

**ENVIRONMENTAL PROTECTION**



**NRA**

*National Rivers Authority  
South West Region*

**River Tamar Catchment  
River Water Quality  
Classification 1990**

**NOVEMBER 1991  
WQP/91/013  
B L MILFORD**

**GORDON H BIELBY BSc  
Regional General Manager**

**C V M Davies  
Environmental Protection  
Manager**

## ACKNOWLEDGEMENTS

The Water Quality Planner acknowledges the substantial contributions made by the following staff:

- R. Broome - Co-ordinator and Editor
- A. Burrows - Production of Maps and editorial support
- P. Grigorey - Production of Maps and editorial support
- B. Steele - Production of Forepage
- C. McCarthy - Administration and report compilation

Special thanks are extended to A. Burghes of Moonsoft, Exeter for computer support and the production of statistical schedules.

The following NRA sections also made valuable contributions:

Pollution Control  
Field Control and Wardens  
Water Resources

Thanks also to R. Hamilton and J. Murray-Bligh for their contributions.

---

Suggestions for improvements that could be incorporated in the production of the next Classification report would be welcomed.

---

Further enquiries regarding the content of these reports should be addressed to:

Freshwater Scientist,  
National Rivers Authority,  
Manley House,  
Kestrel Way,  
EXETER,  
Devon            EX2 7LQ

ENVIRONMENT AGENCY



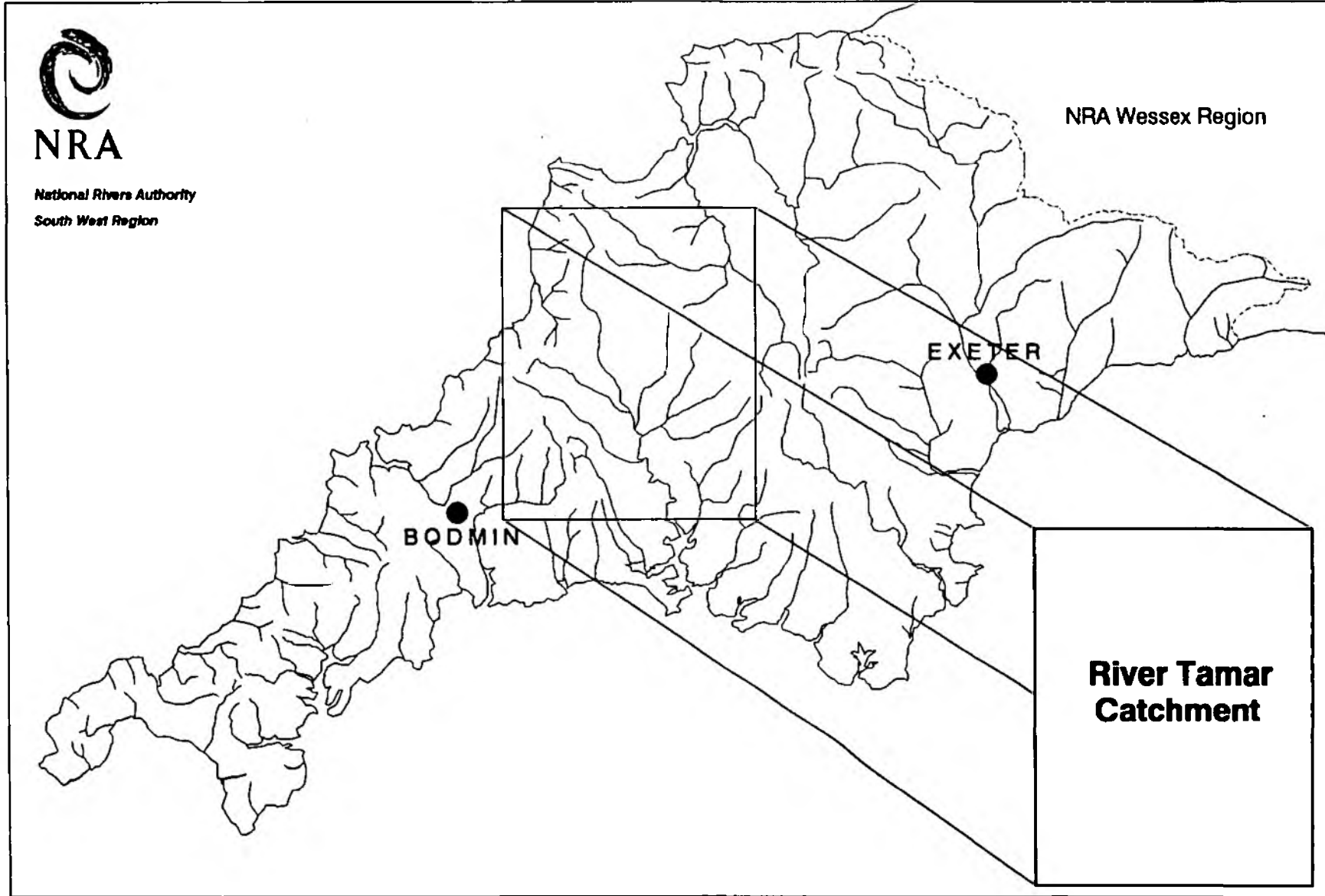
110279

# RIVER WATER QUALITY IN THE RIVER TAMAR CATCHMENT

## LIST OF CONTENTS

	Page No.
1 Introduction	1
2 River Tamar Catchment	1
3 National Water Council's River Classification System	3
4 1990 River Water Quality Survey	4
5 1990 River Water Quality Classification	5
6 Non-compliance with Quality Objectives	5
7 Causes of Non-compliance	6
8 Glossary of Terms	7
9 References	7
10 Appendices:	
10.1 River Quality Objectives including Monitoring points	
10.2 Basic Determinand Analytical Suite	
10.3 National Water Council (NWC) River Classification System	
10.4 NWC Criteria for Non-Metallic Determinands - Regional Variation	
10.4.1 NWC Criteria for Metallic Determinands - Regional Variation	
10.5 1990 River Water Quality Classification - tabular format	
10.6 1990 River Water Quality Classification - map format	
10.7 Calculated Determinand Statistics used for Quality Assessment	
10.8 Compliant/Non-Compliant River Reaches	
10.9 Number of Samples Results exceeding quality standards	
10.10 Percentage Exceedance of Determinand Statistics from Quality Standard	
10.11 Identification of Possible Causes of Non-Compliance with River Quality Objectives	

# National Rivers Authority South West Region



River Tamar Catchment

NRA Wessex Region



National Rivers Authority  
South West Region

BODMIN

EXETER

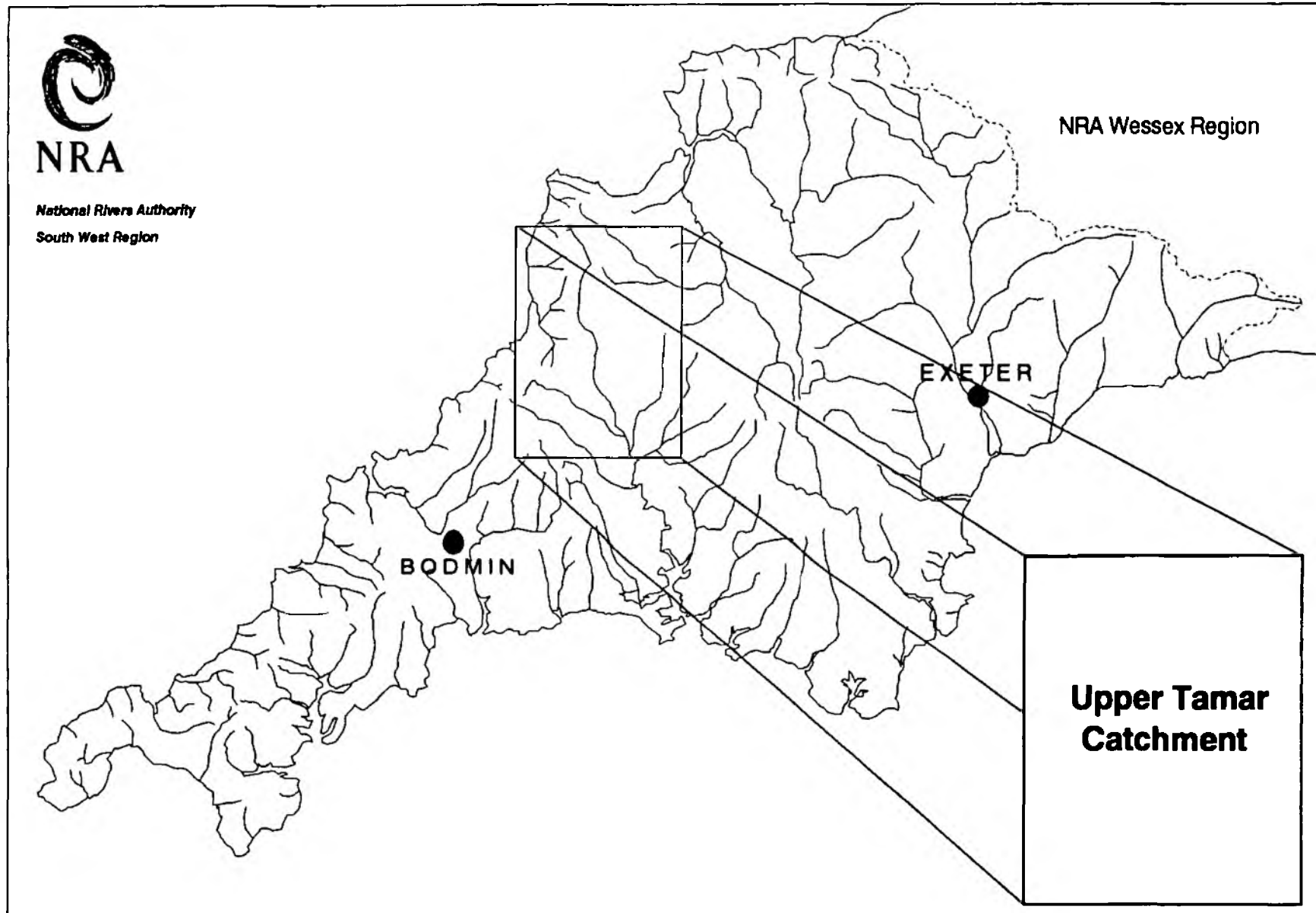
River Tamar  
Catchment

# National Rivers Authority South West Region



**NRA**

*National Rivers Authority*  
South West Region



NRA Wessex Region

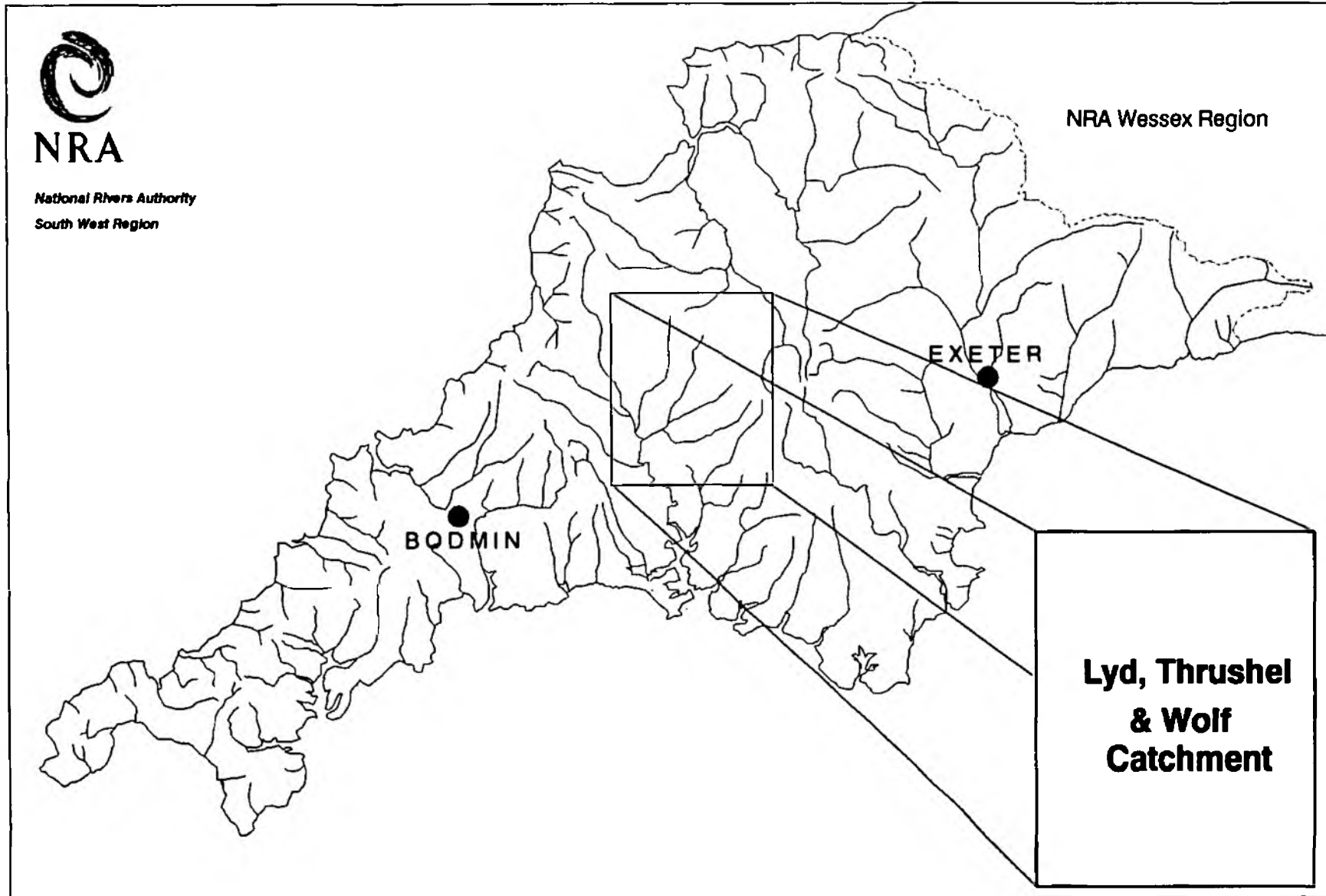
EXETER

BODMIN

Upper Tamar Catchment

**Upper Tamar  
Catchment**

# National Rivers Authority South West Region



**Lyd, Thrushel & Wolf Catchment**

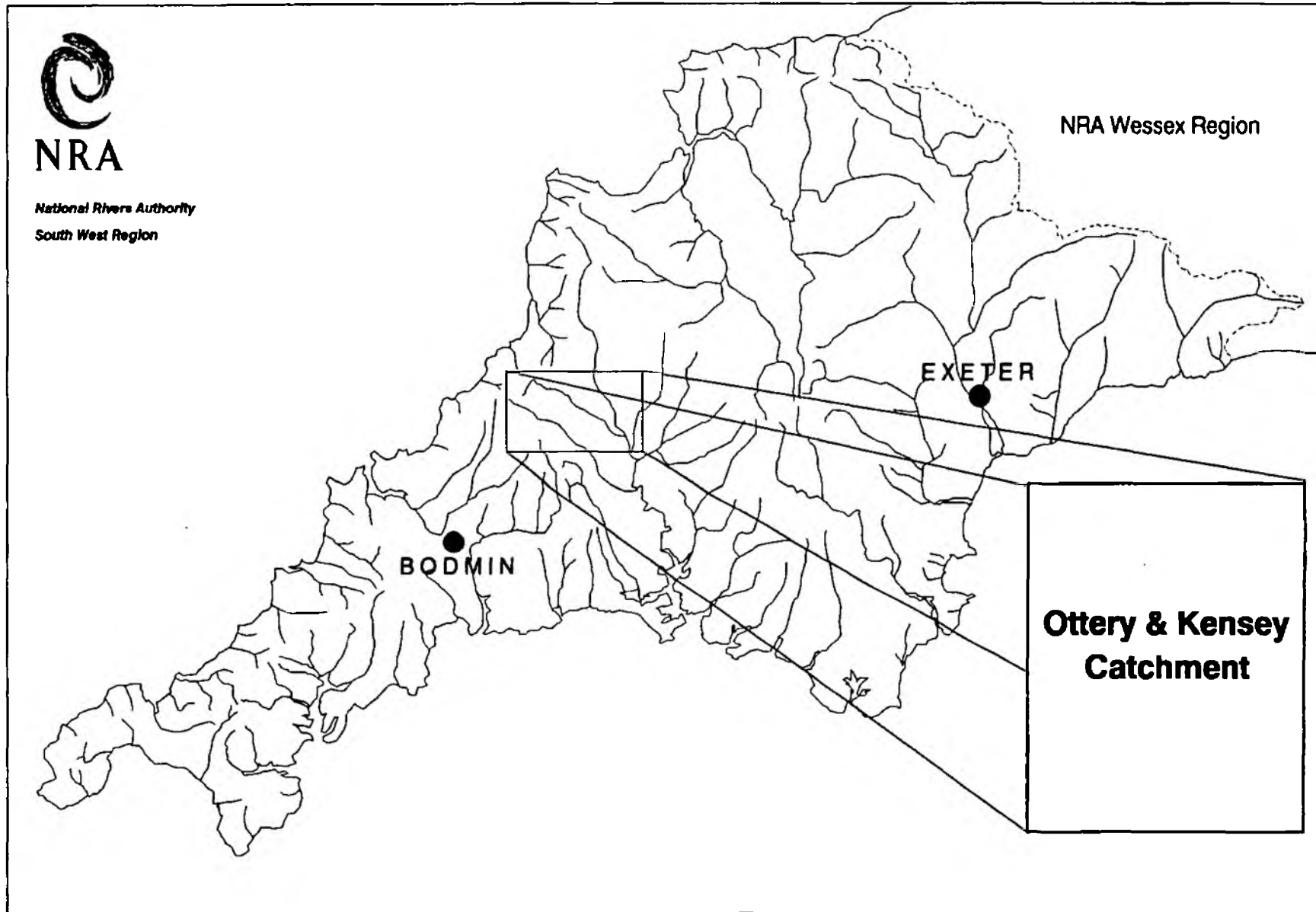
**Lyd, Thrushel  
& Wolf  
Catchment**

# National Rivers Authority South West Region



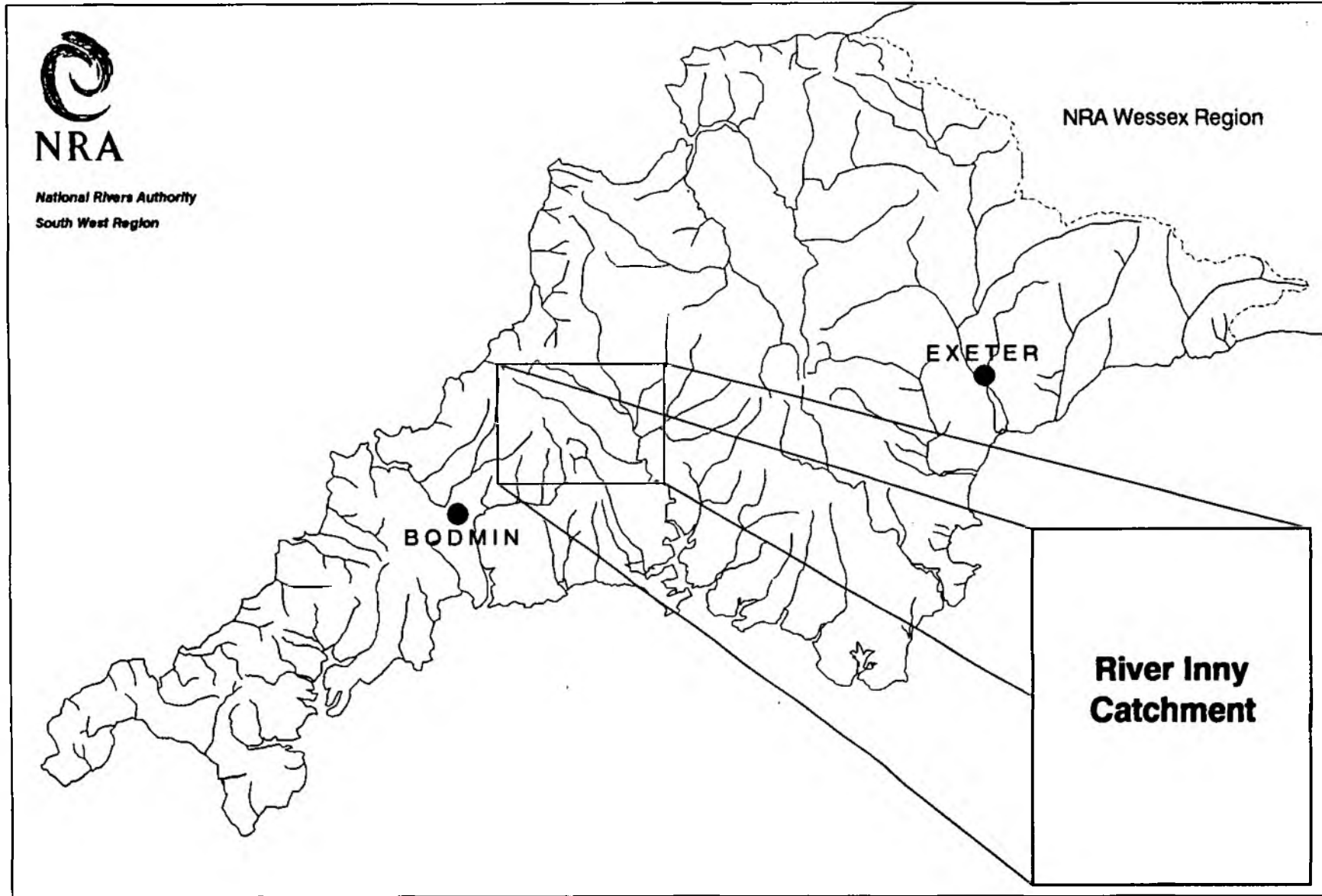
**NRA**

*National Rivers Authority  
South West Region*



**Ottery & Kensey Catchment**

# National Rivers Authority South West Region





## 1. INTRODUCTION

Monitoring to assess the quality of river waters is undertaken in thirty-two catchments within the region. As part of this monitoring programme samples are collected routinely from selected monitoring points at a pre-determined frequency per year, usually twelve spaced at monthly intervals. Each monitoring point provides data for the water quality of a river reach (in kilometres) upstream of the monitoring point.

