	PM	Vol	% Sat	Additional Comments
STW BUCKHURST STW	12H	SX 4460 9494		SAAA 396						
STW COLMAN CROSS STW	12H	SX 3965 8485		SAAA 421						
STW HADWELL (HOLWELL PARK) STW	12H	SS 4376 0001		SAAA 546						
STW ASHARDER (SOUTH) STW	12H	SX 3879 9519		SAAA 585						
STW BOSTON STW	12J	SS 3282 9230		SAAA 567						
STW CLAMTON STW	12K	SX 3534 9907		SAAA 708						
STW CHILSWORTH (NORTH) STW	12K	SS 3290 0642		SAAA 872						
STW CHILSWORTH (SOUTH) STW	12K	SS 3310 0584		SAAA 873						
STW WHITSTONE STW	12L	SX 2711 9786		NR-64-1691						Investigated by PMT
STW WHITSTONE STW	12L	SX 2711 9786		SAAA 596						Investigated by PMT
STW NORTH TRAVERTON (WELL FARM) STW	12L	SX 3147 9737		SAAA 660						
STW NORTH TRAVERTON (RACBIT HILL) S TW	12L	SX 3145 9763		SAAA 661						
STW WARESTON STW	12M	SX 2082 9060		SAAA 595						
STW WELLMERICE STW	12M	SX 3142 8733		SAAA 710						
STW BELCHERRY STW	12N	SX 2707 8630		SAAA 600						
TE DAIRY CREST CREAMERY, DUNSTON	PL2P/P/5	SX 1580 8690	15/10/87	3052/6/120	LEE					
STW BIRDFEEL STW	12Q	SX 2840 7460		SAAA 568						
STW BREAMT STW	12Q	SX 2192 8038		SAAA 610						
STW CONDS GREEN STW	12Q	SX 2913 7698		SAAA 693						
STW HERWOOD STW	12Q	SX 2673 7314		SAAA 874						
STW MERRIMET STW	12R	SX 2848 6224		SAAA 571						
STW MINDENS STW	13A	SX 2611 7060		SAAA 504						
STW CHOWNEST STW	13A	SX 2640 6920		SAAA 572						
FF RIVER VIEW FISH FARM, SANDLACE, LOCE	PL4B/P/2	SX 2490 5830	24/06/91	NR-64-2893	*			189	60	INLET-OUTLET DIFFERENCE: BD < 0.5, SS < 2, PM < 0.2
FF SEASONS TROUT FARM	PL4B/P/3	SX 2447 5816								
STW BREAMLAND STW	14B	SX 2510 5981		SAAA 444						
STW BREVEMOND STW	14C			15/48/173/P/1						
STW BREDNICK STW	14C	SX 2352 5734		SAAA 457						
STW LANDELOS HIGHWAY STW	15A	SX 1460 5420		SAAA 2306						
FF FOWEY SEA PRODUCTS LTD 42 GREEN LANE FOWEY FISH FARM	PL15B/P/1	SX 1170 5420								
FF LANLIVERY CARR, BROWLANDS, BODMIN, FISH FARM	PL5B/P/2	SX 0790 5870								
FF COLLIFORD 'B' (HOLDING FEN)	PL5B/P/18	SX 1800 7080	28/04/86	SAAA 713	5			0.7	10,000	60
FF COLLIFORD 'A' (MAIN)	PL5B/P/21	SX 1800 7080	28/04/86	SAAA 713	5			0.7	10,000	60
STW COMMONOR STW	15B	SX 2381 6820		SAAA 716						
STW CRANDHAM STW	15B	SX 1195 6897		SAAA 726						
STW POINT STW	15B	SX 1519 6759		SAAA 729						

Table 3.1 cont. Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

Urgent	DISCHARGE	U.R.N.	N.G.R.	DUE	FOLID	BOD	SS	AMM	VOL	† SBT	ADDITIONAL CONDITIONS
	FF JINUS MOOR FISH FARM	P16A/P/56	SX 0360 5670								
	STW CARRAN CLARITION STW	18A	SX 0014 4241		SWA 741						
	FF GLEN MILL, TRESILLIAN, TILFO	P19A/P/1	SW 8760 4730								
	FF GLEN MILL, TRESILLIAN, TILFO. OUTLET B	P19A/P/2	SW 8760 4730								
	STW GAEK (BOVIS) STW	19A	SW 7090 2652		SWA 725						
	STW IRME STW	19E	SW 7234 7334		SWA 762						
	FF LOWER BODRUCK FISH FARM	P20A/P/16	SW 6740 3140								
	FF DOLM FISH FARM	P20A/P/21	SW 7060 3370								
	FF SKEEWATER TROUT FARM	P21A/P/1	SW 4840 3780 28/01/88	SWA 1053		4	10	0.2	15545		NO BACTERIOCIDES IN RIVER DOWNSTREAM OF DISCHARGE
	FF SKEEWATER TROUT FARM	P21A/P/1	SW 4850 3770 28/01/88	SWA 1054		4	10	0.2	15910		NO BACTERIOCIDES IN RIVER DOWNSTREAM OF DISCHARGE
	FF LITTLE ROSEBERN, CLUAL, RENZACE	P21A/P/2	SW 4740 3200								
	STW TREDRICE STW	21A	SW 4531 2875		SWA 583						
	STW KROFT STW	21A	SW 4401 2872		SWA 702						
	STW POLDOGA STW	22A	SW 3820 2389		SWA 727						
	STW GREEN STW	22A	SW 3929 2325		SWA 732						
	STW INWILLIAN STW	22B	SW 6352 3251		SWA 745						
	FF BOWENE CROFT, TROON, CMOORE	P23A/P/4	SW 6740 3430								
	FF BLUE HILLS TROUT FARM, TREVILLAS COME	P23A/P/5	SW 7280 5150 11/08/86	SWA 747		5	30	1	64/hr		
	STW GATHORN CLARITION STW	23A	SW 5866 4157		SWA 721						
	FF TREVILLA CARRAN K. CRANDICK, NEWQUI	P24A/P/1	SW 8040 5980		SWA 711						
	STW MITCHELL STW	24A	SW 8590 5474								
	FF MELINGEY TROUT FARM, ST ISSEY, WARRIDGE	P25A/P/49	SW 9200 7140 18/08/83	SWA 288		5		0.7	189	60	
	FF LOWER TRENKLE FISH FARM, ST BRECK, WARRIDGE	P25A/P/3	SW 9860 7130 15/02/83	SWA 259		5		0.7	72	60	
	FF SLANESIDE FISH FARM	P25A/P/2	SX 0450 6780 18/05/83	SWA 269		5		0.7	372	60	
	FF LONG MEADOWS, LANUVET	P25A/P/1	SX 0392 6512 23/07/86	SWA 746		5	10	#	386	60	PH > 7 AMM < 0.4, PH < 7 AMM < 0.7
	FF MORNVALE (SPRING)	P25A/P/49	SX 1100 8600								
	FF MORNVALE (THE U/S DISCHARGE)	P25A/P/50	SX 1100 8600								
	FF MORNVALE (THE D/S DISCHARGE)	P25A/P/51	SX 1100 8600								
	STW CHELFORD STATION (COTTAGES) S TW	25B	SX 1039 8563		SWA 573						
	STW BELSLAND STW	25B	SX 0981 7300		SWA 731						
	STW BELSTONE STW	25D	SX 0868 8164		SWA 2111						
	FF WEST COUNTRY TROUT	P26A/P/16	SX 1220 9130 09/12/82	SWA 249		5		0.7	4546	60	
	FF TREVILLET MLL(ROCKY VALLEY) FISH FARM, TUNZCEL	P26A/P/19	SX 0720 8920 26/09/83	SWA 292		5		0.7	4546	60	
	SSD TRENKIN - SSD	26A	SX 0540 8650		SWA-6A-1620						
	STW TRESPARRETT STW	26A	SX 1468 9157		SWA 750						

