

RIVER CAMEL

CATCHMENT ACTION PLAN



NRA

*National Rivers Authority
South West Region*

ENVIRONMENT AGENCY



125131

RIVER CAMEL CATCHMENT ACTION PLAN

3. CHALLENGES AND ACTIONS

The River Camel fishery action plan was the model for catchment action plans. The river and its main tributary the Allen supports good runs of salmon and sea trout and were severely affected by a major pollution in 1988 caused by a discharge of aluminum sulphate.

The aims of the plan are therefore to maintain the improvement to fish stocks recorded over the past two and half years to pre 1970 levels and to complete the three year recovery plan; achieve water quality objectives; and enforce pollution and water resources legislation.

Functional officers have identified the remaining 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 the estuary.					
Enforce bass legislation for rod fishing.					
Compensate nets not to fish in 1991 maintaining level of estuarial enforcement.					
Review Net Limitation Order by December 1992.					
Survey all weirs and fish passes. Plan and implement fish pass installation/maintenance.					
Monitor effectiveness of new passes at Camelford and Allensford.					
Repairs to fish pass at Highams Mill (Allen).					

ACTION

TIMETABLE (BAR CHART)

1991 1992 1993 1994 1995

Continue to explore Delank rock obstruction - implement remedial action.



Survey for trash dams/plan/clearance.



Plan and implement spawning gravel rehabilitation work in River Allen and other sites.



Ensure effective smolt screening and adequate flows at Worthyvale Trout Farm and Kenningstock Mill.



Ensure adequate safe guards for SWW washouts to avoid repeat of 1987 pollution.



Assess impact of acid run-off to fish stocks at Delank.



Full juvenile fish population survey in 1991.



Monitor sand eel netting and regulate.



Annual redd counts - particular attention to areas upstream new fish passes or improved areas.



Survey possible sites for fish counters. Install fish counter possibly at Grogley.



POLLUTION CONTROL

Carry out review of water quality in the catchment.



ACTION

TIMETABLE (BAR CHART)

1991 1992 1993 1994 1995

Followed by investigation of causes of non-compliance with water quality objectives.



Complete farm campaign and carry out task force programme of remedial action.



Assess impact of run-off from St Mawgan airfield on water quality.



Pre and post scheme appraisal of SWW Services Ltd STW's capital improvement programme



Develop Camel Estuary water quality management plan.



Assess impact of waste disposal sites at Wheal Prosper, Conce Moor and Trevorder.



Prepare catchment description.



Determined deemed discharge consents.



Baseline water quality survey of groundwater to establish:

- a) suitability for potable use.
- b) extent of contamination by substances controlled by EC Directives.



WATER RESOURCES

Review reservoir operating agreement and abstraction licence conditions for Porth Reservoir.

Programme to be determined

ACTION

TIMETABLE (BAR CHART)