River lengths have been re-measured and variations exist over those recorded previously.

Each water sample collected from each monitoring point is analysed for a range of chemical and physical constituents or properties known as determinands. The analytical results for each sample are entered into a computer database called the Water Quality Archive.

Selected data are accessed from the Archive so that the quality of each river reach can be determined based on a River Classification System developed by the National Water Council (NWC), (9.1).

This report presents the river water quality classification for 1990 for monitored river reaches in the River Tamar catchment.

## 2. RIVER TAMAR CATCHMENT

For reasons of clarity the following monitoring summary is not broken up into four separate sub-catchments of the River Tamar as represented by the Water Quality Maps attached.

The River Tamar flows over a distance of 78 km from its source to the tidal limit, (Appendix 10.1). Water quality was monitored at sixteen locations on the main river; fifteen of these sites were sampled at approximately monthly intervals. The site at Gunnislake, which is a National Water Quality monitoring point, was sampled fortnightly.

Throughout the Tamar catchment eighteen secondary, ten tertiary, four quaternary and one quinary tributaries of the River Tamar were monitored.

Tamerton Foliot Stream and Milton Brook flow over a distance of 4.3 km and 5.3 km respectively from their source to the tidal limit in the Tamar Estuary.

The following twenty-four tributaries were sampled on fifteen to twenty occasions during 1990 because of no recent water quality data: Tamerton Foliot Stream, Latchley Brook, Lockett Stream, Damerall Stream, Combebow Stream, Lowley Stream (R12E005), River Lyd (R12F012), Quither Brook (R12F003), Breazle Water (R12G010), Bratton Brook (R12G009), River Wolf

(R12G007), Broadwood Brook (R12G012), River Carey, Henford Water, Tala Water, Lana Lake, Derril Water (R12L012/005), Small Brook (R12L011/008), Lamberal Water (R12L010/007), Bolesbridge Water, Caudworthy Water, Canworthy Water, Tregear Stream and Penpont Water (R12P010).

## 2.1 SECONDARY TRIBUTARIES

The River Inny flows over a distance of 32.5 km from its source to the confluence with the River Tamar, (Appendix 10.1) and was monitored at eight locations.

The Rivers Ottery and Carey flow over a distance of 33 km and 21.5 km respectively from their source to the confluence with the River Tamar, (Appendix 10.1) and were monitored at six locations.

The River Kensey flows over a distance of 16.8 km from its source to the confluence with the River Tamar, (Appendix 10.1) and was monitored at five locations.

The River Lyd flows over a distance of 25.2 km from its source to the confluence with the River Tamar, (Appendix 10.1).

The Lowley Brook (10.1 km), River Claw (12.1 km) and River Deer (16.8 km) were all monitored at three locations between their source and the confluence with the River Tamar, (Appendix 10.1).

The Derrill Water (7.4 km), Small Brook (9.1 km), Lamberal Water (9.6 km) and the River Lockett (5.7 km) were all monitored at two locations between their source and confluence with the River Tamar, (Appendix 10.1).

The Blanchdown Stream (0.7 km), Portontown Stream (6.4 km), Latchley Brook (1.9 km), Damerall Stream (5.5 km), Tala Water (9.5 km) and Lana Lake (4.9 km), were all monitored at one location. Monitoring points are all located in the lower reaches of these streams.

## 2.2 TERTIARY STREAMS

The River Thrushel flows over a distance of 21.4 km before joining the River Lyd, (Appendix 10.1) and was monitored at four locations.

Penpont Water flows over a distance of 15 km from its source to the confluence with the River Inny, (Appendix 10.1) and was monitored at three locations.

The River Lew and Caudworthy Water flow over a distance of 15.8 km and 11.7 km respectively from their source to the confluence with the River Ottery, (Appendix 10.1) and were monitored at two locations.

The Tregear (3.8 km), Canworthy Water (5.2 km), Bolesbridge Water (9.9 km), Henford Water (5.5 km), Colesmill Stream (3.5 km) and Quither Brook (6.7 km) were all monitored at one location. Monitoring points are all located in the lower reaches of these streams.

### 2.3 QUATERNARY TRIBUTARIES

Combebow Stream flows over a distance of (5.5 km) and was sampled at one site on fifteen occasions between its source and confluence with the River Lew.

Breazle Water (5.7 km) and Bratton Brook (6.1 km) were both sampled at one location on fifteen occasions between their sources and confluence with and River Thrushel.

The River Wolf flows over a distance of 15.3 km from its source to the confluence with the River Thrushel, (Appendix 10.1) and was monitored at two sites at approximately monthly intervals. One site was sampled on fifteen occasions because of no recent water quality data.

### 2.4 QUINARY TRIBUTARY

The Broadwood Brook flows over a distance of 6.3 km from its source to the confluence with the River Wolf, (Appendix 10.1) and was monitored at one location.

Each sample was analysed for a minimum number of determinands (Appendix 8.2) plus additional determinands based on local knowledge of the catchment. In addition, at selected sites, metal analyses were carried out.

The analytical results from all of these samples have been entered into the Water Quality Archive and can be accessed through the Water Act Register, (9.2).

## 3. NATIONAL WATER COUNCIL'S RIVER CLASSIFICATION SYSTEM

### 3.1 River Quality Objectives

In 1978 river quality objectives (RQOs) were assigned to all river lengths that were part of the routine monitoring network and to those additional watercourses, which were not part of the routine network, but which received discharges of effluents.

For the majority of watercourses long term objectives were identified based on existing and assumed adequate quality for the long term protection of the watercourse. In a few instances short term objectives were identified but no timetable for the achievement of the associated long term objective was set.

The RQOs currently in use in the River Tamar catchment are identified in Appendix 10.1.

### 3.2 River Quality Classification

River water quality is classified using the National Water Council's (NWC) River Classification System (see Appendix 10.3), which identifies river water quality as being one of five quality classes as shown in Table 1 below:

Table 1 - National Water Council - River Classification System

<u>Class</u>	<u>Description</u>
1A	Good quality
1B	Lesser good quality
2	Fair quality
3	Poor quality
4	Bad quality

Using the NWC system, the classification of river water quality is based on the values of certain determinands as arithmetic means or as 95 percentiles (5 percentiles are used for pH and dissolved oxygen) as indicated in Appendices 10.4.1 and 10.4.2.

The quality classification system incorporates some of the European Inland Fisheries Advisory Commission (EIFAC) criteria (Appendix 10.3) recommended for use by the NWC system.

## 4. 1990 RIVER WATER QUALITY SURVEY

The 1990 regional classification of river water quality also includes the requirements of the Department of the Environment quinquennial national river quality survey. The objectives for the Department of the Environment 1990 River Quality Survey are given below:

- 1) To carry out a National Classification Survey based on procedures used in the 1985 National Classification Survey, including all regional differences.
- 2) To classify all rivers and canals included in the 1985 National Classification Survey.
- 3) To compare the 1990 Classification with those obtained in 1985.

In addition, those watercourses, which were not part of the 1985 Survey and have been monitored since that date, are included in the 1990 regional classification of river water quality.

## 5. 1990 RIVER WATER QUALITY CLASSIFICATION

Analytical data collected from monitoring during 1988, 1989 and 1990 were processed through a computerised river water quality classification programme. This resulted in a quality class being assigned to each monitored river reach as indicated in Appendix 10.5.

The quality class for 1990 can be compared against the appropriate River Quality Objective and previous annual quality classes (1985-1989) also based on three years combined data, for each river reach in Appendix 10.5.

The river water classification system used to classify each river length is identical to the system used in 1985 for the Department of the Environment's 1985 River Quality Survey. The determinand classification criteria used to determine the annual quality classes in 1985, subsequent years and for 1990 are indicated in Appendices 10.4 and 10.4.1.

Improvements to this classification system could have been made, particularly in the use of a different suspended solids standard for Class 2 waters. As the National Rivers Authority will be proposing new classification systems to the Secretary of State in the near future, it was decided to classify river lengths in 1990 with the classification used for the 1985-1989 classification period.

The adoption of the revised criteria for suspended solids in Class 2 waters would not have affected the classification of river reaches.

The river quality classes for 1990 of monitored river reaches in the catchment are shown in map form in Appendix 10.6.

The calculated determinand statistics for pH, temperature, dissolved oxygen, biochemical oxygen demand (BOD), total ammonia, un-ionised ammonia, suspended solids, copper and zinc from which the quality class was determined for each river reach, are indicated in Appendix 10.7.

## 6. NON-COMPLIANCE WITH QUALITY OBJECTIVES

Those monitored river reaches within the catchment, which do not comply with their assigned (RQO), are shown in map form in Appendix 10.8.

Appendix 10.9 indicates the number of samples analysed for each determinand over the period 1988 to 1990 and the number of sample results per determinand, which exceed the determinand quality standard.

For those non-compliant river reaches in the catchment, the extent of exceedance of the calculated determinand statistic with relevant quality standard (represented as a percentage), is indicated in Appendix 10.10.

**7. CAUSES OF NON-COMPLIANCE**

For those river reaches, which did not comply with their assigned RQOs, the cause of non-compliance (where possible to identify) is indicated in Appendix 10.11.

## 8. GLOSSARY OF TERMS

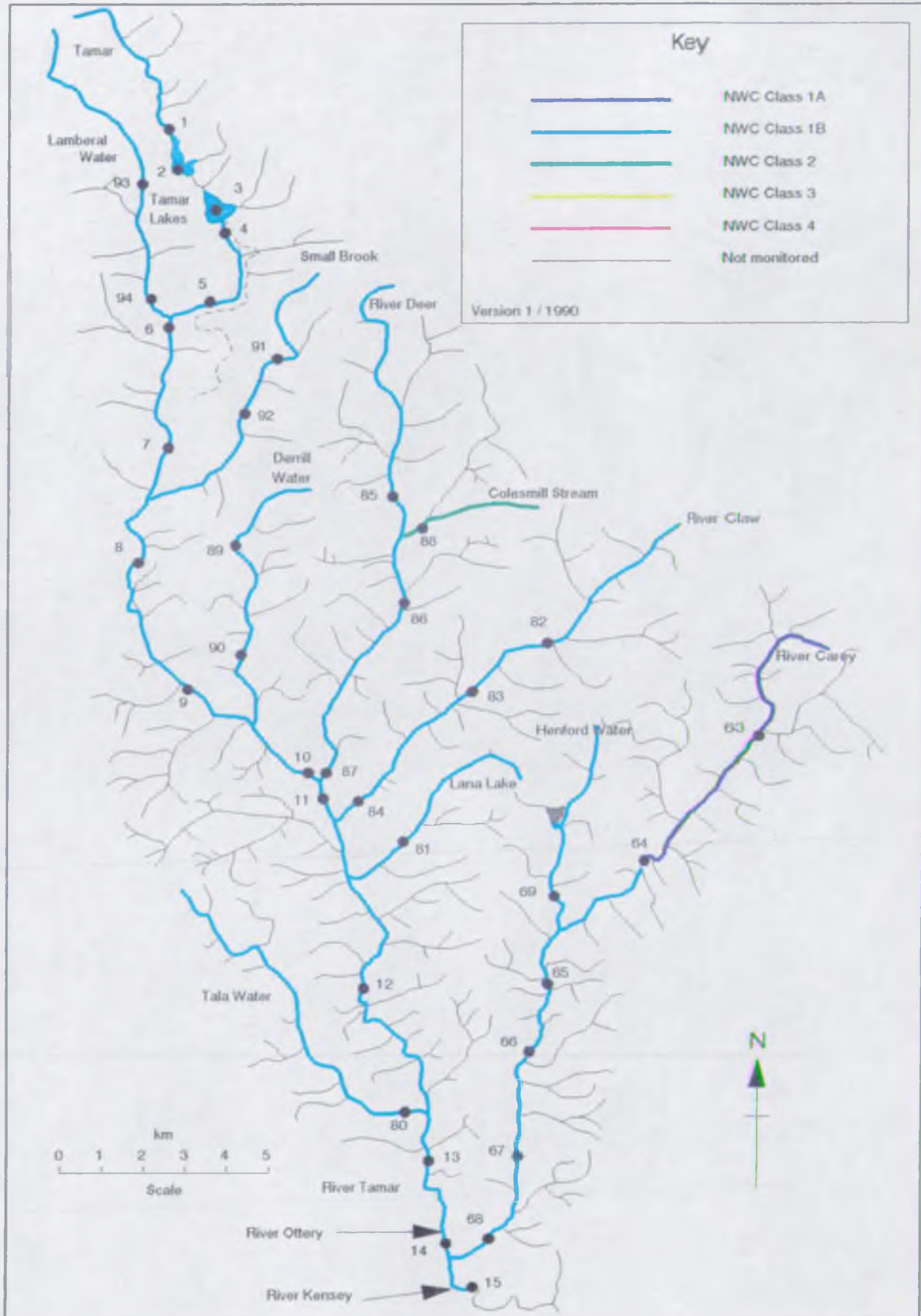
RIVER REACH	A segment of water, upstream from sampling point to the next sampling point.
RIVER LENGTH	River distance in kilometres.
RIVER QUALITY OBJECTIVE	That NWC class, which protects the most sensitive use of the water.
95 percentiles	Maximum limits, which must be met for at least 95% of the time.
5 percentiles	Minimum limits, which must be met for at least 95% of the time.
BIOLOGICAL OXYGEN DEMAND (5 day carbonaceous ATU)	A standard test measuring the microbial uptake of oxygen - an estimate of organic pollution.
pH	A scale of acid to alkali.
UN-IONISED AMMONIA	Fraction of ammonia poisonous to fish, $\text{NH}_3$ .
SUSPENDED SOLIDS	Solids removed by filtration or centrifuge under specific conditions.
USER REFERENCE NUMBER	Reference number allocated to a sampling point.
INFERRED STRETCH	Segment of water, which is not monitored and whose water quality classification is assigned from the monitored reach upstream.

## 9. REFERENCES

### Reference

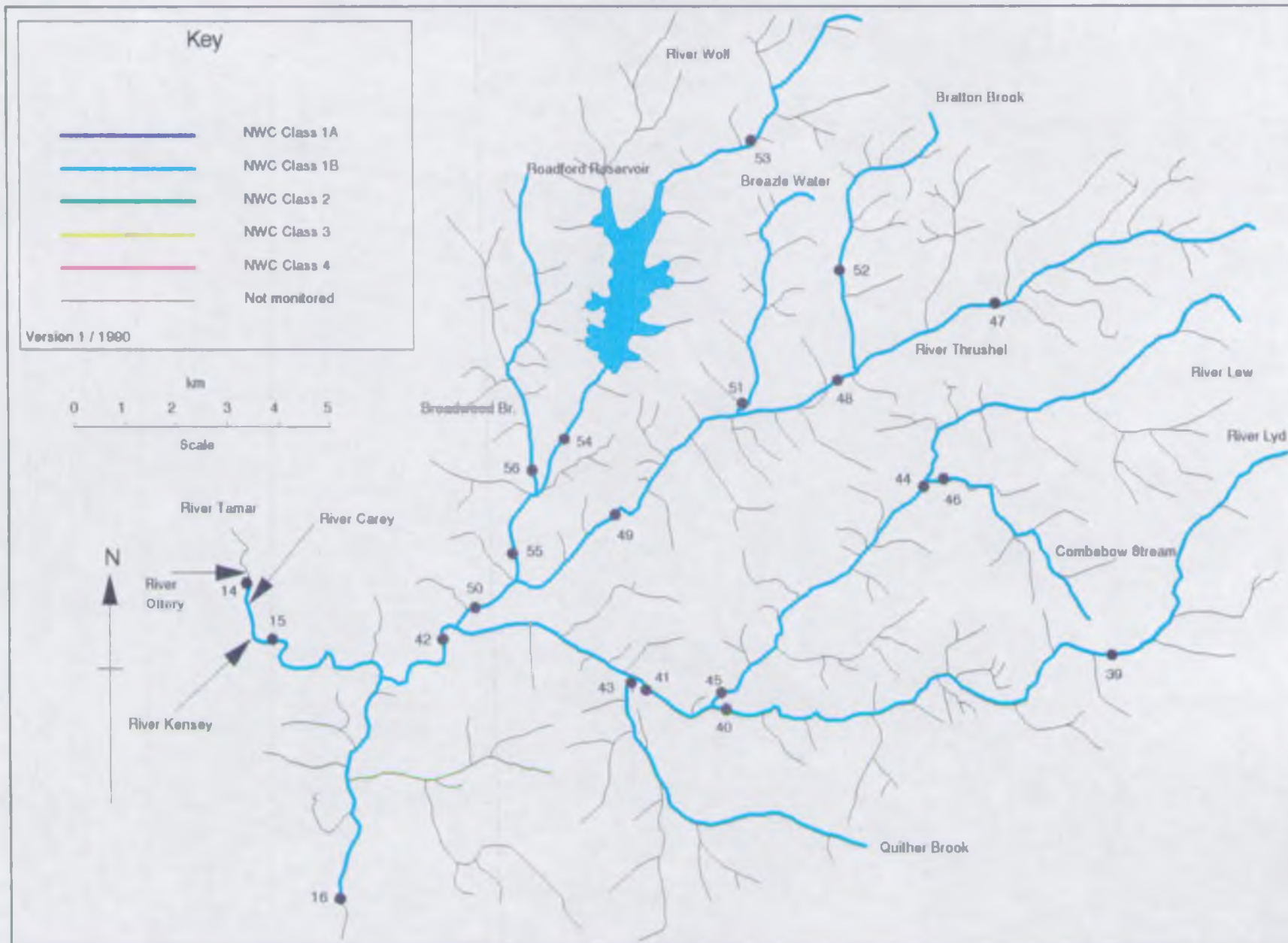
- 9.1 National Water Council (1977). River Water Quality: The Next Stage. Review of Discharge Consent Conditions. London.
- 9.2 Water Act 1989 Section 117
- 9.3 Alabaster J. S. and Lloyd R. Water Quality Criteria for Freshwater Fish, 2nd edition, 1982. Butterworths.