Table 3.1 cont. Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

ROUTINE BIOLOGICAL MONITORING OF DISCHARGES 1992 - VERSION 3

UNIDENTIFIED	DISCHARGE	U.R.N.	N.G.R.	DATE	FOLIO	ED	SS	AMM	VOL	% SUI	ADDITIONAL COMMENTS
STW	CROSSDAW STW	Z7A	SS 207L 1491		SWAA 443						
STW	FRESHNICK CROSS STW	Z7A	SS 206A 9878		SWAA 592						
??	MOULLEY	Z7A	SS 253A 1643		SWAA 597						
STW	WOODFORD STW	Z7A	SS 2146 1344		SWAA 611						
STW	STEEB STW	Z7A	SS 2242 1078		SWAA 662						
STW	SEEP STW	Z7A	SS 2278 1466		SWAA 723						
STW	COOSEBURN STW	Z7A	SS 2272 1645		SWAA 724						
??	HARLAND (BANKSIDE)	Z8A	SS 2827 2241		SWAA 433						
STW	DAVE GREEN STW	Z8A	SS 3130 2333		SWAA 462						
??	HARLAND (NFT CUT)	Z8A	SS 2797 2360		SWAA 465						
??	HARLAND (ROSE DOWN)	Z8A	SS 2780 2450		SWAA 466						
??	HULSELEY (PARISH COUNCIL HOUSES)	Z8A	SS 4150 2143		SWAA 405						
ST	HULSELEY SEPTIC TANK	Z8A	SS 5060 2300		SWAA 469						
STW	MOULTON (OLD COUNCIL HOUSES) STW	Z8A	SS 4130 2360		SWAA 474						
??	TURNHILL HEAD (TOWER VIEW)	Z8A	SS 4143 1663		SWAA 479						
* STW	CLEVELANDS PARK	Z8A	SS 4835 2848		SWAA 481						
ST	CRAWFORD SEPTIC TANK	Z8A	SS 4905 2434		SWAA 520						
STW	WESTLEIGH STW	Z8A	SS 4688 2894		SWAA 539						
STW	MEANE GIFFORD STW	Z8A	SS 4720 2206		SWAA 542						
STW	HAINS CROSS STW	Z8A	SS 3884 2321		SWAA 686						
TE	MERTON/MEETH COMBINED	R29B009	SS 5500 1285								
TE	MERTON/MEETH COMBINED U/S GREENWOOD	R29B030	SS 5515 1290								
TE	MERTON/MEETH COMBINED D/S GREENWOOD	R29B031	SS 5510 1305								
TE	MELDON QUARRY, OBERMATION	R29B018	SK 5649 9294/01/04/91		NR-58R-2658		60		750		1/4/92 NR-58R-2661 60 SS, 0.03 Zn, 0.005 Cu, 0.2 Al, 4 Pb, 0.02 Cd, 0
TE	MERTON (MUTIS, BLANE & BEARE) U/S NDS	R29B015	SS 5030 1325								
TE	MERTON (MUTIS, BLANE & BEARE) NDS	R29B025	SS 5100 1270								
TE	MERTON (MUTIS, BLANE & BEARE) D/S NDS	R29B008	SS 5100 1235								
TE	MERTON (MUTIS, BLANE & BEARE) COLLET MOOR	R29B016	SS 5160 1180								
TE	MERTON (MUTIS, BLANE & BEARE) NDS	R29B026	SS 5265 1135								
TE	MEETH (ENGLISH CHINA CLAY) QUARRY U/S MEETH	R29B005	SS 5330 0840								
TE	MEETH (ENGLISH CHINA CLAY) QUARRY MEETH N1	R29B022	SS 5330 0840								
TE	MEETH (ENGLISH CHINA CLAY) QUARRY WOODLAND N2	R29B023	SS 5330 0840								
TE	MEETH (ENGLISH CHINA CLAY) QUARRY D/S N1	R29B011	SS 5315 0885								
TE	MEETH (ENGLISH CHINA CLAY) QUARRY STONKLEIGH N7	R29B027	SS 5310 0890								
TE	MEETH (ENGLISH CHINA CLAY) QUARRY D/S N7	R29B012	SS 5305 0950								
TE	MEETH (ENGLISH CHINA CLAY) QUARRY N3	R29B029	SS 5305 0906								
TE	MEETH (ENGLISH CHINA CLAY) QUARRY D/S N3	R29B013	SS 5260 1115								
TE	DEEP MOOR TIP, TORRINGTON EAST	R29B019	SS 5235 2082								
STW	ROBOROUGH STW	Z9B	SS 5750 1671		SWAA 415						
STW	KINGSBOTT STW	Z9B	SS 5400 1797		SWAA 508						
STW	LITTLE TORRINGTON STW	Z9B	SS 4943 1687		SWAA 514						
STW	MONKLEIGH STW	Z9B	SS 4582 2045		SWAA 517						
STW	MERTON STW	Z9B	SS 5216 1139		SWAA 523						
STW	PEBROCKSTONE STW	Z9B	SS 5140 1015		SWAA 531						
STW	BEAFORD STW	Z9B	SS 5536 1517		SWAA 564						

