

RIVER FOWEY

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



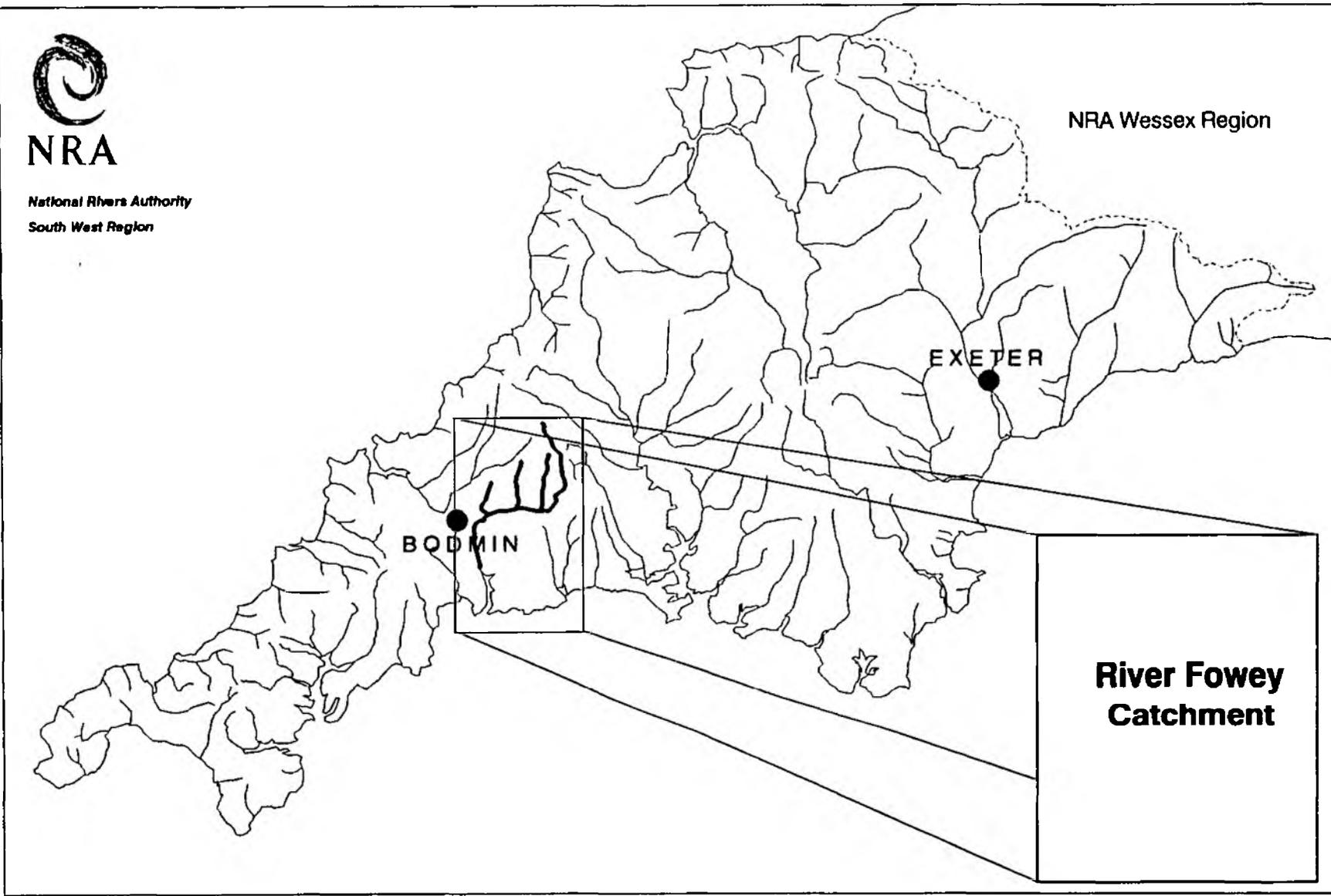
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National Rivers Authority South West Region



NRA

National Rivers Authority
South West Region



NRA Wessex Region

EXETER

BODMIN

**River Fowey
Catchment**

River Fowey 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.