# Upper Tamar Catchment River Quality Objectives

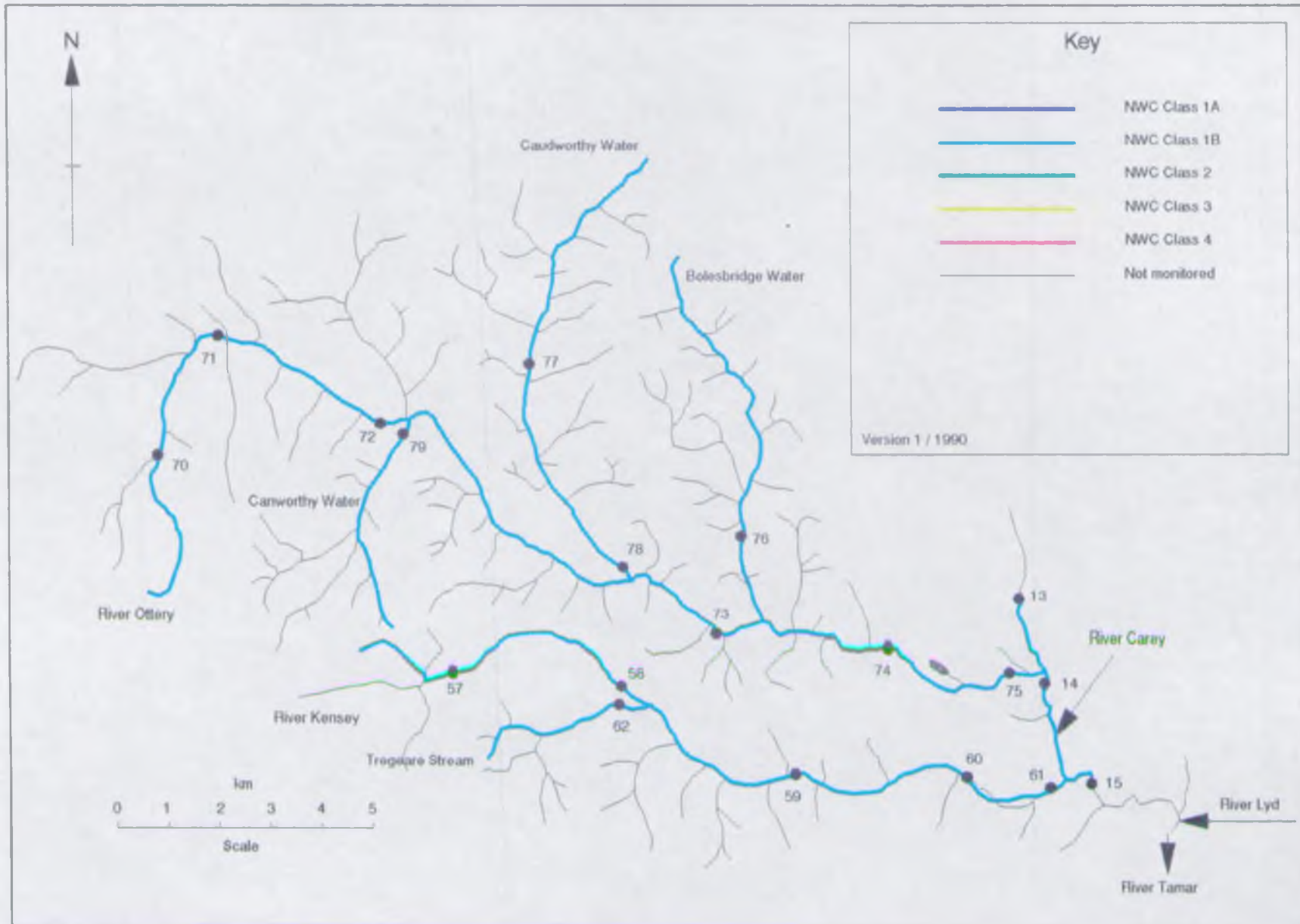




# Lyd, Thrushel & Wolf Catchments River Quality Objectives

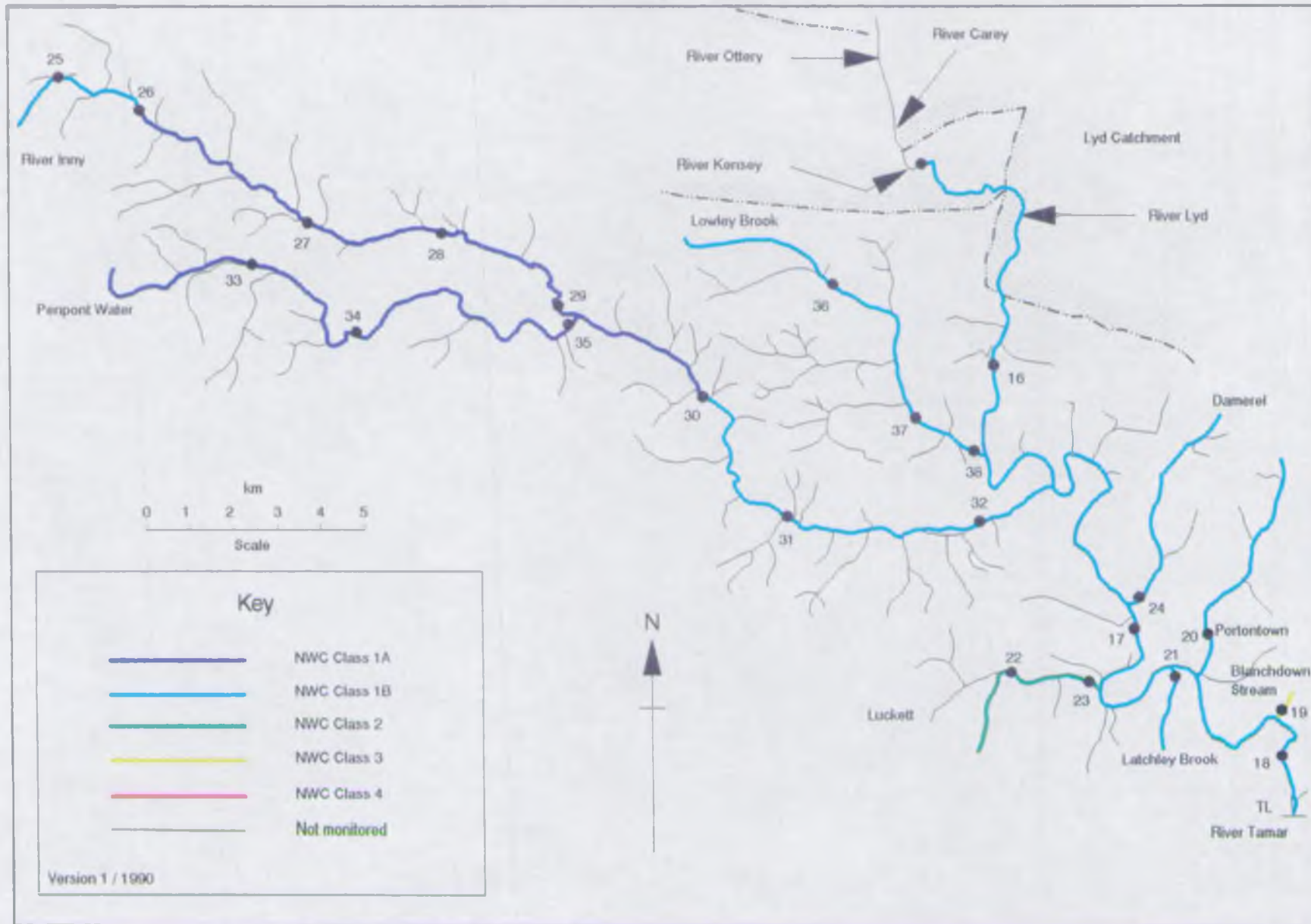


# Ottery & Kensey Catchments River Quality Objectives





# Inny Catchment River Quality Objectives



## BASIC DETERMINAND ANALYTICAL SUITE FOR ALL CLASSIFIED RIVER SITES

pH as pH Units

Conductivity at 20 C as uS/cm

Water temperature (Cel)

Oxygen dissolved % saturation

Oxygen dissolved as mg/l O

Biochemical oxygen demand (5 day total ATU) as mg/l O

Total organic carbon as mg/l C

Nitrogen ammoniacal as mg/l N

Ammonia un-ionised as mg/l N

Nitrate as mg/l N

Nitrite as mg/l N

Suspended solids at 105 C as mg/l

Total hardness as mg/l CaCO<sub>3</sub>

Chloride as mg/l Cl

Orthophosphate (total) as mg/l P

Silicate reactive dissolved as mg/l SiO<sub>2</sub>

Sulphate (dissolved) as mg/l SO<sub>4</sub>

Sodium (total) as mg/l Na

Potassium (total) as mg/l K

Magnesium (total) as mg/l Mg

Calcium (total) as mg/l Ca

Alkalinity as pH 4.5 as mg/l CaCO<sub>3</sub>

## MWC RIVER QUALITY CLASSIFICATION SYSTEM

River Class	Quality criteria	Remarks	Current potential uses
	Class limiting criteria (95 percentile)		
1A Good Quality	<ul style="list-style-type: none"> <li>(i) Dissolved oxygen saturation greater than 80%</li> <li>(ii) Biochemical oxygen demand not greater than 3 mg/l</li> <li>(iii) Ammonia not greater than 0.4 mg/l</li> <li>(iv) Where the water is abstracted for drinking water, it complies with requirements for A2* water</li> <li>(v) Non-toxic to fish in EIFAC terms (or best estimates if EIFAC figures not available)</li> </ul>	<ul style="list-style-type: none"> <li>(i) Average BOD probably not greater than 1.5 mg/l</li> <li>(ii) Visible evidence of pollution should be absent</li> </ul>	<ul style="list-style-type: none"> <li>(i) Water of high quality suitable for potable supply abstractions and for all abstractions</li> <li>(ii) Game or other high class fisheries</li> <li>(iii) High amenity value</li> </ul>
1B Good Quality	<ul style="list-style-type: none"> <li>(i) DO greater than 60% saturation</li> <li>(ii) BOD not greater than 5 mg/l</li> <li>(iii) Ammonia not greater than 0.9 mg/l</li> <li>(iv) Where water is abstracted for drinking water, it complies with the requirements for A2* water</li> <li>(v) Non-toxic to fish in EIFAC terms (or best estimates if EIFAC figures not available)</li> </ul>	<ul style="list-style-type: none"> <li>(i) Average BOD probably not greater than 2 mg/l</li> <li>(ii) Average ammonia probably not greater than 0.5 mg/l</li> <li>(iii) Visible evidence of pollution should be absent</li> <li>(iv) Waters of high quality which cannot be placed in Class 1A because of the high proportion of high quality effluent present or because of the effect of physical factors such as canalisation, low gradient or eutrophication</li> <li>(v) Class 1A and Class 1B together are essentially the Class 1 of the River Pollution Survey (RPS)</li> </ul>	<ul style="list-style-type: none"> <li>Water of less high quality than Class 1A but usable for substantially the same purposes</li> </ul>
2 Fair Quality	<ul style="list-style-type: none"> <li>(i) DO greater than 40% saturation</li> <li>(ii) BOD not greater than 9 mg/l</li> <li>(iii) Where water is abstracted for drinking water it complies with the requirements for A3* water</li> <li>(iv) Non-toxic to fish in EIFAC terms (or best estimates if EIFAC figures not available)</li> </ul>	<ul style="list-style-type: none"> <li>(i) Average BOD probably not greater than 5 mg/l</li> <li>(ii) Similar to Class 2 of RPS</li> <li>(iii) Water not showing physical signs of pollution other than humic colouration and a little foaming below weirs</li> </ul>	<ul style="list-style-type: none"> <li>(i) Waters suitable for potable supply after advanced treatment</li> <li>(ii) Supporting reasonably good coarse fisheries</li> <li>(iii) Moderate amenity value</li> </ul>

Poor Quality	(i) DO greater than 10% saturation (ii) Not likely to be anaerobic (iii) BOD not greater than 17 mg/l. This may not apply if there is a high degree of re-aeration	Similar to Class 3 of RPS	Waters which are polluted to an extent that fish are absent only sporadically present. May be used for low grade industrial abstraction purposes. Considerable potential for further use if cleaned up
4 Bad Quality	Waters which are inferior to Class 3 in terms of dissolved oxygen and likely to be anaerobic at times	Similar to Class 4 of RPS	Waters which are grossly polluted and are likely to cause nuisance
	DO greater than 10% saturation		Insignificant watercourses and ditches not usable, where the objective is simply to prevent nuisance developing

- Notes
- (a) Under extreme weather conditions (eg flood, drought, freeze-up), or when dominated by plant growth, or by aquatic plant decay, rivers usually in Class 1, 2, and 3 may have BODs and dissolved oxygen levels, or ammonia content outside the stated levels for those Classes. When this occurs the cause should be stated along with analytical results.
  - (b) The BOD determinations refer to 5 day carbonaceous BOD (ATU). Ammonia figures are expressed as NH<sub>4</sub>. \*\*
  - (c) In most instances the chemical classification given above will be suitable. However, the basis of the classification is restricted to a finite number of chemical determinands and there may be a few cases where the presence of a chemical substance other than those used in the classification markedly reduces the quality of the water. In such cases, the quality classification of the water should be down-graded on the basis of biota actually present, and the reasons stated.
  - (d) EIFAC (European Inland Fisheries Advisory Commission) limits should be expressed as 95 percentile limits.

EEC category A2 and A3 requirements are those specified in the EEC Council directive of 16 June 1975 concerning the Quality of Surface Water intended for Abstraction of Drinking Water in the Member State.

Ammonia Conversion Factors

	(mg NH <sub>4</sub> /l to mg N/l)
Class 1A	0.4 mg NH <sub>4</sub> /l = 0.31 mg N/l
Class 1B	0.9 mg NH <sub>4</sub> /l = 0.70 mg N/l
	0.5 mg NH <sub>4</sub> /l = 0.39 mg N/l

## NWC RIVER CLASSIFICATION SYSTEM

## CRITERIA USED BY NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION FOR NON-METALLIC DETERMINANDS

River Class	Quality Criteria
1A	Dissolved oxygen % saturation greater than 80% BOD (ATU) not greater than 3 mg/l O Total ammonia not greater than 0.31 mg/l N Non-ionised ammonia not greater than 0.021 mg/l N Temperature not greater than 21.5 C pH greater than 5.0 and less than 9.0 Suspended solids not greater than 25 mg/l
1B	Dissolved oxygen % saturation greater than 60% BOD (ATU) not greater than 5 mg/l O Total ammonia not greater than 0.70 mg/l N Non-ionised ammonia not greater than 0.021 mg/l N Temperature not greater than 21.5 C pH greater than 5.0 and less than 9.0 Suspended solids not greater than 25 mg/l
2	Dissolved oxygen & saturation greater than 40% BOD (ATU) not greater than 9 mg/l O Total ammonia not greater than 1.56 mg/l N Non-ionised ammonia not greater than 0.021 mg/l N Temperature not greater than 28 C pH greater than 5.0 and less than 9.0 Suspended solids not greater than 25 mg/l
3	Dissolved oxygen % saturation greater than 10% BOD (ATU) not greater than 17 mg/l O
4	Dissolved oxygen % saturation not greater than 10% BOD (ATU) greater than 17 mg/l O

## STATISTICS USED BY NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

Determinand	Statistic
Dissolved oxygen	5 percentile
BOD (ATU)	95 percentile
Total ammonia	95 percentile
Non-ionised ammonia	95 percentile
Temperature	95 percentile
pH	5 percentile
Suspended solids	95 percentile
	arithmetic mean

## NWC RIVER CLASSIFICATION SYSTEM

## CRITERIA USED BY NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION FOR METALLIC DETERMINANDS

## SOLUBLE COPPER

Total Hardness (mean) mg/l CaCO <sub>3</sub>	Statistic	Soluble Copper* ug/l Cu	
		Class 1	Class 2
0 - 10	95 percentile	< = 5	> 5
10 - 50	95 percentile	< = 22	> 22
50 - 100	95 percentile	< = 40	> 40
100 - 300	95 percentile	< = 112	> 112

\* Total copper is used for classification until sufficient data on soluble copper can be obtained.

## TOTAL ZINC

Total Hardness (mean) mg/l CaCO <sub>3</sub>	Statistic	Total Zinc ug/l Zn		
		Class 1	Class 2	Class 3
0 - 10	95 percentile	< = 30	< = 300	> 300
10 - 50	95 percentile	< = 200	< = 700	> 700
50 - 100	95 percentile	< = 300	< = 1000	> 1000
100 - 300	95 percentile	< = 500	< = 2000	> 2000



NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
 1990 RIVER WATER QUALITY CLASSIFICATION  
 CATCHMENT: TAMAR (13)

1990 Map Position Number	River	Reach upstream of	User Reference Number	National Grid Reference	Reach Length (km)	Distance from source (km)	River Quality Objective	85 NWC Class	86 NWC Class	87 NWC Class	88 NWC Class	89 NWC Class	90 NWC Class
1	TAMAR	BUSES BRIDGE	R12L001	SS 2808 1338	4.2	4.2	1B	2	2	2	2	1B	1B
	TAMAR	INFLOW, UPPER TAMAR LAKE (INF. STRETCH)			0.2	4.4	1B	2	2	2	2	1B	1B
2	TAMAR	UPPER TAMAR LAKE	R12L017	SS 2891 1188	1.7	6.1	1B	2	2	2	1B	1B	2
	TAMAR	INFLOW, LOWER TAMAR LAKE (UNION. STRETCH)			0.4	6.5	1B	2	2	2	1B	1B	
3	TAMAR	LOWER TAMAR LAKE	R12L018	SS 2962 1085	0.9	7.4	1B	2	2	2	1B	1B	1B
4	TAMAR	FOOTBRIDGE BELOW LOWER TAMAR LAKE	R12L009	SS 2956 1070	0.1	7.5	1B	2	2	2	1B	1B	1B
5	TAMAR	DEXBEER BRIDGE	R12L006	SS 2953 0895	3.0	10.5	1B	2	2	2	1B	1B	1B
6	TAMAR	MORETON MILL	R12L016	SS 2833 0845	1.8	12.3	1B	2	2	1B	2	1B	3
7	TAMAR	TAMARSTONE BRIDGE	R12L002	SS 2835 0548	4.5	16.8	1B	2	2	1B	2	1B	2
8	TAMAR	BRIDGERULE	R12L015	SS 2748 0288	4.4	21.2	1B	2	2	2	2	2	1B
9	TAMAR	CROWFORD BRIDGE	R12L003	SX 2873 9944	5.4	26.6	1B	2	2	2	2	2	2
10	TAMAR	TAMERTON BRIDGE	R12L004	SX 3176 9738	5.1	31.7	1B	2	2	2	2	2	2
11	TAMAR	BELOW CONFLUENCE WITH RIVER DEER	R12L013	SX 3190 9726	0.3	32.0	1B	2	2	2	2	2	3
12	TAMAR	BOYTON BRIDGE	R12J001	SX 3284 9228	7.0	39.0	1B	2	2	2	2	2	3
13	TAMAR	DRUXTON BRIDGE	R12J002	SX 3444 8833	5.9	44.9	1B	2	2	2	2	2	3
14	TAMAR	NETHERBRIDGE	R12J003	SX 3483 8675	1.9	46.8	1B	2	2	2	2	2	3
15	TAMAR	POLSON BRIDGE	R12J004	SX 3559 8490	2.5	49.3	1B	2	1B	1B	2	2	3
16	TAMAR	GREYSTONE BRIDGE	R12E001	SX 3683 8038	6.6	55.9	1B	2	1B	1B	2	2	3
17	TAMAR	HORSEBRIDGE	R12E002	SX 4001 7486	11.9	67.8	1B	2	1B	1B	2	1B	3
18	TAMAR	GUNWISLAKE BRIDGE	R12E003	SX 4332 7224	9.0	76.8	1B	2	2	2	1B	1B	3
	TAMAR	NORMAL TIDAL LIMIT (INFERRED STRETCH)			1.2	78.0	1B	2	2	2	1B	1B	3
19	BLANCHDOWN STREAM	PRIOR TO RIVER TAMAR	R12E004	SX 4325 7291	0.7	0.7	3				3	3	3
20	PORTONTOWN STREAM	GRENOVEN WOOD	R12E015	SX 4138 7439	5.6	5.6	1B	1B	1B	1B	2	2	2
	PORTONTOWN STREAM	TAMAR CONFLUENCE (INFERRED STRETCH)			0.8	6.4	1B	1B	1B	1B	2	2	2
21	LATCHLEY BROOK	LATCHLEY	R12E028	SX 4088 7374	1.7	1.7	1B						2
	LATCHLEY BROOK	TAMAR CONFLUENCE (INFERRED STRETCH)			0.2	1.9	1B						2
22	LUCKETT	OLDMILL	R12E016	SX 3700 7385	3.2	3.2	2	2	2	2	2	2	1B
	LUCKETT	LUCKETT BRIDGE	R12E007	SX 3888 7368	2.1	5.3	2	2	2	2	2	2	2
	LUCKETT	TAMAR CONFLUENCE (INFERRED STRETCH)			0.4	5.7	2	2	2	2	2	2	2
24	DAMEREL STREAM	PRIOR TO RIVER TAMAR	R12E014	SX 3989 7549	5.4	5.4	1B	1B	1B	2	2	2	1B
	DAMEREL STREAM	TAMAR CONFLUENCE (INFERRED STRETCH)			0.1	5.5	1B	1B	1B	2	2	2	1B
25	INNY	UPSTREAM OF DAVIDSTON CREAMERY	R12P001	SX 1533 8702	1.4	1.4	1B	1B	2	2	2	2	2
26	INNY	TREWYNOW BRIDGE	R12P002	SX 1701 8650	2.0	3.4	1B	1B	1B	1B	2	2	2
27	INNY	ST. CLETHER BRIDGE	R12P003	SX 2061 8418	4.7	8.1	1A	1B	1B	1B	1B	1B	1B
28	INNY	GIMBLETT'S MILL	R12P012	SX 2419 8339	4.5	12.6	1A	1B	1B	1B	1B	2	1B
29	INNY	TWO BRIDGES	R12P004	SX 2706 8175	4.3	16.9	1A	1B	1B	1B	1B	2	1B
30	INNY	TREKELLAND BRIDGE	R12P005	SX 3002 7987	4.3	21.2	1A	1B	1B	1B	1B	1B	1B
31	INNY	TRECARRELL BRIDGE	R12P013	SX 3202 7713	4.6	25.8	1B	1B	2	2	2	1B	1B
32	INNY	BEALS MILL BRIDGE	R12P006	SX 3588 7706	4.3	30.1	1B	1B	2	2	2	1B	1B

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
 1990 RIVER WATER QUALITY CLASSIFICATION  
 CATCHMENT: TAMAR (13)

