

RED RIVER

CATCHMENT ACTION PLAN



NRA

*National Rivers Authority
South West Region*

C O N T E N T S

MAP OF NRA SW REGION SHOWING TARGET CATCHMENT

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ENVIRONMENT AGENCY



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National Rivers Authority South West Region



NRA

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South West Region*

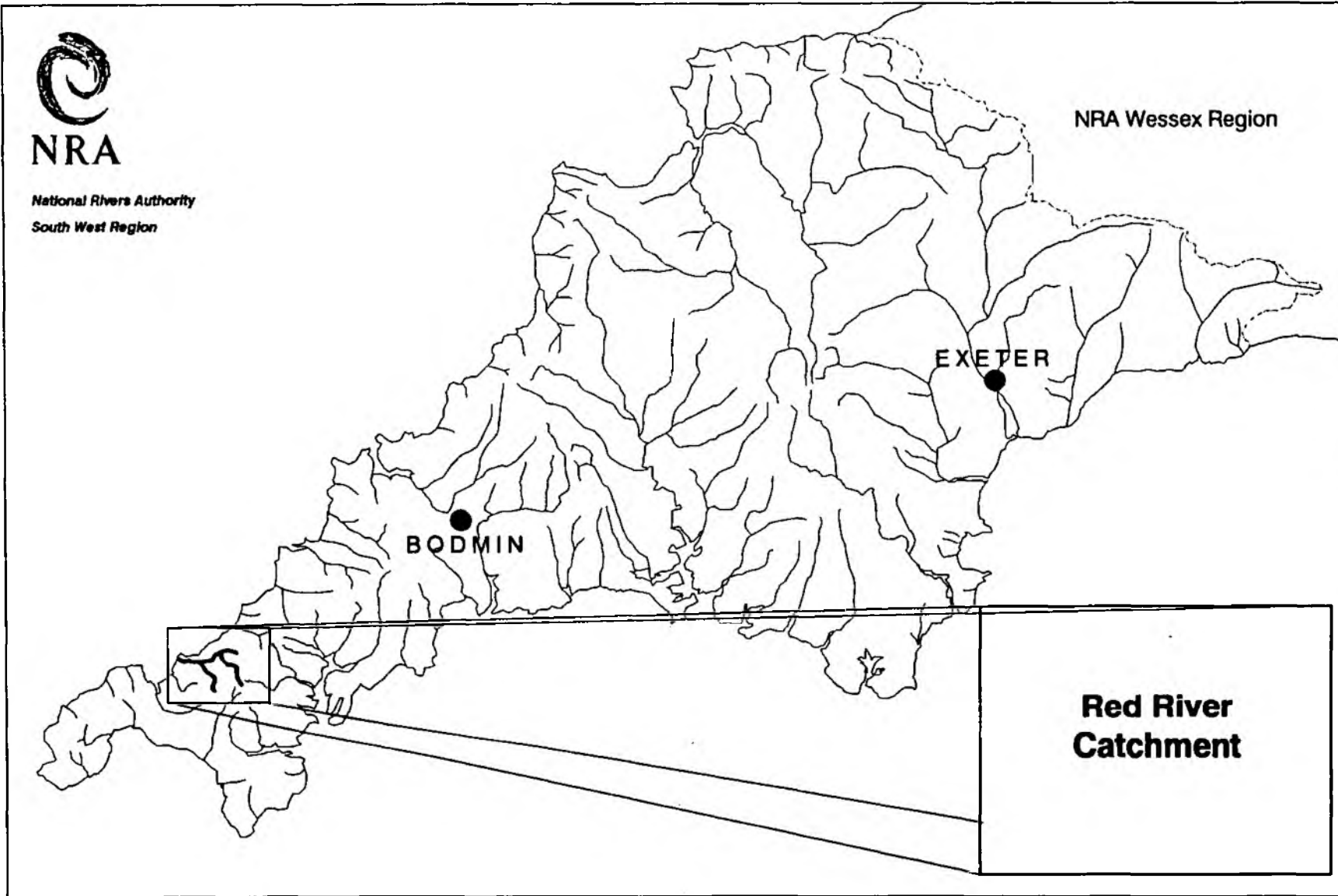
NRA Wessex Region

EXETER

BODMIN

Red River Catchment

**Red River
Catchment**



1. INTRODUCTION

CATCHMENT ACTION PLANS are designed to be a simple, practical means of directing resources to achieve environmental improvements on a priority basis, between and within catchments. They set out the essential routine tasks, and a five year programme of specific actions for each catchment to meet regional and national targets. Changes may occur where unplanned work such as an extreme drought requires priority.

The NRA has inherited a legacy of environmental challenges arising from the use and abuse of our natural resources. Although significant progress has already been made it will be many years before all the work needed can be assessed, funded and carried out.

To achieve the environmental objectives will require not just the clear, vigorous direction of the NRA towards priority work but the help and support of the whole community.

The NRA has consulted with the Regional Advisory Board and Advisory Committees and the local interests about the draft action plans and the format is the outcome of those discussions.

Progress to achieve the Action Plan objectives will normally be reviewed on an annual basis but more frequently where severe problems have been identified.

2. ROUTINE SERVICES

Despite the fact that the NRA is largely a reactive, regulatory body it is possible to plan for much of the environmental protection work even the fact that unpredictable events will occur!

Much of the routine workload such as monitoring, enforcement of statutes and dealing with pollution and flooding incidents needs to have clear priority to ensure that it is dealt with to satisfactory standards throughout the region.

This essential work is carried out according to need in all catchments.

The NRA SW handles over 3000 pollution incidents a year, the majority of which are reported by members of the public. Many are attended within minutes and most within a few hours. In some cases, major operations are undertaken to control the pollution and minimise impact on the environment.