1991 1992 1993 1994 1995

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



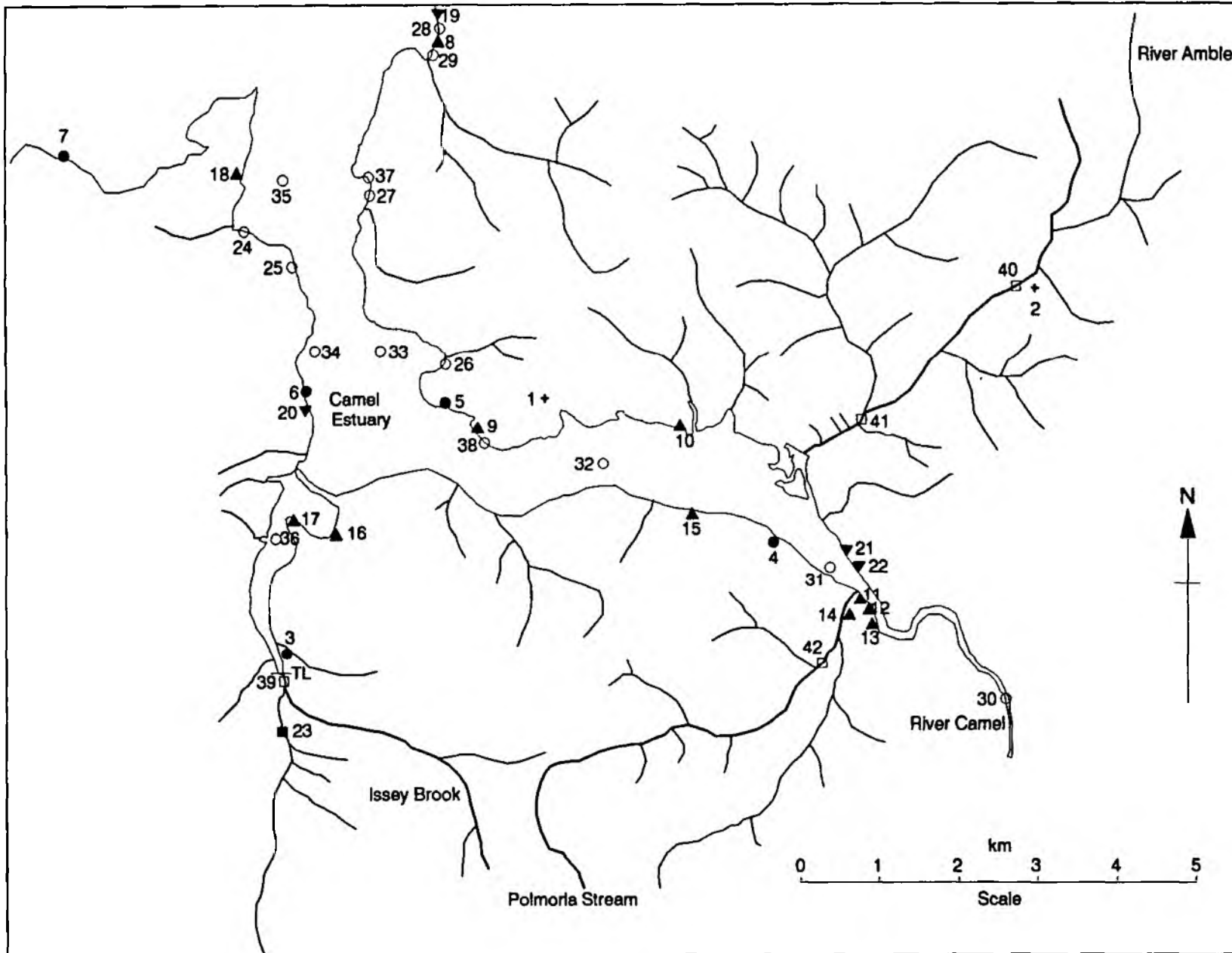
APPENDIX 1

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)
- +
- X Waste Disposal Sites
- TL Tidal Limit
- No receiving water control sites