1990 Map Position Number	River	Reach upstream of	User Reference Number	National Grid Reference	Reach Length (km)	Distance from source (km)	River Quality Objective	85 NWC Class	86 NWC Class	87 NWC Class	88 NWC Class	89 NWC Class	90 NWC Class
	INNY	TAMAR CONFLUENCE (INFERRED STRETCH)			2.4	32.5	1B	1B	2	2	2	1B	1B
33	PENPOINT WATER	TRELYN BRIDGE	R12P010	SX 2002 8286	4.0	4.0	1A	1B	2	2	2	2	1B
34	PENPOINT WATER	ALTARNUN BRIDGE	R12P007	SX 2233 8130	3.7	7.7	1A	1B	1B	1B	1B	1B	1B
35	PENPOINT WATER	TWO BRIDGES	R12P008	SX 2695 8165	7.1	14.8	1A	1B	1B	1B	1B	1B	1B
	PENPOINT WATER	INNY CONFLUENCE (INFERRED STRETCH)			0.2	15.0	1A	1B	1B	1B	1B	1B	1B
36	LOWLEY BROOK	LANDLAKE BRIDGE	R12E005	SX 3287 8235	3.7	3.7	1B	1B	1B	1B	2	2	3
37	LOWLEY BROOK	LANDUE BRIDGE	R12E017	SX 3473 7970	4.0	7.7	1B	1B	1B	1B	2	2	2
38	LOWLEY BROOK	LOWLEY BRIDGE	R12E006	SX 3593 7873	1.8	9.5	1B	1B	1B	1B	2	2	1B
	LOWLEY BROOK	LEW CONFLUENCE (INFERRED STRETCH)			0.6	10.1	1B	1B	1B	1B	2	2	1B
39	LYD	A386 ROADBRIDGE LYDFORD	R12P012	SX 5205 8446	6.5	6.5	1B	1A	2	2	2	2	1A
40	LYD	GREENLANES BRIDGE	R12P001	SX 4436 8325	9.5	16.0	1B	1A	1A	1A	1A	1B	1B
41	LYD	SYDENHAM BRIDGE	R12P011	SX 4288 8388	1.9	17.9	1B	1A	1A	1B	1B	1B	1A
42	LYD	LIFTON BRIDGE	R12P002	SX 3892 8480	5.1	23.0	1B	1B	1B	1B	1B	1B	1B
	LYD	TAMAR CONFLUENCE (INFERRED STRETCH)			2.2	25.2	1B	1B	1B	1B	1B	1B	1B
43	QUITHER BROOK	PRIOR TO RIVER LYD	R12P013	SX 4265 8398	6.7	6.7	1B	1B	1B	1B	1B	1B	1A
44	LEW	COMBEBOW BRIDGE	R12P003	SX 4853 8793	8.4	8.4	1B	1B	1B	1B	1B	1B	1A
45	LEW	PRIOR TO RIVER LYD	R12P004	SX 4410 8340	7.3	15.7	1B	1B	1B	1B	1B	1B	1A
	LEW	LYD CONFLUENCE (INFERRED STRETCH)			0.1	15.8	1B	1B	1B	1B	1B	1B	1A
46	COMBEBOW STREAM	ROAD CULVERT NEAR COMBEBOW QUARRY	R12P010	SX 4881 8798	5.2	5.2	1B	1B					1B
	COMBEBOW STREAM	LEW CONFLUENCE (INFERRED STRETCH)			0.3	5.5	1B	1B					1B
47	THRUSHEL	RIVERMEAD BRIDGE	R12G001	SX 4988 9128	5.9	5.9	1B	1B	2	2	2	1B	1B
48	THRUSHEL	WRIXHILL BRIDGE	R12G002	SX 4655 8985	4.3	10.2	1B	1B	1B	1B	1B	1B	1B
49	THRUSHEL	STOWFORD BRIDGE	R12G003	SX 4280 8735	5.9	16.1	1B	1B	2	2	2	3	3
50	THRUSHEL	TINHAY BRIDGE	R12G004	SX 3938 8538	4.8	20.9	1B	1B	1B	1B	1B	1B	1B
	THRUSHEL	LYD CONFLUENCE (INFERRED STRETCH)			0.5	21.4	1B	1B	1B	1B	1B	1B	1B
51	BREAZLE WATER	PRIOR TO RIVER THRUSHEL	R12G010	SX 4476 8917	5.6	5.6	1B	1B	2	1B	1B	1B	1B
	BREAZLE WATER	THRUSHEL CONFLUENCE (INFERRED STRETCH)			0.1	5.7	1B	1B	2	1B	1B	1B	1B
52	BRATTON BROOK	BRATTON CLOVELLY	R12G009	SX 4676 9202	4.1	4.1	1B	2	3	3	2	1B	1A
	BRATTON BROOK	THRUSHEL CONFLUENCE (INFERRED STRETCH)			2.0	6.1	1B	2	3	3	2	1B	1A
53	WOLF	WEEK'S MILL BRIDGE	R12G005	SX 4461 9423	3.8	3.8	1B	1B	1B	1B	1B	1B	2
54	WOLF	REXON BRIDGE	R12G006	SX 4133 8885	7.5	11.3	1B	1B	1B	1B	1B	1B	1B
55	WOLF	PRIOR TO RIVER THRUSHEL	R12G007	SX 4031 8629	3.6	14.9	1B	1B	2	1B	1B	1B	1B
	WOLF	THRUSHEL CONFLUENCE (INFERRED STRETCH)			0.4	15.3	1B	1B	2	1B	1B	1B	1B
56	BROADWOOD BROOK	KELLACOTT BRIDGE	R12G012	SX 4066 8799	5.9	5.9	1B	2	2	2	1B	1B	1B

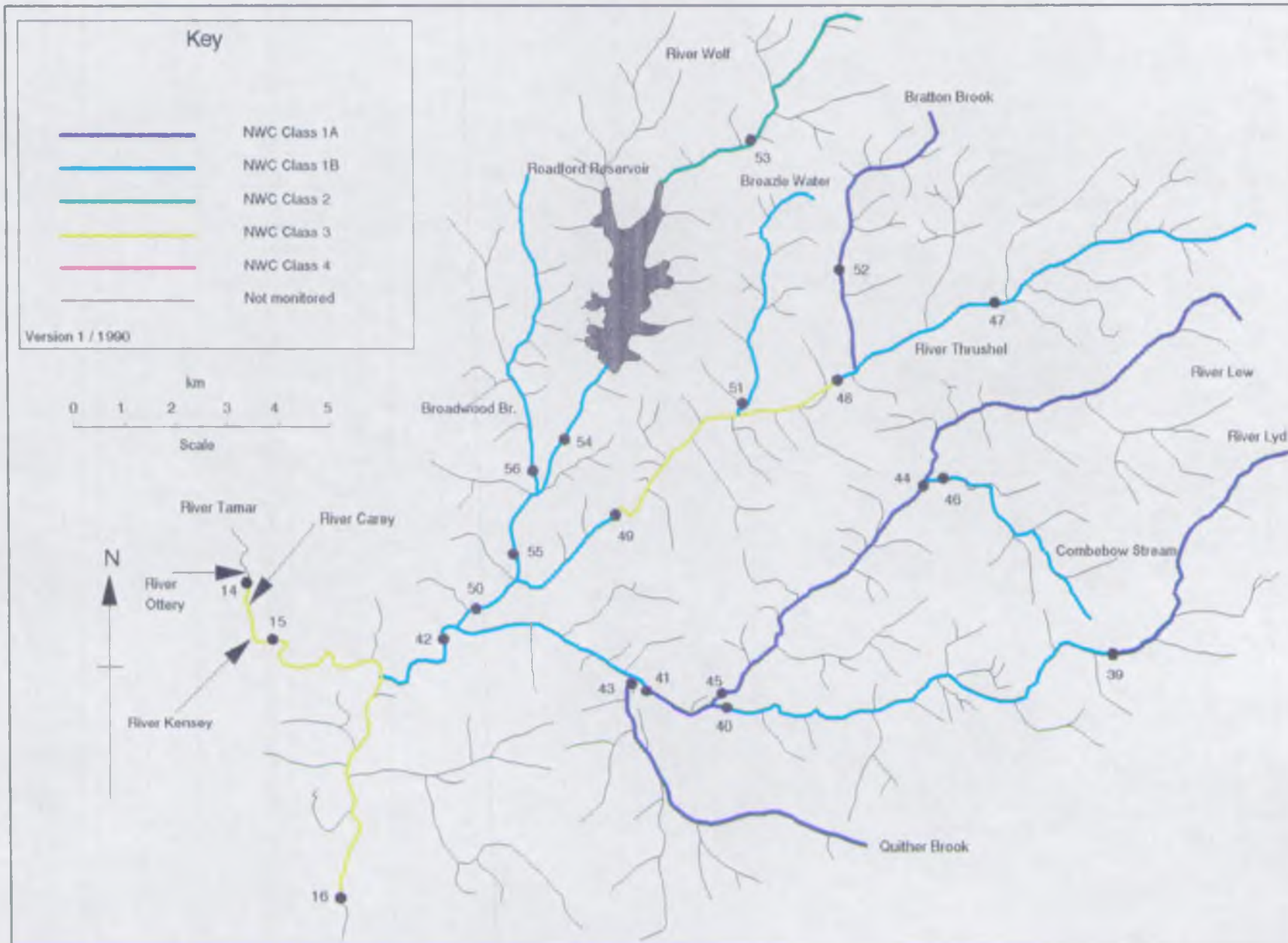
NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
 1990 RIVER WATER QUALITY CLASSIFICATION  
 CATCHMENT: TAMAR (13)

1990 Map Position Number	River	Reach upstream of	User Reference Number	National Grid Reference	Reach Length (km)	Distance from source (km)	River Quality Objective	85 NWC Class	86 NWC Class	87 NWC Class	88 NWC Class	89 NWC Class	90 NWC Class
	BROADWOOD BROOK	WOLF CONFLUENCE (INFERRED STRETCH)			0.4	6.3	1B	2	2	2	1B	1B	1B
57	KENSEY	BADGALL BRIDGE	R12N003	SX 2317 8692	2.4	2.4	1B	1A	3	1B	1B	1B	2
58	KENSEY	BADHARLICK BRIDGE	R12N001	SX 2675 8643	4.2	6.6	1B	1B	2	1B	1B	2	2
59	KENSEY	TRUSCOTT BRIDGE	R12N004	SX 2987 8499	4.0	10.6	1B	1B	2	2	2	2	2
60	KENSEY	NEWPORT	R12N005	SX 3270 8511	3.3	13.9	1B	1B	2	1B	1B	1B	3
61	KENSEY	ST. LEONARDS BRIDGE	R12N002	SX 3517 8478	2.8	16.7	1B	1B	1B	1B	1B	1B	2
	KENSEY	TAMAR CONFLUENCE (INFERRED STRETCH)			0.1	16.8	1B	1B	1B	1B	1B	1B	2
62	TREGEARE STREAM	RED DOWN BRIDGE	R12N006	SX 2671 8628	3.4	3.4	1B		2	1B	1B	2	2
	TREGEARE STREAM	KENSEY CONFLUENCE (INFERRED STRETCH)			0.4	3.8	1B		2	1B	1B	2	2
63	CAREY	HALMILL BRIDGE - QUODITCH	R12H006	SX 4202 9846	3.6	3.6	1A	2	2	2	1B	1B	2
64	CAREY	ASHMILL BRIDGE	R12H001	SX 3935 9534	4.7	8.3	1A	2	2	2	1B	1B	1B
65	CAREY	MIDDLE BRIDGE VIRGINSTOW	R12H007	SX 3710 9263	4.0	12.3	1B	2	2	1B	2	2	2
66	CAREY	TOWERHILL BRIDGE	R12H003	SX 3683 9056	2.4	14.7	1B	2	2	1B	2	2	2
67	CAREY	BOLDFORD BRIDGE	R12H008	SX 3642 8828	2.7	17.4	1B	2	2	2	2	1B	2
68	CAREY	HEALE BRIDGE	R12H002	SX 3600 8631	2.7	20.1	1B	2	2	2	2	1B	1B
	CAREY	TAMAR CONFLUENCE (INFERRED STRETCH)			1.4	21.5	1B	2	2	2	2	1B	1B
69	HENFORD WATER	HENFORD	R12H005	SX 3735 9472	4.3	4.3	1B	2	2	2	2	2	2
	HENFORD WATER	CAREY CONFLUENCE (INFERRED STRETCH)			1.2	5.5	1B	2	2	2	2	2	2
70	OTTERY	OTTERHAM MILL	R12M004	SX 1745 9095	6.0	6.0	1B	2	3	2	2	2	3
71	OTTERY	TRENGUNE BRIDGE	R12M005	SX 1889 9328	3.5	9.5	1B	2	3	2	1B	1B	1B
72	OTTERY	CANWORTHY WATER BRIDGE	R12M001	SX 2240 9173	5.0	14.5	1B	2	2	2	1B	1B	1B
73	OTTERY	HELLESCOTT BRIDGE	R12M002	SX 2855 8777	10.6	25.1	1B	1B	2	2	1B	1B	1B
74	OTTERY	YEOLM BRIDGE	R12M006	SX 3182 8738	4.1	29.2	1B	1B	2	2	2	1B	1B
75	OTTERY	HAM MILL BRIDGE	R12M007	SX 3445 8682	3.4	32.6	1B	1B	2	2	2	1B	1B
	OTTERY	TAMAR CONFLUENCE (INFERRED STRETCH)			0.4	33.0	1B	1B	2	2	2	1B	1B
76	BOLESBRIDGE WATER	200 METRES D/S OF NAVARINO BRIDGE	R12M012	SX 2895 8920	8.0	8.0	1B	2	3	3	2	3	3
	BOLESBRIDGE WATER	OTTERY CONFLUENCE (INFERRED STRETCH)			1.9	9.9	1B	2	3	3	2	3	3
77	CAUDWORTHY WATER	CAUDWORTHY BRIDGE	R12M010	SX 2470 9263	5.7	5.7	1B	2	3	2	1B	1B	1B
78	CAUDWORTHY WATER	PRIOR TO RIVER OTTERY	R12M011	SX 2676 8887	5.9	11.6	1B	2	2	2	1B	1B	1B
	CAUDWORTHY WATER	OTTERY CONFLUENCE (INFERRED STRETCH)			0.1	11.7	1B	2	2	2	1B	1B	1B
79	CANWORTHY WATER	PRIOR TO RIVER OTTERY	R12M008	SX 2240 9147	4.8	4.8	1B		3	1B	1B	2	3
	CANWORTHY WATER	OTTERY CONFLUENCE (INFERRED STRETCH)			0.4	5.2	1B		3	1B	1B	2	3
80	TALA WATER	BRIDGETOWN	R12J006	SX 3418 8913	9.3	9.3	1B	2	2	2	2	2	2
	TALA WATER	TAMAR CONFLUENCE (INFERRED STRETCH)			0.2	9.5	1B	2	2	2	2	2	2
81	LARA LAKE	LARA BRIDGE	R12J005	SX 3407 9591	3.1	3.1	1B	2	2	3	3	3	2

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
 1990 RIVER WATER QUALITY CLASSIFICATION  
 CATCHMENT: TAMAR (13)

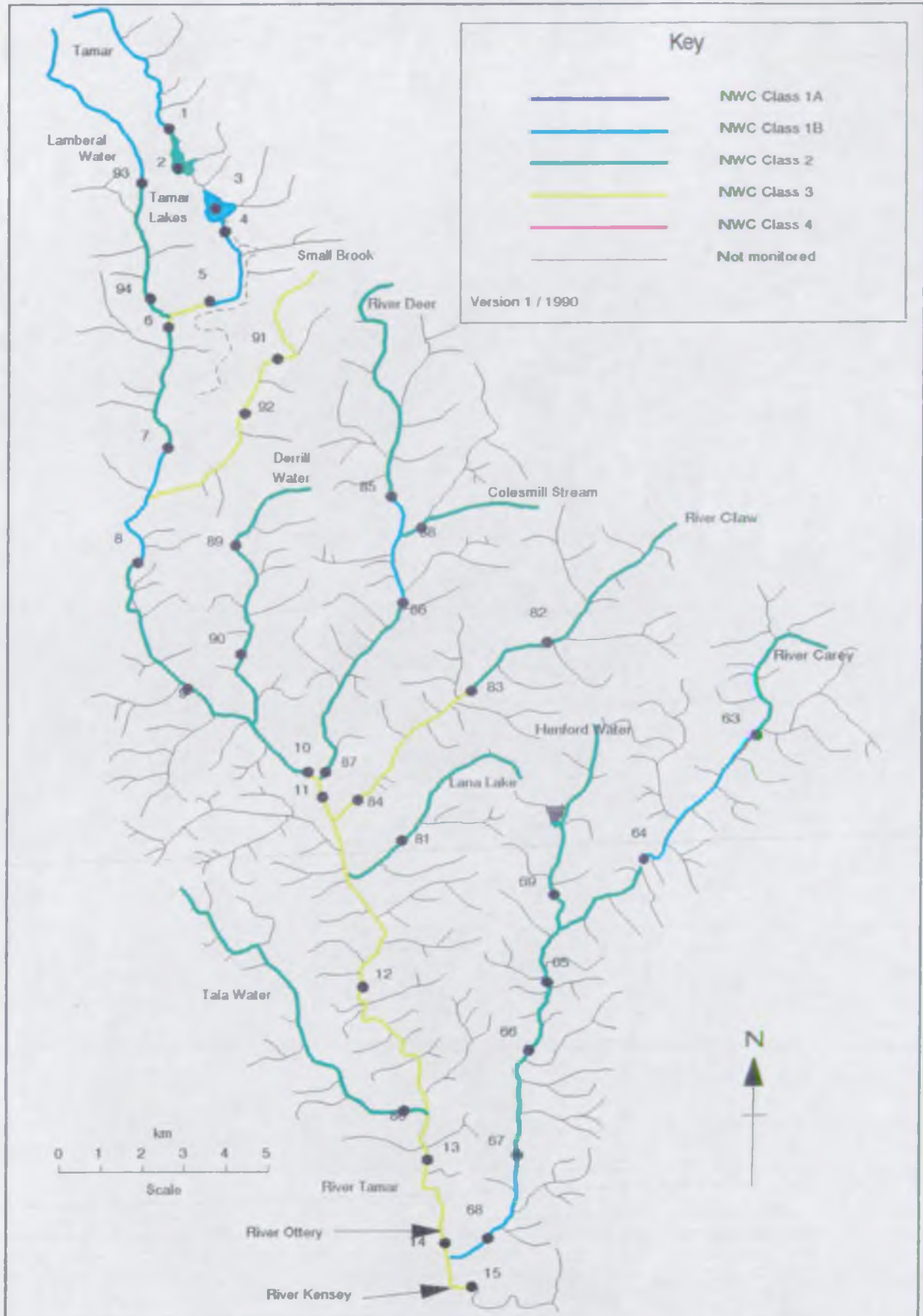
1990 Map Position Number	River	Reach upstream of	User Reference Number	National Grid Reference	Reach Length (km)	Distance from source (km)	River Quality Objective	85 NWC Class	86 NWC Class	87 NWC Class	88 NWC Class	89 NWC Class	90 NWC Class
	LANA LAKE	TAMAR CONFLUENCE (INFERRED STRETCH)			1.8	4.9	1B	2	2	3	3	3	2
82	CLAW	CLAW BRIDGE	R12K016	SS 3746 0071	4.2	4.2	1B	2	2	2	2	2	2
83	CLAW	CLAWTON BRIDGE	R12K001	SX 3533 9932	2.9	7.1	1B	2	2	2	2	2	2
84	CLAW	TETCOTT BRIDGE	R12K002	SX 3267 9692	4.3	11.4	1B	2	2	2	2	2	3
	CLAW	TAMAR CONFLUENCE (INFERRED STRETCH)			0.7	12.1	1B	2	2	2	2	2	3
85	DEER	RYDON BRIDGE	R12K003	SS 3356 0415	6.8	6.8	1B	2	2	2	2	2	2
86	DEER	WINSCOTT BRIDGE	R12K004	SS 3386 0142	3.8	10.6	1B	2	2	2	2	2	1B
87	DEER	DEER BRIDGE	R12K005	SX 3195 9741	6.0	16.6	1B	2	2	2	2	2	2
	DEER	TAMAR CONFLUENCE (INFERRED STRETCH)			0.2	16.8	1B	2	2	2	2	2	2
88	COLESMILL STREAM	100 METRES BELOW OF HOLSWORTHY STW	R12K007	SS 3387 0317	3.3	3.3	2	2					2
	COLESMILL STREAM	DEER CONFLUENCE (INFERRED STRETCH)			0.2	3.5	2	2					2
89	DERRIL WATER	DUX BRIDGE	R12L012	SS 2962 0272	2.7	2.7	1B	2			2	2	2
90	DERRIL WATER	DUALSTONE BRIDGE	R12L005	SS 3013 0058	2.5	5.2	1B	2			2	2	2
	DERRIL WATER	TAMAR CONFLUENCE (INFERRED STRETCH)			2.2	7.4	1B	2			2	2	2
91	SMALL BROOK	HEADON BRIDGE	R12L011	SS 3100 0731	3.7	3.7	1B				3	3	3
92	SMALL BROOK	YOULDON BRIDGE	R12L008	SS 2995 0528	2.5	6.2	1B				3	3	3
	SMALL BROOK	TAMAR CONFLUENCE (INFERRED STRETCH)			2.9	9.1	1B				3	3	3
93	LAMBERAL WATER	FORDA	R12L010	SS 2771 1119	5.3	5.3	1B	2	2	2	2	2	1B
94	LAMBERAL WATER	MORETON POUND BRIDGE	R12L007	SS 2756 0893	3.2	8.5	1B	2	2	2	2	2	2
	LAMBERAL WATER	TAMAR CONFLUENCE (INFERRED STRETCH)			1.1	9.6	1B	2	2	2	2	2	2