Several thousand routine inspections of industrial premises, farms, weirs, fish passes and treatment works are also undertaken. In many cases improvements are required to minimise the risk of pollution or to ensure protection of fish and conservation of the water environment.

As part of the overall environmental protection exercise many flood defence schemes and thousands of planning applications are screened; hundreds of farm pollution grant proposals and effluent discharge applications are processed each year. Many new or varied abstraction licences and drilling consents are also processed to protect surface and underground waters.

Each year about 67,000 samples of rivers, lakes, ground and tidal waters and effluents are taken. Around 1.25 million chemical tests are made on these samples to ensure water quality standards are met and to identify where enforcement action is needed.

In addition detailed studies of samples of invertebrates, fish, algae and plants are undertaken to provide information on the status of the aquatic communities and to test the accuracy of the conclusions of chemical monitoring.

The key abstractions, discharges and monitoring sites for this catchment are marked on map(s) in Appendix 1.

Routine regulatory action is taken to ensure the conditions of thousands of discharges, abstractions and other legal requirements are enforced and illegal fishing is curtailed.

The NRA SW also handles many hundreds of letters and enquiries for information from the Water Act Register and provides press releases, reports and other information to a wide range of interests in the community.

RED RIVER CATCHMENT ACTION PLAN

3 CHALLENGES AND ACTIONS

This catchment plan incorporates the Red River, Portreath and Perranwell Streams, draining the Camborne and Redruth area. The beaches at Portreath, Hayle Towans, Gwithian, Perranporth, Porthtowan, St Agnes and others are visited by thousands of holidaymakers each year. As the mining hinterland has declined the amenity use of this environment and its water quality has increased and is, therefore, under closer scrutiny.

The aim of the plan is to maintain and where necessary improve water quality to achieve water quality objectives, minimise nuisance and reduce pollution risk.

Functional officers have identified the main challenge to the achievement of environmental objectives. Where solutions are clear they have been programmed. In other cases further studies are needed to determine the way forward.