3 CHALLENGES AND ACTIONS

The River Fowey is a premier salmonid river supporting a good diversity of fauna and flora. Its excellent quality is important to maintain as the major potable water supply intake at Restormel is of strategic regional importance together with Colliford Lake and Siblyback Reservoir.

The aims of the plan are to protect water supplies from pollution, re-establish fish stocks to pre-1970 levels, ensure best environmental use of operating agreements for reservoirs; achievement of water quality objectives and enforcement of appropriate legislation.

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

<u>ACTION</u>	<u>TIMETABLE</u>				
	1991	1992	1993	1994	1995
<u>FISHERIES</u>					
Enforce and monitor fixed net legislation.					
Enforce and monitor netting ban for sea fish in estuary.					
Enforce bass legislation for rod fishing.					
Review Net Limitation Order by December 1991.					
Survey all weirs and fish passes. Plan and implement fish pass maintenance/installation.					
Improve fish pass at Golitha Falls.					
Survey for trash dams/plan/clearance.					
Plan and implement spawning gravel rehabilitation work in Draynes Valley, River Warleggan and elsewhere.					

ACTION

TIMETABLE

1991 1992 1993 1994 1995

FISHERIES Continued

Negotiate releases from Colliford and Siblyback to assist angling.

Ensure adequate control of sand erosion within catchment.

Regular full juvenile fish population survey.

Monitor sand eel netting and regulate.

Assess estuarial shell fishery.

Annual redd counts - particular attention to improved areas.

Survey possible fish counter sites. Install new counter possibly at Restormel.

Assess effects on fish stocks of acid run-off from forestry areas.

Continue Colliford investigation programmes.

Stock Colliford Lake with native brown trout reared at Colliford Hatchery.

POLLUTION CONTROL

Review water quality in the catchment.

Investigate causes of non-compliance with water quality objectives and task force programme of remedial action.

Programme to be determined.

_____ Programme to be determined

ACTION

TIMETABLE

1991 1992 1993 1994 1995

POLLUTION CONTROL Continued

Baseline survey of groundwater quality to assess:

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

WATER RESOURCES

Review and promote beneficial changes to the operating arrangements/agreements for Colliford Lake and Siblyback Reservoir. In particular HEP releases.

Review low flow problem sites and promote alleviation schemes for priority sites.

