

**NRA - THAMES REGION
WEST AREA**

**CROSS FUNCTIONAL
PLANS**

1995/96

July 1995



NEA Thomas 250.

ENVIRONMENT AGENCY



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WEST AREA CROSS FUNCTIONAL PLANS 1995/96

INTRODUCTION

A Cross Functional Plan for a particular catchment sets out planned actions for the coming year based on the functional elements of the Catchment Management Plan. In doing this, regard has to be paid to the available resources for the year in question, and the relative priorities of the actions. These actions are then grouped by general activity, namely Monitoring, Regulation and Enforcement, Operations and Improvement. Definition of these terms (for the purpose of this document) are given in Appendix 1.

Cross Functional Plans sit alongside our internal Sector Plans which set out planned actions for the coming year for each of the Sectors that make up our West Area. These sectors and the functions they cover are set out in Appendix 2. Each Sector Plan sets out the planned work associated with a **specific function** across **all catchments** whilst each Cross Functional Plan sets out the planned work associated with **all functions** across a **specific catchment**.

The relationship between Catchment Management Plans, Cross Functional Plans and Sector Plans is set out in a flow-chart form in Appendix 3.

Cross Functional Plans have the following aims:

- i. to further develop the integration of different Sectors;
- ii. to demonstrate to the public, on an annual basis, our commitment to delivering the actions set out in Catchment Management Plans;
- iii. to provide a link between our Catchment Management Plans and our internal Business Plans.

Some of the benefits of producing Cross Functional Plans in the way we have are that they:

- a) focus annual commitments for action and planned outputs on river catchments;
- b) provide an opportunity for each Sector to see its work programme in a broader context, aligned with the work programmes of other Sectors;
- c) identify the potential for harmonised phasing of work and shared resources;
- d) are consistent in style with our Catchment Management Plans and should therefore demonstrate readily to external interested parties that we are using the Catchment Management Plan as the basis for determining our annual work programmes;
- e) facilitate the production of annual progress reports for each catchment which will allow us to give feedback to external interested parties.

Sector Plans will remain the internal business tools for the Area, providing both the direct link with the Regional Plan and Corporate Plan and facilitating the objective-setting cascade. Where a full Catchment Management Plan has not yet been produced for a particular catchment, the Cross Functional Plan will be produced from Sector Plans. It will inevitably be a slimmer, simpler Plan and will only be distributed internally.

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1995/96**

W1 RIVER KENNET

July 1995



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6/95

CATCHMENT: W1: KENNET

GENERAL ACTIVITY: MONITORING

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
1. Water quality sampling, manual and automatic: <ul style="list-style-type: none"> - river - canal - trade - groundwater 	W/ES/1	Ann. Prog.	Routine activity in line with National sampling policy for controlled waters & effluents.
2. Biological sampling: invertebrate/bacteriological, algal, macrophyte sampling.	(ES) S/SC1/2	Ann. Prog.	Routine activity. Will form part of quinquennial GQA survey in 95/96.
3. Measurement of rainfall, groundwater levels & river flow, (manually & telemetry).	(ES) T/WR/5	Ongoing	Routine activity. Additional telemetered rain gauge to be installed at Hamstead Marshall.
4. Computer modelling of flows: increase understanding of hydrological & hydrogeological relationships to enhance assessment of environmental consequences of various options.	Tech. Dept. (ES)	Ongoing	Routine activity.
5. Continue compiling a comprehensive groundwater sampling network by the location of survey points and continuation of sampling programme at identified sites in the catchment.	ES/App1/WQ1	31/3/96	CMP issue related action.
6. Survey and map the whole system detailing control structures by type, size and reaches controlled.	FD&E/App1/FD2	31/3/96	CMP issue related action.
7. Review condition of all control structures and prioritise work on them to produce a rolling programme of refurbishment.	FD&E/App1/FD2	31/3/96	CMP issue related action. (Dependant on 6. above)
8. Upper Kennet River Levels Study - aquatic plant study: Detailed aquatic plant survey of the Upper Kennet coverage and species noted. Riparian Owners interviewed. (Also a general aquatic plant (weed) survey of the whole catchment has been completed and report is imminent)	F&C/App1/FC9	31/3/96	CMP issue related action.
9. WQ planning & modelling.	Sci Dept./(ES)	Ongoing	Routine activity, to assess conditions on discharge consent applications. New classifications.

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CATCHMENT: W1: KENNET

GENERAL ACTIVITY: MONITORING cont.