ACTION

TIMETABLE

1991 1992 1993 1994 1995

POLLUTION CONTROL

Carry out a review of water quality in the catchment.

Investigate the causes of non-compliance with water quality objectives and carry out programme of remedial action.

Prepare catchment description.

Assess impact of current and historic mining activities on water quality and consider remedial action.

Assess impact of Nancekuke on water quality and carry out pollution risk assessment.

Pre and post scheme appraisal of SWWS capital programme.

Review impact of discharge of sewage to surface and tidal waters and promote improvement schemes.

ACTION

TIMETABLE

1991 1992 1993 1994 1995

POLLUTION CONTROL CONTINUED

Liaise with FHO's to identify private potable supplies and develop database.

Determine deemed discharge consents.

Baseline survey of groundwater quality to determine:-

- (a) suitability for potable use.
- (b) compliance with appropriate EC Directive standards.

CONSERVATION

Encourage creation of habitat in areas of derelict land adjacent to the Lower Red River.

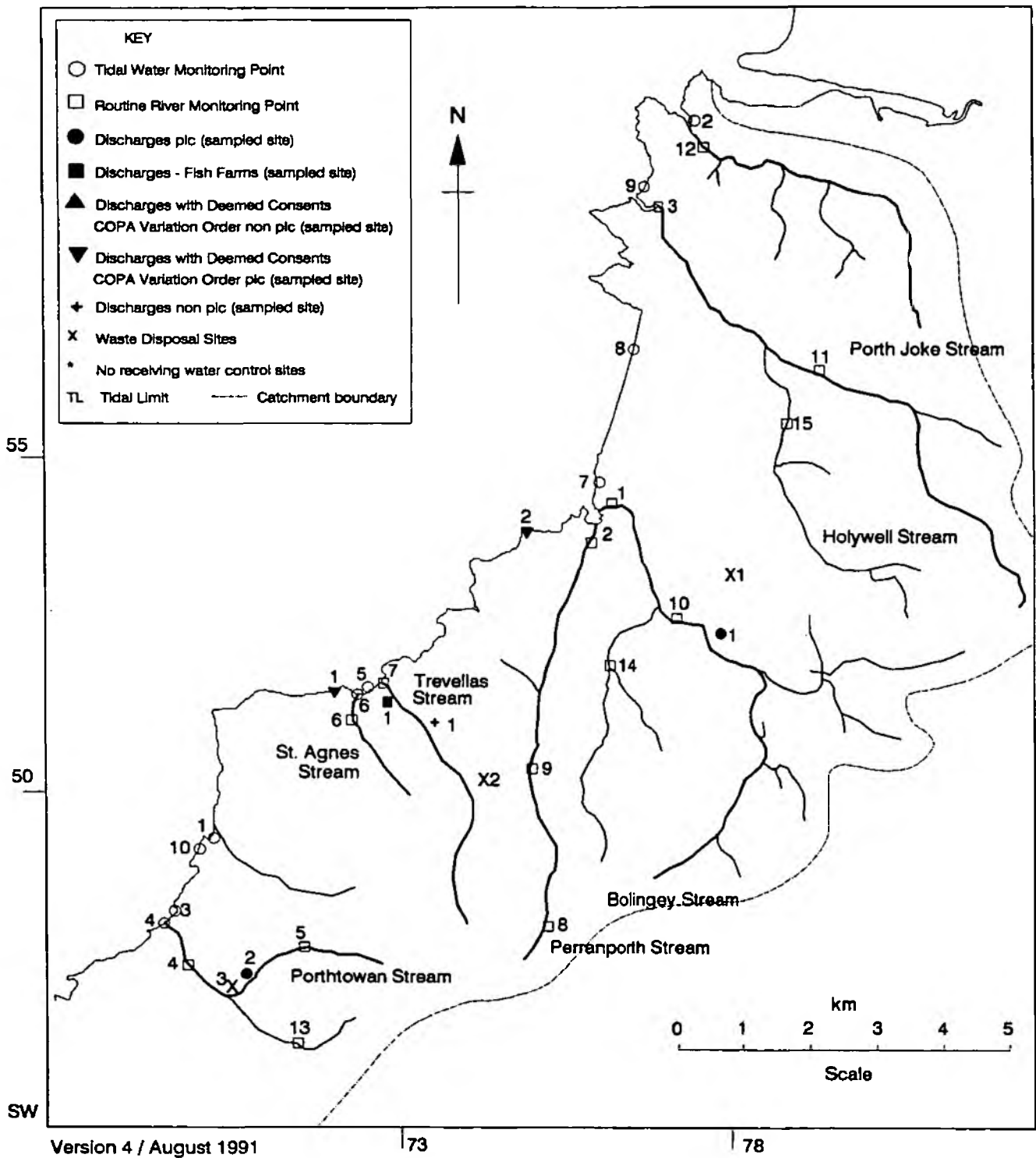
APPENDIX 1

CATCHMENT MAPS

KEY

- Tidal Water Monitoring Point
- Routine River Monitoring Point
- Discharges plc (sampled site)
- Discharges - Fish Farms (sampled site)
- ▲ Discharges with Deemed Consents - COPA Variation Order non plc (sampled site)
- ▼ Discharges with Deemed Consents - COPA Variation Order plc (sampled site)
- + Discharges non plc (sampled site)