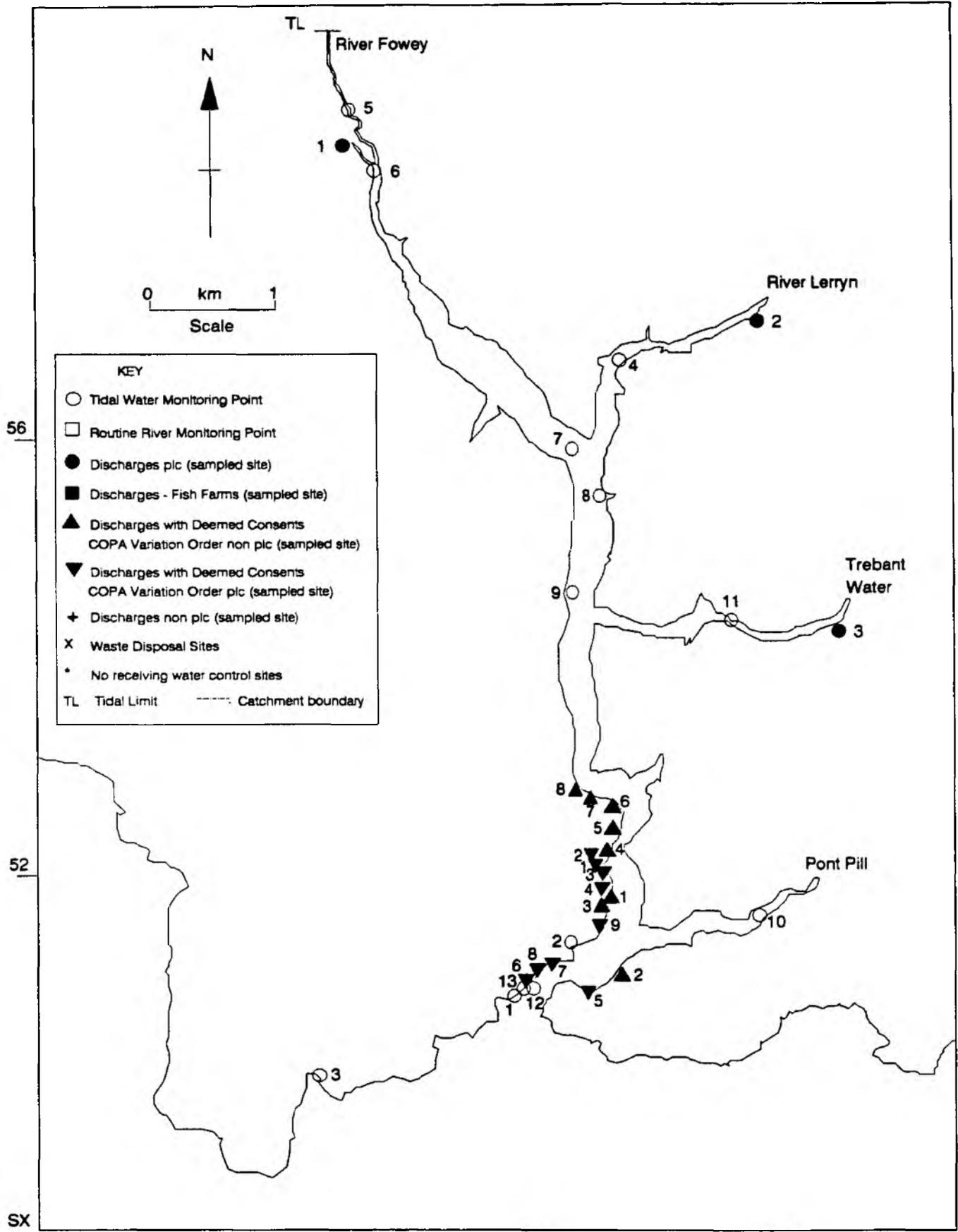
APPENDIX 1

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

Fowey Estuary 15A



56

52

SX

FOWEY ESTUARY 15A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES PLC				
1	WSTW1626FE	SX10865849	Lostwithiel	Sewage treatment works
2	WSTW1622FE	SX14005660	Lerryn	Sewage treatment works
3	WSTW1620FE	SX14605420	Lanteglos Highway	Sewage treatment works
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC				
1	OUT1930	SX12105217	Tower Park	Outfall
2	OUT1933	SX12775196	36 North Street	Outfall
	OUT1934	SX12775196	38 North Street	Outfall
3	OUT1932	SX12735186	AH Watty	Outfall
4	OUT1931	SX12475155	27 Esplanade	Outfall
5	OUT1946	SX12345109	Polruan (Castle)	
	OUT1947	SX12355112	Polruan Pool	Outfall
	OUT1948	SX12695111	Polruan Car Park	Outfall
6	OUT1901	SX12065117	Mr Wisers	Outfall
	OUT0548	SW46702837	Penlee	
7	OUT1902	SX12355141	Paddling Pool	Outfall
	OUT1903	SX12405145	Whitehouse Toilets	Outfall
	OUT1904	SX12435152	41 Esplanade	Outfall
	OUT1906	SX12465154	33 Esplanade	Outfall
	OUT1907	SX12495156	25 Esplanade	Outfall
8	OUT1908	SX12505157	Marina Hotel Quay	Outfall
	OUT1909	SX12585160	P/G Eva	Outfall
	OUT1911	SX12585161	Fowey Bakery(Front)	Outfall
	OUT1912	SX12595161	P J Diner Cafe	Outfall
	OUT1913	SX12625163	Town Quay (Cafe)	Outfall
	OUT1914	SX12645168	Town Quay	Outfall
	OUT1916	SX12665174	Lloyds Bank	Outfall
	OUT1917	SX12685175	Surgery	Outfall
9	OUT1918	SX12685177	Prince Albert Quay	Outfall
	OUT1919	SX12705181	Mission Hall	Outfall
	OUT1920	SX12755190	22 North Street	Outfall
	OUT2000	SX12715182	Post Office Front	Outfall
	OUT1921	SX12715183	Custom House	Outfall
	OUT2001	SX12725183	4 North Street	Outfall
	OUT2002	SX12735185	Fowey Gallents SC	Outfall
	OUT2003	SX12745188	Square Rig	Outfall
	OUT1923	SX12765193	30 North Street	Outfall
	OUT1924	SX12775195	34 North Street	Outfall
	OUT2004	SX12785198	42 North Street	Outfall
	OUT1925	SX12795199	48 North Street	Outfall
	OUT1926	SX12805204	Passage St Car Park	Outfall
	OUT1927	SX12815211	Passage St Crane	Outfall
	OUT1928	SX12815212	18 Passage Street	Outfall
	OUT1929	SX12795217	Riverside Htl Slpwy	Outfall
	OUT1900	SX12335470	Golant	Outfall
	OUT1905	SX12935213	Bodinnick	Outfall
	OUT1952	SX11925095	Readymoney	Outfall
	OUT1954	SX11975116	Dr O'Reilly's	Outfall
	OUT1915	SX12665173	Troy Cinema	Outfall