Table 3.1 cont. Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

ROUTINE BIOLOGICAL MONITORING OF DISCHARGES 1992 - VERSION 3

Urgent	DISCHARGE	U.R.N.	N.G.R.	DISE	FOUOD	BOD	SS	AMM	VOL	% SAT	ADDITIONAL CONDITIONS
	STW FEEDERS WARELAND STW	Z9B	SS 4775 1342		SWA 650						
	FF THE CHARLES HUNSFORD, HAJALWELLEN, NR HOLSBOROUGH FF	P29C/P/2	SS 4550 0110			5		0.7	4546/24hr	60	SEE MILL LEAT FARM, THORBURY
	FF MILL LEAT FARM, HOLSBOROUGH	P29C/P/3	SS 4050 0940	14/07/82	SWA 202						
	FF WADDON FISH FM, THORBURY, TORRIDGE, HOLSBOROUGH	P29C/P/3	SS 4050 0940	#							
	TE HOPPERLEIGH ABRIOTOUR AND CUTTLE MARKET A	P29C/P/10A	SS 5303 0474	08/02/74	DBA 1565	5	10		145/24hr		
	TE HOPPERLEIGH ABRIOTOUR AND CUTTLE MARKET B	P29C/P/10B	SS 5320 0501	"	"	"	"		"		
	STW THORBURY STW	Z9C	SS 4015 0808		SWA 436						
	STW SHEPPIASH STW	Z9C	SS 4835 0594		SWA 496						
	STW MILTON DWOREL (VENN GREEN) STW	Z9C	SS 3791 1112		SWA 512						
	STW BLACK TORRINGTON STW	Z9C	SS 4695 0600		SWA 536						
	STW WEST FULFORD STW	Z9C	SS 3556 1610		SWA 552						
	* STW NORTHLEW STW	Z9C	SS 5033 9890		SWA 590						
	77 SUTONBYE MILL	Z9C	SS 3464 1103		SWA 608						
	STW BULLWORTHY (COURT VIEW) STW	Z9C	SS 3950 1430		SWA 639						
	STW BRADFORD STW	Z9C	SS 4320 0620		SWA 641						
	STW EXCURE STW	Z9D	SS 6063 0200		SWA 403						
	STW JACOBSTONE STW	Z9D	SS 5920 0170		SWA 407						
	STW SMYRWOOD CHAPPEL STW	Z9D	SS 6250 0189		SWA 418						
	STW MONKINGHAMPTON STW	Z9D	SS 5826 0559		SWA 545						
	* STW ROLLY GRADE STW	Z9D	SS 5725 9818		SWA 589						
	FF BLANDWELL FISHERIES, MUDFORD	P30A/P/1	SS 5662 3570	24/04/84	SWA 316	5		0.7	7711/24hr		
	FF RIVERDON FISHERIES, RIVERDON, SANDHURDIE	P30A/P/2	SS 6372 2993								
	FF NEW FISHERIES, NEWLAND LAUNCEY	P30A/P/3	SS 6030 3060								
	* TE PLAINSTON MILL, BRANVILLE	P30A/P/6	SS 5670 3770								
	STW NOME (BRANVILLE) STW	P30A/P/25	SS 4850 3530								
	STW ASHFORD (MENDARSIDE) STW	30A	SS 4920 3838		SWA 515						
	* STW COOLEIGH STW	30A	SS 5323 3515		SWA 643						
	STW WEST LEIGH STW	30A	SS 5984 3395		SWA 490						
	STW WOOD DRYN										
	STW MEANE GIFFORD										
	STW BURINGTON STW	30B	SS 6350 1670		SWA 400						
	77 BURINGTON (BALLS CORNER)	30B	SS 6390 1625		SWA 401						
	STW BLESFORD (FOUR HAUS) STW	30B	SS 6822 0997		SWA 402						
	77 HOLLOWME (BRUNN CLOSE)	30B	SS 6287 1128		SWA 468						
	77 HUNBERLEIGH (PARRE CRIDE)	30B	SS 6024 2397		SWA 476						
	STW COBBEN STW	30B	SS 6220 2615		SWA 480						
	STW STONY CROSS STW	30B	SS 5143 2577		SWA 495						
	STW RIVERINGTON STW	30B	SS 5938 2315		SWA 534						
	STW VANSBORNE STW	30B	SS 5587 2363		SWA 541						
	STW ASHREDFORD STW	30B	SS 6207 1381		SWA 559						
	STW LONACOTT STW	30B	SS 5230 2723		SWA 561						
	STW HOLLOWME (MAIN) STW	30B	SS 6355 1115		SWA 591						
	STW HOLLOWME STW	30B	SS 6080 1380		SWA 632						
	STW ADVERSICOTT STW	30B	SS 5186 2504		SWA 649						

URGENT	DISCHARGE	U.R.N.	N.G.R.	DATE	FOLIO	BOD	SS	AMM	VOL	% SAT O	ADDITIONAL CONDITIONS
	TE EXPRESS DAIRY FOODS LTD NORTH TAWTON -- TREATED EFFLUENT STW COLDRIDGE STW	P30C/P/6 30C	SS 6550 0140 SS 7020 0684	21/04/81	DRA 1544 SMAA 656	15	25		45.45		0.25 anionic detergents NOTE: also a cooling water effluent here - no
	STW NEW BUILDINGS STW (CREDITON)	30D	SS 7940 0350		SMAA 394						
	STW SPREYTON STW	30D	SS 6982 9757		SMAA 441						
	STW NOMANSLAND STW	30D	SS 8412 1370		SMAA 633						
	STW DDAN ST MARY STW	30D	SS 7435 0400		SMAA 648						
	STW KNOXSTONE VILLAGE STW - SEPTIC TANK	30E	SS 8260 2314		SMAA 551						
	STW KNOXSTONE (EAST) STW	30E	SS 8355 2320		SMAA 553						
	FF EXMOOR TROUT NORTH MOLTON	P30F/P/1	SS 7430 2990								
	FF HEAD MILL TROUT FARM, UMBERLEIGH, N.DEVON	P30F/P/17	SS 6670 1810	16/01/89	SMAA 2267	3	30	0.3	1894	80	0.13 PHOSPHATE, SCREENED TO PREVENT ESCAPE OF FISH, M, C
	FF HEADMILL TROUT FARM, UMBERLEIGH	P30F/P/17A	SS 6667 1798	?							
	STW MOLLAND (EAST) STW	30F	SS 8060 2838		SMAA 410						
	?? MOLLAND (WEST COUNCIL HOUSES)	30F	SS 8040 2830		SMAA 482						
	?? KINGS NIMPTON (NORTH & WEST)	30F	SS 6793 1946		SMAA 491						
	?? KINGS NIMPTON (SOUTH)	30F	SS 6849 1898		SMAA 492						
	STW GEORGENIMPTON STW	30F	SS 7006 2284		SMAA 511						
	STW MESHAW STW	30F	SS 7573 1961		SMAA 528						
	STW ALSWEAR NO. 1 STW	30F	SS 7240 2210		SMAA 533						
	?? WEST ANSTLEY (YED MILL)	30F	SS 8415 2647		SMAA 563						
	STW WEST BUCKLAND STW	30G	SS 6766 4358		SMAA 2210						
	STW WEST BUCKLAND STW	30G	SS 6580 3110		SMAA 2210						
	ST BUCKLAND BREWER(TWITCHEN HILL) SEPTIC TANK	30G	SS 3950 1890		SMAA 459						
	STW BRAYFORD STW	30G	SS 6840 3440		SMAA 537						
	FF BULLDOG FISH FM, SNAPPER WEIR, COOULEIGH	P30H/P/1	SS 5840 3440								
	FF SOUTHWOOD FM, CHELFHAM, BARNSTAPLE FISH FARM	P30H/P/2	SS 6330 3650								
	FF RYE FARM, LONGCRE, BARNSTAPLE	P30H/P/3	SS 6176 3684	#							PREVIOUSLY BROCK'S MEADOW
	STW HIGHERAY STW	30H	SS 6910 3420		SMAA 467						
	?? KENTISBURY (RODFIELD)	30H	SS 6142 4267		SMAA 470						
	STW SHIRWELL STW	30H	SS 5902 3688		SMAA 473						
	STW BRITTON FLEMING WTW -SEWAGE DI SCHANGE FROM STW	30H	SS 6420 3869		SMAA 535						
	* STW STOKES RIVERS STW	30H	SS 6303 3533		SMAA 555						
	STW KENTISBURY (BREDWICK) STW	31A	SS 6440 4322		SMAA 393						
	STW CHALLACOMBE (BARTON GATE) STW	31A	SS 6890 4120		SMAA 638						
	?? BERRANBOR (BURWELL)	31A	SS 5587 4687		SMAA 644						
	?? BERRANBOR (WOOD PARK)	31A	SS 5575 4621		SMAA 645						
	FF LYX VALLEY TROUT FARM, WOOLHANGER LANE, BARRACOMBE	P32A/P/1	SS 7010 4538								
	FF LOWER CONLEY TROUT FARM, BARRACOMBE	P32A/P/2	SS 6390 4580								
	STW MARTINDE (WEST VIEW) STW	32A	SS 6635 4797		SMAA 547						