- X Waste Disposal Sites
- TL Tidal Limit
- No receiving water control sites

Bolingey & Perranporth Catchments 23A



BOLINGEY AND PERRANPORTH CATCHMENT 23A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1	P23A/P/14	SW73605130	Perran View Camp	Sewage treatment works
DISCHARGES PLC				
1	WSTW0072FE	SW77725258	Goonhavern	Sewage treatment works
2	WSTW0180FE	SW70404722	Porthtowan	Sewage treatment works
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC				
1	OUT0582	SW71975181	Trevaunance Cove	Outfall
2	OUT0560	SW74595397	Perranporth	Outfall Redlist site Site for current dangerous substances

FISH FARMS

1 P23A/P/75 SW72805150 Blue Hill Trout Frm

WASTE DISPOSAL SITES

1 08PA SW783536 Penrose Farm, Goonhaven
 2 08PK SW740500 Greenacre Farm, Blackwater
 3 08PS SW701471 Navy Pit, Porthtowan

TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS

1 SW69674955 Chapel Porth Beach Non-identified bathing waters
 2 SW77276040 Porth Joke Beach Non-identified bathing waters
 3 ECB0820 SW69154812 Porthtowan Beach EC identified bathing waters
 4 ECBR0820 SW69254796 Porthtowan Stream Watercourse to beach
 5 ECB0830 SW723517 Trevaunance Cove EC identified bathing waters
 6 ECBR0830 SW72165160 St Agnes Stream Watercourse to beach
 7 ECB0840 SW757548 Perranporth Beach EC identified bathing waters
 8 ECB0841 SW762570 Penhale Sands EC identified bathing waters
 9 ECB0850 SW765595 Holywell Bay Beach EC identified bathing waters