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
10. Water resources planning: assess current & future demands.	Tech.Dept./(ES)	Ongoing	Routine activity.
11. Produce a database of stillwaters to include mapping, ownership and uses. Phase 1 has been completed and has found 96 lakes or pits adjacent to the River Kennet, half of which are actively fished. Other uses need to be assessed similarly.	App 2 F&C F&C/App1/FC4	31/3/96	CMP issue related action. Phase 2 is to incorporate data on SPANS database.
12. River Corridor Survey Lower Kennet	T/F&C/2. W/F&C	31/3/96	Routine activity

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CATCHMENT: W1: KENNET

GENERAL ACTIVITY: REGULATION & ENFORCEMENT

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
1. Discharge consenting & charging for discharges.	(ES) S/WQ/2	Ongoing	Routine activity.
2. Enforcement of pollution control legislation: collection of evidence, follow up legal action, prosecution.	W/ES/2	Ongoing	Routine activity.
3. Compliance of experimental Nitrate Sensitive areas, (eg Ogbourne St George)	W/ES/1	Ongoing	Routine activity, to protect public water supply boreholes from diffuse pollution. Designated until 2000.
4. Enforcement of NRA's policy & practice for the protection of groundwater.	W/ES/5	Ongoing	Routine activity.
5. Abstraction licensing in order to protect both water quantity & quality.	Tech. Dept./(ES)	Ongoing	Routine activity.
6. Abstraction licence enforcement to ensure compliance with licence conditions.	W/ES/4	Ongoing Ann. Prog.	Routine activity.
7. Development planning: to achieve sustainable use of water resources, safeguard NRA interests & identify opportunities for environmental enhancement.	W/ES/ W/F&C/4 W/F&C/5 W/FD&E W/N W/CP/2	Ongoing	Routine activity.
8. Regulation of Fisheries through the issuing of consents.	W/F&C/1	Ongoing	Routine activity.
9. Enforcement of Rod licences, and fisheries byelaws & consents.	W/F&C/1	Ongoing	Routine activity. Bailiffing patrols.
10. Regulation of navigation through issuing of craft registrations.	Tech/Bus. Serv.	Ongoing	Routine activity, (agency basis for BW)
11. Enforcement of craft registration, navigation byelaws & launch safety specifications.	W/N/1	Ongoing Ann. Prog.	Routine activity.
12. Land Drainage consents to primarily prevent flooding.	W/CP/3	Ongoing	Routine activity.
13. Ensure new abstractions are not detrimental to environmental needs: Produce abstraction policy for Kennet Catchment.	W/ES/App1/WR4	31/3/96	CMP issue related action. Draft produced 94/95. Finalise 95/6

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CATCHMENT: W1: KENNET

GENERAL ACTIVITY: REGULATION & ENFORCEMENT cont.

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
14. A34 Newbury Bypass poses a threat of increased flood risk and possible adverse ecological impact: Continue to oppose present form of A34 Newbury Bypass as proposed. Investigate the possibility of incorporating mitigation proposals into a strategic flood alleviation scheme.	W/CP/App1/CP4 W/FD&E/	31/3/95	CMP issue related action. Construction currently on hold pending a review of original proposals.
15. Determination of Axford Licence variation and establishment of flow constraint on River Kennet.	W/ES/8 T/WR/1	31/3/95	CMP issue related action. Licence determined 1994/95, prepare for Public Inquiry.
16. Increase uptake (by local authorities) of model land use statements to enhance the water environment.	W/CP/4	Ongoing	Routine activity.

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CATCHMENT: W1: KENNET

GENERAL ACTIVITY: OPERATIONS

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
1. Provide access to Public Register on Water Quality.	Sci Dept./(ES)	Ongoing	Routine activity. Stat. duty, WR Act 91.
2. Pollution prevention visits: identify & educate potential polluters.	W/ES/3	Ongoing	Routine activity (see no. 19 also).
3. Emergency response service (24hr) to reported incidents of pollution to minimise impact of pollution on the environment.	W/ES/2	Ongoing	Routine activity. Published standards of service.
4. Provide data & advice to further education & understanding of the water environment, eg water companies, public.	All Sectors	Ongoing	Routine activity. Includes site visits.
5. Emergency response service (24hr) for fish rescues to prevent or limit losses of fish.	F&C/OPM	Ongoing	Routine activity. Published standards of service.
6. Provide appropriate land drainage, prevent flooding, whilst ensuring full protection or mitigation of damage to fisheries and other wildlife habitats.	W/FD&E/1 W/F&C/3	Ongoing	Routine activity. Fish. & Cou. input to watercourse maintenance programme, includes aquatic plant management & dredging & bank trimming.
7. Emergency response service (24hr) to reported incidents of flooding to protect people & property, including flood warning.	W/FD&E/1 W/CU/2	Ongoing	Routine activity.
8. River Control: identify responsibility for operation & maintenance of control structures.	FD&E	Ongoing	Routine activity. NRA has powers to supervise riparian owners.
9. Maintain facilities for Navigation & general public, eg locks, moorings, footbridges, stiles etc.	W/FD&E/2 W/FD&E/3 W/N/2 W/N/6 T/N&R/5	Ongoing	Routine activity for NRA owned structures.