DEFINITIONS

Table 3.1 cont. Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

Table 3.1 cont. Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

The works listed below have been deleted from this version (Version 3) of the routine biological discharge monitoring programme, although they were included in previous versions of the programme (Version 2). They were deleted because their impact is being assessed by the Freshwater Investigation Team, most in their programme for priority rating STWs to be included in South West Water Services' capital improvement scheme.

urgent	DISCHARGE	U.R.N.	N.G.R.	DATE	FOLIO	BOD	SS	AMM	VOL	% SAT	ADDITIONAL CONDITIONS
*	STW WILMINGTON STW	02B	ST 2170 0010		NRA-GW-2877						
*	STW DANWOOD STW	02D	SY 2510 9980		SWWA 485						LISTED BY N MORRIS AS IN CATCHMENT 2B
	STW WILMINGTON STW	02B	ST 2175 0014		NRA-GW-2877						
	STW GITTISHAM STW	04B	SY 1342 9887		NRA-GW-0408						
91	STW WHITESTONE STW	05A	SX 8701 9364		NRA-GW-0416						
	STW CHURCHINGFORD STW	04B	ST 2225 1255		SWWA 484						
	STW PLUMTREE STW	05B	ST 0491 0279		NRA-GW-2874						
	STW PLUMTREE STW	05B	ST 0452 0269		NRA-GW-2874						
*	STW DUNKESWELL STW	05C	ST 1485 0817		SWWA 516						
	STW CHURCHSTANTON STW	05C	ST 1923 1315		SWWA 527						
	STW SHORROCKE STW	05J	SS 8710 0118		NRA-GW-2875						
	STW OREDDON STW	05K	SX 8475 9921		NRA-GW-2579						
	STW SHORROCKE STW	05J	SS 8710 0118		NRA-GW-2875						
	STW PLUMTREE STW	05B	ST 0491 0279		NRA-GW-2874						
	STW TEIGN VILLAGE STW	06C	SX 8480 8118		NRA-GW-2876						
	STW TEIGN VILLAGE STW	06C	SX 8481 8118		NRA-GW-2876						
	STW HARBERTON STW	07A	SX 7772 5832		NRA-GW-2873						
	STW RINGMORE STW	08A	SX 6466 4580		NRA-GW-0413						
	STW HARBERTON STW	07A	SX 7772 5830		NRA-GW-2873						
	STW CHURCHSTW STW	08A	SX 7162 4502		NRA-GW-2872						
	STW EAST FRABLE STW	08A	SX 7835 5640		SWWA 448						
	STW BLACKWATER STW	08A	SX 8050 5040		SWWA 1138						
	STW BROWNSTON STW	09A	SX 6968 5280		SWWA 389						
	STW TEIGN VILLAGE STW	06C	SX 8480 8118		NRA-GW-2876						
	STW LUTTON STW	10B	SX 5984 5918		NRA-GW-0410						
	STW LEE MOOR STW	11A	SX 5728 6151		SWWA 692						
	STW DUNSTONE ND. 1 (UPPER) STW	10B	SX 5923 5152		SWWA 502						

Table 3.1 cont. Sewage treatment works discharges with descriptive consents, fish farms, and trade discharges to be covered in the routine biological discharge monitoring programme.

ROUTINE BIOLOGICAL MONITORING OF DISCHARGES 1992 - VERSION 3

URGENT	DISCHARGE	U.R.N.	N.G.R.	DATE	FOLIO	ED	SS	AM	VOL	SET	ADDITIONAL CONDITIONS
	STW WEDBELL STW	112B	SX 4720 6900		NRA-6A-0417						
??	MILTON ABBOT	112E	SX 4025 7919		SMAA 612						
	STW JUDGESTONE STW	112F	SX 5000 8926		NRA-6A-0405						
??	BRADWELL JUNCTION (SIMPERSLEIGH)	112H	SX 4458 9958		SMAA 483						
	STW HOLSACREY STW DERLITON ROAD HOLSACREY	112K	SS 3402 0322		NRA-6A-2570						
	STW BRIDGEBLE STW	112L	SS 2717 0236		NRA-6A-0406						
	STW ST MELLON STW	112B	SX 3909 6538		SMAA 694						
	STW NORTH FERREBON STW	112M	SX 2939 8782		NRA-6A-0419						
	STW NORTH HILL STW	112Q	SX 2700 7631		NRA-6A-0418						
	STW EAST TAPHOUSE STW	115B	SX 1841 6372		SMAA 730						
	STW ST DAE STW	118A	SX 9768 4550		SMAA 704						
	STW WINDLEDA STW	121A	SX 4972 3585		SMAA 429						
	STW MAINDESE CORNER STW	112M	SX 1816 9526		SMAA 593						
	STW DANSTONE NO. 2 (LOWER) STW	110B	SX 5914 5156		SMAA 503						
	STW FOUNDESTOCK STW	127A	SX 2058 9967		NRA-6A-0412						
??	WEEK ST MARY	127A	SX 2372 9805		SMAA 709						
	STW LANCILLS (GRIMSCOTT) STW	127A	SS 2598 0658		SMAA 876						
*	STW PARRAM STW	129A	SS 3935 2125		NRA-6A-0420						
	STW SHEEHAN STW	129C	SS 4372 0913		NRA-6A-0422						
	STW STUBB CROSS STW	129C	SS 4246 1462		SMAA 439						
	STW HOLSACREY BEACON STW	129C	SS 3515 0821		SMAA 566						
	STW SAMPFORD CURRANEY STW	129D	SS 6337 0116		NRA-6A-0421						
	STW WEST DAWN STW	130A	SX 5050 4230		NRA-6A-0423						
	STW MIDDLE PARKWOOD STW	130A	SS 5370 3765		SMAA 524						
	STW INNETT ROAD STW	130C	SS 7146 0817		SMAA 557						
	STW WEEK ST MARY STW	127A	SX 2369 9808		NRA-6A-2687						
	STW ZEAL MONACHULM STW	130D	SS 7526 0380		NRA-6A-2878						
	STW PARRADISE STW	131A	SS 6646 4499		NRA-6A-0411						
	STW BERRAVERER (MAIN) STW	131A	SS 5580 4665		SMAA 560						
	STW ZEAL MONACHULM STW	130D	SS 7526 0380		NRA-6A-2878						
	STW JUDGESTONE (SOUTH PARK) STW	127A	SX 2024 9582		SMAA 2082						

3.3 Consented farm discharges

The discharges listed in Table 3.2 are those identified in Autumn 1991. This list is liable to change considerably, following a review that is being undertaken this year.

