

# RIVER LYNHER

# 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



110249

**National Rivers Authority  
South West Region**



**NRA**

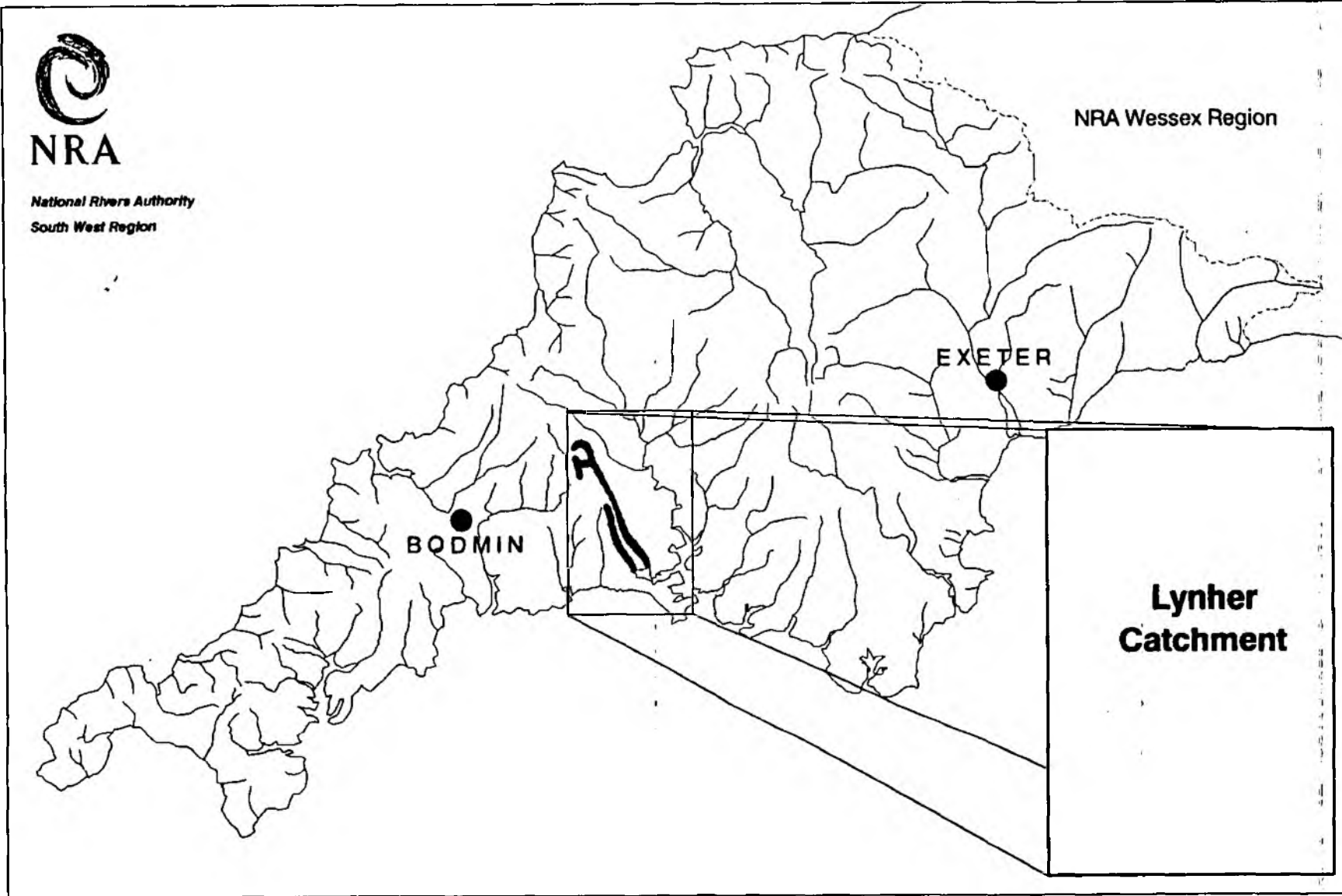
*National Rivers Authority  
South West Region*

NRA Wessex Region

EXETER

BODMIN

**Lynher  
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.

**RIVER LYNHER CATCHMENT ACTION PLAN**

**3. CHALLENGES AND ACTIONS**

The River Lynher drains a catchment area to the west of Plymouth and the Tamar and shares a joint estuary. Its major tributary is the River Tiddy which has exhibited poor water quality due to metal contamination. The main river supports a moderate fish population in need of further support.