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CATCHMENT: W1: KENNET

GENERAL ACTIVITY: OPERATIONS cont.

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
<p>10. Investigate the extent of the problem of turbid water entering R Dun by inspection, sampling and analysis, etc at the Shalbourne/canal confluence and downstream of lock.</p> <p>Ecological effects may also need to be considered: Produce report and make recommendations, considering effect on Fisheries and Conservation including geomorphology.</p>	<p>W/ES/App1/WQ8</p> <p>W/F&C/App1/FC8</p>	<p>31/3/96</p>	<p>CMP issue related action. Scheme proposal to alleviate problems - to be progressed.</p> <p>Sediment monitoring stations established - sampling underway.</p>
<p>11. Maintain the existing high ecological value of the catchment: Actions include the support of designation of part of the Rivers Kennet and Lambourn as a SSSI. Ensure all internal operations are in sympathy with the high nature conservation value of the catchment and advise and promote the sensitive management of this valuable resource.</p>	W/F&C/App1/FC2	30/9/95	<p>CMP issue related action. Collaboration with English Nature.</p> <p>Notification of designation as SSSI (by E.N.) awaited.</p>
<p>12. Thatcham Reed Beds SSSI: Concern that the site is experiencing a reduction in ecological value owing to lack of optimum hydrological regime and management: Instigate an investigation into the problem and recommend actions ie habitat management programme, repair and refurbishment of control structures.</p>	W/F&C/App1/FC3	31/3/96	<p>CMP issue related action. Collaboration with English Nature.</p> <p>Draft management plan for SSSI prepared 94/95, Complete Water Level Management Plan.</p> <p>Collaboration also with RSPB, and Newbury D.C.</p>
<p>13. Investigate cause of the problems of turbid water entering R Dun from canal and identify solutions. Through liaison with BW and riparian owners, the NRA has proposed a scheme to alleviate the problem which will also improve the existing habitat. This involves a silt settlement area in form of a Reed bed and settling pool.</p>	W/F&C/App1/FC8	31/3/96	<p>CMP issue related action. Detailed draft design prepared in 94/95.</p> <p>Consultation with all parties concerned.</p> <p>Planning approval to be sought.</p>

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CATCHMENT: W1: KENNET

GENERAL ACTIVITY: OPERATIONS cont.

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
14. Maintenance and dredging could conflict with conservation interests: Continue (and improve as necessary) sympathetic and sensitive canal and river maintenance for navigation and flood defence purposes. Enhance existing consultation procedures before and during such works. Procedures currently work well and should be continued.	W/FD&E/1 W/F&C/3	Ongoing	CMP issue related action, (now routine).
15. Structure Plan proposals indicate increases in demands on water resources in the targeted development areas ie Newbury and Reading: Commence work to assess need and potential to develop new groundwater resources in the Middle and Lower Kennet. Use of NRA in-house groundwater model to assess effects of abstraction and the potential for further development in the confined aquifer ie for developments between Reading and Newbury.	W/ES/App1/WR3	Ongoing 31/3/96	CMP issue related action.
16. West Berkshire Groundwater Scheme: Develop a strategy and operating agreement, with TWUL, for future use.	W/FD/App1	31/3/96	CMP issue related action. Initial discussions with TWUL during 94/5. Alternative strategies being developed by NRA.
17. Investigation by TWUL of emergency support for Reading Water Supply; from chalk aquifer at Fobney, Thames-side groundwater or river. Test pumping and other work is ongoing.	W/ES/App1/WR3	31/3/96	CMP issue related action. TWUL test pumped 4 bore holes in 94/95. Report being prepared.
18. Kennet and Avon Canal: Evaluate water supply needs (for navigation), resources availability, distribution and limits of operation. Investigate ways of optimising water usage. Continue liaison with relevant parties.	W/ES/App1/WR7	31/3/96	CMP issue related action. Continue discussions with BW to better share information.