# Lyd, Thrushel & Wolf Catchments Water Quality - 1990

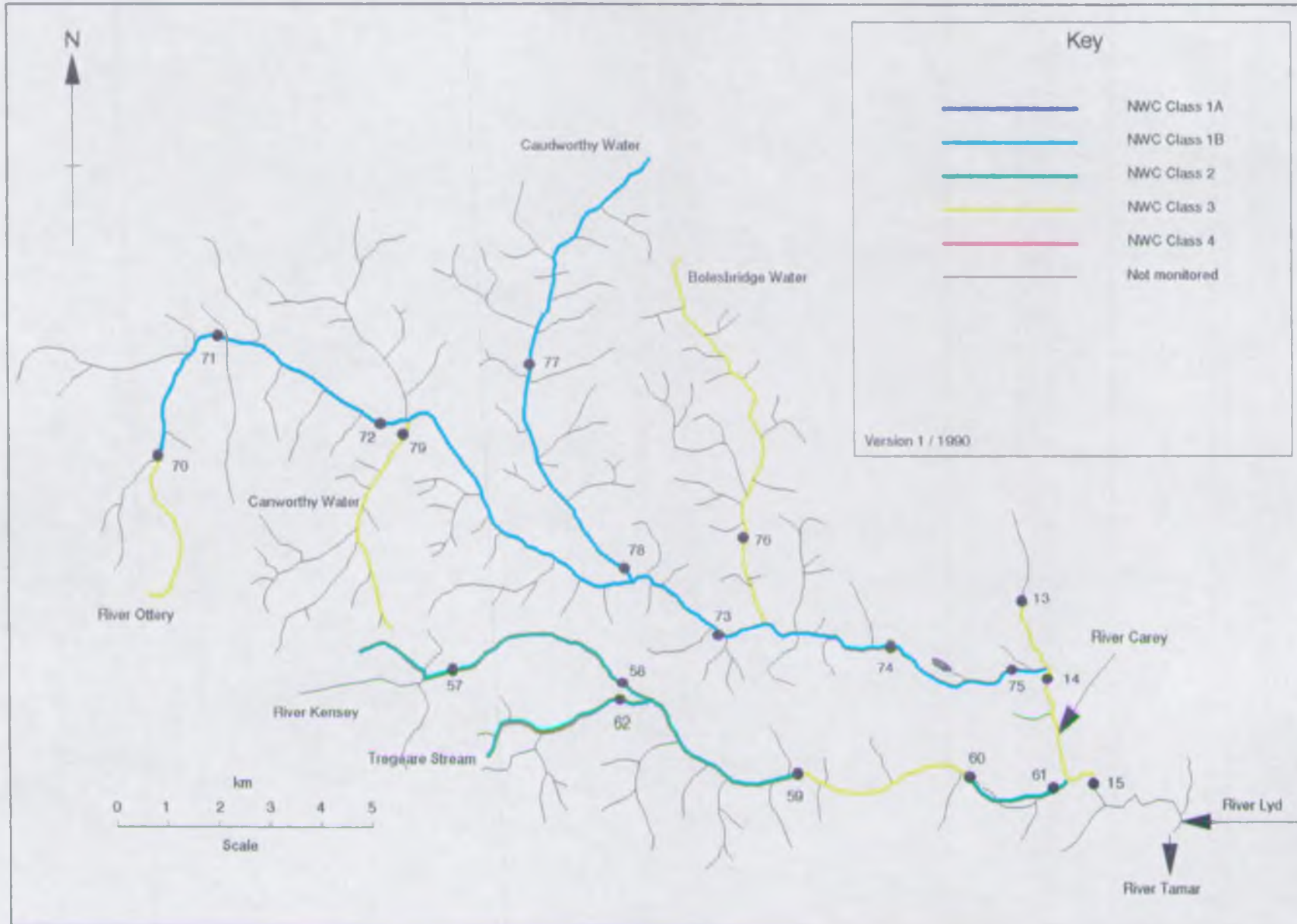




# Upper Tamar Catchment Water Quality - 1990

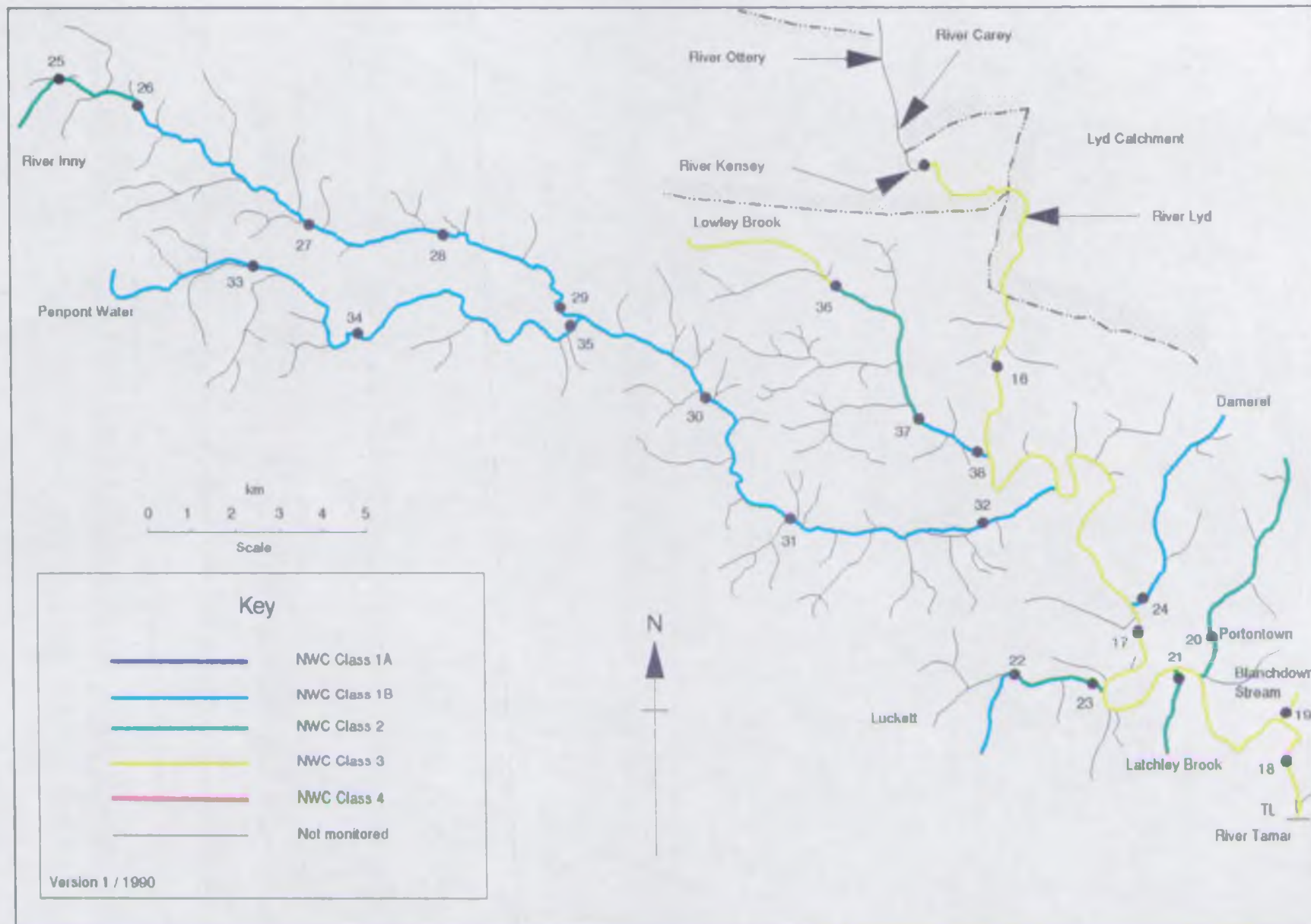


# Ottery & Kensey Catchments Water Quality - 1990





# Inny Catchment Water Quality - 1990





NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
 1990 RIVER WATER QUALITY CLASSIFICATION  
 CALCULATED DETERMINAND STATISTICS USED FOR QUALITY ASSESSMENT  
 CATCHMENT: TWPFR (13)

River	Reach upstream of	Uber Ref. Number	90 N/C Class	Calculated Determinand Statistics used for Quality Assessment																			
				pH Lower Class		pH Upper Class		Temperature Class		DO (%) Class		BOD (AGU) Class		Total Ammonia Class		Union. Ammonia Class		S.Solids Class		Total Copper Class		Total Zinc Class	
				Mean	95tile	Mean	95tile	Mean	95tile	Mean	95tile	Mean	95tile	Mean	95tile	Mean	95tile	Mean	95tile	Mean	95tile	Mean	95tile
TWPFR	ELEGES BRIDGE	[RL2L001]	1B	1A	6.6	1A	7.7	1A	15.6	1B	73.2	1B	4.2	1B	0.615	1A	0.010	1A	8.9	1A	5.8	1A	18.5
TWPFR	UPPER TWPFR LAKE	[RL2L017]	2	1A	7.0	1A	7.5	1A	18.9	2	48.0	2	5.6	1B	0.680	1A	0.010	1A	10.6	-	-	-	-
TWPFR	LOWER TWPFR LAKE	[RL2L018]	1B	1A	6.9	1A	7.5	1A	18.8	1B	68.0	1B	4.8	1A	0.190	1A	0.010	1A	19.1	-	-	-	-
TWPFR	POOIBRIDGE BELOW LOWER TWPFR LAKE	[RL2L009]	1B	1A	6.5	1A	7.6	1A	18.8	1B	63.4	1B	3.9	1A	0.202	1A	0.010	1A	14.7	1A	5.2	1A	11.2
TWPFR	DEESEER BRIDGE	[RL2L006]	1B	1A	6.6	1A	7.7	1A	16.1	1B	67.6	1B	4.8	1B	0.406	1A	0.010	1A	13.9	1A	6.6	1A	9.3
TWPFR	DORREON MILL	[RL2L016]	3	1A	6.9	1A	7.6	1A	16.5	1B	80.0	1B	3.4	1A	0.270	1A	0.010	3	25.4	1A	5.0	1A	18.0
TWPFR	TWPARSTONE BRIDGE	[RL2L002]	2	1A	6.7	1A	7.7	1A	16.8	2	48.6	2	5.8	1B	0.450	1A	0.010	1A	22.1	1A	10.2	1A	48.4
TWPFR	BRIDGEVILLE	[RL2L015]	1B	1A	6.6	1A	7.9	1A	17.3	1B	67.9	1B	4.4	1B	0.381	1A	0.010	1A	22.6	1A	7.0	1A	97.7
TWPFR	CHRONFO BRIDGE	[RL2L003]	2	1A	6.8	1A	8.2	1A	17.6	1B	69.6	2	8.9	2	0.840	1A	0.010	1A	24.4	1A	32.5	1A	293.0
TWPFR	DIMENSION BRIDGE	[RL2L004]	2	1A	6.7	1A	8.0	1A	17.7	1B	61.6	2	8.5	1B	0.683	1A	0.010	1A	23.9	1A	6.2	1A	20.8
TWPFR	BELOW CONFLUENCE WITH RIVER DEER	[RL2L013]	3	1A	6.9	1A	7.6	1A	17.8	1B	76.0	2	5.1	1B	0.370	1A	0.010	3	42.1	1A	7.0	1A	27.0
TWPFR	BOYTON BRIDGE	[RL2J001]	3	1A	6.7	1A	7.8	1A	17.4	2	46.2	2	6.4	1B	0.442	1A	0.010	3	26.7	1A	7.1	1A	51.2
TWPFR	DUNSTON BRIDGE	[RL2J002]	3	1A	6.9	1A	8.7	1A	17.9	3	39.0	3	10.2	1B	0.588	1A	0.010	3	32.0	1A	9.3	1A	29.3
TWPFR	NEEDERBRIDGE	[RL2J003]	3	1A	6.8	1A	8.5	1A	17.8	1B	62.8	2	7.6	1B	0.584	1A	0.010	3	30.7	1A	8.2	1A	39.8
TWPFR	POLSON BRIDGE	[RL2J004]	3	1A	6.6	1A	7.6	1A	17.7	1B	62.0	2	5.7	1B	0.468	1A	0.010	3	35.1	1A	10.0	1A	49.3
TWPFR	GRESHAM BRIDGE	[RL2ED01]	3	1A	6.7	1A	7.6	1A	17.3	1B	64.0	2	6.6	1B	0.410	1A	0.010	3	40.3	1A	12.4	1A	92.2
TWPFR	HORSEBRIDGE	[RL2ED02]	3	1A	6.8	1A	7.9	1A	17.2	1B	77.0	1B	4.7	1A	0.240	1A	0.010	3	31.3	1A	10.0	1A	44.0
TWPFR	GUNNLSLAKE BRIDGE	[RL2ED03]	3	1A	6.8	1A	7.8	1A	19.2	1B	74.2	2	7.2	1A	0.238	1A	0.010	3	32.9	1A	26.0	1A	50.0
BLANCHDOWN STREAM	PRIOR TO RIVER TWPFR	[RL2ED04]	3	3	3.3	1A	7.4	1A	16.0	1B	75.0	1A	2.0	1B	0.605	1A	0.010	3	29.2	2	10383.0	3	2324.0
ROTHDOWN STREAM	GREENOVN WOOD	[RL2ED15]	2	1A	7.0	1A	7.8	1A	15.4	2	59.4	1B	3.3	1A	0.135	1A	0.010	1A	10.3	1A	6.9	1A	174.0
LATCHLEY BROOK	LATCHLEY	[RL2ED28]	2	1A	6.2	1A	7.3	1A	16.8	1A	83.2	1A	1.8	1A	0.069	1A	0.010	1A	5.1	2	160.0	2	560.0
ILCREIT	OLDMILL	[RL2ED16]	1B	1A	6.6	1A	7.7	1A	16.4	1B	71.7	1A	2.7	1A	0.129	1A	0.010	1A	6.7	1A	25.0	1A	177.0
ILCREIT	ILCREIT BRIDGE	[RL2ED07]	2	1A	6.9	1A	7.7	1A	14.7	1B	67.2	1A	3.0	1A	0.110	1A	0.010	1A	8.8	2	75.6	2	540.0
DUNNEL STREAM	PRIOR TO RIVER TWPFR	[RL2ED14]	1B	1A	7.1	1A	8.0	1A	16.4	1B	62.3	1B	3.2	1A	0.110	1A	0.010	1A	11.0	1A	25.6	1A	138.0
IRRY	UPSTREAM OF DIVISION CREEK	[RL2P001]	2	1A	6.4	1A	7.5	1A	15.0	2	56.7	2	6.0	2	1.147	1A	0.010	1A	10.0	1A	7.6	1A	72.8
IRRY	TRENDOWN BRIDGE	[RL2P002]	2	1A	6.5	1A	7.9	1A	15.3	2	56.8	2	5.6	1B	0.615	1A	0.013	1A	8.0	1A	8.7	1A	188.9
IRRY	ST. CLEVER BRIDGE	[RL2P003]	1B	1A	7.0	1A	8.1	1A	15.2	1B	67.0	1B	4.8	1B	0.335	1A	0.010	1A	12.8	1A	18.8	1A	131.6
IRRY	COMPLEY'S MILL	[RL2P012]	1B	1A	6.8	1A	8.1	1A	16.0	1A	82.5	1B	4.0	1A	0.131	1A	0.010	1A	11.5	1A	8.0	1A	23.0
IRRY	TWO BRIDGES	[RL2P004]	1B	1A	7.0	1A	8.1	1A	16.5	1B	63.2	1B	3.4	1A	0.250	1A	0.010	1A	24.7	1A	8.4	1A	27.2
IRRY	TRENBELLARD BRIDGE	[RL2P005]	1B	1A	6.9	1A	7.9	1A	16.3	1B	71.8	1B	3.1	1A	0.153	1A	0.010	1A	13.6	1A	7.0	1A	28.4
IRRY	TRENBELL BRIDGE	[RL2P013]	1B	1A	6.4	1A	7.9	1A	16.9	1A	84.6	1A	2.3	1B	0.341	1A	0.010	1A	10.6	1A	15.0	1A	57.0
IRRY	BENLS MILL BRIDGE	[RL2P006]	1B	1A	7.0	1A	8.0	1A	17.0	1B	67.8	1B	3.1	1A	0.110	1A	0.010	1A	15.1	1A	23.2	1A	67.8
PENFONT WATER	WELON BRIDGE	[RL2P010]	1B	1A	5.7	1A	7.3	1A	16.3	1B	63.0	1B	3.4	1A	0.125	1A	0.010	1A	5.5	1A	5.9	1A	52.6
PENFONT WATER	ACERDAN BRIDGE	[RL2P007]	1B	1A	6.2	1A	7.7	1A	15.6	1B	76.3	1A	2.6	1A	0.095	1A	0.010	1A	4.8	1A	17.1	1A	33.8
PENFONT WATER	TWO BRIDGES	[RL2P008]	1B	1A	6.6	1A	7.8	1A	16.0	1B	74.0	1A	3.0	1A	0.060	1A	0.010	1A	9.3	1A	8.6	1A	38.0
LOWLEY BROOK	LANDLAKE BRIDGE	[RL2ED05]	3	1A	6.9	1A	8.4	1A	16.6	1B	79.0	2	8.6	1B	0.698	1A	0.010	3	31.4	1A	18.0	1A	67.0

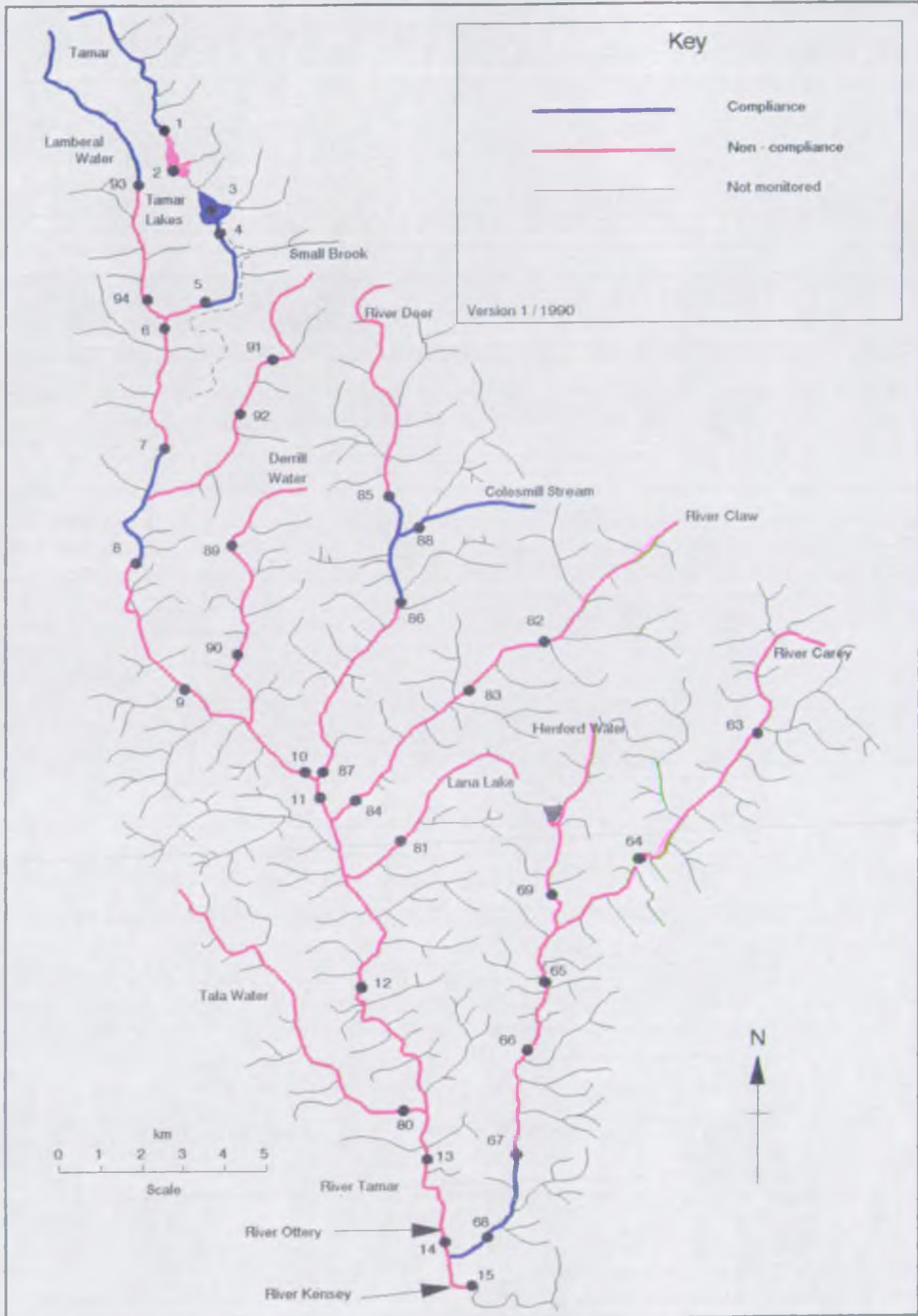
NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
 1990 RIVER WATER QUALITY CLASSIFICATION  
 CALCULATED DETERMINAND STATISTICS USED FOR QUALITY ASSESSMENT  
 CRUICKMENT: DPMR (13)