The aims of the plan are to re-establish fish stocks to pre-1970 levels, achieve water quality objectives and enforce pollution and water resources legislation.

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

ACTION

TIMETABLE

1991    1992    1993    1994    1995

FISHERIES

Enforce and monitor fixed net legislation.

Enforce and monitor netting ban for sea fish in the estuary.

Review Net Limitation Order by December 1991.

Survey all weirs and fish passes. Plan and implement fish pass installations/maintenance.

Increase depth of jump pool at Clapper Weir.

Investigate introduction of sea trout to Withey Brook.

Survey for trash dams/plan/clearance.

Plan and implement spawning gravel rehabilitation work in area of Bathpool.

	1991	1992	1993	1994	1995
Enforce and monitor fixed net legislation.	_____				
Enforce and monitor netting ban for sea fish in the estuary.	_____				
Review Net Limitation Order by December 1991.	_____				
Survey all weirs and fish passes. Plan and implement fish pass installations/maintenance.	_____				
Increase depth of jump pool at Clapper Weir.	_____				
Investigate introduction of sea trout to Withey Brook.	_____				
Survey for trash dams/plan/clearance.	_____				
Plan and implement spawning gravel rehabilitation work in area of Bathpool.	_____				

ACTION

TIMETABLE

1991 1992 1993 1994 1995

Ensure adequate smolt screens fitted on leats at Rilla Mill and Addicroft.

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Ensure effective control of sand extraction at Trewint.

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Regular full juvenile fish population survey.

Programme to be determined

Annual redd counts - particular attention to improved areas.

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Survey possible fish counter sites. Install counter in lower river section.

\_\_\_\_\_ Programme to be determined

Assess effects on fish stocks in Withey Brook of Bastreet abstraction.

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Determine effects of fish stocks of acid run-off from moorland forestry and old mine workings.

\_\_\_\_\_

Maintain fish trap at Addicroft.

\_\_\_\_\_

POLLUTION CONTROL

Carry out review of water quality in the catchment.

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

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Investigate cause of high zinc concentrations in upper catchment.

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ACTION

TIMETABLE

1991 1992 1993 1994 1995

Develop catchment water quality model using QUASAR.

Prepare catchment description.

Assess impact of historic mining activities on water quality and pollution risk of mine drainage and mine waste deposits.

Investigate water quality Class 4 on River Tiddy and take remedial action.

Develop estuary management plan.

Pre and post scheme appraisal of SWWS STW's improvement schemes.

Undertake pre-scheme appraisal at Portwrinkle.

Determine deemed discharge consents.

Baseline water quality survey of groundwater to establish:

- a) suitability for potable supply.
- b) extent of contamination by substances controlled by EC directives.

WATER RESOURCES

Review abstraction arrangements for Withey Brook Bastreet public water supply abstraction.

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ACTION

TIMETABLE

1991 1992 1993 1994 1995

Promote revised operating arrangement for Withey Brook public water supply abstraction to meet fisheries needs.