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CATCHMENT: W1: KENNET

GENERAL ACTIVITY: OPERATIONS cont.

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
19. Continue programme of pollution prevention campaigns and complete Foudry Brook farming and industrial areas, and Enbourne and tributaries farming areas.	W/ES/App1/WQ7	31/3/96	CMP issue related action. Campaigns well underway during 94/95.
20. Frequent incidence of foam at Reading outfall on Foudry Brook. Aesthetic impact: Liaison as appropriate to explore ways to alleviate problem.	W/ES/App1/WQ12	31/3/96	CMP issue related action.
21. Increased potential risk of flooding in Newbury and Thatcham: Development control in the floodplain by Local Authorities. Continue mathematical modelling of the floodplain of the Rivers Kennet and Lambourn in the Newbury and Thatcham area to ascertain if standards of service are being achieved. Continue monitoring of water levels, flow and gate operation to assist with calibration of hydraulic model.	W/FD/App1/FD1	31/3/96	CMP issue related action. Good data obtained during high flows in 94/95 will help.
22. Management of complex control structures in the Newbury area in order to reduce potential risk of flooding. Continue mathematical modelling (actioned under FD1) to investigate Standards of Service and need for flood defence capital works.	W/FD/App1/FD3	31/3/96	CMP issue related action. Dependent upon outcome of 20. above.
23. Make the NRA public register better publicised eg circulation of NRA leaflet to interested parties.	W/ES W/CP/5	Ongoing	CMP issue related action. Now routine activity.
24. Litter on the Kennet and Avon Canal especially on bank: Improve public awareness and education.	W/ES/App1/WQ9 W/CP/5	31/3/96	CMP issue related action. Litter pick held in 94/5. Repeat in 95/6 (Reading/Newbury councils).

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CATCHMENT: W1: KENNET

GENERAL ACTIVITY: OPERATIONS cont.

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
25. Make positive use of existing groups and fora to: <ul style="list-style-type: none">- help the NRA achieve its co-ordinating role,- report incidents promptly,- promote monitor, audit and review actions. Raise awareness and communicate the importance of implementing the Action Plans by key participants.	W/CP/App1/CP1 W/CP/App1/CP1	Ongoing Ongoing	CMP issue related action.
26. Investigate ways of improving awareness of NRA and its duties through effective communication to external interested parties ie. 'the parties'.	W/CP/App1/CP2	Ongoing	CMP issue related action.

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CATCHMENT: W1: KENNET

GENERAL ACTIVITY: IMPROVEMENT

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
1. Habitat enhancement projects at: R. Dun, N. Standen Estate R. Kennet, Wasing Estate	W/F&C/3 W/FD&E/4	31/7/95 31/8/95	Gravel reinstatement Off River Supplementation Unit
2. Promote the recreational use of water and associated land & encourage public access, primarily through joint ventures.	W/N/6 T/N&R/3	Ongoing	Routine activity to enhance amenity value of water environment. Benefits local community.
3. Promote improvements in water environment in minerals plans: encourage wetland habitat & landscape enhancements as part of 'after use plans'.	W/CP/4	Ongoing	Routine activity.
4. Look to promote and initiate an otter habitat project for the Kennet catchment. Aim to assess its suitability for otters by investigating habitat, prey populations and the levels of toxic pollutants ie through fish tissue analysis. Natural recolonisation will be encouraged. Appointment of project officer to recommend specific habitat enhancement through liaison with landowners.	W/F&C/App1/FC5	31/3/96	CMP issue related action. Field survey work commenced 94/95 and is ongoing. Opportunities for habitat enhancements continue to be identified. Project officer employed by Wilts. Wildlife Trust.
5. Re-establish a substantially self-sustaining run of salmon. Programmed stocking of juvenile salmon into the Rivers Kennet and Lambourn.	W/F&C/App1/FC10	31/3/96	CMP issue related action. 1,000 parr and 8,000 fry stocked in 94/95. 150,000 fry planned for stocking 95/96, as is construction of 2 fish passes.
6. Produce and promote capital proposals and briefs for remote river level and flow monitoring based on the survey work of control structures.	W/FD&E/App1/FD2	31/3/96	CMP issue related action. Commenced 94/95 and ongoing.
7. Environmental impact of increased boat traffic on physical habitat of Kennet & Avon Canal: Take appropriate opportunities for enhancement when doing maintenance works eg soft bank revegetation, off channel refuges for invertebrates and fry, planting etc.	W/FD&E/1 W/F&C/3	31/3/96	CMP issue related action. Ongoing