FOWEY ESTUARY 15A (cont)

NO REFERENCE NGR LOCATION ADDITIONAL DETAILS

DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC

1	P15A/P/451	SX12705185	Riverside Hotel	
	P15A/P/452	SX12725186	Riverside Hotel	
	P15A/P/453	SX12735187	Riverside Hotel	
	P15A/P/454	SX12745188	Riverside Hotel	
	P15A/P/455	SX12755189	Riverside Hotel	
2	P15A/P/459	SX12655107	Toms Yard, Polruan	
	P15A/P/460	SX12705110	Repair Yard, Polruan	
3	P15A/P/401	SX12735228	Port of Fowey	
	P15A/P/402	SX12735227	Port of Fowey	
	P15A/P/403	SX12735227	Port of Fowey	
4	P15A/P/404	SX12755240	Port of Fowey	
	P15A/P/405	SX12745245	Port of Fowey	
5	P15A/P/406	SX12705248	Port of Fowey	
	P15A/P/407	SX12755247	Port of Fowey	
	P15A/P/410	SX12775249	Port of Fowey	
6	P15A/P/411	SX12805250	Port of Fowey	
	P15A/P/412	SX12785251	Port of Fowey	
	P15A/P/413	SX12795251	Port of Fowey	
	P15A/P/414	SX12795252	Port of Fowey	
	P15A/P/415	SX12795254	Port of Fowey	
	P15A/P/416	SX12795256	Port of Fowey	
	P15A/P/417	SX12795256	Port of Fowey	
	P15A/P/418	SX12795257	Port of Fowey	
	P15A/P/419	SX12795258	Port of Fowey	
7	P15A/P/420	SX12835260	Port of Fowey	
	P15A/P/421	SX12845263	Port of Fowey	
	P15A/P/422	SX12855259	Port of Fowey	
	P15A/P/423	SX12805278	Port of Fowey	
8	P15A/P/424	SX12735280	Port of Fowey	
	P15A/P/425	SX12725280	Port of Fowey	
	P15A/P/426	SX12715280	Port of Fowey	
	P15A/P/428	SX12695282	Port of Fowey	
	P15A/P/429	SX12685282	Port of Fowey	
	P15A/P/430	SX12685282	Port of Fowey	
	P15A/P/431	SX12555285	Port of Fowey	
	P15A/P/432	SX12555285	Port of Fowey	
	P15A/P/433	SX12525288	Port of Fowey	
	P15A/P/434	SX12525288	Port of Fowey	
	P15A/P/435	SX12475293	Port of Fowey	
	P15A/P/436	SX12485292	Port of Fowey	
	P15A/P/437	SX12475292	Port of Fowey	
	P15A/P/438	SX12505290	Port of Fowey	

TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS

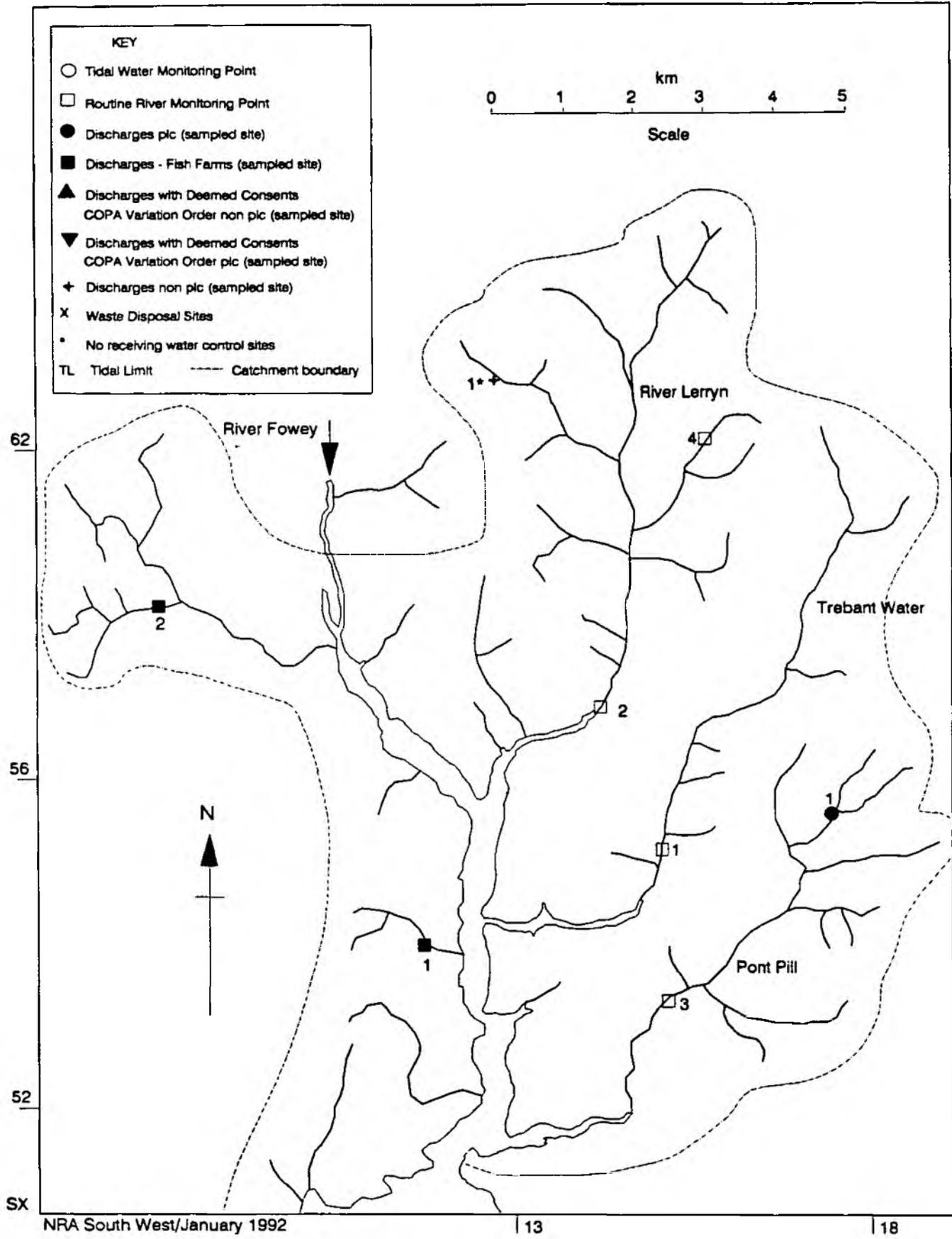
1	ECB0480	SX118511	Readymoney Beach	EC identified bathing water
2	BO475	SX12305140	Whitehouse Beach	Non-identified bathing water
3	BO485	SX10335040	Polridmouth Beach	Non-identified bathing water

FOULY ESTUARY 15A (cont)