Camel Estuary Streams 25A



CAMEL ESTUARY STREAMS 25A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1	P25A/P/72	SW95107475	Cant Farm Village	Sewage treatment works
2	P25A/P/310	SX02107680	St. Kew Churchtown	Sewage treatment works
DISCHARGES PLC				
3	WSTW1624FE	SW91807258	Little Petherick	Sewage treatment works
4	WSTW1765FE	SW98127333	Wadebridge	Sewage treatment works Site for current and proposed dangerous substances
5	WSTW1714FE	SW93517508	Porthilly, St Minver	Sewage treatment works
6	OUT1940	SW92067539	Padstow	Outfall
7	WSTW1532FE	SW87207620	St Merryn, Cataclews	Sewage treatment works
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC				
8	P25A/P/407	SW93707900	Surfside Shop, Polzeath	
9	P25A/P/408	SW94207445	Gentle Jane, St Minver	
10	P25A/P/409	SW96957465	Little Dinham Woodland, Caravan Pk	
11	P25A/P/410	SX98927240	Trevilling Depot, Wadebridge	
12	P25A/P/411	SX99157263	(County Hall)	
	P25A/P/412	SW99007260	Martyns Yard, Wadebridge	
	P25A/P/413	SW99057255	Martyns Yard, Wadebridge	
13	P25A/P/414	SW99207240	Bridgend, Wadebridge	
	P25A/P/415	SW99257235	10 Egloshayle Rd, Wadebridge	
	P25A/P/416	SW99207245	Flats, Egloshayle Rd, Wadebridge	
	P25A/P/417	SW99277237	Rumbletums, Wadebridge	
14	P25A/P/418	SW98857210	Workshops, Wadebridge	
	P25A/P/419	SW98907218	Brooklyn Garage, Wadebridge	
	P25A/P/420	SW98877215	Brooklyn Garage, Wadebridge	
15	P25A/P/421	SW96657395	Tregunna House, Wadebridge	
16	P25A/P/422	SW92507350	Benuick, St Issey	
17	P25A/P/423	SW92127368	Gentle Water, St Issey	
	P25A/P/424	SW92107365	Sandpiper Cottage, St Issey	
	P25A/P/425	SW92007364	3 Houses, Sea Mills, St Issey	
18	P25A/P/426	SW91257750	Hawkers Cove Cottages, Padstow	
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC				
19	OUT1950	SW93467957	New Polzeath	Outfall
20	OUT1940	SW92067539	Padstow Piers	Outfall Site for current dangerous substances
21	OUT1947	SW98597325	Trevilling	
22	OUT1922	SW98957273	Gonvena	Outfall
FISH FARMS				
23	P25A/P/49	SW92307140	Melingey Trout Farm	
TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS				
24		SW91257700	Tregirls	Non-identified bathing waters
25		SW91917645	St Georges Well	Non-identified bathing waters
26	ECB0960	SW93607550	Rock Beach	EC identified bathing waters
27	ECB0970	SW928776	Daymer Bay Beach	EC identified bathing waters
28	ECB0980	SW936792	Polzeath Beach	EC identified bathing waters
29	ECBR0980	SW93657890	Polzeath Stream	Watercourse to beach

CAMEL ESTUARY STREAMS 25A (cont)

TIDAL WATER QUALITY MONITORING POINT - ESTUARY QUALITY

30	E25A5	SX00407110	By Pendavey	Routine monitoring site
31	E25A4	SW98497318	Wadebridge	Routine monitoring site
32	E25A3	SW96087410	Mid Estuary	Routine monitoring site
33	E25A2	SW93007555	By Porthilly Cove	Routine monitoring site
34	E25A6	SW92157560	By Padstow	Routine monitoring site
35	E25A1	SW92087775	The Doom River	Routine monitoring site
36	E25A7	SW91807350	Little Petherick Creek	Routine monitoring site