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

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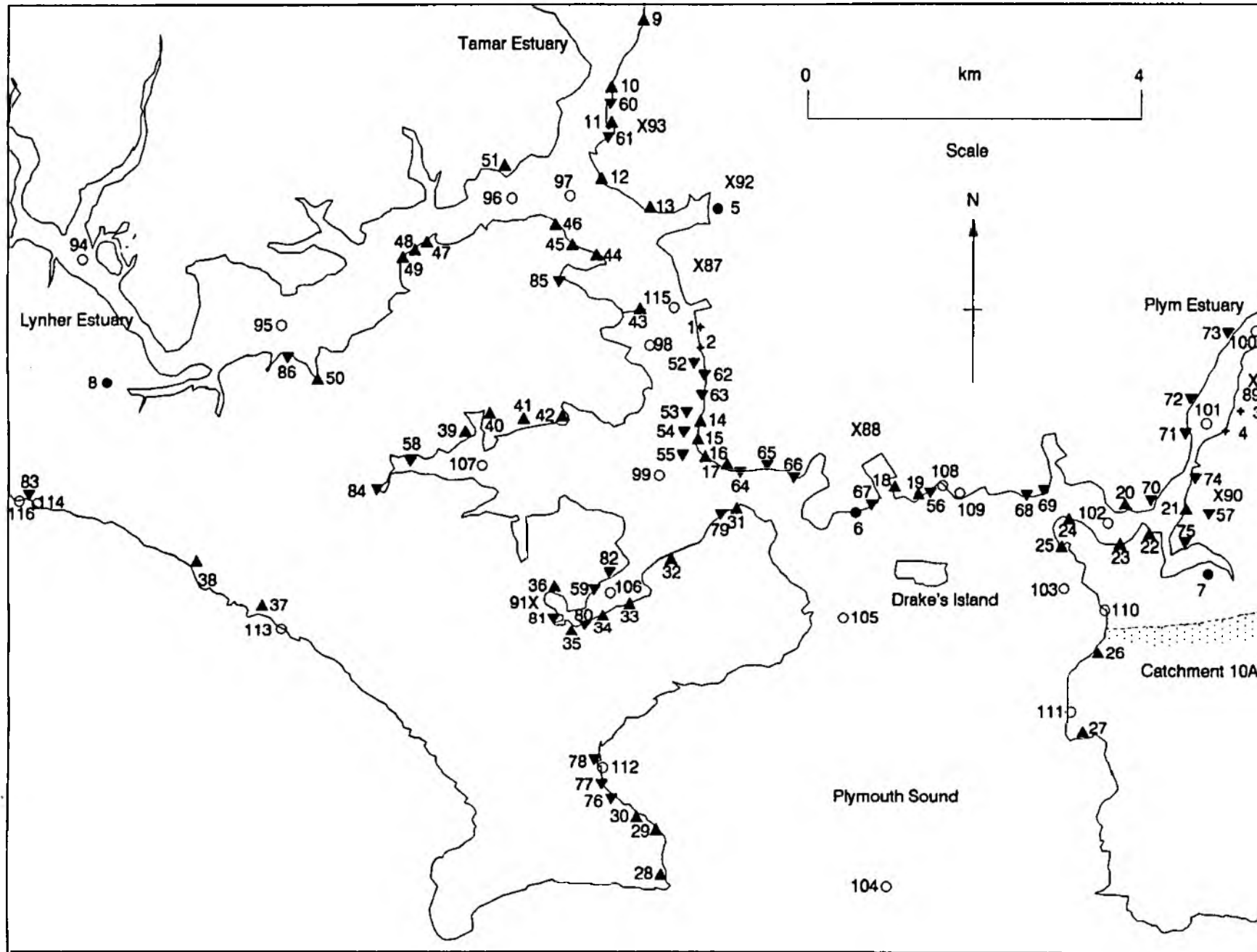
## APPENDIX 1

### 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

# Lower Tamar Estuary 11A & 12A



Version 3 / June 1991

LOWER TAMAR ESTUARY 11A & 12A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
<b>DISCHARGES NON PLC</b>				
1	OUT4939	SX44405630	Devonport Dockyard	Site for current dangerous substances
2	OUT4937	SX44505620	Devonport Dockyard	Site for current dangerous substances Red list site
3	P11A/P/45	SX50405450	Chelson Meadow	Landfill site
4	P11A/P/12	SX50505440	Plymstock	Cement works STW
<b>DISCHARGES PLC</b>				
5	WSTW4722FE	SX44505712	Camels Head	Sewage treatment works Site for current and proposed dangerous substances Red list site Paris commission site
6	OUT4940	SX46715346	Eastern Kings	Outfall Site for current dangerous substances
7	WSTW4726FE	SX50195283	Radford	Sewage treatment works Red list site
8	WSTW4765FE	SX37405490	SheviocK	Sewage treatment works
<b>DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC</b>				
9	P12A/P/146	SX44015926	Ernesettle Plymouth RNAD	
10	P12A/P/58	SX43725872	Ferndale Saltash Passage	
	P12A/P/59	SX43705851	900/902 Wolseley Rd	
	P12A/P/100	SX43655860	891 Wolseley Rd	
	P12A/P/61	SX43705849	898 Wolseley Rd	
	P12A/P/69	SX43705852	904/906 Wolseley Rd	
11	P12A/P/60	SX43615818	863 Wolseley Rd	
	P12A/P/70	SX43605840	885 Wolseley Rd	
	P12A/P/71	SX43605832	865/867 Wolseley Rd	
12	P12A/P/145	SX43415761	RNAD Bullpoint	
13	P12A/P/155	SX43895731	RNAD Bullpoint	
14	P12A/P/111	SX44875508	Morice Yard Devonport	
	P12A/P/112	SX44785501	Morice Yard Devonport	
	P12A/P/128	SX44745503	Morice Yard Devonport	
15	P12A/P/113	SX44785492	Morice Yard Devonport	
	P12A/P/129	SX44735480	Morice Yard Devonport	
16	P12A/P/114	SX44735467	South Yard Devonport	
	P12A/P/115	SX44725465	South Yard Devonport	
	P12A/P/116	SX44705459	South Yard Devonport	
	P12A/P/117	SX44705452	South Yard Devonport	
	P12A/P/118	SX44695443	South Yard Devonport	
	P12A/P/119	SX44685433	South Yard Devonport	
	P12A/P/120	SX44785421	South Yard Devonport	
	P12A/P/121	SX44815433	South Yard Devonport	
	P12A/P/131	SX44825407	South Yard Devonport	
	P12A/P/122	SX44805414	South Yard Devonport	
	P12A/P/123	SX44875404	South Yard Devonport	