TIDAL WATER QUALITY MONITORING POINT - BIOTA SAMPLING

10 SF013 SW69604960 Chapel Porth

ROUTINE RIVER MONITORING

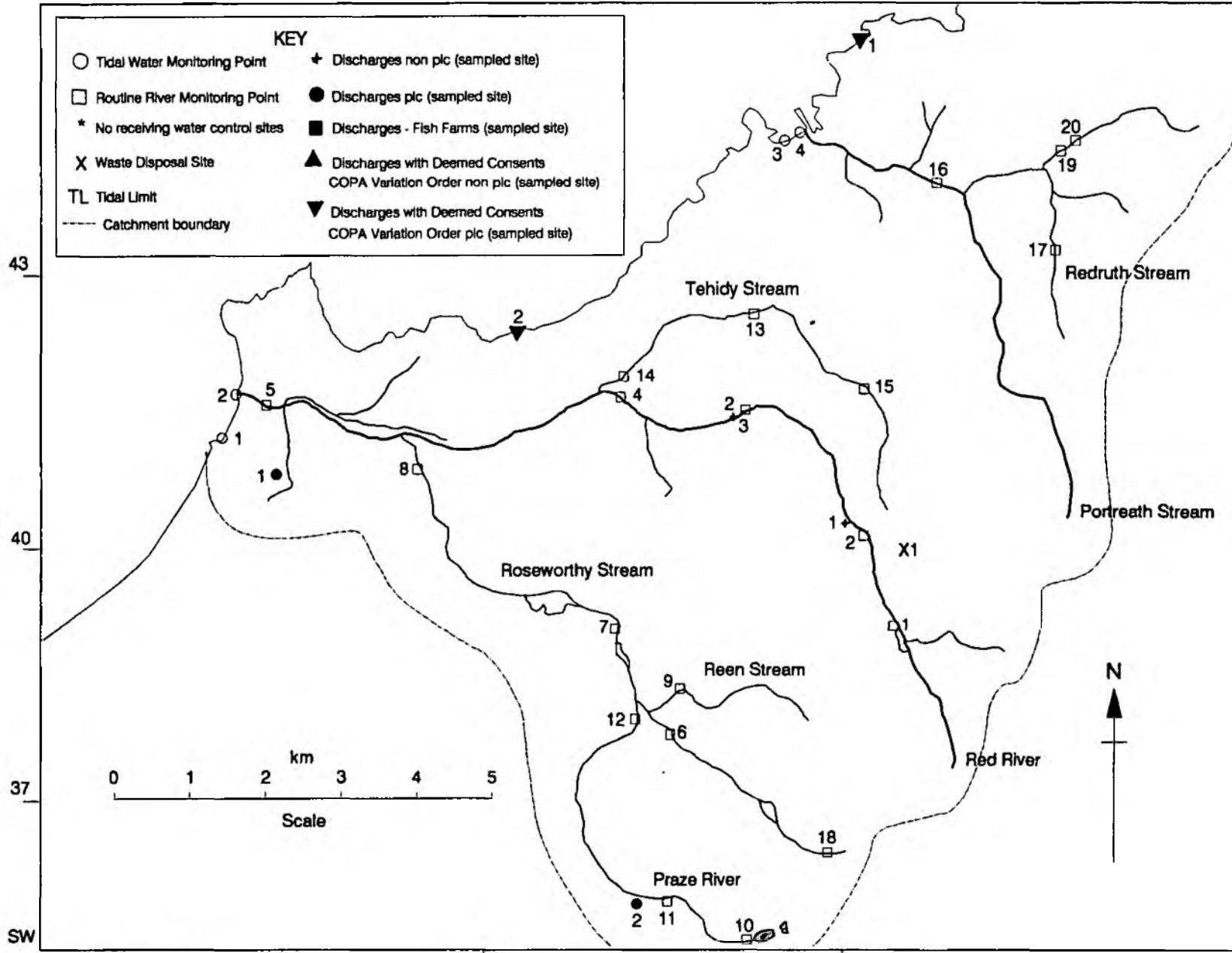
1 R23A011 SW76025443 Ponsmere Bridge Chemical/biological site
 Tidal water quality monitoring point - bathing waters
 2 R23A012 SW75605407 Pleasure Gardens Chemical/biological site
 Freshwater Fish Directive
 Tidal water quality monitoring point - bathing waters
 3 R23A010 SW76735885 Str/Holywell Bch Chemical/biological site
 Tidal water quality monitoring point
 4 R23A013 SW69504747 Porthtowan Bridge Chemical/biological site
 Dangerous Substances Directive
 5 R23A043 SW71424795 Mount Hawke Chemical/biological site
 Dangerous Substances Directive
 6 R23A016 SW72175138 Culvert St Agnes Chemical/biological site
 7 R23A051 SW72805172 Trevaunance Cove Chemical/biological site
 Dangerous Substances Directive