TIDAL WATER QUALITY MONITORING POINT - BIOTA SAMPLING

37	SW92657770	Camel Estuary
----	------------	---------------

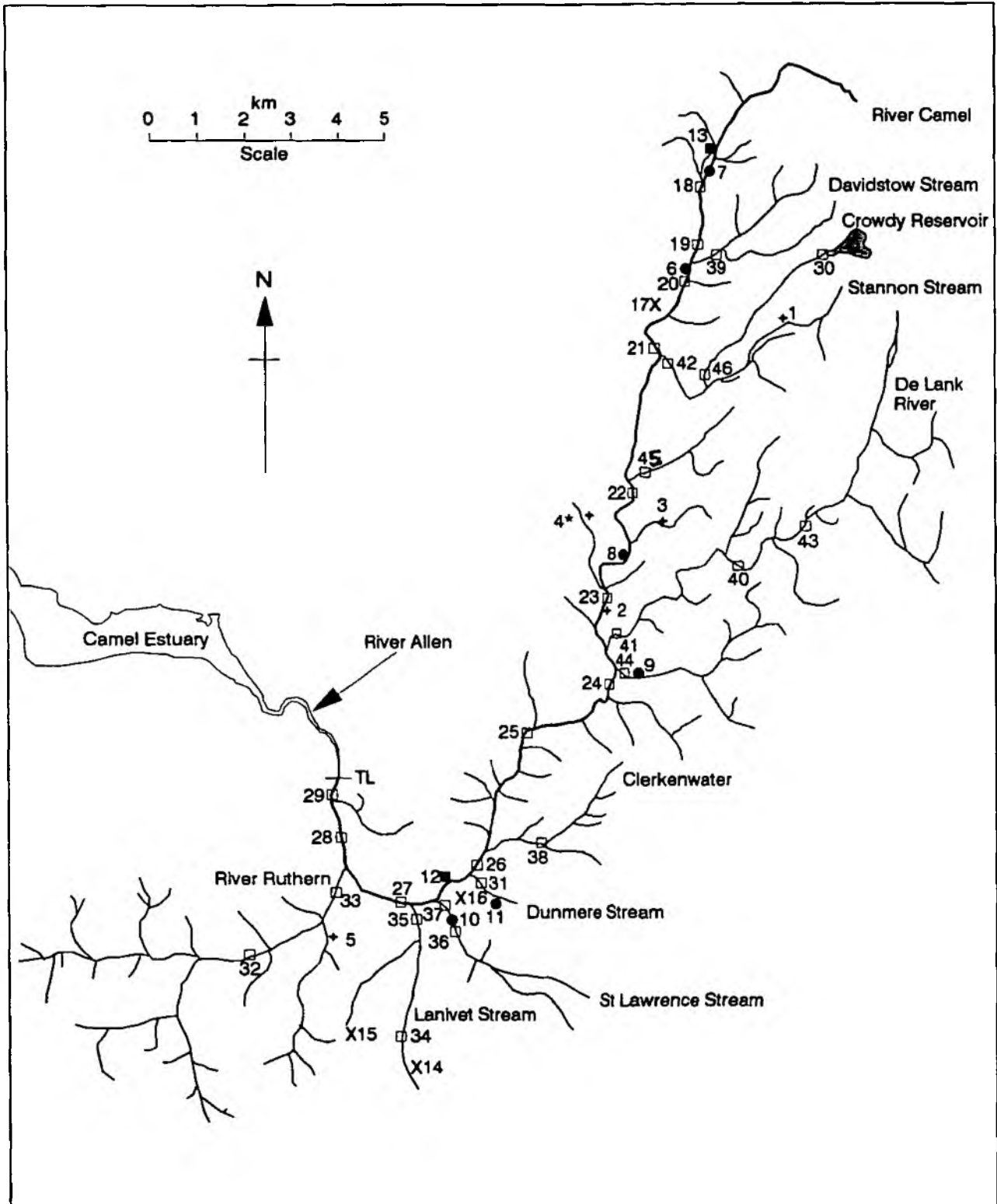
TIDAL WATER QUALITY MONITORING POINT - NON DESIGNATED SHELLFISHERY

38	SW94207430	Gentle Jane
----	------------	-------------

ROUTINE RIVER MONITORING

39	R25A024	SW92067181	Melingey D/S Trib	Chemical/biological site
40	R25A010	SX02117678	St Kew Ford	Chemical/biological site
41	R25A006	SW99887534	Chaple Amble Br	Chemical/biological site
42	R25B053	SW98337155	Polmorla	Chemical/biological site