River	Reach upstream of	User Ref. Number	90 FWC Class	Calculated Determinand Statistics used for Quality Assessment																			
				pH Lower Class	pH Lower 5tile	pH Upper Class	pH Upper 95tile	Temperature Class	Temperature 95tile	DD (%) Class	DD (%) 5tile	BOD (RTU) Class	BOD (RTU) 95tile	Total Ammonia Class	Total Ammonia 95tile	Union. Ammonia Class	Union. Ammonia 95tile	S.Solids Class	S.Solids Mean	Total Copper Class	Total Copper 95tile	Total Zinc Class	Total Zinc 95tile
LOWLEY BROOK	LANDLE BRIDGE	[RL2E017]	2	1A	7.0	1A	8.0	1A	15.8	1B	75.7	2	6.2	1A	0.128	1A	0.010	1A	14.8	1A	11.0	1A	45.0
LOWLEY BROOK	LOWLEY BRIDGE	[RL2E006]	1B	1A	7.1	1A	7.9	1A	15.5	1B	62.4	1B	5.0	1A	0.157	1A	0.010	1A	15.6	1A	12.2	1A	76.7
LXD	A386 ROAD BRIDGE LIDFORD	[RL2F012]	1A	1A	5.2	1A	7.2	1A	15.7	1A	88.7	1A	2.9	1A	0.081	1A	0.010	1A	9.8	1A	5.0	1A	5.7
LXD	GREENLANES BRIDGE	[RL2F001]	1B	1A	6.4	1A	7.5	1A	16.7	1A	84.0	1B	3.1	1A	0.180	1A	0.010	1A	3.3	1A	6.0	1A	7.4
LXD	SIDENHAM BRIDGE	[RL2F011]	1A	1A	6.8	1A	8.0	1A	16.4	1A	91.3	1A	2.8	1A	0.118	1A	0.010	1A	4.3	1A	5.9	1A	14.9
LXD	LIPTON BRIDGE	[RL2F002]	1B	1A	6.9	1A	7.7	1A	18.0	1A	88.1	1B	3.2	1A	0.140	1A	0.010	1A	6.5	1A	6.6	1A	75.4
QUETHER BROOK	PRIOR TO RIVER LXD	[RL2F013]	1A	1A	6.9	1A	7.7	1A	16.0	1A	85.3	1A	2.4	1A	0.094	1A	0.010	1A	8.0	1A	23.9	1A	8.0
LEW	COMBELOW BRIDGE	[RL2F003]	1A	1A	7.0	1A	7.8	1A	16.2	1A	89.5	1A	2.8	1A	0.193	1A	0.010	1A	5.9	1A	5.0	1A	9.2
LEW	PRIOR TO RIVER LXD	[RL2F004]	1A	1A	6.7	1A	8.1	1A	16.5	1A	86.9	1A	2.8	1A	0.131	1A	0.010	1A	7.0	1A	10.8	1A	27.0
COMBELOW STREAM	ROAD CLEVERT NEAR COMBELOW QUARRY	[RL2F010]	1B	1A	6.8	1A	7.5	1A	14.5	1A	87.0	1B	3.2	1A	0.290	1A	0.010	1A	24.1	-	-	-	-
THRESHEL	RIVERHEAD BRIDGE	[RL2G001]	1B	1A	6.7	1A	7.5	1A	15.8	1B	64.8	1A	3.0	1B	0.477	1A	0.010	1A	4.6	1A	5.7	1A	12.7
THRESHEL	MIDSHILL BRIDGE	[RL2G002]	1B	1A	6.8	1A	7.5	1A	15.6	1B	68.8	1B	4.1	1A	0.305	1A	0.010	1A	6.0	1A	10.5	1A	16.3
THRESHEL	STONFORD BRIDGE	[RL2G003]	3	1A	6.9	1A	8.0	1A	18.5	1B	70.3	1B	3.6	2	0.910	3	0.030	1A	8.0	1A	6.7	1A	10.7
THRESHEL	TINHAY BRIDGE	[RL2G004]	1B	1A	6.9	1A	7.7	1A	17.8	1A	84.1	1B	3.4	1A	0.176	1A	0.010	1A	7.5	1A	6.0	1A	13.6
BRENZLE WIDER	PRIOR TO RIVER THRESHEL	[RL2G010]	1B	1A	6.9	1A	7.6	1A	15.6	1A	80.4	1B	3.3	1A	0.172	1A	0.010	1A	10.0	1A	6.0	1A	16.8
BRATTON BROOK	BRATTON CLOVELLY	[RL2G009]	1A	1A	6.8	1A	7.5	1A	14.8	1A	81.6	1A	2.6	1A	0.266	1A	0.010	1A	5.8	1A	5.0	1A	14.5
WOLF	WEEK'S MILL BRIDGE	[RL2G005]	2	1A	6.5	1A	7.5	1A	16.5	1B	79.3	1B	3.1	1B	0.335	1A	0.010	1A	4.4	2	23.3	1A	37.5
WOLF	RENOY BRIDGE	[RL2G006]	1B	1A	6.8	1A	7.6	1A	18.3	1B	75.5	1B	3.1	1B	0.360	1A	0.010	1A	7.0	1A	11.0	1A	14.0
WOLF	PRIOR TO RIVER THRESHEL	[RL2G007]	1B	1A	6.7	1A	7.7	1A	17.8	1B	77.9	1B	3.3	1A	0.154	1A	0.010	1A	8.0	1A	10.8	1A	19.6
BROADWOOD BROOK	KELLACOTT BRIDGE	[RL2G012]	1B	1A	6.9	1A	7.6	1A	15.5	1B	78.8	1B	3.1	1A	0.168	1A	0.010	1A	6.6	1A	5.0	1A	27.2
KENSEY	BRADGILL BRIDGE	[RL2N003]	2	1A	6.6	1A	7.5	1A	14.8	1A	84.3	1B	4.8	1A	0.298	1A	0.010	1A	17.6	1A	9.5	2	238.5
KENSEY	BACHINBLICK BRIDGE	[RL2N001]	2	1A	6.7	1A	7.5	1A	15.0	1A	82.0	2	6.1	1B	0.625	1A	0.010	1A	14.6	1A	18.5	1A	109.0
KENSEY	TRUSCOTT BRIDGE	[RL2N004]	2	1A	6.8	1A	7.6	1A	15.0	1B	78.8	2	6.2	2	0.750	1A	0.010	1A	9.9	1A	22.1	1A	104.5
KENSEY	NEWPORT	[RL2N005]	3	1A	6.8	1A	8.0	1A	16.2	1B	79.8	2	7.9	1B	0.373	1A	0.010	3	26.6	1A	12.8	1A	91.3
KENSEY	ST. LEONARDS BRIDGE	[RL2N002]	2	1A	6.9	1A	7.9	1A	15.7	1A	84.1	2	5.3	1A	0.292	1A	0.010	1A	20.8	1A	14.3	1A	59.0
TREGEARE STREAM	RED DOWN BRIDGE	[RL2N006]	2	1A	6.6	1A	7.4	1A	15.6	1A	81.6	1B	4.7	2	0.920	1A	0.010	1A	18.0	1A	10.8	1A	47.4
CAREY	HADNELL BRIDGE - QUODITCH	[RL2H005]	2	1A	6.6	1A	7.9	1A	15.8	1B	71.8	2	8.4	2	0.765	1A	0.010	1A	13.3	1A	13.0	1A	16.0
CAREY	ASHMILL BRIDGE	[RL2H001]	1B	1A	6.7	1A	7.7	1A	16.1	1B	60.5	1B	4.5	1B	0.352	1A	0.010	1A	15.3	1A	21.9	1A	24.1
CAREY	MIDDLE BRIDGE VIRGINSTON	[RL2H007]	2	1A	6.6	1A	7.6	1A	16.2	1B	79.1	2	5.3	1B	0.499	1A	0.010	1A	14.5	1A	11.0	1A	20.0
CAREY	TOWNHILL BRIDGE	[RL2H003]	2	1A	6.7	1A	7.6	1A	16.5	2	44.8	2	5.2	1B	0.442	1A	0.010	1A	22.4	1A	13.5	1A	23.3
CAREY	BOLDFORD BRIDGE	[RL2H008]	2	1A	6.6	1A	7.8	1A	18.5	1B	77.2	1B	4.4	2	1.262	1A	0.020	1A	12.0	1A	6.0	1A	13.0
CAREY	HEALE BRIDGE	[RL2H002]	1B	1A	6.7	1A	7.6	1A	17.4	1B	63.0	1B	4.9	1B	0.459	1A	0.010	1A	21.5	1A	14.3	1A	22.5

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
 1990 RIVER WATER QUALITY CLASSIFICATION  
 CALCULATED DETERMINAND STATISTICS USED FOR QUALITY ASSESSMENT  
 CRUICK: TMFR (13)

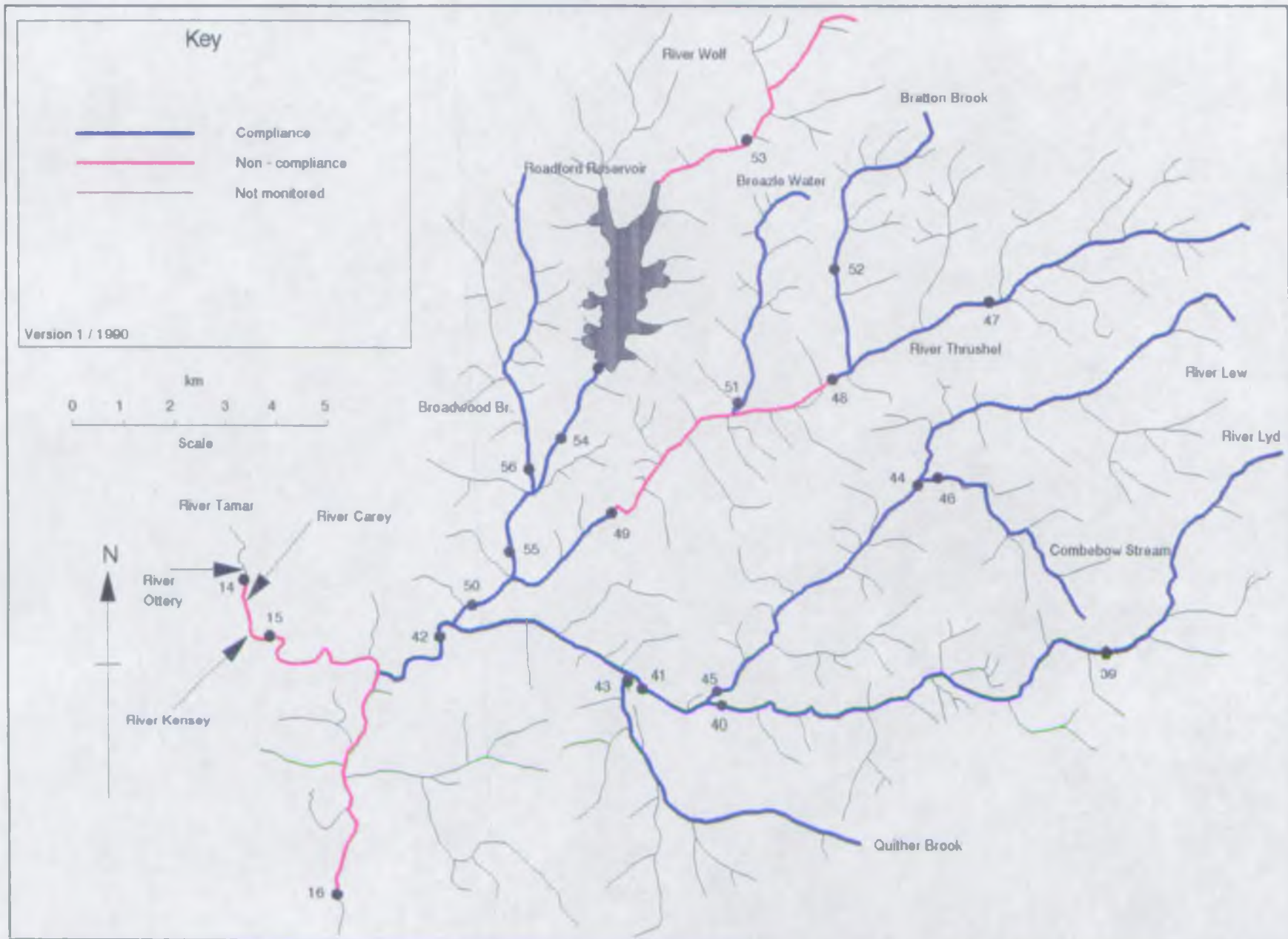
River	Reach upstream of	User Ref. Number	90 NWC Class	Calculated Determinand Statistics used for Quality Assessment																			
				pH Lower Class 5kile		pH Upper Class 95kile		Temperature Class 95kile		DO (%) Class 5kile		BOD (AUI) Class 95kile		Total Ammonia Class 95kile		Union. Ammonia Class 95kile		S.Solids Class Mean		Total Copper Class 95kile		Total Zinc Class 95kile	
HENFORD WATER	HENFORD	RL2H005	2	1A	6.7	1A	7.5	1A	13.5	2	50.3	1B	4.7	1B	0.482	1A	0.010	1A	13.7	1A	8.0	1A	15.0
OTTERY	OTTERHAM MILL	RL2M004	3	1A	6.6	1A	7.4	1A	15.9	1B	79.8	2	6.3	2	1.225	1A	0.010	3	25.0	1A	16.1	1A	174.2
OTTERY	PINEGLANE BRIDGE	RL2M005	1B	1A	6.8	1A	7.7	1A	16.9	1A	83.8	1B	4.6	1B	0.450	1A	0.010	1A	22.7	1A	11.2	1A	69.8
OTTERY	CHROMORHY WATER BRIDGE	RL2M001	1B	1A	6.8	1A	8.3	1A	19.2	1A	81.0	1B	4.4	1B	0.475	1A	0.010	1A	12.1	1A	6.3	1A	31.0
OTTERY	HELLESCOTT BRIDGE	RL2M002	1B	1A	6.8	1A	7.7	1A	18.2	1B	80.0	1B	3.2	1B	0.350	1A	0.010	1A	9.9	1A	6.0	1A	22.2
OTTERY	YEDLMEBRIDGE	RL2M006	1B	1A	6.9	1A	7.8	1A	18.5	1B	78.0	1A	2.8	1A	0.248	1A	0.010	1A	8.2	1A	6.5	1A	16.5
OTTERY	WPM MILL BRIDGE	RL2M007	1B	1A	6.9	1A	7.9	1A	18.6	1A	80.6	1B	3.1	1A	0.264	1A	0.010	1A	6.5	1A	7.0	1A	19.9
BOLESBRIDGE WATER	200 METRES D/S OF WALFORD BRIDGE	RL2M012	3	1A	6.9	1A	7.5	1A	16.0	2	40.6	3	16.0	3	1.675	1A	0.010	1A	19.2	1A	7.0	1A	23.5
CHROMORHY WATER	CHROMORHY BRIDGE	RL2M010	1B	1A	6.9	1A	7.6	1A	16.0	1B	67.6	1B	4.3	1A	0.294	1A	0.010	1A	13.4	1A	5.5	1A	25.5
CHROMORHY WATER	BRIDGE PRIOR TO RIVER OTTERY	RL2M011	1B	1A	6.9	1A	7.7	1A	15.7	1B	72.0	1B	3.1	1B	0.361	1A	0.010	1A	20.4	1A	5.0	1A	11.0
CHROMORHY WATER	BRIDGE PRIOR TO RIVER OTTERY	RL2M008	3	1A	6.7	1A	7.6	1A	15.6	1B	76.8	1B	3.9	1B	0.520	1A	0.010	3	35.5	1A	23.6	1A	224.2
DINA WATER	BRIDGELOW	RL2X006	2	1A	6.6	1A	7.6	1A	16.0	2	56.0	1B	4.7	1B	0.641	1A	0.010	1A	13.3	1A	11.8	1A	197.8
LAWA LAKE	LAWA BRIDGE	RL2X005	2	1A	6.7	1A	7.5	1A	15.9	2	53.5	2	6.9	2	1.300	1A	0.010	1A	24.0	1A	8.6	1A	19.2
CLAW	CLAW BRIDGE	RL2M016	2	1A	6.7	1A	7.8	1A	17.5	2	46.4	2	5.4	2	1.010	1A	0.010	1A	11.7	1A	6.0	1A	26.3
CLAW	CLAWSON BRIDGE	RL2M001	2	1A	6.6	1A	8.2	1A	18.1	1B	61.5	1B	4.5	2	0.715	1A	0.010	1A	11.4	1A	10.5	1A	12.8
CLAW	DETCOTT BRIDGE	RL2M002	3	1A	6.7	1A	7.7	1A	16.8	3	33.2	1B	4.7	1B	0.674	1A	0.010	1A	16.2	1A	16.1	1A	59.0
DEER	WIDEN BRIDGE	RL2M003	2	1A	6.6	1A	7.7	1A	16.0	2	53.5	1B	4.3	1B	0.697	1A	0.010	1A	10.5	1A	7.0	1A	17.8
DEER	WINSKOTT BRIDGE	RL2M004	1B	1A	6.6	1A	7.7	1A	17.0	1B	64.1	1B	4.9	1B	0.518	1A	0.010	1A	12.7	1A	10.0	1A	36.5
DEER	DEER BRIDGE	RL2M005	2	1A	6.8	1A	7.8	1A	17.5	2	57.0	1B	5.0	1A	0.305	1A	0.010	1A	12.9	1A	7.4	1A	30.4
GILESFILL STREAM	100 METRES BELOW OF HELLSBOROYH SIM	RL2M007	2	1A	6.5	1A	7.8	1A	17.8	1B	60.2	1B	4.7	2	0.965	1A	0.010	1A	11.6	1A	12.7	1A	25.0
DERAIL WATER	DUX BRIDGE	RL2L012	2	1A	6.9	1A	7.6	1A	15.3	1B	66.9	2	6.9	1B	0.573	1A	0.010	1A	20.6	1A	11.3	1A	99.3
DERAIL WATER	DUNSTONE BRIDGE	RL2L005	2	1A	6.9	1A	7.6	1A	15.9	2	48.0	1B	4.8	1B	0.490	1A	0.010	1A	18.8	1A	5.0	1A	15.0
SMALL BROOK	HENDON BRIDGE	RL2L011	3	1A	6.7	1A	7.5	1A	15.1	2	54.1	2	7.3	3	1.580	1A	0.010	1A	18.4	1A	6.7	1A	15.5
SMALL BROOK	WOLDON BRIDGE	RL2L008	3	1A	6.7	1A	7.5	1A	15.9	2	50.0	2	8.8	3	1.828	1A	0.010	1A	17.1	1A	14.6	1A	16.0
LAMBERAL WATER	FORNA	RL2L010	1B	1A	6.9	1A	7.8	1A	15.4	1B	72.2	1B	3.9	1B	0.332	1A	0.010	1A	8.6	1A	5.7	1A	13.4
LAMBERAL WATER	MORETON FORD BRIDGE	RL2L007	2	1A	6.6	1A	7.6	1A	16.5	2	57.1	2	5.2	1B	0.679	1A	0.010	1A	17.4	1A	12.3	1A	18.1