LOWER TAMAR ESTUARY 11A & 12A (cont)

DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC

17	P12A/P/124	SX44995398	South Yard Devonport
	P12A/P/125	SX45015395	South Yard Devonport
	P12A/P/126	SX45115393	South Yard Devonport
	P12A/P/127	SX45155393	South Yard Devonport
	P12A/P/130	SX45025392	South Yard Devonport
18	P11A/P/92	SX47015360	Millbay Pier
19	P11A/P/48	SX47755360	Hoe Swimming Pool
20	P11A/P/18	SX49085357	Cattewater Harbour
21	P11A/P/100	SX50105385	DWO Depot
22	P11A/P/98	SX49445323	Turnchapel
23	P11A/P/90	SX49055317	Mountbatten
24	P11A/P/89	SX48955323	Mountbatten
	P11A/P/85	SX48825305	Mountbatten
	P11A/P/86	SX48705310	Mountbatten
25	P11A/P/88	SX48615337	Mountbatten
	P11A/P/87	SX48585337	Mountbatten
26	P10A/P/29	SX49155196	Fort Stadden
27	P10A/P/28	SX48675070	Fort Bovisand
28	P12A/P/49	SX44334890	Penlee Point
29	P12A/P/153	SX44134949	Pier Cellars
30	P12A/P/151	SX44074957	Pier Cellars
	P12A/P/152	SX44104955	Pier Cellars
31	P12A/P/55	SX45305350	Cremyll Shipyard
32	P12A/P/52	SX44505290	Bay Cottage & Mount Edgcumbe Fm
	P12A/P/53	SX44505310	Empacombe House
	P12A/P/54	SX44605310	Empacombe Cottage
33	P12A/P/51	SX43705240	1-3 Wood Park Cottages
	P12A/P/74	SX43825231	Weir Cottage Millbrook
	P12A/P/75	SX43825231	3 Weir Cottages
	P12A/P/96	SX43765225	Sprindthrift Lower Anderton
34	P12A/P/73	SX43535220	Woodpark Millbrook
35	P12A/P/57	SX43175224	1 Foss Cottage
36	P12A/P/50	SX42905250	Mill Fm Mill Lane
37	P12A/P/95	SX39865198	Chalets at Freathy
38	P12A/P/154	SX38255280	Tregantle Fort
39	P12A/P/33	SX42005456	HMS Raleigh Fire Pan
40	P12A/P/147	SX42205462	HMS Raleigh
41	P12A/P/148	SX4275448	HMS Raleigh
42	P12A/P/149	SX42905450	HMS Raleigh
43	P12A/P/150	SX44105592	Yonderbury Point
44	P12A/P/92	SX43475643	1-4 Pato Point Wilcove
45	P12A/P/101	SX43255675	Point Bullock Diamond Works
46	P12A/P/76	SX43295670	Point Bullock Diamond Works
	P12A/P/80	SX43295667	Cove Lodge Defiance site
47	P12A/P/93	SX41505689	Jupiter Point Ctge Nr Antony
48	P12A/P/156	SX41305660	Antony House Torpoint
49	P12A/P/56	SX41135655	Antony House Torpoint
50	P12A/P/77	SX40195517	Clift, Antony
51	P12A/P/94	SX42955769	1-3 Wearde Quay, Cliff Ctge Maryfield View, Weare

Fog signal station

LOWER TAMAR ESTUARY 11A & 12A (cont)

DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC

52	OUT4972	SX44565590	St Levan Road	Outfall Site for current and proposed dangerous substances
53	OUT4922	SX44735535	Albert Road	Outfall Site for current dangerous substances
54	OUT4952	SX44775498	Marlborough Street	Outfall Site for current dangerous substances
55	OUT4942	SX44655420	Edinburgh Street	Outfall Site for current dangerous substances
56	OUT4978	SX47195335	West Hoe	Outfall Site for current and proposed dangerous substances Red list site
57	WSTW4720FE	SX50105402	Billacombe	Sewage treatment works Site for current dangerous substances
58	WSTW4786FE	SX41465405	Torpoint (Trevol)	Sewage treatment works Site for current and proposed dangerous substances
59	OUT4920	SX30269909	Millbrook	Outfall Site for current dangerous substances
60	OUT4964	SX43685865	Normandy Hill	Outfall
61	OUT4968	SX43655844	St Budeaux Wharf	Outfall
	OUT4951	SX43615841	Little Ash Gardens	Outfall
62	OUT4962	SX44785525	Pottery Road	Outfall
63	OUT4936	SX44795469	Cornwall Street	Outfall
64	OUT4956	SX45295394	Mutton Cove	Outfall
65	OUT4954	SX45685398	Mountwise Plymouth	Outfall
66	OUT4958	SX45845386	Ocean Court	Outfall
67	OUT4980	SX46795365	West Millbay	Outfall
68	OUT4934	SX48085365	Citadel	Outfall
69	OUT4926	SX48345360	Fishers Nose	Outfall
70	OUT4953	SX49675359	Prince Rock	Outfall
71	OUT4950	SX50035438	St Judes	Outfall
72	OUT4974	SX50005466	Stenlake Terrace	Outfall
73	OUT4924	SX50425534	Arnolds Point	Outfall
74	OUT4930	SX50065396	Cattedown Wharf	Outfall Site for current dangerous substances
75	OUT4960/1-5	SX499532	Oreston	Five outfalls
76	OUT4911	SX43505015	Cawsand/South	Outfall
	OUT4910	SX43505029	Cawsand/Criterion	Outfall
77	OUT4919	SX43525048	Kingsand/South	Outfall
78	OUT4918	SX43635058	Kingsand/North	Outfall
79	OUT4912	SX45395350	Cremyll	Outfall
80	OUT4921	SX43305220	Millbrook/Anderton	Outfall
81	OUT4917	SX43095222	Millbrook Village	Outfall
82	OUT4986	SX43515261	Southdown B	Outfall
	OUT4987	SX43625261	Southdown C	Outfall

LOWER TAMAR ESTUARY 11A & 12A (cont)

DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC

83	OUT5064	SX35625366	Portwrinke	Outfall
84	WSTW4756FE	SX40945374	St John	Sewage treatment works
85	OUT4982	SX43205645	Willcove	Outfall
86	WSTW4502FE	SX39605520	Antony	Sewage treatment works

WASTE DISPOSAL SITES

87	11AM	SX448568	North Down Crescent, Plymouth
88	11FT	SX465547	Stonehouse Playing Field, Stonehouse
89	11BZ	SX510548	Chelston Meadow, Plymouth
90	11AN	SX511543	Plymstock Works, Plymouth
91	08NL	SX425525	Millpool, Millbrook
92	11FL	SX457578	Weston Mill, Plymouth
93	11FM	SX447586	Weston Mill Road, St Budeaux

TIDAL WATER QUALITY MONITORING POINT - ESTUARY QUALITY

94	E12A13	SX37455625	By Shevioc Wood	Routine monitoring site
95	E12A11	SX42205735	By Antony Passage	Routine monitoring site
96	E12A12	SX40005600	Mid Estuary	Routine monitoring site
97	E12A7	SX43255730	Off Wilcove	Routine monitoring site
98	E12A6	SX44255580	Dockyard	Routine monitoring site
99	E12A5	SX44505400	Lower Estuary	Routine monitoring site
100	E11A3	SX51355580	By Saltram House	Routine monitoring site
101	E11A2	SX50155436	Laira Bridge	Routine monitoring site
102	E11A1	SX49005340	Cattewater	Routine monitoring site
103	E12A8	SX48305215	Jennycliff Bay	Routine monitoring site
104	E12A3	SX46824950	Plymouth Sound	Routine monitoring site
105	E12A4	SX46505215	Br/Plymouth Sound	Routine monitoring site
106	E12A9	SX43605240	Millbrook Lake	Routine monitoring site
107	E12A10	SX42555425	St Johns Lake	Routine monitoring site