Table 3.2 Consented farm discharges identified in Autumn 1991

Outlet NR	Receiving Water
ST 1960 9460	TRIB. OF RIVER OULY
ST 2580 9460	RIVER AVE
	RIVER VARY
ST 3660 0460	RIVER AVE
ST 4210 0310	TRIB. OF TEMPLE BROOK
ST 4160 0680	TRIB. OF RIVER AVE
ST 4010 0240	TEMPLE BROOK
ST 3430 0590	FORTON BROOK TO AVE
ST 3530 0710	FORTON BROOK
ST 3620 0570	RIVER AVE
ST 4170 0180	TRIB. OF TEMPLE BROOK
ST 4390 0770	TRIB. OF RIVER AVE
	UNNAMED TRIB. OF RIVER AVE
	UNNAMED TRIB. OF RIVER AVE
	THE KIT
	RIVER AVE
ST 3850 0550	RIVER AVE
ST 4300 0620	RIVER AVE
ST 4620 0420	RIVER AVE
ST 3890 0750	TRIB. OF RIVER DEVEY
ST 2750 9990	RIVER VARY
	UNNAMED TRIB. OF THE RIVER AVE
	CORRIES TREAM
ST 2390 0740	TRIB. OF RIVER VARY
ST 2330 0440	TRIB. OF RIVER VARY
	RIVER OTTER
	BALLEIGH BROOK
	YESTINGTON BROOK
ST 0880 9540	RIVER OTTER
ST 0890 9660	RIVER TALE
	UMBERNE STREAM
	TRIB. OF RIVER OTTER
ST 1800 0170	UNNAMED TRIB. OF RIVER OTTER
	UNNAMED STREAM
	VEAN OTTERY BROOK
	TRIB. OF THE RIVER OTTER
SK 0970 9370	RIVER OTTER
SK 0930 9240	RIVER OTTER
ST 0680 9950	UNNAMED TRIB. OF THE RIVER OTTER
SK 0930 9590	RIVER OTTER
	RIVER OTTER
	ALLER STREAM TO RIVER OTTER
SK 1030 9690	UNNAMED STREAM TO RIVER OTTER
SK 8780 8840	RIVER KEN
SK 9580 7470	ALHM BROOK - TRIB. OF RIVER EDE
	STREAM TO SEA

Consented dis
Site Address

HERSHAWE FARM FARWAY COLATON
 NINEFORD DAIRY COLATON
 TOLCIS FARM ANWINDSER DEVON
 FORDE GRACE FARM THIRNOME
 MINOR FARM BURSTOCK
 CLUNT FARM CLAPTON WEST CREMERE
 TEMPLE FARM BLACKDOWN BROMWINDSER
 HIGHTFIELD FARM CHARD
 STREET FARM WINDFARM
 BRIDGE FARM FORCE ABBEY
 HIGHER NEANHAM FARM BROMWINDS OR
 HENLEY MINOR FARM (SEARCHROUGH UNIT) CREMERE
 HOLDITCH FARM HOLDITCH SOUTH CHARD SOMERSET
 LONGER FARM FURTINGTON CHARD SOMERSET
 MELLOWAY FARM ALSTON ANWINDSER DEVON
 NERCH BLOTHAM FARM BROMWINDSER DEVON
 MULLIN FARM WINDFARM
 HILLSIDE FARM SEARCHROUGH
 NURCH DEBERFORD FARM BROMWINDSER
 MIDNELL FARM WINDFARM
 HIGHER WESTWATER FARM ANWINDSER
 MOUNT FLESHANT FARM STOCKLAND HUNTON DEVON
 RILL FARM STOCKLAND HUNTON DE VON
 LIVERHUES FARM YACOMBE
 HORSBONES SPANSHIELDING STOCKLAND
 STUBBS FARM NORTHPOSTON NR ST DOLPH DEVON
 RUIKES FARM EAST BALLEIGH BU DLEIGH SAULTON DEVON
 KORSLANE FARM YESTINGTON BALLEIGH SAULTON DEVON
 HIGHER THIRNE FARM OTTERY ST MARY
 PITT FARM FAIRVILLE OTTERY ST MARY DEVON
 HUGGESHAVES FARM UROTHERY HUNTON DEVON
 HOLWELLS FARM MOUNTON HUNTON DEVON
 HIGHER NORBODIE MOUNTON HUNTON DEVON
 HELLOME BARTON OTTERY ST MARY DEVON
 ELLOMITE FARM VENN OTTERY OTTE RY ST MARY DEVON
 WADSWES FARM WALSLOMME HUNTON DEVON
 LOWER WELSTON FARM WILGTON OTTERY ST MARY
 TUPTON ROLLER MILLS FARM TUPTON ST JOHS OTTERY ST MARY
 WENS FARM TALAMIN DEVON
 CHURY OTTERY ST MARY DEVON
 BOKESHAVES FARM UROTHERY HUNTON DEVON
 ARLINE FARM MOUNTON NR HUNTON DEVON
 ALLER FARM WALSLOMME HUNTON DEVON
 WOODFORD BARTON OTTERY ST MARY DEVON
 IDESTONE BARTON FARM BLANCHUED CK EXETER DEVON
 HURSTON FARM NADDENWATER EXETER (DEVON C SPANSHIELDING)
 LOWER HOLLOMME FARM HELLOME DWALISH