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CATCHMENT: W1: KENNET

GENERAL ACTIVITY: IMPROVEMENT

Specific Activity	Management Action Plan Ref. (for internal NRA use only)	Date	Comments
CAPITAL WORKS PROGRAMME*			
i) Fish Pass - Fobney Weir (Kennet)	6481	30/11/95	In conjunction with Thames
ii) Fish Pass - Southcote Sluices (Kennet)	6482	30/11/95	Salmon Trust
iii) Fish Pass - Southcote Weir (Kennet)	6483	30/9/95	In conjunction with Thames
iv) Fish Pass - Burghfield Weir (Kennet)	6484	30/9/95	Salmon Trust
v) Blakes Weirs (Kennet)	2351	31/12/95	
vi) Hamstead Marshall Buck Weir (Kennet)	2299	30/9/95	Design/Construction Design/Construction
vii) Hungerford Gauging Station (Shalbourne)	1037	31/7/95	Feasability and Design
viii) Kingsclere Gauging Station (Enborne)	1042	31/7/95	Feasability and Design
ix) Telemetry & Gauging	2263	31/10/95	Area monitoring and control centre
x) Blakes Lock Gates	5650	31/12/95	Feasability/Design/Construction
xi) Shenfield Fish Pass (Kennet)	6485	31/10/95	Feasability/Design
xii) Sulhampstead Fish Pass (Kennet)	6486	31/10/95	Feasability/Design
xiii) Tyle Mill Fish Pass (Kennet)	6487	31/10/95	Feasability/Design
xiv) Padworth Fish Pass (Kennet)	6488	31/10/95	Feasability/Design

* Programme exceeds budget, therefore not all schemes will necessarily be implemented.

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W2 UPPER THAMES TO BUSCOT

July 1995



CROSS FUNCTIONAL PLANS 1995/96

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CATCHMENT: W2: UPPER THAMES TO BUSCOT (Churn, Coln, Leach, Ray, Cole)

GENERAL ACTIVITY: MONITORING

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Measurement of rainfall, groundwater levels & river flow, (manually & telemetry).	(ES) T/WR/5	Ongoing	Routine activity.
2. Water resources planning: assess current & future demands.	Tech. Dept./(ES)	Ongoing	Routine activity.
3. WQ planning & modelling: assess conditions on consent applications.	Sci. Dept./(ES)	Ongoing	Routine activity.
4. Water Quality sampling, manual & automatic: - river - canal - trade - groundwater	W/ES/1	Ann. Prog.	Routine activity
5. Interrogate WQ archive and identify problem areas.	W/ES/1	Ongoing	Routine activity
6. Interrogate Pollution Incident System and identify potential risk areas.	W/ES/2	Ongoing	Routine activity
7. Fish population survey on: Ampney Brook & Tributaries R. Ray & Tributaries R. Churn & Tributaries R. Coln & Tributaries	W/F&C/2 W/F&C/2 W/F&C/2 W/F&C/2	31/10/95 30/9/95 30/4/96 30/4/96	Routine activity (targeted), 28km Routine activity (targeted), 41km Routine activity (targeted), 70km Routine activity (targeted), 67km
8. Biological sampling: invertebrate/macrophyte, algal (main R. Thames only).	(ES) S/SC1/2	Ann. Prog.	Routine activity

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CATCHMENT: W2: UPPER THAMES TO BUSCOT (Churn, Coln, Leach, Ray, Cole)

GENERAL ACTIVITY: REGULATION & ENFORCEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Appraise abstraction consents. Appraise discharge consents.	T/WR/ S/WQ/2 W/ES	Ongoing	Routine activity
2. Abstraction Licence enforcement. Rod licence enforcement. Launch safety enforcement. Craft registration & accomodation licence enforcement.	W/ES/4 W/F&C/1 W/N/1 W/N/1	Ann. Prog.	Routine activity
3. Enforcement of pollution control legislation: collection of evidence, follow up legal action, prosecution.	W/ES/2	Ongoing	Routine activity
4. Regulation of Fisheries through the issuing of consents/licences.	W/F&C/1	Ongoing	Routine activity
5. Land Drainage consents to primarily prevent flooding.	W/CP/3	Ongoing	Routine activity
6. Regulation of Navigation through issuing of craft registrations.	W/N/1 BS/	Ongoing	Routine activity
7. Planning Liaison and Development Control - respond to Planning Applications etc.	All Sectors	Ongoing	Routine activity Co-ordinated by Catchment Planning.
8. Influence developers prior to planning applications to safeguard NRA interests: Prepare development briefs/area specific studies for critical areas identified in local plans, structure plans, and minerals plans.	W/CP/3	Ongoing	Routine activity
9. Influence local plans to account for NRA interest & aspirations. Forward Planning: - Promote uptake of model land use statements - Consider draft local plans	W/CP/4	Ongoing	Routine activity