BOLINGEY AND PERRANPORTH CATCHMENTS 23A (cont)

ROUTINE RIVER MONITORING

8	R23A046	SW74734775	Silvermill	Chemical/biological site
9	R23A047	SW74675060	Mithian	Chemical/biological site Dangerous Substances Directive
10	R23A048	SW76855286	Perranwell	Chemical/biological site Dangerous Substances Directive
11	R23A049	SW78935681	Trelaske	Chemical/biological site Dangerous Substances Directive
12	R23A061	SW77366028	Prior to beach	Chemical/biological site
13	R23A052	SW71014626	Menagissey Bridge	Chemical/biological site
14		SW75835226	Penwartha Stream	Biological site Dangerous Substances Directive
15		SW78425606	Treamble Stream	Biological site

Red River & Portreath Catchments 23A



RED RIVER AND PORTREATH CATCHMENTS 23A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1	P23A/P/7	SW66204080	South Crofty Mine	Mine drainage water
2	R23A004	SW64804190	Dolcoath Adit	Mine drainage water
DISCHARGES PLC				
1	WSTW0076FE	SW58664157	Gwithian Churchtown	Sewage treatment works
2	WSTW0182FE	SW63273584	Praze an Beeble	Sewage treatment works
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC				
1	OUT0579	SW66094613	Portreath, Tunnel	Outfall Redlist site Site for current and proposed dangerous substances Site for current dangerous substances
2	OUT0508	SW62154317	Camborne, Outfall	Redlist site Site for current and proposed dangerous substances Paris Commission site
WASTE DISPOSAL SITES				
1	08NS	SW670399	Mine shaft, Carn Brea	
	08NT	SW670399	Quarries, Carn Brea	
TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS				
1	ECB0801	SW581417	The Towans, Godrevy	EC identified bathing waters
2	R23A006	SW583422	Red River	Watercourse to beach
3	ECB0810	SW653455	Portreath Beach	EC identified bathing waters
4	ECBR0810	SW655453	Portreath Stream	Watercourse to beach
ROUTINE RIVER MONITORING				
1	R23A001	SW66903930	Above Brea Tin W'ks	Chemical/biological site Dangerous substances control site
2	R23A002	SW66134090	Above S.Crofty Mine	Chemical/biological site Dangerous substances site
3	R23A003	SW65024201	Roscroggan Bridge	Chemical/biological site Dangerous substances site
4	R23A005	SW62934230	Kieve Bridge	Chemical/biological site
5	R23A006	SW58254222	Gwithian Towans	Chemical/biological site Dangerous substances site Harmonised monitoring site Redlist site
6	R23A038	SW63733774	Botetoe Bridge	Chemical/biological site
7	R23A008	SW63023908	Penponds	Chemical/biological site Dangerous substances site
8	R23A009	SW60624107	Nancemellin	Chemical/biological site
9	R23A007	SW64163849	Ramsgate	Chemical/biological site Dangerous substances site
10	R23A050	SW65083521	Cargenwyn Reservoir	Chemical/biological site Freshwater Fish Directive Algological site
11	R23A045	SW64003563	Praze	Chemical/biological site
12	R23A037	SW63303819	Barriper	Chemical/biological site
13	R23A041	SW65104327	Old Melrose	Chemical/biological site

RED RIVER AND PORTREATH CATCHMENTS 23A (cont)