Table 3.2 cont Consented farm discharges identified in Autumn 1991

Consented dis Site Address	Outlet NCR	Receiving Water
05A DRA 1284 WHIDON FARM IIE	SX 8870 8950	TUB OF ALPHIN BROOK
05B DRA 1107 HEDON MILL FARM CLAUDDON CULL OXFORD DEVON	SY 0340 0150	RIVER CULST
05B FDA 1727 KILLEDON BROADCLIST EXETER DE VON		RIVER GRANNY
05B FDA 2282 WISHFORD FARM BROADCLIST EXETER DEVON	SY 0090 9570	THE GRANNY, TRIB. OF RIVER CULST
05B DRA 890 TILLHOUSE FARM BROADCLIST (1)		TUB OF RIVER CULST
05C DRA 1487 WOOD BAYTON FARM KENTISEBARE	ST 0560 0880	TUB. OF RIVER CULM
05C SAA 2491 BRUCHERY (THE) CROMLE KENTISEBARE	ST 0706 1023	FENOSA FORD, A TRIBUTARY OF THE RIVER C ULM
05C FDA 3045 WHITEHEAD FIELD BRANNUCH EXE TER DEVON		WEAVER RIVER
05C FDA 2969 WESTONME FARM CULMHEAD NR TRANTON SOMERSET		RIVER CULM
05C FDA 2679 CHYMERVADES FARM BRANNUCH DEVON	ST 0130 0430	TUB. OF RIVER CULM
05C FDA 2276 WENBOR FARM HEWOCK CULLOMPTON	ST 1360 1200	UNNAMED TRIB. OF RIVER CULM
05C FDA 2181 HEATLIE BAYTON FARM NR EXETER DEVON	SS 9540 0040	MILL LEAT, TRIB. OF RIVER CULM
05C FDA 1796 CATTLE YARD & SURROUNDING BULL DINGS AT VERDEER MANOR WILLAND		UNNAMED STREAM - MINOR TRIB OF RIVER CULM
05C FTA 1757 OWNER OCLIPPER		M
05C FDA 1645B INNER MARSH FARM CULST HEDON C CULLOMPTON DEVON		STOWFORD WEAVER
05C FDA 1536 LEINARD FARM CULLOMPTON DEVON		RIVER CULST
05C FDA 1406 BRUMERS CLAUDDON CULLOMPTON		NAME OF STREAM NOT KNOWN
05C DRA 323 NEWCLIFT BAYTON FARM CULLOMPTON N	SS 9980 0460	RIVER CULM
05C FDA 1367 NEWLAND CULLOMPTON DEVON		RIVER CULM
05D FDA 2984 WEST FARLEIGH FARM OQUELEIGH T IVERDON DEVON		UNNAMED STREAM TO RIVER EXE
05E DRA 955 CASTLE FARM HANISHAM	SS 9900 1810	TRIB. OF RIVER LOMMAN
05E SAA 294 FORD BAYTON FARM STODOLLEIGH TIVERTON DEVON	SS 9132 1822	PARROUSE WEAVER RIVER EXE
05E FDA 2695 CHERTONME FARM CHERTONME NR TIVERTON		TOWN LEAT - TO RIVER LOMMAN
05E FDA 1579 LOWER FARLEIGH FARM TIVERTON DEVON		SMALL STREAM OFF RIVER SAUNE
05E FDA 1266 ROADEN FARM SHEBBAR NR TIVERTON DEVON		UNNAMED STREAM
05G FDA 1261 ROCKS FARM EXFORD EXETER DEVON	SS 8740 3870	TUB OF LARCHME BROOK
05G FDA 2287 WETHCOMBE FARM WINSFORD MINEHEAD SOMERSET		RIVER WYNN
05G FDA 2798 COURT FARM EXFORD MINEHEAD SOM ERSET		RIVER EXE
05J FDA 1754 FORTON BAYTON CREDITON DEVON		RIVER TED
05J FDA 477 FENWELICK FARM BELMOT LOCE CO RWALL		UNNAMED TRIB OF ROLLEFORD RIVER
05J FDA 2890 LONG BARN CREDITON DEVON		RIVER CREEK
05J FDA 2333 YELLAND FARM CREDITON DEVON		UNNAMED STREAM INTO RIVER CREEK
05J FDA 2288 WOLLAND FARM CHERITON FITZPATRICK CREDITON DEVON		TUB. OF RIVER DRIFT, RIVER EXE
05J FDA 2140 HOME FARM NEMTON ST CURES NR E XETER DEVON		TUB OF RIVER CREEK
06B DRA 1135 OLGROD UNDERHIVES AND WELLS FARM IDEFORD	SX 8780 7710	TUB OF RIVER TEIGN
06B FDA 1888 NERRACOMBE FARM ILSINGTON NEMTON ABBOT DEVON	SX 7870 7670	UNNAMED TRIB. OF RIVER TEIGN
06C DRA 1104 WOODHAVES FARM LONGDON EXETER DEVON	SX 8440 9140	TUB OF RIVER TEIGN
06C DRA 1142 EASTERN HILL FARM DUNSFORD	SX 8480 8840	TUB OF RIVER TEIGN
06C DRA 774 NOGSLAND FARM DUNSFORD	SX 8370 8960	TUB OF RIVER TEIGN
06C DRA 1490 WETHCOMBE BAYTON FARM TULSHAM	SX 8460 8170	TUB. OF RIVER TEIGN
06D FDA 1773 LEFFACOTT FARM MORETONHAMSTEAD DEVON		TUB OF WILDON PARK STREAM

Table 3.2 cont Consented farm discharges identified in Autumn 1991

Contd Folio	Consented dis Site Address	Outlet NGR	Receiving Water
07A	07A 1235 HIGHER VEJESON FARM ASHERLTON	SK 8090 5630	HARBOURNE RIVER
07A	07A 2328 VALJEON FARM FAUNTON DEVON	SK 8640 5900	RIVER DART
07A	07A 2298 WOODLEY FARM DARTMOUTH DEVON		BLACKPOOL STREAM
07A	07A 884 GERSTON FARM TOINES DEVON	SK 7930 5920	TRUB OF RIVER DART
07A	07A 848 FARFIELD ASHERLTON	SK 7650 6830	TRUB OF RIVER HENS
07B	07B 1114 ARCHERON FARM RUSHERIDGE	SK 6400 7910	EAST DART RIVER
07B	07B 1432 FITLEY FARM ASHERLTON DEVON	SK 7670 7020	TRUB. OF RIVER ASHERLTON
07B	07B 1139 TIDMELL FARM LANSDOVE	SK 7720 6630	TRUB OF RIVER DART
08A	08A 1386 WOLLSTON FARM LODDISWELL	SK 7180 5030	TRUB OF RIVER AVON
08A	08A 2208 HIGHER FUGE STREDE NR DARTMOUTH DEVON	SK 8320 4820	TRUB. OF RIVER GARA
08A	08A 1587 LOWER HUTCHERLEIGH BLACKWATER TOINES DEVON	SK 7850 5040	4 INCH PIPE FROM SHEDDIN TO POND AND 4 I NCH PIPE F
08A	08A 2211 HIGHER HEATHFIELD EAST ALLINGTON TOINES DEVON	SK 7950 4760	TRUB. OF SLAPTON STREAM
08B	08B 1292 KERRY DOWNS FARM ACOMWICK	SK 7030 5880	RIVER AVON
08B	08B 344A 304 STANTON FARM LODDISWELL KINGSD RIDGE	SK 7059 5059	KWAPP MILL STREAM RIVER AVON
08B	08B 2955 WEEKS HEREBROOK FARM ACOMWICK S HENT DEVON	SK 7080 5870	TRUB. OF RIVER AVON
09A	09A 759 TREPELE FARM MOBBLEY	SK 6710 5120	TRUB OF RIVER EWE
09B	09B 1240 WHELENS FARM UGBROUGH IVYER IDEE DEVON	SK 6570 5540	TRUB OF RIVER EWE
09B	09B 512 HUTCHINSE LEE MILL IVYBRIDGE DEVON		UNNAMED STREAM INTO LEE MILL LEAT
12A	12A 15/47/15/P/22 TIREHAY FARM SALTASH	SK 4040 5790	TRUB. OF RIVER LAMHER
12A	12A 15/47/15/P/25 HOLE FARM SALTASH	SK 4170 6030	TRUB OF RIVER TAPAR
12E	12E 309 HAWLANDING LANCASTON CORNWALL		VALENCY
12E	12E 329 SOUTH TEBURWIN LANCASTON COR NWALL		UNNAMED TRUB OF RIVER INNEY
12E	12E 366 HILLSIDE TUBURLEY LEZANT LANCASTON CORNWALL		UNNAMED TRUB OF RIVER INNY
12E	12E 376 NEMION FARM LANCASTON CORNWALL L		UNNAMED
12E	12E 363 GLEBE FARM LEZANT LANCASTON C CORNWALL		UNNAMED STREAM
12H	12H 15 HOLE FARM ASHMOOR BEWORTH D EXON		RIVER CAREY
12H	12H 365 HOLE BRON BELOSERRY LANCASTON CORNWALL		OTHER
12J	12J 15/47/9/P/3 WEST BRON FARM ST GILES LANCASTON	SK 3460 9130	TRUB. OF RIVER TAPAR
12J	12J 110 HENNGOTT FARM BOXTON LANCASTON ON		TRUB OF RIVER TAPAR
12K	12K 1527 LANE BRON NEMION ST BEBROCK HOLSACREBY DEVON		OXFORD STREAM, DRAINING TO RIVER TORRIDGE
12K	12K 82 GLEBE FARM HOLLADOME HOLSACREBY DEVON		E
12K	12K 62 WATERCOO HOLSACREBY DEVON		RIVER CLAW
12K	12K 85 EAST YOLLEN GULLSACREBY HOLESW GRUY DEVON		TRUB OF THE RIVER DEER
12L	12L 60 LANA PANCASAEK HOLSACREBY DE VON		DEER
12M	12M 157 COLACOTT VOLMERIDGE LANCASTON ON CORNWALL		WEEK STONE RIVER
12M	12M 345 TIBERRY VILLA HAINBORGH NR CA MELFORD CORNWALL		TRUB OF RIVER OTHER
12M	12M 378 NEATHURCHES FARM ST STEPHENS L LANCASTON CORNWALL		TRUB OF RIVER TAPAR
			KENSEY