Camel & De Lank Catchments 25B & 25C



Version 3 / July 1991

CAMEL AND DE LANK CATCHMENTS 25B & 25C

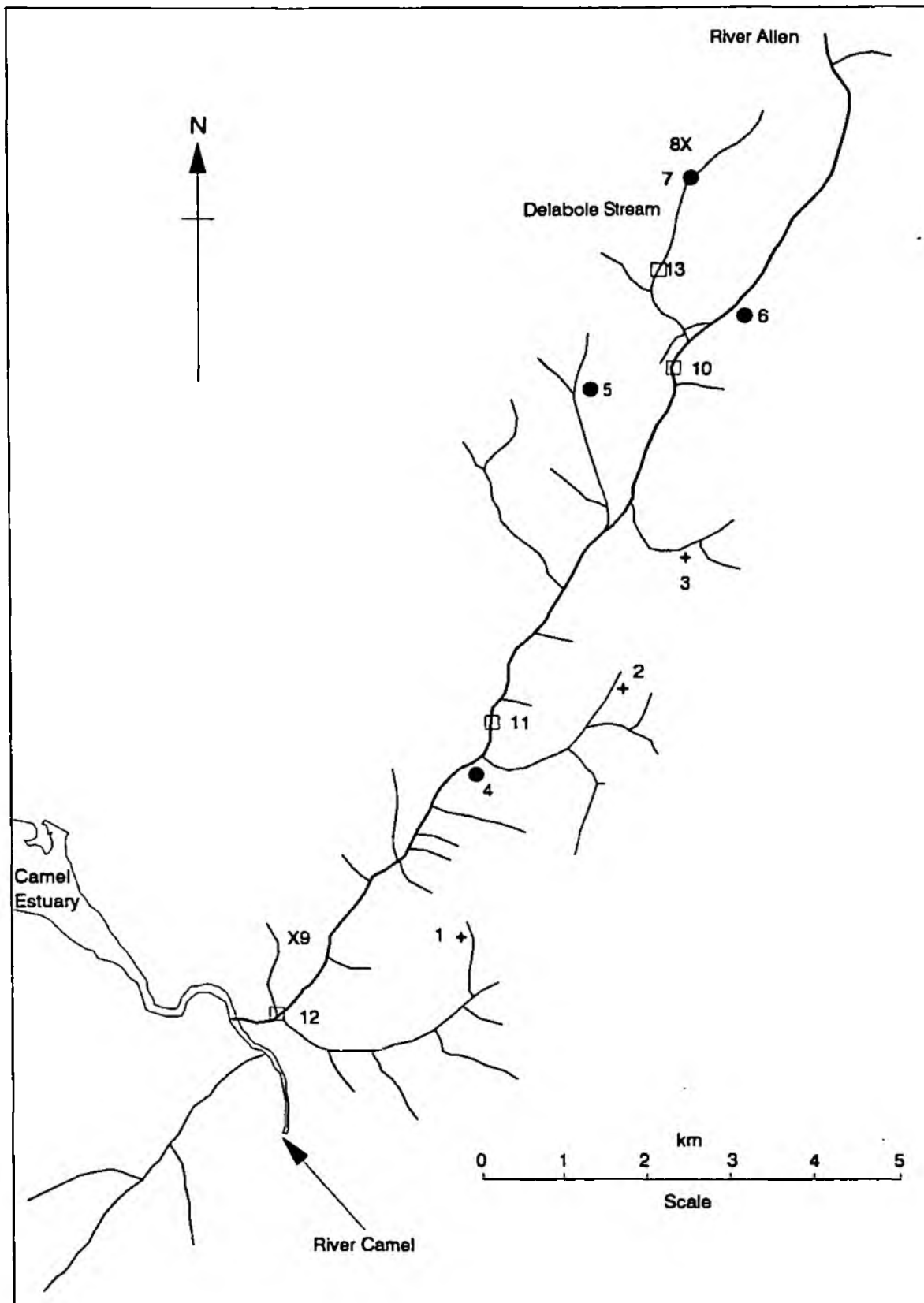
NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1	P25B/P/7	SX12508120	Stannon China Clay	China Clay Discharge
2	P25B/P/8	SX08387421	Wenford Dries	China Clay Discharge
3	P25B/P/15	SX09807740	Tor Down Quarry	Quarry Discharge
4*	P25B/P/24	SX07907680	Hengar Caravan Site	Sewage treatment works
5	P25B/P/52	SX01206630	Ruthern Valley Chalets	Sewage treatment works
DISCHARGES PLC				
6	WSTW1526FE	SX10608340	Camelford	Sewage treatment works
7	WSTW1528FE	SX10398563	Camelford Stn Cottts	Sewage treatment works
8	WSTW1704FE	SX09007615	St Breward	Sewage treatment works
9	WSTW1510FE	SX09987289	Blisland	Sewage treatment works
10	WSTW1515FE	SX04326724	Bodmin, Nanstallon	Sewage treatment works
11	WSTW1516FE	SX05506750	Scarletts Well	Sewage treatment works
FISH FARMS				
12	P25B/P/2	SX04506780	Sunnyside Fish Farm	
13	P25B/P/49	SX110860	Worthyvale Manor	
	P25B/P/50	SX110860	Worthyvale Manor	
	P25B/P/51	SX110860	Worthyvale Manor	
WASTE DISPOSAL SITE				
14	08ND	SX040620	Conce Moor, Luxulyan	
15	08PE	SX030644	Wheal Prosper, Lanivet	
16	08PF	SX049675	Dunmere Quarry, Bodmin	
17	08PG	SX100822	Worthyacre Quarry, Camelford	
ROUTINE RIVER MONITORING				
18	R25B021	SX10938555	Slaughter Bridge	Chemical/biological site
19	R25B001	SX10678383	Camelford Bridge	Chemical/biological site Dangerous substances control site
20	R25B022	SX10388270	Pencarrow	Chemical/biological site Freshwater Fish Directive Dangerous substances site
21	R25B002	SX09738053	Trecarne Bridge	Chemical/biological site
22	R25B003	SX08887785	Gam Bridge	Chemical/biological site Freshwater Fish Directive
23	R25B023	SX08507518	Wenford	Chemical/biological site
24	R25B004	SX08887313	Tresarret Bridge	Chemical/biological site
25	R25B005	SX06557150	Helland Bridge	Chemical/biological site
26	R25B006	SX04806781	Dunmere Bridge	Chemical/biological site Dangerous substances control site
27	R25B007	SX03486741	Nanstallon Bridge	Chemical/biological site Dangerous substances site
28	R25B008	SX01536850	Grogley	Chemical/biological site Dangerous substances site Red list site Freshwater Fish Directive