ROUTINE RIVER MONITORING

14	R23A017	SW62994240	Coombe	Chemical/biological site
15	R23A042	Sw66374217	Tolvaddon Bridge	Chemical/biological site
16	R23A015	SW67364484	Bridge-D/S Cambrose	Chemical/biological site Dangerous substances site Dangerous Substances Directive
17	R23A014	SW68694386	N.Country Bridge	Chemical/biological site Dangerous Substances Directive
18	R23A060	SW659363	Boswyn Reservoir	EC surface water abstraction directive monitoring site Algological site
19		SW686454	Cambrose Stream	Biological site
20		SW688453	Mawla Stream	Biological site

NRA DUTIES AND POWERS

The Authority has statutory duties and powers in relation to water resources, pollution control, flood defence, fisheries, recreation, conservation and navigation along with various other functions given under the 1989 Water Act.

Whilst most of the Authority's duties and powers are exercised in respect of inland waters in England and Wales, it also has substantial responsibilities for the marine environment around the coast of England and Wales. For pollution control and fisheries purposes it has duties and powers out to distances of three nautical miles and six nautical miles respectively, the six miles being for salmonid protection. For flood defence it is responsible for a large number of sea defences (but not coastal protection which falls within the remit of local authorities).

As well as new duties, the NRA has also inherited other duties and powers under earlier legislation such as the 1963 Water Resources Act, 1975 Salmon and Freshwater Fisheries Act, and 1976 Land Drainage Act.

The Authority also has responsibility for implementing a number of Statutory Instruments, Orders, Notices and Directives relating to the 1989 Water Act. Various European Community Directives on the protection of the aquatic environment eg. Bathing Water Quality, Surface Water Quality, and Freshwater Fishlife also strongly influence its work.

NRA MISSION STATEMENT

The National Rivers Authority will protect and improve the water environment. This will be achieved through effective management of water resources and by substantial reductions in pollution. The Authority aims to provide effective defence for people and property against flooding from rivers and the sea. In discharging its duties it will operate openly and balance the interests of all who benefit from and use rivers, ground waters, estuaries and coastal waters. The Authority will be businesslike, efficient and caring towards its employees.

NRA AIMS

To achieve a continuing improvement in the quality of rivers, estuaries and coastal waters, through the control of water pollution.

To assess, manage, plan and conserve water resources and to maintain and improve the quality of water for all those who use it.

To provide effective defence for people and property against flooding from rivers and the sea.

To provide adequate arrangements for flood forecasting and warning.

To maintain, improve and develop fisheries.

To develop the amenity and recreation potential of waters and lands under NRA control.

To conserve and enhance wildlife, landscape and archaeological features associated with waters under NRA control.

To ensure that dischargers pay the costs of the consequences of their discharges, and as far as possible, to recover the costs of water environment improvements from those who benefit.

To improve public understanding of the water environment and the NRA's work.

REGIONAL PRIORITIES

The overall priority is to continue the improvements which were started in the last year in the following key areas.

WATER RESOURCES

- Develop regional strategy document.
- Improve response to licence applications.
- Establish Water Resources planning forum.
- Progress schemes to ameliorate low flows.
- Implement groundwater protection policy.

POLLUTION CONTROL

- Develop regional strategy document.
- Introduce charging for discharges scheme.
- Implement new consenting policy; begin review of deemed consents.
- Complete 1990/91 survey and consult on water quality objectives.
- Carry out EC Directive requirements.
- Introduce new monitoring programmes for effluents and controlled waters.
- Establish a regional laboratory service.

FISHERIES

- Develop regional strategy document.
- Review licence and other charging schemes.
- Harmonise stock assessment techniques.
- Extend programme of restoration and rehabilitation of fish stocks.
- Increase action to control illegal fishing.
- Submit new fishery byelaws to MAFF for confirmation.

RECREATION

- Continue implementations of Water Act Code of Practice.
- Produce strategy for regional sites.
- Improve cost recovery from the recreation service.

CONSERVATION

- Establish database for regulatory purposes.
- Produce strategy for regional sites.
- Promote conservation schemes.