Table 3.2 cont Consented farm discharges identified in Autumn 1991

Ca/Ld Folio	Consented dis Site Address	Outlet NCR	Receiving Water
12P	15/47/12/P/15 TRELAGASTA ST CLEHER	SK 1812 8628	TRIB. OF RIVER INNY
12P	15/47/12/P/9 TREMUDA HALL LEARNICK	SK 2655 8029	TRIB. OF RIVER INNY
12Q	15/47/14/P/17 THE GROVE FOLLA MILL CALLINGTON	SK 3590 6990	TRIB OF RIVER LINNER
12R	15/47/14/P/5 LEY FARM	SK 3880 6420	UNNAMED STREAM
14B	FDA 266 ST GIMBLE ST CLEER LISSEARD CD RWALL		MOOR FOND
14B	FDA 417 IRVING LITTLE TRESHAM LISSEARD CORNWALL		UNNAMED TRIB. OF SEASON RIVER
14C	FDA 475 NORTH MICHAELNICK PELANT LODGE CORNWALL		UNNAMED TRIB
15A	CRA 44 CASTLE FARM		UNNAMED TRIB FOWEY ESTUARY
15A	FDA 476 FENNELLY LODGE CORNWALL		UNNAMED TRIB OF HITTLE WOOD
15A	15/48/174/P/8 TREGANS (FARM BUILDINGS)		UNNAMED TRIB RIVER LERRON
15A	15/48/174/P/8 TREGANS ST WANDU	SK 1240 5790	TRIB. OF RIVER LERRON
15B	FDA 294 RESTORVEL FARM NO 2		RIVER FOWEY
18A	15/48/191/P/5 COTTIE FARM	SW 9960 5180	TRIB OF ST ALSTELL (WHITE) RIVER
19A	15/48/21/P/1 TRENANCE FARM MILLION	SW 6750 1845	UNNAMED STREAM TO MILLION COVE
19A	SWA 801 GARDENS NURSERY	SW 7830 3520	SONKWAY
19A	FDA 931 TOLVERNE BARTON PHILLICHA TRIL O CORNWALL		UNNAMED
19A	FDA 38 BODWENH FARM MERRIN SMITH FAL MOUTH CORNWALL		UNNAMED
19A	FDA 35 KESTLE BARTON MARWON HELSTON CORNWALL		HELFOED WOODS
19A	FDA 125 TRESRUSSON FARM MILLION HELST ON CORNWALL		UNNAMED
19A	FDA 119 CLAUER GREEN MILLION NR HELST ON CORNWALL		UNNAMED
19A	3052/4/88 CHURCHMAN FARM MILOR FALMOUTH CORNWALL	SW 8235 3521	MILOR CREEK
19B	FDA 829 TREMUDLE FARM CLEGGRE TRURO CORNWALL		UNNAMED
19B	FDA 932 NORTH DOWNS FARM ST CLEMENS T RURO CORNWALL		UNNAMED TRIB OF RIVER ALLEN
19B	FDA 938 MILLION KEA TRURO CORNWALL		KENWALL STREAM
19C	15/48/20/P/11 FENROSE FARM INDIAN CLEENS ST CELING CORNWALL	SW 9510 5880	TRIB. OF RIVER FAL
19C	FDA 995 TREBEIGH LADOCK TRURO CORNWALL		LADOCK RIVER
19C	FDA 981 FENWOLL FARM TRELOW		UNNAMED TRIB OF THE RIVER FAL
19D	15/48/21/P/2 TREWISTIAN VERN ST ERNE TRURO	SW 8510 5030	TRIB. OF TREWALIAS STREAM
19D	15/48/21/P/3 NANCARROW MARZAWOSE	SW 8010 5030	TRIB OF RIVER ALLEN
19D	FDA 958 TREMORVA FARM FOLBUS TRURO CORNWALL		UNNAMED
19D	FDA 940 FENWONADOCK LADOCK TRURO CORNWALL		LADOCK RIVER
21A	FDA 789 BOSLIGH VEOR NEARBRIDGE FENZAN CE CORNWALL		TRIB OF RIVER
21A	FDA 898 BOSWAKETH ST BLEZAN FENZAN C CORNWALL		UNNAMED
22A	FDA 788 MILLDALE FARM BASILICE FENZAN E CORNWALL		UNNAMED
22A	FDA 878 TREVEY FARM ZENNER ST IVES CORNWALL		ZENNER STREAM
24A	15/49/27/P/2 TREMANTON SUMMERLETT NEWQUAY	SW 8820 5725	TRIB. OF CRANTOCK RIVER
24A	FDA 945 6 TUREICE NEWLIN EAST CORNWALL		UNNAMED INTO GANDEL
25A	15/49/29/P/1 TREMANTON FARM FORT ISSAC CORNWALL	SK 0157 8058	TRIB. OF PORTGWERNE STREAM