CAMEL AND DE LANK CATCHMENTS 25B & 25C (cont)

ROUTINE RIVER MONITORING

29	R25B029	SX01386949	Polbrock	Chemical/biological site Dangerous substances site Harmonised monitoring site
30	R25B031	SX13928323	Crowdy Reservoir	Chemical site Freshwater Fish Directive Algological site
	R25B056	SX0128832	Crowdy Reservoir	EC surface water abstraction directive monitoring site
	R25B055			
31	R25B026	SX04786771	Dunmere	Chemical/biological site Dangerous substances site
32	R25B027	SX99816594	Withiel Bridge	Chemical/biological site
33	R25B028	SX01616787	Grogley Downs Bridge	Chemical/biological site Dangerous Substances Directive
34	R25B014	SX03736425	Lanivet	Chemical/biological site
35	R25B016	SX03586728	Nanstallon Bridge	Chemical/biological site
36	R25B040	SX04506697	U/S St Lawrence STW	Chemical/biological site Dangerous substances control site
37	R25B038	SX04336731	Prior to Camel Rvr	Chemical/biological site Dangerous substances site Freshwater Fish Directive
38	R25B018	SX06886878	Clerkenwater	Chemical/biological site
39	R25B024	SX108833	Tregoodwell	Chemical/biological site
40	R25C001	SX11917543	Bradford Bridge	Chemical/biological site
41	R25C002	SX08887390	Key Bridge	Chemical/biological site Freshwater Fish Directive
42	R25B025	SX09758053	Trecarne	Chemical/biological site
43	R25C003	SX13587655	De Lank River	EC surface water abstraction directive monitoring site
44		SX091731	Blisland Stream	Biological site
45		SX090778	Shallow Water	Biological site
46		SX112802	Crowdy Stream	Biological site