# Upper Tamar Catchment Compliance - 1990

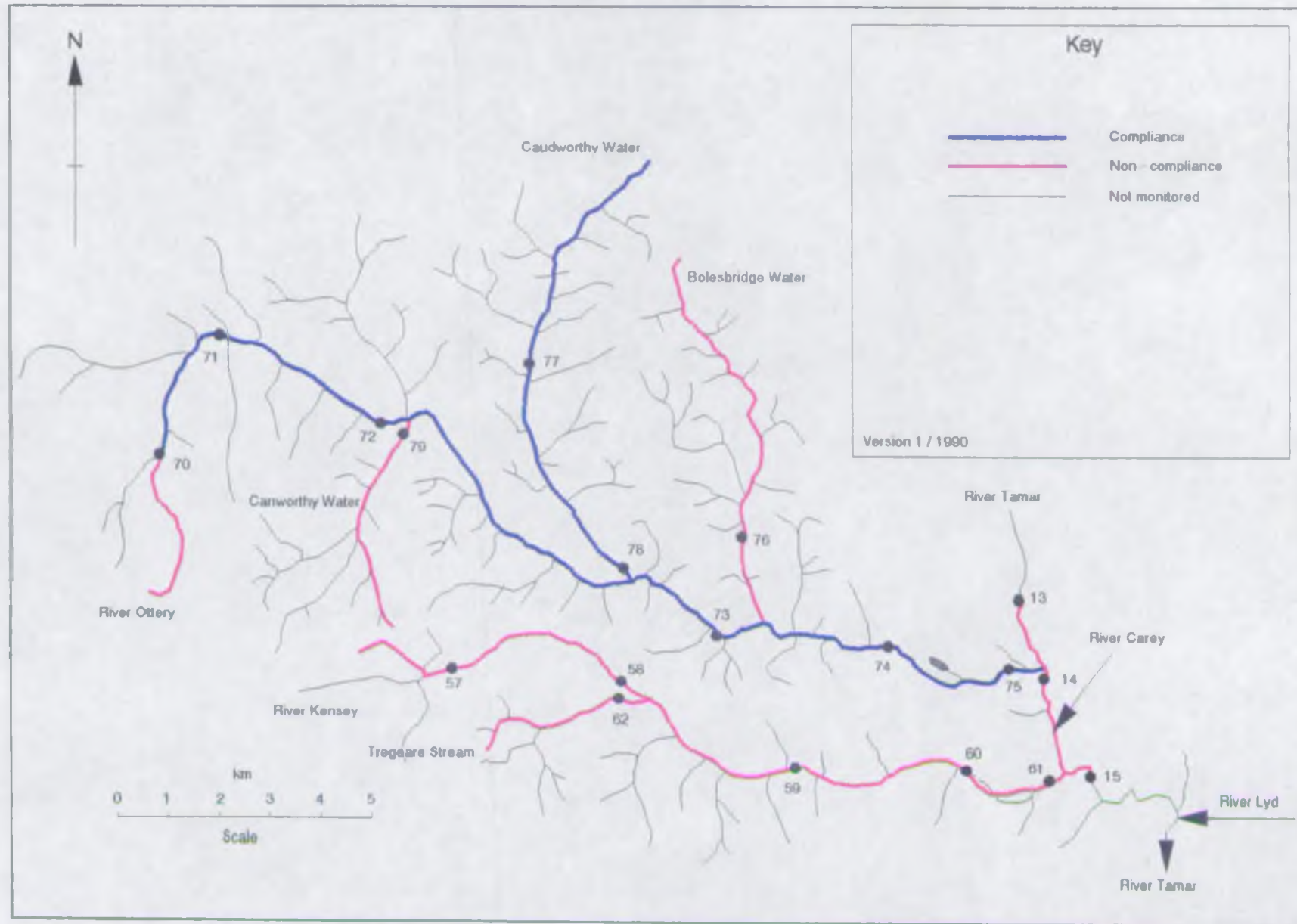




# Lyd, Thrushel & Wolf Catchments Compliance - 1990

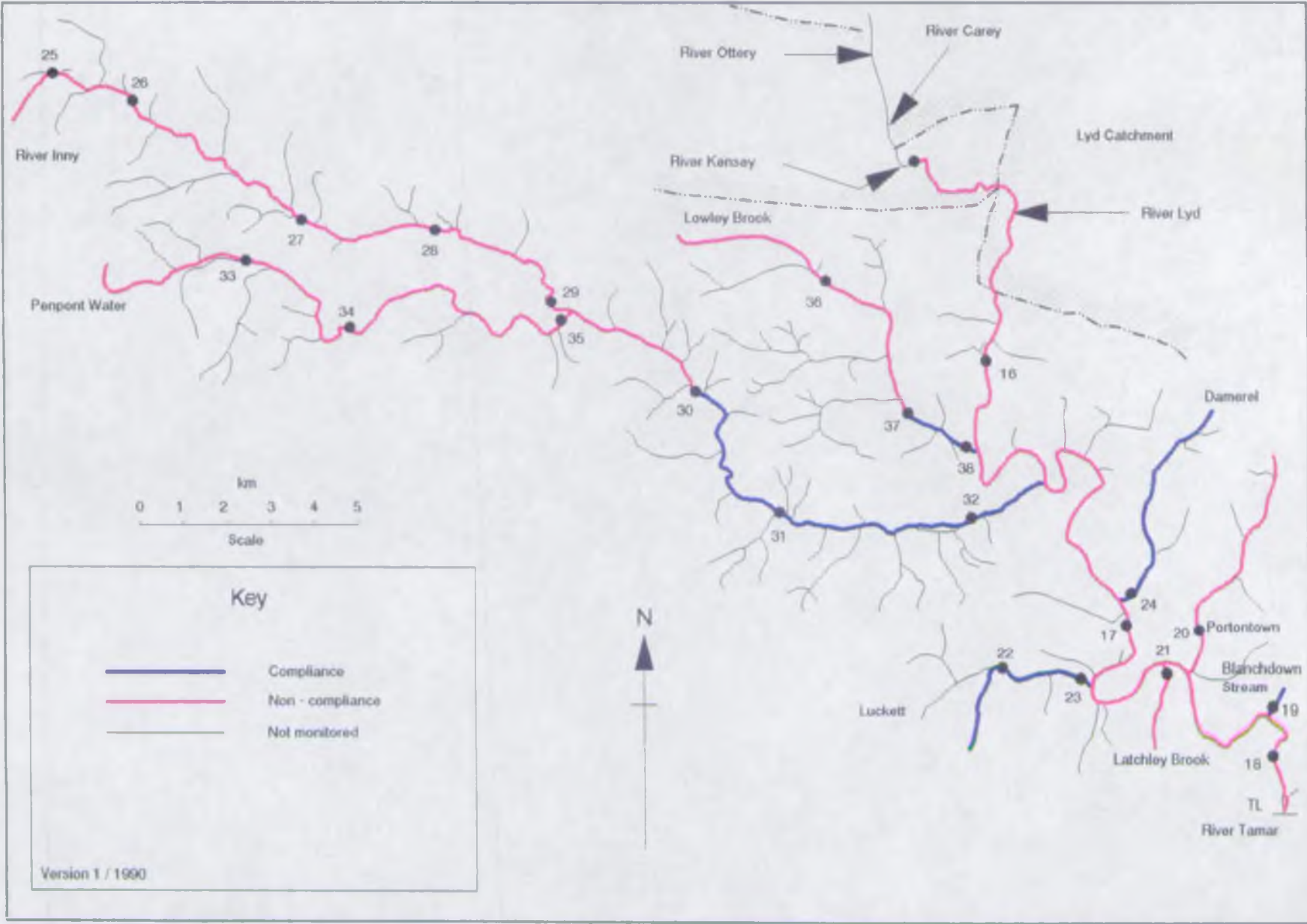


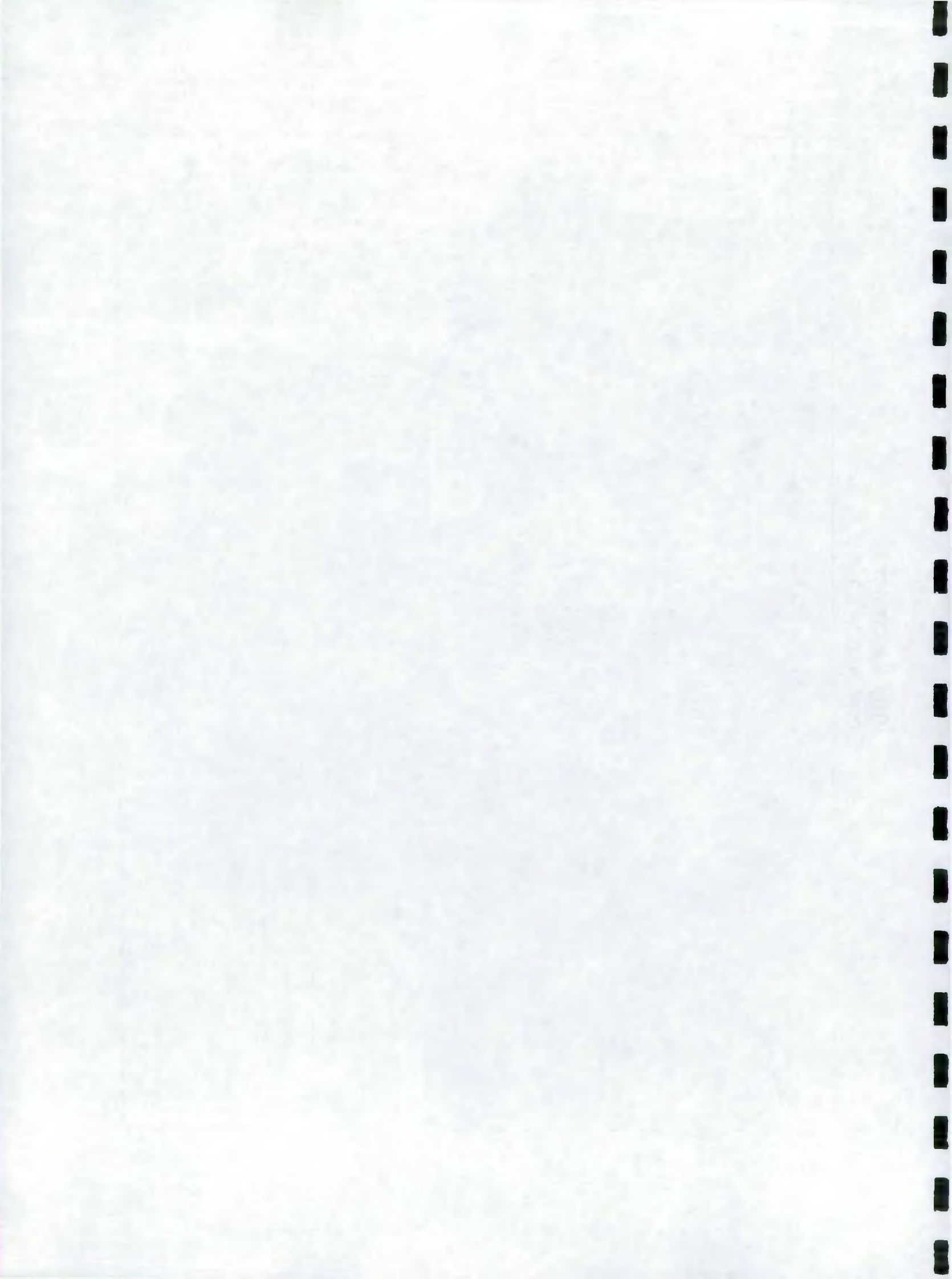
# Ottery & Kensey Catchments Compliance - 1990





# Inny Catchment Compliance - 1990







NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1990 RIVER WATER QUALITY CLASSIFICATION

NUMBER OF SAMPLES (N) AND NUMBER OF SAMPLES EXCEEDING QUALITY STANDARD (F)

CRUICKSHANK: TWP (13)

River	Reach upstream of	User Ref. Number	pH Lower		pH Upper		Temperature		DO (%)		BOD (ADU)		Total Ammonia		Union. Ammonia		S.Solids		Total Copper		Total Zinc	
			N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F
TWP	BLISS BRIDGE	RL2L001	43	-	43	-	43	-	43	-	43	1	43	1	43	-	43	1	34	-	34	-
TWP	UPPER TWP LANE	RL2L017	12	-	12	-	12	-	12	1	12	1	12	-	12	-	12	1	12	-	12	-
TWP	LOWER TWP LANE	RL2L018	12	-	12	-	12	-	12	-	12	-	12	-	12	-	12	3	12	-	12	-
TWP	FOOTBRIDGE BELOW LOWER TWP LANE	RL2L009	37	-	37	-	37	-	37	1	37	1	37	-	37	-	37	5	36	-	36	-
TWP	DEERBRIDGE	RL2L006	37	-	37	-	37	-	37	-	37	1	37	-	37	-	37	4	36	-	36	-
TWP	MORISON MILL	RL2L016	12	-	12	-	12	-	12	-	12	-	12	-	11	-	12	3	12	-	12	-
TWP	IMPRESION BRIDGE	RL2L002	44	-	44	-	44	-	43	2	44	2	44	-	44	-	44	7	38	-	38	1
TWP	BRIDGEHOLE	RL2L015	22	-	22	-	22	-	22	-	22	-	22	-	22	-	22	6	22	-	22	-
TWP	CROMFORD BRIDGE	RL2L003	37	-	37	1	36	-	36	-	37	4	37	3	36	-	37	8	34	1	34	1
TWP	IMPRESION BRIDGE	RL2L004	42	-	42	1	42	-	42	1	41	4	42	1	41	-	42	7	35	-	35	-
TWP	BELOW CONFLUENCE WITH RIVER DEER	RL2L013	12	-	12	-	12	-	12	-	12	1	12	-	12	-	12	3	12	-	12	-
TWP	BOSTON BRIDGE	RL2J001	42	-	42	1	42	-	42	4	42	3	42	-	41	-	42	9	38	-	38	1
TWP	DUNTON BRIDGE	RL2J002	36	-	36	1	35	-	35	2	36	5	36	1	34	-	36	6	33	-	33	-
TWP	NEHEBRIDGE	RL2J003	37	-	37	1	35	-	35	1	37	4	37	1	33	-	37	8	36	-	36	-
TWP	FOLSON BRIDGE	RL2J004	41	-	41	-	41	-	40	1	41	5	41	-	41	-	41	11	37	-	37	-
TWP	GRESSIONS BRIDGE	RL2E001	39	-	39	-	39	-	38	-	39	4	39	-	39	-	39	11	31	-	31	-
TWP	HORSEBRIDGE	RL2E002	39	-	39	-	39	-	39	-	39	1	39	-	39	-	39	10	32	-	32	-
TWP	GLINNSLAKE BRIDGE	RL2E003	61	-	61	-	60	1	60	1	61	3	61	-	29	-	61	12	59	-	59	-
BLANCHDOWN STREAM	UPRIVER TO RIVER TWP	RL2E004	21	-	21	-	20	-	19	-	21	-	21	-	12	-	21	-	21	-	21	-
ROCKINGTON STREAM	GREENOVEN WOOD	RL2E015	29	-	29	-	29	-	28	1	29	-	29	-	26	-	29	1	22	-	22	-
LATCHLEY BROOK	LATCHLEY	RL2E028	20	-	20	-	20	-	20	-	20	-	20	-	14	-	20	-	13	10	13	2
LUCRETT	OLDMILL	RL2E016	20	-	20	-	20	-	20	-	20	-	20	-	20	-	20	-	12	-	12	-
LUCRETT	LUCRETT BRIDGE	RL2E007	37	-	37	-	37	-	36	-	37	-	37	-	36	-	37	1	35	-	35	1
OPPEREL STREAM	UPRIVER TO RIVER TWP	RL2E014	33	-	33	-	33	-	33	1	33	-	33	-	32	-	33	5	23	-	23	-
INN	UPSTREAM OF DIVISION CREAMERY	RL2F001	34	-	34	-	33	-	33	1	34	3	34	2	33	-	34	1	27	-	27	-
INN	FINNINGOON BRIDGE	RL2F002	34	-	34	-	34	-	33	2	34	1	34	1	33	-	34	1	28	-	28	1
INN	ST. CLEVER BRIDGE	RL2F003	34	-	34	-	34	-	34	5	34	4	34	1	34	-	34	3	28	-	28	-
INN	GIMBLETT'S MILL	RL2F012	22	-	22	-	22	-	22	-	22	2	22	-	20	-	22	1	16	-	16	-
INN	TWO BRIDGES	RL2F004	39	-	39	-	39	-	38	8	39	4	39	-	39	-	39	4	35	-	35	-
INN	FINNELLAND BRIDGE	RL2F005	37	-	37	-	37	-	37	4	37	2	37	-	35	-	37	3	27	-	27	-
INN	FINNELLAND BRIDGE	RL2F013	21	-	21	-	22	-	22	-	22	-	22	-	20	-	21	1	16	-	16	-
INN	BEALS MILL BRIDGE	RL2F006	39	-	39	-	38	-	38	-	39	-	39	-	38	-	39	4	35	-	35	-
PENFOLD WATER	FINNELLAND BRIDGE	RL2F010	36	-	36	-	36	-	36	3	35	2	36	-	34	-	36	1	22	-	22	-
PENFOLD WATER	ALDANUN BRIDGE	RL2F007	34	-	34	-	34	-	34	2	34	-	34	-	28	-	34	-	28	1	28	-
PENFOLD WATER	TWO BRIDGES	RL2F008	39	-	39	-	39	-	39	3	39	1	39	-	38	-	39	1	36	-	36	-
LOWLEY BROOK	LANDLAKE BRIDGE	RL2E005	23	-	23	-	23	-	23	-	23	3	23	1	23	-	23	5	19	-	19	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1990 RIVER WATER QUALITY CLASSIFICATION

NUMBER OF SAMPLES (N) AND NUMBER OF SAMPLES EXCEEDING QUALITY STANDARD (F)

CATCHMENT: TAMAR (13)

River	Reach upstream of	User Ref. Number	pH Lower		pH Upper		Temperature		DO (%)		BOD (ATU)		Total Ammonia		Union. Ammonia		S.Solids		Total Copper		Total Zinc	
			N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F
LOWLEY BROOK	LANDLE BRIDGE	RL2E017	21	-	21	-	21	-	21	-	21	1	21	-	21	-	21	3	17	-	17	-
LOWLEY BROOK	LOWLEY BRIDGE	RL2E006	40	-	40	-	40	-	40	1	40	1	40	-	40	-	40	7	35	-	36	-
LED	A386 HORNERIDGE LEDFORD	RL2F012	33	-	33	-	33	-	33	-	33	-	33	-	15	-	33	1	26	-	26	-
LED	GREENLANES BRIDGE	RL2F001	41	-	41	-	41	-	41	-	41	-	41	-	34	-	41	-	31	-	31	-
LED	SYDENHAM BRIDGE	RL2F011	33	-	33	-	33	-	32	-	33	-	33	-	28	-	33	1	30	-	30	-
LED	LIPTON BRIDGE	RL2F002	41	-	41	-	41	-	41	-	41	-	41	-	39	-	41	1	35	-	35	-
QUINER BROOK	ERIOR TO RIVER LED	RL2F013	32	-	32	-	32	-	32	-	32	-	32	-	29	-	32	2	26	-	26	-
LEW	COMBELOW BRIDGE	RL2F003	34	-	34	-	34	-	34	-	34	-	34	-	32	-	34	1	31	-	31	-
LEW	ERIOR TO RIVER LED	RL2F004	37	-	37	-	36	-	36	-	37	-	37	-	34	-	37	2	28	-	28	-
COMBELOW STREAM	ROAD CULVERT NEAR COMBELOW QUARRY	RL2F010	15	-	15	-	15	-	15	-	15	-	15	-	12	-	15	2	9	-	9	-
THRUSHEL	RIVERMEND BRIDGE	RL2G001	34	-	34	-	34	-	34	-	34	-	34	-	33	-	34	-	32	-	32	-
THRUSHEL	WIDHILL BRIDGE	RL2G002	34	-	34	-	33	-	33	1	34	-	34	-	30	-	34	2	34	-	34	-
THRUSHEL	SYDENHAM BRIDGE	RL2G003	38	-	38	-	38	-	38	1	38	-	38	2	38	2	38	2	32	-	32	-
THRUSHEL	TINNEY BRIDGE	RL2G004	41	-	41	-	41	-	41	-	41	-	41	-	40	-	41	2	35	-	35	-
BREAZLE WATER	ERIOR TO RIVER THRUSHEL	RL2G010	33	-	33	-	33	-	33	-	33	-	33	-	32	-	33	2	30	-	30	-
BRISTON BROOK	BRISTON CLOVELLY	RL2G009	32	-	32	-	32	-	32	-	32	-	32	-	32	-	32	1	29	-	29	-
WOLF	WEEK'S MILL BRIDGE	RL2G005	34	-	34	-	34	-	34	-	34	-	34	-	33	-	34	1	34	1	34	-
WOLF	WELTON BRIDGE	RL2G006	35	-	35	-	35	-	34	-	34	-	34	-	33	-	35	1	34	-	34	-
WOLF	ERIOR TO RIVER THRUSHEL	RL2G007	42	-	42	-	42	-	42	-	42	-	42	-	39	-	42	3	35	-	35	-
BROADWOOD BROOK	WELLACOTT BRIDGE	RL2G012	33	-	33	-	33	-	33	-	33	-	33	-	30	-	33	1	30	-	30	-
WENSEY	BROGILL BRIDGE	RL2N003	34	-	34	-	34	-	34	-	34	1	34	-	34	-	34	4	34	-	34	2
WENSEY	BACHWICK BRIDGE	RL2N001	34	-	34	-	32	-	32	-	34	1	34	1	30	-	34	2	34	1	34	-
WENSEY	WELLSBURY BRIDGE	RL2N004	34	-	34	-	34	-	34	-	34	2	34	1	34	-	34	3	33	1	33	-
WENSEY	NEWPORT	RL2N005	34	-	34	-	34	-	34	-	34	1	34	1	34	-	34	4	34	-	34	-
WENSEY	ST. LEONARDS BRIDGE	RL2N002	41	-	41	-	41	-	40	-	41	2	41	-	41	-	41	7	38	-	38	-
THEGARE STREAM	RED DOWN BRIDGE	RL2N006	35	-	35	-	35	-	35	-	35	1	35	2	35	-	35	4	27	-	27	-
CNEY	HAULMILL BRIDGE - QUENCH	RL2H006	21	-	21	-	21	-	21	2	21	3	21	2	21	-	21	3	13	-	13	-
CNEY	ASHMILL BRIDGE	RL2H001	34	-	34	-	34	-	33	8	34	8	34	3	32	-	34	5	33	1	33	-
CNEY	MIDDLE BRIDGE VIRGINSTONE	RL2H007	20	-	20	-	20	-	20	-	20	1	20	-	19	-	20	4	12	-	12	-
CNEY	TIDENHILL BRIDGE	RL2H003	34	-	34	-	34	-	34	2	34	1	34	-	34	-	34	6	33	-	33	-
CNEY	ROLFORD BRIDGE	RL2H008	20	-	20	-	20	-	20	-	20	-	20	1	20	-	20	3	12	-	12	-
CNEY	HEALE BRIDGE	RL2H002	40	-	40	-	40	-	39	1	40	1	40	-	40	-	40	7	33	-	33	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1990 RIVER WATER QUALITY CLASSIFICATION

NUMBER OF SAMPLES (N) AND NUMBER OF SAMPLES EXCEEDING QUALITY STANDARD (F)

CATCHMENT: TAMM (13)

River	Reach upstream of	User Ref. Number	pH Lower		pH Upper		Temperature		DO (%)		BOD (AU)		Total Ammonia		Union. Ammonia		S.Solids		Total Copper		Total Zinc	
			N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F
HENFORD WATER	HENFORD	RL2H005	32	-	32	-	32	-	32	3	32	1	32	1	32	-	32	6	29	-	29	-
OTTERY	OTTERRAM MILL	RL2M004	34	-	34	-	34	-	34	-	34	2	34	2	33	-	34	2	33	1	33	-
OTTERY	TRENGLINE BRIDGE	RL2M005	34	-	34	-	34	-	34	-	34	1	34	-	34	-	34	1	33	-	33	-
OTTERY	CONMORBY WATER BRIDGE	RL2M001	34	-	34	-	34	-	34	-	34	1	34	-	33	-	34	1	34	-	34	-
OTTERY	HELLESCOTT BRIDGE	RL2M002	39	-	39	-	39	-	39	-	39	-	39	-	38	-	39	3	36	-	36	-
OTTERY	YECOLMERIDGE	RL2M006	34	-	34	-	34	-	34	-	34	-	34	-	33	-	34	2	34	-	34	-
OTTERY	RAM MILL BRIDGE	RL2M007	33	-	33	-	32	-	32	-	33	-	33	-	30	-	33	1	33	-	33	-
BOLESERIDGE WATER	200 METRES D/S OF NEWARNO BRIDGE	RL2M012	32	-	32	-	31	-	31	3	32	4	32	2	31	-	32	8	29	-	29	-
OLDMORBY WATER	OLDMORBY BRIDGE	RL2M010	31	-	31	-	32	-	32	-	32	-	32	-	31	-	32	2	29	-	29	-
OLDMORBY WATER	BEFORE TO RIVER OTTERY	RL2M011	32	-	32	-	32	-	32	-	32	-	32	-	31	-	32	4	29	-	29	-
CONMORBY WATER	BEFORE TO RIVER OTTERY	RL2M008	34	-	34	-	34	-	34	-	34	1	34	-	34	-	34	2	27	-	27	1
TINA WATER	BRIDGEWAY	RL2J006	36	-	36	-	36	-	36	2	36	1	36	-	34	-	36	2	31	-	31	1
LAWA LAKE	LAWA BRIDGE	RL2J005	35	-	35	-	34	-	34	2	35	4	34	12	33	-	35	5	31	-	31	-
CLAW	CLAW BRIDGE	RL2K016	37	-	37	-	36	-	37	2	37	2	37	2	36	-	37	2	36	-	36	-
CLAW	CLAWIN BRIDGE	RL2K001	38	-	38	-	38	-	38	1	38	1	38	1	38	-	38	1	37	-	37	-
CLAW	TEWOUT BRIDGE	RL2K002	42	-	42	-	42	-	42	5	42	1	42	1	42	-	42	5	33	-	33	-
DEER	REDON BRIDGE	RL2K003	41	-	41	-	41	-	41	2	41	1	41	2	41	-	41	3	34	-	34	-
DEER	WINDSCOTT BRIDGE	RL2K004	41	-	41	-	41	-	41	-	41	-	41	-	41	-	41	2	34	-	34	-
DEER	DEER BRIDGE	RL2K005	42	-	42	-	43	-	43	2	42	1	42	-	42	-	42	2	35	-	35	-
COLESMILL STREAM	100 METRES BELOW OF HOLMORBY SW	RL2K007	22	-	22	-	22	-	22	-	22	-	22	-	22	-	22	1	22	-	22	-
DEHILL WATER	DUX BRIDGE	RL2L012	36	-	36	-	36	-	36	-	36	2	36	1	36	-	36	6	30	-	30	-
DEHILL WATER	DUNLSONE BRIDGE	RL2L005	39	-	39	-	39	-	39	3	39	1	39	1	38	-	39	4	31	-	31	-
SMALL BROOK	HENDON BRIDGE	RL2L011	40	-	40	-	40	-	40	5	40	4	40	4	40	-	40	3	32	-	32	-
SMALL BROOK	YOULDON BRIDGE	RL2L008	37	-	37	-	37	-	37	2	37	4	37	6	36	-	37	4	31	-	31	-
LAMBERAL WATER	FORDA	RL2L010	41	-	41	-	41	-	41	1	41	-	41	-	41	-	41	1	32	-	32	-
LAMBERAL WATER	MORETON FORD BRIDGE	RL2L007	37	-	37	-	37	-	37	2	37	2	37	1	37	-	37	5	33	-	33	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
 1990 RIVER WATER QUALITY CLASSIFICATION  
 PERCENTAGE EXCEEDENCE OF DETERMINAND STATISTICS FROM QUALITY STANDARDS  
 CATCHMENT: TAMAR (13)