Table 3.2 cont Consented farm discharges identified in Autumn 1991

CatId	Polio	Consented dis Site Address	Outlet NR	Receiving Water
25A	FDA 540	TREACOR FARM BRISTOW		TREACOR MILL LEAT
25A	FDA 798	ROSEBROW ST MOWER WATERBRIDGE CORNWALL		UNNAMED
25B	15/09/281/P/28	ROUHOOR FARM ADVENT CAMELFORD		TRIB. OF RIVER CAMEL
25B	FDA 314	ST LEANARDS CAMELFORD CORNWALL		TRIB TO CAMEL
25B	FDA 341	WOLLAND FARM FENTONVILLE ST BR BRAND BEHMIN CORNWALL		TRIB OF RIVER CAMEL
25B	FDA 803	LOWER AMBLE WATERBRIDGE CORNWALL I.		AMBLE RIVER
25B	FDA 273	HIGHER WOOLEY NR BEHMIN CORNWALL		NOT KNOWN
25B	FDA 275	HUSTON FARM BUREWAN		HUSTON STREAM
25D	CRA 1K	RELLAGREEM FARM LAMELLEN ESTADE ST TUDK. CONSTRUCTION OF A N E W OUTLET		UNNAMED STREAM
26A	SMA 1074	TRENTICLE CRACKINGTON HAVEN RD E CORNWALL	SK 1339 9510	SOMGWAY
27A	FDA 699	COLES THURTON KILHAMPTON BLUE CORNWALL		TRIB. OF RIVER TWAR
28A	DRA 491	WELSFORD FARM HURLAND	SS 2720 2190	TRIB OF LANE BROOK
28A	DRA 495	WELSFORD FARM HURLAND	SS 2720 2190	TRIB OF LANE BROOK
28A	DRA 528	WALLAND FARM BUCKS CROSS BRIDEY CRD DEVON	SS 3530 2260	RIVER YED (BIDEFORD)
29A	DRA 1084	LITTLE CORWOOD FARM BOUNDLAND B REAR BIDEFORD DEVON	SS 4110 2020	TRIB OF RIVER DINTZ
29A	DRA 628	HOADEN FARM BIDEFORD	SS 4430 2540	TRIB. OF RIVER TORRIDGE
29B	DRA 1085	SOUTHCOIT FARM FRIHELSTOCK TO BUNNINGTON DEVON	SS 4480 1660	TRIB OF LANGREEE LAKE
29B	DRA 1136	LOWER CULLEIGH FARM MCKELEGH FRIHELSTOCK BIDEFORD	SS 4520 1990	TRIB OF RIVER TORRIDGE
29B	DRA 1278	EAST STIBB FARM LANGREEE	SS 4270 1520	RIVER DINTZ
29C	DRA 693	LECOIT FARM SUTCOMBE	SS 3510 1150	TRIB. OF RIVER WALDON
29C	DRA 761	HENSODIT FARM BRANFORD	SS 4150 0870	RIVER WALDON
29C	DRA 745	BRAN FARM BRANFORD	SS 4140 0750	TRIB OF RIVER WALDON
29C	DRA 787	HIGHER KENNELAND FARM BRANDIS CORNER HOLSACROBY	SS 4120 0490	TRIB OF RIVER WALDON
29C	DRA 893	GARLANDS FARM HIGHAMPTON	SS 4860 0450	TRIB OF RIVER TORRIDGE
29C	DRA 899	HOLE FARM BEWORTHY DEVON	SK 4600 9850	RIVER LEM (TORRIDGE)
29C	DRA 920	STOCKLEIGH FARM HIGHAMPTON	SS 5100 0470	TRIB. OF RIVER LEM (TORRIDGE)
29C	DRA 967	VENUDIT FARM NEWTON ST FEIROCK	SS 4090 1310	RIVER TORRIDGE
29C	DRA 921	TOWN BRITON FARM HIGHAMPTON	SS 4890 0470	TRIB OF RIVER LEM (TORRIDGE)
29C	FDA 2648	BUTTERMOOR MILLION DIVEREL HOLS WORTHY DEVON		RIVER WALDON
29C	FDA 2490	BAULES FARM BRICHODIT BEWORTHY DEVON		UNNAMED TRIB. OF THE RIVER TORRIDGE
29C	FDA 1669	KINGSLEY COTTAGE BLACK TORRINGTON BEWORTHY DEVON	SS 4690 0580	VIA A SMALL STREAM TO THE RIVER TORRIDGE
29C	FDA 1554	LONG CROSS BLACK TORRINGTON BEWORTHY DEVON	SS 4660 0520	RIVER WALDON
29C	FDA 1181	THE MILL SUTCOMBE HOLSACROBY DEVON		TRIB. OF RIVER LEM (TORRIDGE)
29C	DRA 917	EAST LEWODIT FARM HIGHAMPTON	SS 4880 0340	TRIB. OF RIVER LEM (TORRIDGE)
29C	DRA 894	CORVIN FARM WOOLSEY BIDEFORD DEVON	SS 2900 1980	SECKINGTON WADER
29C	DRA 806	LASHROCK FARM BRANFORD	SS 4300 0560	TRIB OF RIVER TORRIDGE
29C	FDA 72	GENNIS FARM HOLSACROBY DEVON		TRIB OF RIVER TWAR
29C	FDA 2570	CHUTE FARM SHEEBAR BEWORTHY DEVON	SS 4130 1070	UNNAMED TRIB. OF RIVER TORRIDGE
29D	FDA 1283	SESSACOTT HILL FARM WEST HURO RD HOLSACROBY DEVON		RIVER TORRIDGE
30A	FDA 1418	PALLINS TEVENENT HARFORD LANOKEY BARNSTABLE DEVON		NOT KNOWN
30A	FDA 2165	HARFORD BRITON LANENEY NR BARNSTABLE DEVON		HARFORD STREAM

Table 3.2 cont Consented farm discharges identified in Autumn 1991

CatId Folio	Consented dis Site Address	Outlet NZR	Receiving Water
30B FPA 2529	BELLE VAE YARNSCOME BRNSTAPL E DEVN		TRIB OF RIVER TORRIDGE
30D DRA 1177	WESTWAY FARM WETHERIDGE	SS 8200 1350	RIVER DALCH
30D DRA 1191	CURRITON FARM BLACK DOG CREDIT ON	SS 7800 1080	RIVER DALCH
30E DRA 1146	WELJAMES FARM BUCKENFORD	SS 8150 1920	STURCOMBE RIVER
30E DRA 1221	HAUSE FARM EAST WOLINGTON	SS 7710 1200	LITTLE DART RIVER
30F DRA 1222	GREY WHITSTONE FARM MESHAW	SS 7750 1890	TRIB OF LITTLE SILVER STREAM
30F DRA 1244	LOWER BAILEY FARM BISHOPS NEMP TON SOUTH MOLTON DEVON	SS 7380 2300	COOKED OAK STREAM
30F DRA 1373	CWASEY MEEDIE FARM SOUTH MOLTO N	SS 6770 2270	RIVER MOLE
30F DRA 1274	ALLER FARM BISHOPS NEMPTON SOUTH MOLTON DEVON	SS 7620 2560	TRIB OF RIVER YED (MOLLAND)
30F FPA 1360	NEDERN WOODBURN EAST ANSEY N R TIVERTON DEVON		SONGWAY
30F DRA 1245	PARK FARM BISHOPS NEMPTON	SS 7500 2330	COOKED OAK STREAM
30G DRA 1505	NORTH ALLER FARM SOUTH MOLTON	SS 6960 2820	RIVER BRAY
30G DRA 325	KODSLADE FULLEIGH	SS 6759 2880	TRIB OF RIVER BRAY
30G FPA 3026	WEPOLANDS SOUTH MOLTON DEVON	SS 7080 2940	TRIB OF MADRID WATER
30G DRA 1555	BRNSTAPLE LODGE FULLEIGH	SS 6610 2860	TRIB. OF RIVER BRAY

4 EXPLANATION OF SCHEDULE

4.1 Table 3.1

Definition of columns

URGENT	=	Discharges requiring urgent investigation (in 1992)- these are marked by an asterisk. FF = fish farm discharge STW = Sewage Treatment Works discharge ST = Sewage Treatment discharge (may be the same as STW) SSO = Storm Sewage Overflow ?? = type of discharge unknown
DISCHARGE	=	Name and location of discharge
URN	=	User Reference Number, NRA identifying code for the discharge. The first pair of numerals relate to the catchment, the letter following these numerals relates to the sub-catchment.
NGR	=	Ordnance Survey National Grid Reference of the discharge
FOLIO	=	file number for the consent to discharge
BOD	=	numerical consent conditions: biochemical oxygen demand
SS	=	numerical consent conditions: suspended solids
AMM	=	numerical consent conditions: ammonia
VOL	=	numerical consent conditions: volume of discharge
% SAT O	=	numerical consent conditions: percentage saturation of oxygen

4.2 Table 3.2

Definition of columns

Cat Id	=	Catchment number
Folio	=	file number for the consent to discharge
Outlet NGR	=	Ordnance Survey National Grid Reference of the discharge

5 REFERENCES

Furse, M.T., Wright, J.F., Armitage, P.D. and Moss, D. (1986) A practical manual for the classification and prediction of macro-invertebrate communities in running water in Great Britain. Preliminary version. Wareham: Freshwater Biological Association.

National Rivers Authority (1990) RIVPACS field sampling. Video recording. Birmingham: Spectrum Communications.