River Allen Catchment 25D

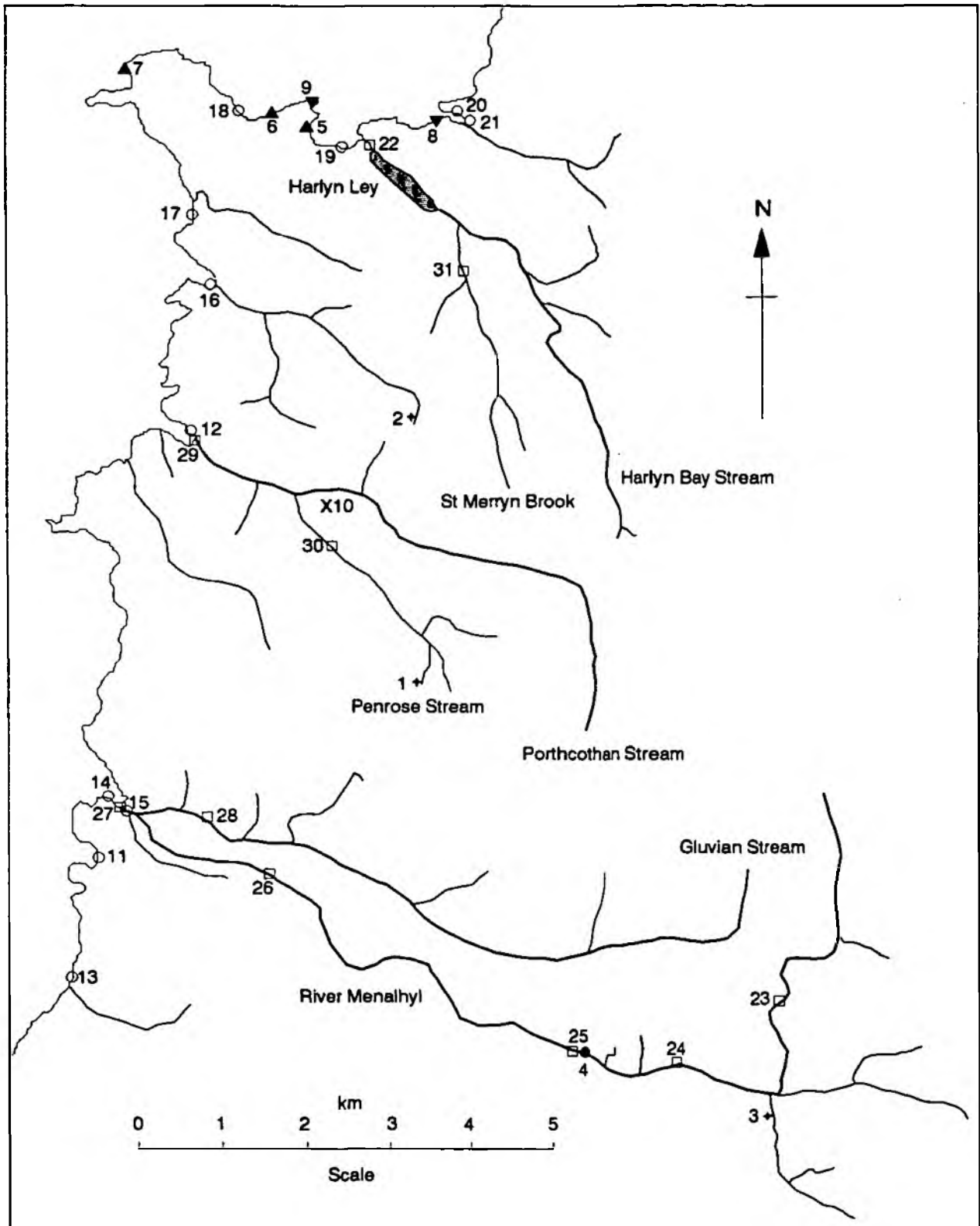


Version 3 / July 1991

RIVER ALLEN CATCHMENT 25D

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1	P25D/P/18	SX04357258	St Mabyn CHST Plant	Sewage treatment works
2	P25D/P/19	SX06437655	St Tudy CHS Plant	Sewage treatment works
3	P25D/P/16	SX07307850	Michaelstow Village	Sewage treatment works
DISCHARGES PLC				
4	WSTW1710FE	SX04227540	St Mabyn/St Kew	Sewage treatment works
5	WSTW1720FE	SX05908060	St Teath	Sewage treatment works
6	WSTW1578FE	SX08688164	Helstone	Sewage treatment works
7	WSTW1538FE	SX07308330	Delabole	Sewage treatment works
WASTE DISPOSAL SITES				
8	08PC	SX071836	Lower Pengelly, Delabole	
9	08NK	SX017725	Treworder, Wadebridge	
ROUTINE RIVER MONITORING				
10	R25D001	SX07138063	Knightsmill Bridge	Chemical/biological site
11	R25D002	SX04557586	Kellygreen Bridge	Chemical/biological site
12	R25D003	SX01077147	Sladesbridge	Chemical/biological site Freshwater Fish Directive
13	R25D009	SX07008218	Newhall Green	Chemical/biological site Dangerous Substances Directive

Menalhyl Catchment 25A



Version 3 / July 1991

MENALHYL CATCHMENT 25A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1	P25A/P/10	SW88406900	RAF St Eval	
2	P25A/P/20	SW88507250	RAF St Eval	
3	P25A/P/51	SW92706306	Tregatillian Cvn Pk	Sewage treatment works
DISCHARGES PLC				
4	WSTW1706FE	SW90606405	St Columb (joint)	Sewage treatment works
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC				
5	P25A/P/427	SW87227588	The Cellars, Harlyn Bay	
6	P25A/P/428	SW86807640	Tregwidden, Trevoise Head	
7	P25A/P/429	SW85057660	Trevoise Lighthouse	
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC				