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
TIDAL WATER QUALITY MONITORING POINT - ESTUARY QUALITY				
4	E15A8	SX13155675	Lerryn	Routine monitoring site
5	E15A5	SX10505970	Lostwithiel	Routine monitoring site
6	E15A4	SX10855795	At Newham	Routine monitoring site
7	E15A3	SX12405595	Off Penquite	Routine monitoring site
8	E15A2	SX12705525	By Cliff	Routine monitoring site
9	E15A1	SX12455425	Off Golant	Routine monitoring site
	E15A9	SX12405450	Off Golant	Routine monitoring site
10	E15A6	SX13805164	Pont Pill	Routine monitoring site
11	E15A7	SX13705435	Penpoll Creek	Routine monitoring site
12		SX12155100	Off Readymoney	Routine monitoring site
				Water contact sports monitoring point

TIDAL WATER QUALITY MONITORING POINT - BIOTA SAMPLING				
13	SF025	SX11955110	Adjacent to Readymoney Cove	

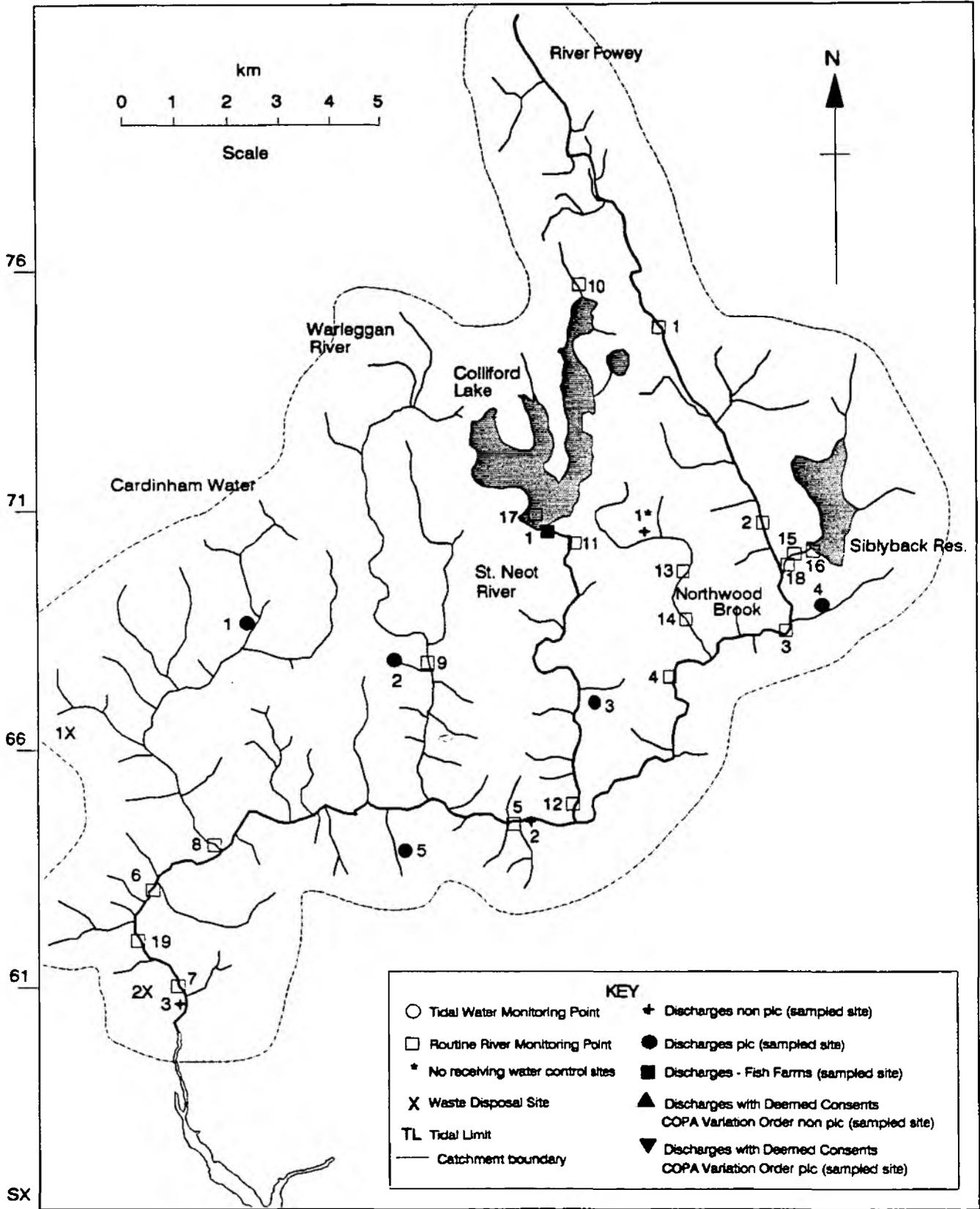
Fowey Catchment 15A



FOWEY CATCHMENT 15A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1*	P15A/P/11	SX12656215	Fairy Cross	Sewage treatment works
DISCHARGES PLC				
1	WSTW4640FE	SX18105672	Lanreath	Sewage treatment works
FISH FARMS				
1	P15B/P/1	SX11855242	Fowey Sea Products	
2	P15B/P/2	SX08255872	Bodmin, (Lanlivery Carp)	
ROUTINE RIVER MONITORING				
1	R15A002	SX15105546	East Tencreek	Chemical/biological site
2	R15A004	SX14335733	Lerryn	Chemical/biological site
3	R15A003	SX15555310	Trethake Mill	Chemical/biological site
4	R15A007	SX15576040	Boconnoc	Chemical/biological site

Fowey Catchment 15B



FOWEY CATCHMENT 15B

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1*	P15B/P/13	SX19907040	Park Pit	China clay works
2	P15B/P/3	SX17906480	Trago Mills	Private STW
3	P15B/P/8	SX10605980	Dairy Crest	Private STW/Lorry washing
DISCHARGES PLC				
1	WSTW1530FE	SX11926885	Cardinham	Sewage treatment works
2	WSTW1642FE	SX15106795	Mount	Sewage treatment works
3	WSTW1716FE	SX18686736	St Neot	Sewage treatment works