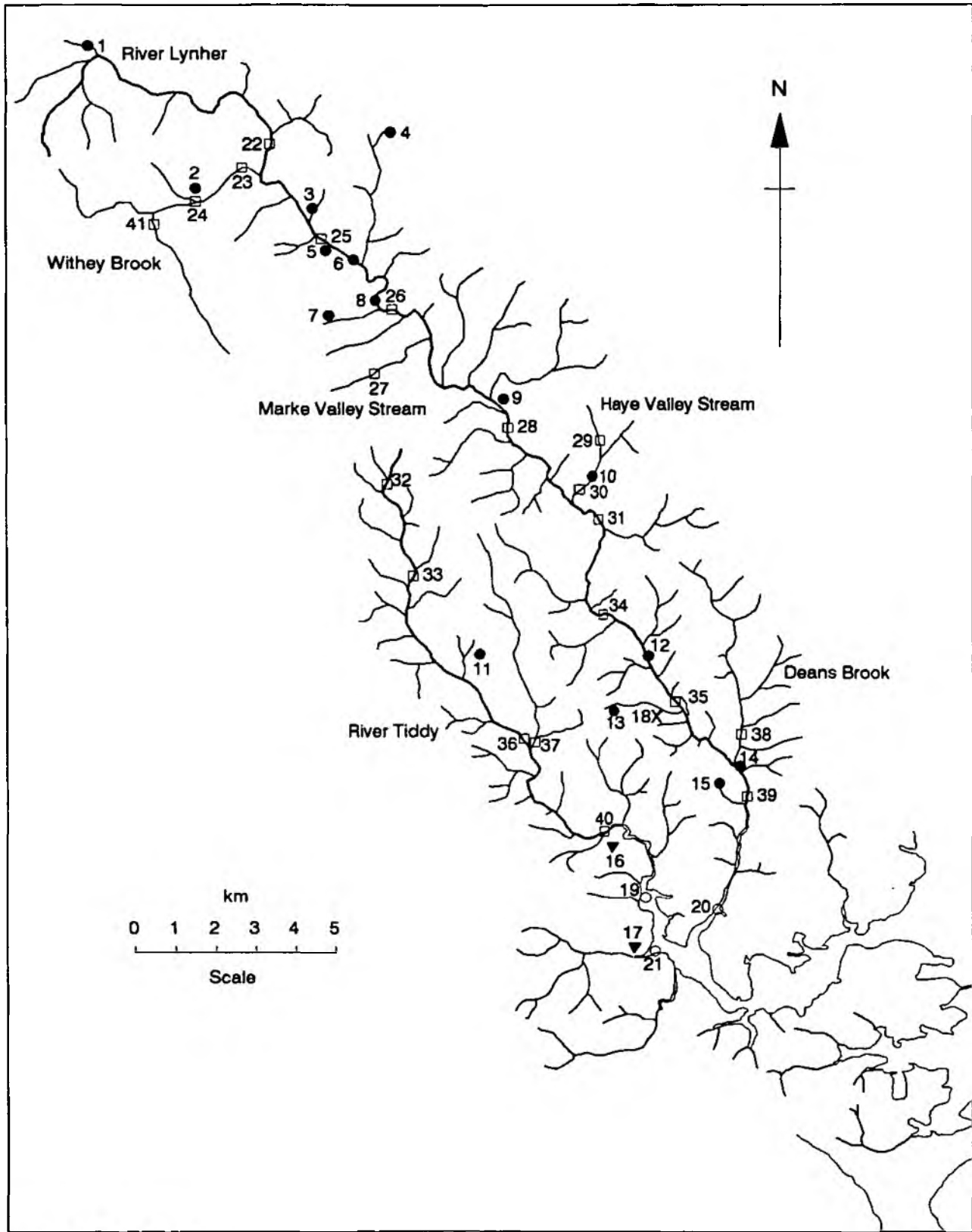
TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS