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CATCHMENT: W2: UPPER THAMES TO BUSCOT (Churn, Coln, Leach, Ray, Cole)

GENERAL ACTIVITY: OPERATIONS

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Emergency response service (24hr) to reported incidents of pollution, flooding, and fish kills/rescues.	W/ES/2 W/FD&E/1 W/F&C/	Ongoing	Routine activity to published Standards of Service.
2. Pollution Prevention visits including campaigns at industrial sites, sewage treatment works and farms.	W/ES/3	Ongoing	Routine activity
3. Flood forecasting and warning. Identify known flooding information. Identify relationship between flood frequency and increasing development. Provide SOS information for river reaches.	T/FD/3 W/FD&E	Ongoing	Routine activity
4. Provide appropriate land drainage, prevent flooding, whilst ensuring full protection or mitigation of damage to fisheries and other wildlife habitats.	W/FD&E/1 W/F&C/3	Ann. Prog.	Routine activity
5. Water level control to prevent flooding and provide safe navigation fairway on R Thames.	W/N/3	Ongoing	Routine activity
6. Maintain facilities for Navigation and general public, eg. locks, moorings, footbridges, stiles etc.	W/FD&E/2 W/FD&E/3 W/N/6 T/N&R/5	Ongoing	Routine activity
7. Provide access to Public Register on Water Quality.	Sci Dept/(ES)	Ongoing	Routine activity
8. Provide data and advice to further education and understanding of the water environment, e.g. water companies, external organisations and public.	All Sectors	Ongoing	Routine activity
9. General input to Catchment Management Plan in reaction to CP requirements.	All Sectors	Ongoing	Routine activity
10. Produce final CMP.	W/CP/1	31/10/95	Routine activity (5yr. cycle)

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CATCHMENT: W2: UPPER THAMES TO BUSCOT (Churn, Coln, Leach, Ray, Cole)

GENERAL ACTIVITY: IMPROVEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Habitat improvement works programme. Identification of potential sites for future programme. Specific enhancement projects at: R. Cole, Lotmead Farm	W/F/&C/3 W/FD/4	Ann. Prog. 30/6/95	Routine activity Pond/wetland creation
2. Promote the recreational use of water & associated land & encourage public access primarily through joint ventures.	T/N&R/3 W/N/6	Ongoing	Routine activity
3. Promote improvements in water environment in minerals plans: encourage wetland habitat & landscape enhancements as part of 'after use plans'.	W/CP/4	Ongoing	Routine activity
4. CAPITAL WORKS PROGRAMME* i) Cerney Wick, overfall (Churn) ii) R. Cole restoration	2260 2355	30/6/95 30/11/95	Feasibility Construction (R.R.P.)

- * Programme exceeds budget, therefore not all schemes will necessarily be implemented.

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W3 RIVER CHERWELL

July 1995



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CATCHMENT: W3: CHERWELL (Ray)

GENERAL ACTIVITY: MONITORING

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Measurement of rainfall, groundwater levels & river flow, (manually & telemetry).	(ES) T/WR/5	Ongoing	Routine activity.
2. Water resources planning: assess current & future demands.	Tech. Dept./(ES)	Ongoing	Routine activity.
3. WQ planning & modelling.	Sci. Dept./(ES)	Ongoing	Routine activity, to assess conditions on consent applications.
4. Water quality sampling, manual & automatic: - river - canal - trade - groundwater	W/ES/1	Ann. Prog.	Routine activity
5. Interrogate WQ archive and identify problem areas.	W/ES/1	Ongoing	Routine activity
6. Interrogate Pollution Incident System and identify potential risk areas.	W/ES/2	Ongoing	Routine activity
7. Fish population survey on R. Cherwell.	W/F&C/2	30/9/95	Routine activity (targeted) Commenced 94/5, 200km
8. Flow fluctuation and poor environmental quality in Oxford: Identify scope of proposed investigative study. Install monitoring equipment. Make recommendations to substantiate/alleviate problem.	W/ES/6	31/3/96	
9. Biological sampling: invertebrate/macrophyte.	(ES) S/SCI/2	Ann. Prog.	Routine activity