4	WSTW4548FE	SX23486923	Common Moor	Sewage treatment works
5	WSTW4574FE	SX18086340	East Taphouse	Sewage treatment works
FISH FARMS				
1	P15B/P/18	SX18007080	Colliford B	
	P15B/P/21	SX17997085	Colliford A	
WASTE DISPOSAL SITES				
1	080APRAL	SX087669	Margate Farm, Cooksland	
2	080AAHAL	SX098607	Hillhead Quarry, Lostwithiel	
ROUTINE RIVER MONITORING				
1	R15B001	SX20657442	Harrowbridge	Chemical/biological site
2	R15B024	SX22307084	Lamelgate	Chemical/biological site
3	R15B002	SX22816893	Draynes Bridge	Chemical/biological site Freshwater Fish Directive
4	R15B003	SX20636748	Treverbyn Bridge	Chemical/biological site
5	R15B004	SX17636486	Bodithiel Bridge	Chemical/biological site
6	R15B025	SX09946353	Respryn Bridge	Chemical/biological site Harmonised monitoring site
7	R15B006	SX10806130	Restormel	Chemical/biological site Freshwater Fish Directive Dangerous substances site
8	R15B021	SX11146440	Glynmill	Chemical/biological site
9	R15B009	SX15936795	Panters Bridge	Chemical/biological site Freshwater Fish Directive
10	R15B034	SX18007700	Colliford Lake	Chemical site Freshwater Fish Directive Algological site
11	R15B014	SX18087075	Colliford Bridge	Chemical/biological site
12	R15B008	SX18556494	Two Waters Foot	Chemical/biological site Freshwater Fish Directive
13	R15B016	SX20636984	Wortha	Chemical/biological site
14	R15B011	SX20986829	Trenant Bridge	Chemical/biological site
15	R15B010	SX22836998	Trekeivesteps Bridg	Chemical/biological site
16	R15B033	SX23157033	Siblyback Reservoir	Chemical/biological site Freshwater Fish Directive Algological site
17	R15B050 R15B051 R15B052	SX179711	Colliford Res	EC Surface water abstraction directive monitoring site Algological site
18	R15B053	SX22726986	Trekeivesteps	EC Surface water abstraction directive monitoring site
19	R15B054	SX09716247	Restormel	EC Surface water abstraction directive monitoring 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.