River	Reach upstream of	User Ref. Number	PERCENTAGE EXCEEDENCE OF STATISTIC FROM QUALITY STANDARD										
			pH Lower	pH Upper	Temperature	DO (%)	BOD (ATU)	Total Ammonia	Un-ionised Ammonia	Suspended Solids	Total Copper	Total Zinc	
TAMAR	BUSES BRIDGE	R12L001	-	-	-	-	-	-	-	-	-	-	-
TAMAR	UPPER TAMAR LAKE	R12L017	-	-	-	20	12	-	-	-	-	-	-
TAMAR	LOWER TAMAR LAKE	R12L018	-	-	-	-	-	-	-	-	-	-	-
TAMAR	FOOTBRIDGE BELOW LOWER TAMAR LAKE	R12L009	-	-	-	-	-	-	-	-	-	-	-
TAMAR	DEKBEER BRIDGE	R12L006	-	-	-	-	-	-	-	-	-	-	-
TAMAR	MORETON MILL	R12L016	-	-	-	-	-	-	-	2	-	-	-
TAMAR	TAMARSTONE BRIDGE	R12L002	-	-	-	19	16	-	-	-	-	-	-
TAMAR	BRIDGERULE	R12L015	-	-	-	-	-	-	-	-	-	-	-
TAMAR	CROWFORD BRIDGE	R12L003	-	-	-	-	77	20	-	-	-	-	-
TAMAR	TAMERTON BRIDGE	R12L004	-	-	-	-	69	-	-	-	-	-	-
TAMAR	BELOW CONFLUENCE WITH RIVER DEER	R12L013	-	-	-	-	2	-	-	68	-	-	-
TAMAR	BOYTOW BRIDGE	R12J001	-	-	-	23	28	-	-	7	-	-	-
TAMAR	DRUYTON BRIDGE	R12J002	-	-	-	35	104	-	-	28	-	-	-
TAMAR	NETHERBRIDGE	R12J003	-	-	-	-	53	-	-	23	-	-	-
TAMAR	POLSON BRIDGE	R12J004	-	-	-	-	14	-	-	44	-	-	-
TAMAR	GREYSTONE BRIDGE	R12E001	-	-	-	-	32	-	-	61	-	-	-
TAMAR	HORSEBRIDGE	R12E002	-	-	-	-	-	-	-	25	-	-	-
TAMAR	GUNNISLAKE BRIDGE	R12E003	-	-	-	-	44	-	-	32	-	-	-
BLANCHDOWN STREAM	PRIOR TO RIVER TAMAR	R12E004	-	-	-	-	-	-	-	-	-	-	-
PORTORTOWN STREAM	GRENOVEN WOOD	R12E015	-	-	-	1	-	-	-	-	-	-	-
LATCHLEY BROOK	LATCHLEY	R12E028	-	-	-	-	-	-	-	-	627	180	-
LUCKETT	OLDMILL	R12E016	-	-	-	-	-	-	-	-	-	-	-
LUCKETT	LUCKETT BRIDGE	R12E007	-	-	-	-	-	-	-	-	-	-	-
DAMEREL STREAM	PRIOR TO RIVER TAMAR	R12E014	-	-	-	-	-	-	-	-	-	-	-
INNY	UPSTREAM OF DAVIDSTOW CREAMERY	R12P001	-	-	-	5	20	64	-	-	-	-	-
INNY	TREWINSOW BRIDGE	R12P002	-	-	-	5	12	-	-	-	-	-	-
INNY	ST. CLEATHER BRIDGE	R12P003	-	-	-	16	59	8	-	-	-	-	-
INNY	GIMBLETT'S MILL	R12P012	-	-	-	-	32	-	-	-	-	-	-
INNY	TWO BRIDGES	R12P004	-	-	-	21	13	-	-	-	-	-	-
INNY	TREKELLAND BRIDGE	R12P005	-	-	-	10	5	-	-	-	-	-	-
INNY	TRECARRELL BRIDGE	R12P013	-	-	-	-	-	-	-	-	-	-	-
INNY	BEALS MILL BRIDGE	R12P006	-	-	-	-	-	-	-	-	-	-	-
PENPONT WATER	TRELYN BRIDGE	R12P010	-	-	-	21	14	-	-	-	-	-	-
PENPONT WATER	ALTARNUN BRIDGE	R12P007	-	-	-	5	-	-	-	-	-	-	-
PENPONT WATER	TWO BRIDGES	R12P008	-	-	-	8	-	-	-	-	-	-	-
LOWLEY BROOK	LANDLAKE BRIDGE	R12E005	-	-	-	-	72	-	-	26	-	-	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
 1990 RIVER WATER QUALITY CLASSIFICATION  
 PERCENTAGE EXCEEDENCE OF DETERMINAND STATISTICS FROM QUALITY STANDARDS  
 CATCHMENT: TAMAR (13)

River	Reach upstream of	User Ref. Number	PERCENTAGE EXCEEDENCE OF STATISTIC FROM QUALITY STANDARD									
			pH Lower	pH Upper	Temperature	DO (%)	BOD (ATU)	Total Ammonia	Un-ionised Ammonia	Suspended Solids	Total Copper	Total Zinc
LOWLEY BROOK	LANDUE BRIDGE	R12E017	-	-	-	-	24	-	-	-	-	-
LOWLEY BROOK	LOWLEY BRIDGE	R12E006	-	-	-	-	-	-	-	-	-	-
LYD	A386 ROADBRIDGE LYDFORD	R12F012	-	-	-	-	-	-	-	-	-	-
LYD	GREENLANES BRIDGE	R12F001	-	-	-	-	-	-	-	-	-	-
LYD	SYDENHAM BRIDGE	R12F011	-	-	-	-	-	-	-	-	-	-
LYD	LIFTON BRIDGE	R12F002	-	-	-	-	-	-	-	-	-	-
QUITHER BROOK	PRIOR TO RIVER LYD	R12F013	-	-	-	-	-	-	-	-	-	-
LEW	COMBEBOW BRIDGE	R12F003	-	-	-	-	-	-	-	-	-	-
LEW	PRIOR TO RIVER LYD	R12F004	-	-	-	-	-	-	-	-	-	-
COMBEBOW STREAM	ROAD CULVERT NEAR COMBEBOW QUARRY	R12F010	-	-	-	-	-	-	-	-	-	-
THRUSHEL	RIVERMEAD BRIDGE	R12G001	-	-	-	-	-	-	-	-	-	-
THRUSHEL	WRIXHILL BRIDGE	R12G002	-	-	-	-	-	-	-	-	-	-
THRUSHEL	STOMPORD BRIDGE	R12G003	-	-	-	-	-	30	45	-	-	-
THRUSHEL	TINHAY BRIDGE	R12G004	-	-	-	-	-	-	-	-	-	-
BREAZLE WATER	PRIOR TO RIVER THRUSHEL	R12G010	-	-	-	-	-	-	-	-	-	-
BRATTON BROOK	BRATTON CLOVELLY	R12G009	-	-	-	-	-	-	-	-	-	-
WOLF	WEEK'S MILL BRIDGE	R12G005	-	-	-	-	-	-	-	-	6	-
WOLF	REXON BRIDGE	R12G006	-	-	-	-	-	-	-	-	-	-
WOLF	PRIOR TO RIVER THRUSHEL	R12G007	-	-	-	-	-	-	-	-	-	-
BROADWOOD BROOK	KELLACOTT BRIDGE	R12G012	-	-	-	-	-	-	-	-	-	-
KENSEY	BADGALL BRIDGE	R12N003	-	-	-	-	-	-	-	-	-	19
KENSEY	BADHARLICK BRIDGE	R12N001	-	-	-	-	21	-	-	-	-	-
KENSEY	TRUSCOTT BRIDGE	R12N004	-	-	-	-	24	7	-	-	-	-
KENSEY	NEWPORT	R12N005	-	-	-	-	59	-	-	7	-	-
KENSEY	ST. LEONARDS BRIDGE	R12N002	-	-	-	-	7	-	-	-	-	-
TREGEARE STREAM	RED DOWN BRIDGE	R12N006	-	-	-	-	-	31	-	-	-	-
CAREY	HAIMILL BRIDGE - QUODITCH	R12H006	-	-	-	10	181	147	-	-	-	-
CAREY	ASHMILL BRIDGE	R12H001	-	-	-	24	49	14	-	-	-	-
CAREY	MIDDLE BRIDGE VIRGINSTOW	R12H007	-	-	-	-	6	-	-	-	-	-
CAREY	TOWERHILL BRIDGE	R12H003	-	-	-	25	4	-	-	-	-	-
CAREY	BOLDFORD BRIDGE	R12H008	-	-	-	-	-	80	-	-	-	-
CAREY	HEALE BRIDGE	R12H002	-	-	-	-	-	-	-	-	-	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
 1990 RIVER WATER QUALITY CLASSIFICATION  
 PERCENTAGE EXCEEDENCE OF DETERMINAND STATISTICS FROM QUALITY STANDARDS  
 CATCHMENT: TAMAR (13)

River	Reach upstream of	User Ref. Number	PERCENTAGE EXCEEDENCE OF STATISTIC FROM QUALITY STANDARD									
			pH Lower	pH Upper	Temperature	DO (%)	BOD (ATU)	Total Ammonia	Un-ionised Ammonia	Suspended Solids	Total Copper	Total Zinc
HENFORD WATER	HENFORD	R12H005	-	-	-	16	-	-	-	-	-	-
OTTERY	OTTERHAM MILL	R12M004	-	-	-	-	25	75	-	-	-	-
OTTERY	TRENGUNE BRIDGE	R12M005	-	-	-	-	-	-	-	-	-	-
OTTERY	CANWORTHY WATER BRIDGE	R12M001	-	-	-	-	-	-	-	-	-	-
OTTERY	HELLESCOTT BRIDGE	R12M002	-	-	-	-	-	-	-	-	-	-
OTTERY	YEOLM BRIDGE	R12M006	-	-	-	-	-	-	-	-	-	-
OTTERY	HAM MILL BRIDGE	R12M007	-	-	-	-	-	-	-	-	-	-
BOLESBRIDGE WATER	200 METRES D/S OF NAVARINO BRIDGE	R12M012	-	-	-	32	220	139	-	-	-	-
CAUDMORTHY WATER	CAUDMORTHY BRIDGE	R12M010	-	-	-	-	-	-	-	-	-	-
CAUDMORTHY WATER	PRIOR TO RIVER OTTERY	R12M011	-	-	-	-	-	-	-	-	-	-
CANWORTHY WATER	PRIOR TO RIVER OTTERY	R12M008	-	-	-	-	-	-	-	42	-	-
TALA WATER	BRIDGETOWN	R12J006	-	-	-	7	-	-	-	-	-	-
LANA LAKE	LANA BRIDGE	R12J005	-	-	-	11	39	86	-	-	-	-
CLAW	CLAW BRIDGE	R12K016	-	-	-	23	8	44	-	-	-	-
CLAW	CLANTON BRIDGE	R12K001	-	-	-	-	-	2	-	-	-	-
CLAW	TETCOTT BRIDGE	R12K002	-	-	-	45	-	-	-	-	-	-
DEER	RYDON BRIDGE	R12K003	-	-	-	11	-	-	-	-	-	-
DEER	WIRSCOTT BRIDGE	R12K004	-	-	-	-	-	-	-	-	-	-
DEER	DEER BRIDGE	R12K005	-	-	-	5	-	-	-	-	-	-
COLESMILL STREAM	100 METRES BELOW OF HOLSWORTHY ST	R12K007	-	-	-	-	-	-	-	-	-	-
DERRIL WATER	DUX BRIDGE	R12L012	-	-	-	-	38	-	-	-	-	-
DERRIL WATER	DUALSTONE BRIDGE	R12L005	-	-	-	20	-	-	-	-	-	-
SMALL BROOK	HEADON BRIDGE	R12L011	-	-	-	10	46	127	-	-	-	-
SMALL BROOK	YOULDON BRIDGE	R12L008	-	-	-	17	76	161	-	-	-	-
LAMBERAL WATER	FORDA	R12L010	-	-	-	-	-	-	-	-	-	-
LAMBERAL WATER	MORETON POUND BRIDGE	R12L007	-	-	-	5	4	-	-	-	-	-



NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
IDENTIFICATION OF POSSIBLE CAUSES OF NON-COMPLIANCE WITH RQO  
CATCHMENT: TAMAR (13)  
\* = WORK ALREADY IN HAND

1990 Map Position Number	River	Reach upstream of	User Reference Number	Reach Length (km)	Possible causes of non-compliance
2	TAMAR	UPPER TAMAR LAKE	R12L017	1.7	FARMING ACTIVITIES, LAND RUN-OFF, BLUE-GREEN ALGAE
6	TAMAR	MORETON MILL	R12L016	1.8	LAND RUN-OFF, FARMING
7	TAMAR	TAMARSTONE BRIDGE	R12L002	4.5	LAND RUN-OFF, DROUGHT
9	TAMAR	CROWFORD BRIDGE	R12L003	5.4	LAND RUN-OFF, UNKNOWN POINT SOURCE, FARMING ACTIVITIES
10	TAMAR	TAMERTON BRIDGE	R12L004	5.1	FARMING ACTIVITIES, LAND RUN-OFF
11	TAMAR	BELOW CONFLUENCE WITH RIVER DEER	R12L013	0.3	FARMING ACTIVITIES
12	TAMAR	BOYTON BRIDGE	R12J001	7.0	FARMING ACTIVITIES, DROUGHT
13	TAMAR	DRUXTON BRIDGE	R12J002	5.9	FARMING ACTIVITIES
14	TAMAR	NETHERBRIDGE	R12J003	1.9	LAND RUN-OFF, POLLUTION, FARMING ACTIVITIES
15	TAMAR	POLSON BRIDGE	R12J004	2.5	LAND RUN-OFF, SEWAGE TREATMENT WORKS, FARMING ACTIVITIES
16	TAMAR	GREYSTONE BRIDGE	R12E001	6.6	LAND RUN-OFF, FARMING ACTIVITIES
17	TAMAR	HORSEBRIDGE	R12E002	11.9	LAND RUN-OFF, CATCHMENT GEOLOGY, FARMING ACTIVITIES
18	TAMAR	GUNNISLAKE BRIDGE	R12E003	9.0	LAND RUN-OFF, UP-STREAM ABSTRACTIONS, CATCHMENT GEOLOGY, SEPTIC TANKS, FARMING ACTIVITIES
20	PORTONTOWN STREAM	GRENOVEN WOOD	R12E015	5.6	CATCHMENT GEOLOGY
21	LATCHLEY BROOK	LATCHLEY	R12E028	1.7	LAND RUN-OFF, MINING, CATCHMENT GEOLOGY
25	INNY	UPSTREAM OF DAVIDSTON CREAMERY	R12P001	1.4	LAND RUN-OFF, UNKNOWN POINT SOURCE, CATCHMENT GEOLOGY, FARMING ACTIVITIES
26	INNY	TREWINNOW BRIDGE	R12P002	2.0	LAND RUN-OFF, UNKNOWN POINT SOURCE, INDUSTRIAL DISCHARGE, FARMING
27	INNY	ST. CLETHER BRIDGE	R12P003	4.7	LAND RUN-OFF, FARMING ACTIVITIES, MOORLAND, INDUSTRIAL DISCHARGE
28	INNY	GIMBLETT'S MILL	R12P012	4.5	LAND RUN-OFF, AFORESTATION, EUTROPHICATION, FARMING ACTIVITIES
29	INNY	TWO BRIDGES	R12P004	4.3	LAND RUN-OFF, FARMING ACTIVITIES
30	INNY	TREKELLAND BRIDGE	R12P005	4.3	LAND RUN-OFF, CULVERTING
33	PENPORT WATER	TRELYN BRIDGE	R12P010	4.0	LAND RUN-OFF, DROUGHT, FARMING ACTIVITIES
34	PENPORT WATER	ALTARNUN BRIDGE	R12P007	3.7	LAND RUN-OFF, DROUGHT, URBANISATION
35	PENPORT WATER	TWO BRIDGES	R12P008	7.1	LAND RUN-OFF, DROUGHT, POLLUTION
36	LOWLEY BROOK	LANDLAKE BRIDGE	R12E005	3.7	LAND RUN-OFF, URBANISATION, STORM OVERFLOWS
37	LOWLEY BROOK	LANDUE BRIDGE	R12E017	4.0	LAND RUN-OFF, URBANISATION
49	THRUSHEL	STOMPORD BRIDGE	R12G003	5.9	LAND RUN-OFF, FARMING ACTIVITIES
53	WOLF	WEEK'S MILL BRIDGE	R12G005	3.8	LAND RUN-OFF, CATCHMENT GEOLOGY
57	KENSEY	BADGALL BRIDGE	R12N003	2.4	LAND RUN-OFF, MOORLAND ORIGINS
58	KENSEY	BADHARLICK BRIDGE	R12N001	4.2	LAND RUN-OFF, MOORLAND ORIGINS, FARMING ACTIVITIES
59	KENSEY	TRUSCOTT BRIDGE	R12N004	4.0	LAND RUN-OFF, SEWAGE TREATMENT WORKS
60	KENSEY	NEWPORT	R12N005	3.3	LAND RUN-OFF, URBANISATION
61	KENSEY	ST. LEONARDS BRIDGE	R12N002	2.8	LAND RUN-OFF, STORM OVERFLOW
62	TREGEARE STREAM	RED DOWN BRIDGE	R12N006	3.4	LAND RUN-OFF, CATCHMENT GEOLOGY, FARMING ACTIVITIES

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION  
IDENTIFICATION OF POSSIBLE CAUSES OF NON-COMPLIANCE WITH RQO  
CATCHMENT: TAMAR (13)  
\* = WORK ALREADY IN HAND

1990 Map Position Number	River	Reach upstream of	User Reference Number	Reach Length (km)	Possible causes of non-compliance
63	CAREY	HALMILL BRIDGE - QUODDITCH	R12H006	3.6	LAND RUN-OFF, AFORESTATION, FARMING ACTIVITIES, SEPTIC TANK
64	CAREY	ASHMILL BRIDGE	R12H001	4.7	LAND RUN-OFF, FARMING ACTIVITIES, SEPTIC TANKS, CATCHMENT GEOLOGY
65	CAREY	MIDDLE BRIDGE VIRGINSTOW	R12H007	4.0	LAND RUN-OFF, DROUGHT, FARMING ACTIVITIES
66	CAREY	TOWERHILL BRIDGE	R12H003	2.4	LAND RUN-OFF
67	CAREY	BOLDFORD BRIDGE	R12H008	2.7	LAND RUN-OFF, DROUGHT, FARMING ACTIVITIES
69	HENFORD WATER	HENFORD	R12H005	4.3	DROUGHT, LAND RUN-OFF, FARMING ACTIVITIES, CATCHMENT GEOLOGY
70	OTTERY	OTTERHAM MILL	R12M004	6.0	LAND RUN-OFF, FARMING ACTIVITIES, CATCHMENT GEOLOGY
76	BOLESBRIDGE WATER	200 METRES D/S OF NAVARINO BRIDGE	R12M012	8.0	DROUGHT, LAND RUN-OFF, FARMING ACTIVITIES, CATCHMENT GEOLOGY
79	CANWORTHY WATER	PRIOR TO RIVER OTTERY	R12M008	4.8	LAND RUN-OFF, FARMING ACTIVITIES, CATCHMENT GEOLOGY
80	TALA WATER	BRIDGETOWN	R12J006	9.3	DROUGHT, SEPTIC TANK
81	LANA LAKE	LANA BRIDGE	R12J005	3.1	DROUGHT, LAND RUN-OFF, FARMING ACTIVITIES, CATCHMENT GEOLOGY
82	CLAW	CLAW BRIDGE	R12K016	4.2	DROUGHT, FARMING ACTIVITIES, LAND RUN-OFF, CATCHMENT GEOLOGY
83	CLAW	CLAWTON BRIDGE	R12K001	2.9	LAND RUN-OFF, FARMING ACTIVITIES
84	CLAW	TETCOTT BRIDGE	R12K002	4.3	DROUGHT, FARMING ACTIVITIES, CATCHMENT GEOLOGY
85	DEER	RYDON BRIDGE	R12K003	6.8	DROUGHT, URBANISATION
87	DEER	DEER BRIDGE	R12K005	6.0	DROUGHT, URBANISATION
89	DERRIL WATER	DUK BRIDGE	R12L012	2.7	LAND RUN-OFF, FARMING ACTIVITIES, CATCHMENT GEOLOGY
90	DERRIL WATER	DUALSTONE BRIDGE	R12L005	2.5	DROUGHT, CATCHMENT GEOLOGY
91	SMALL BROOK	HEADON BRIDGE	R12L011	3.7	LAND RUN-OFF, DROUGHT, FARMING ACTIVITIES, CATCHMENT GEOLOGY
92	SMALL BROOK	YOULDON BRIDGE	R12L008	2.5	CATCHMENT GEOLOGY, FARMING ACTIVITIES, LAND RUN-OFF
94	LAMBERAL WATER	MORETON POUND BRIDGE	R12L007	3.2	LAND RUN-OFF, DROUGHT, CATCHMENT GEOLOGY, FARMING ACTIVITIES