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CATCHMENT: W3: CHERWELL (Ray)

GENERAL ACTIVITY: REGULATION & ENFORCEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Appraise abstraction consents. Appraise discharge consents.	T/WR S/WQ/2 W/ES	31/3/95	Routine activity
2. Abstraction Licence enforcement. Rod licence enforcement.	W/ES/4 W/F&C/1	Ann. Prog.	Routine activity
3. Planning Liaison and Development Control - respond to Planning Applications etc.	All Sectors	Ongoing	Routine activity Co-ordinated by Catchment Planning.
4. Influence developers prior to planning applications to safeguard NRA interests: Prepare development briefs/area specific studies for critical areas identified in local plans, structure plans, and minerals plans.	W/CP/3	Ongoing	Routine activity
5. Influence local plans to account for NRA interest & aspirations. Forward Planning: - Promote uptake of model land use statements - Consider draft local plans	W/CP/4	Ongoing	Routine activity
6. Enforcement of pollution control legislation: collection of evidence, follow up legal action, prosecution.	W/ES/2	Ongoing	Routine activity
7. Regulation of Fisheries through the issuing of consents/licences.	W/F&C/1	Ongoing	Routine activity
8. Land Drainage consents to primarily prevent flooding.	W/CP/3	Ongoing	Routine activity

CROSS FUNCTIONAL PLANS 1995/96

6/95

CATCHMENT: W3: CHERWELL (Ray)

GENERAL ACTIVITY: OPERATIONS

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Emergency response service (24hr) to reported incidents of pollution, flooding, and fish kills/rescues.	W/ES/2 W/FD&E/1 W/F&C	Ongoing	Routine activity to published Standards of Service.
2. Pollution Prevention visits including campaigns at industrial sites, sewage treatment works and farms.	W/ES/3	Ongoing	Routine activity
3. Flood forecasting and warning. Identify known flooding information. Identify relationship between flood frequency and increasing development. Provide SOS information for river reaches.	T/FD/3 W/FD&E	Ongoing	Routine activity
4. Provide appropriate land drainage, prevent flooding, whilst ensuring full protection or mitigation of damage to fisheries and other wildlife habitats.	W/FD&E/1 W/F&C/3	Ann. Prog.	Routine activity
5. Provide access to Public Register on Water Quality.	Sci/Dept./(ES)	Ongoing	Routine activity
6. Provide data and advice to further education and understanding of the water environment, eg. water companies, external organisations and public.	All Sectors	Ongoing	Routine activity
7. General input to Catchment Management Plan in reaction to CP requirements.	All Sectors	Ongoing	Routine activity
8. Produce final CMP.	W/CP/1	31/1/96	Routine activity (5yr. cycle)

CROSS FUNCTIONAL PLANS 1995/96

6/95

CATCHMENT: W3: CHERWELL (Ray)

GENERAL ACTIVITY: IMPROVEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Habitat improvement works programme and identify potential sites for future programme. Specific habitat enhancement at: R. Ray at Blackthorn	W/F&C/3 W/FD&E/4	Ann. Prog. 31/7/95	Routine activity Water Level Management
2. Promote the recreational use of water & associated land & encourage public access primarily through joint ventures.	T/N&R/3 W/N/6	Ongoing	Routine activity
3. Promote improvements in water environment in minerals plans: encourage wetland habitat & landscape enhancements as part of 'after use plans'.	W/CP/4	Ongoing	Routine activity
4. CAPITAL WORKS PROGRAMME* i) Telemetry & Gauges (weirs) ii) Oxford Gauging Station (Cherwell)	2246/2051 1039	31/7/95 31/7/95	Area monitoring & control centre. Design 95/6 (Construction 96/7)

* Programme exceeds budget, therefore not all schemes will necessarily be implemented.