8	OUT2084	SW88697607	Trevone	Outfall
9	WSTW1532FE	SW87017613	Cataclews	Sewage treatment works
WASTE DISPOSAL SITE				
10	O8NY	SW875712	Lawidden Quarry, Rumford	
TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS				
11		SW84406657	Beacon Cove	Non-identified bathing waters
12		SW85707202	Porthcothan Bch	Non-identified bathing waters
13	ECB0890	SW841649	Watergate Beach	EC identified bathing waters
14	ECB0900	SW848674	Mawgan Porth Beach	EC identified bathing waters
15	ECBR0900	SW849672	Stream A	Watercourse to beach
16	ECB0910	SW857739	Treyarnon Bay Beach	EC identified bathing waters
	ECBR0910	SW858739	Treyarnon Stream	Watercourse to beach
17	ECB0920	SW858748	Constantine Bay Bch	EC identified bathing waters
18	ECB0930	SW863760	Mother Ivey's Bay	EC identified bathing waters
19	ECB0940	SW877755	Harlyn Bay Bch	EC identified bathing waters
20	ECB0950	SW892761	Trevone Bay Bch	EC identified bathing waters
21	ECBR0950	SW893759	Trevone Stream	Watercourse to beach
ROUTINE RIVER MONITORING				
22	R25A007	SW87877539	Harlyn Bridge	Chemical/biological site Tidal water quality monitoring point
23	R25A014	SW92706457	Tregamere	Chemical/biological site
24	R25A001	SW91416399	St Columb Major Br	Chemical/biological site Dangerous substances control site
25	R25A011	SW90416413	Below St Columb	STW Chemical/biological site Dangerous substances site
26	R25A002	SW87266600	St. Mawgan Br	Chemical/biological site
27	R25A003	SW84936716	Mawgan Porth Br	Chemical/biological site Freshwater Fish Directive
28	R25A018	SW86216692	Gluvian	Chemical/biological site
29	R25A008	SW85947208	Porthcothan Rd Br	Chemical/biological site
30		SW874708	Penrose Stream	Biological site
31		SW888743	St Merryn Brook	Biological site