108	ECB0421	SX475537	Plymouth Hoe/West	EC identified bathing water
109	ECB0420	SX478537	Plymouth Hoe/East	EC identified bathing water
110	B0415	SX49155225	Jennycliff Bay	Non-identified bathing water
111	ECB0410	SX493505	Bovisand Beach	EC identified bathing water
112	B0425	SX43425020	Cawsand Bay	Non-identified bathing water
113	B0426	SX39605205	Whitsand Bay	Non-identified bathing water
114	ECB0430	SX359538	Portwrinkle Beach	EC identified bathing water

TIDAL WATER QUALITY MONITORING POINT - BIOTA SAMPLING

115	SF023	SX44105600	Hamoaze	Bioaccumulation Programme
116	SF002	SX35305390	Port Wrinkle Beach	Bioaccumulation Programme

# Lynher Catchment 12A, 12Q & 12R





LYNHER CATCHMENT 12A, 12Q & 12R

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES PLC				
1	WSTW4802FE	SX21928038	Trewint	Sewage treatment works
2	WWTW5302D	SX24427660	Bastreet	Water treatment works
3	WSTW4702FE	SX27007631	North Hill	Sewage treatment works
4	WSTW4546FE	SX29137698	Coads Green	Sewage treatment works
5	WSTW4682FE	SX27527548	Middlewood	Sewage treatment works
6	WSTW4512FE	SX28407460	Bathpool	Sewage treatment works
7	WSTW4612FE	SX26737314	Henwood	Sewage treatment works
8	WSTW4740FE	SX29207330	Rilla Mill	Sewage treatment works
9	WSTW4592FE	SX320709	Golberdon	Sewage treatment works
10	WSTW4535FE	SX34036888	Callington	Sewage treatment works
11	WSTW4736FE	SX31296459	Quethiock	Sewage treatment works
12	WSTW4716FE	SX36046404	Pillaton	Sewage treatment works
13	WSTW4518FE	SX34506290	Blunts	Sewage treatment works
14	WSTW4608FE	SX38346135	Hatt	Sewage treatment works
15	WSTW4636FE	SX38006100	Landrake	Sewage treatment works

DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC				
16	OUT4900	SX34835951	Tideford	
17	WSTW4754FE	SX35973710	St Germans	Sewage treatment works

WASTE DISPOSAL SITES				
18	08NM	SX361631	Holwood Quarry, Callington	

TIDAL WATER QUALITY MONITORING POINT - ESTUARY QUALITY				
19	E12A16	SX36255850	River Tiddy	Routine monitoring site
20	E12A14	SX38005830	Off Trevollard	Routine monitoring site
21	E12A15	SX35705700	Polbathick	Routine monitoring site

ROUTINE RIVER MONITORING				
22	R12Q001	SX26037778	Trebartha Rd Br	Chemical/biological site
23	R12Q008	SX26107723	Withey Brook	Chemical/biological site Freshwater Fish Directive
24	R12Q010	SX24357637	Withey Brook	Chemical/biological site
25	R12Q002	SX27337564	Berriowbridge	Chemical/biological site
26	R12Q003	SX29487311	Rilla Mill Bridge	Chemical/biological site Freshwater Fish Directive
27	R12Q027	SX28707195	Marke Valley Stream	Chemical/biological site Dangerous Substances Directive
28	R12Q004	SX32157005	Bicton Mill Bridge	Chemical/biological site
29	R12Q026	SX34706991	Haye	Chemical/biological site
30	R12Q009	SX34006888	Caddapit	Chemical/biological site Dangerous Substances Directive
31	R12Q005	SX34736801	Newbridge	Chemical/biological site
32	R12R001	SX29006890	U/S Pensilva STW	Chemical/biological site
33	R12R002	SX29446617	Butterdon Mill	Chemical/biological site Dangerous Substances Directive
34	R12Q025	SX35156526	Clapper Bridge	Chemical/biological site
35	R12Q006	SX36506324	Pillaton Bridge	Chemical/biological site
36	R12R003	SX32886188	Tilland Mill Bridge	Chemical/biological site
37	R12R006	SX33156196	Trecorme Stream	Chemical/biological site
38	R12Q029	SX38256224	Deans Brook	Chemical/biological site

LYNHER CATCHMENT 12A, 12Q & 12R (cont)

ROUTINE RIVER MONITORING

39	R12Q007	SX38506090	Notter Bridge	Chemical/biological site Red list site Freshwater Fish Directive Dangerous substances site Harmonised monitoring point
40	R12R004	SX34435960	Tideford Bridge	Chemical/biological site Red list site Freshwater Fish Directive
41		SX234760	Rushford Water	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.