**NRA - THAMES REGION
WEST AREA**

**CROSS FUNCTIONAL
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1995/96**

**W4 RIVER THAMES
BENSON TO HURLEY**

July 1995



CROSS FUNCTIONAL PLANS 1995/96

6/95

CATCHMENT: W4: THAMES - BENSON TO HURLEY (Wye, Pang)

GENERAL ACTIVITY: MONITORING

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Measurement of rainfall, groundwater levels & river flow, (manually & telemetry).	(ES) T/WR/5	Ongoing	Routine activity
2. Water resources planning: assess current & future demands.	Tech. Dept./(ES)	Ongoing	Routine activity
3. WQ planning & modelling.	Sci. Dept./(ES)	Ongoing	Routine activity, to assess conditions on consent applications.
4. Water Quality sampling, manual & automatic: - river - canal - trade - groundwater	W/ES/1	Ann. Prog.	Routine activity
5. Interrogate WQ archive and identify problem areas.	W/ES/1	Ongoing	Routine activity
6. Interrogate Pollution Incident System and identify potential risk areas.	W/ES/2	Ongoing	Routine activity
7. Biological sampling: invertebrate/ macrophyte, algal (main R. Thames only).	W/ES/1	Ongoing	Routine activity

CROSS FUNCTIONAL PLANS 1995/96

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CATCHMENT: W4: THAMES - BENSON TO HURLEY (Wye, Pang)

GENERAL ACTIVITY: REGULATION & ENFORCEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Appraise abstraction consents Appraise discharge consents	T/WR S/WQ/2 W/ES	Ongoing	Routine activity
2. Abstraction Licence enforcement. Rod licence enforcement. Launch safety enforcement. Craft registration and accomodation licence enforcement.	W/ES/4 W/F&C/1 W/N/1 W/N/1	Ongoing	Routine activity
3. Planning Liaison and Development Control - respond to Planning Applications etc.	All Sectors	Ongoing	Routine activity Co-ordinated by Catchment Planning.
4. Influence developers prior to planning applications to safeguard NRA interests: Prepare development briefs/area specific studies for critical areas identified in local plans, structure plans, and minerals plans.	W/CP/3	Ann. Prog.	Routine activity
5. Influence local plans to account for NRA interest and aspirations. Forward Planning: - Promote uptake of model land use statements - Consider draft local plans	W/CP/4	Ongoing	Routine activity
6. Enforcement of pollution control legislation: collection of evidence, follow up legal action, prosecution.	W/ES/2	Ongoing	Routine activity
7. Regulation of Fisheries through the issuing of consents/licences.	W/F&C/1	Ongoing	Routine activity
8. Land Drainage consents to primarily prevent flooding.	W/CP/3	Ongoing	Routine activity
9. Regulation of Navigation through issuing of craft registrations.	W/N/1 BS/	Ongoing	Routine activity

CROSS FUNCTIONAL PLANS 1995/96

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CATCHMENT: W4: THAMES - BENSON TO HURLEY (Wye, Pang)

GENERAL ACTIVITY: OPERATIONS

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Emergency response service (24hr) to reported incidents of pollution, flooding, and fish kills/rescues.	W/ES/2 W/FD&E/1 W/F&C	Ongoing	Routine activity to published Standards of Service.
2. Pollution Prevention visits including campaigns at industrial sites, sewage treatment works and farms.	W/ES/3	Ongoing	Routine activity
3. Flood forecast and warning. Identify known flooding information. Identify relationship between flood frequency and increasing development. Provide SOS information for river reaches.	T/FD/3 W/FD&E	Ongoing	Routine activity
4. Provide appropriate land drainage, prevent flooding, whilst ensuring full protection or mitigation of damage to fisheries and other wildlife habitats.	W/FD&E/1 W/F&C/3	Ann. Prog.	Routine activity
5. Water level control to prevent flooding and provide safe navigation fairway on R Thames.	W/N/3	Ongoing	Routine activity
6. Maintain facilities for Navigation and general public, eg. locks, moorings, footbridge, stiles etc.	W/FD&E/2 W/FD&E/3 W/N/6 T/N&R/5	Ongoing	Routine activity
7. Provide access to Public Register on Water Quality.	Sci Dept/(ES)	Ongoing	Routine activity
8. Provide data and advice to further education and understanding of the water environment, eg. water companies, external organisations and public.	All Sectors	Ongoing	Routine activity
9. General input to Catchment Management Plan in reaction to CP requirements.	All Sectors	Ongoing	Routine activity
10. Produce CMP Consultation Report.	W/CP/1	31/3/96	Routine activity (5yr. cycle)

CROSS FUNCTIONAL PLANS 1995/96

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CATCHMENT: W4: THAMES - BENSON TO HURLEY (Wye, Pang)

GENERAL ACTIVITY: IMPROVEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Habitat improvement works programme. Identification of potential sites for future programme.	W/F&C/3 W/FD/4	Ann. Prog.	Routine activity
2. Promote the recreational use of water & associated land & encourage public access primarily through joint ventures.	T/N&R/3 W/N/6	Ongoing	Routine activity
3. Promote improvements in water environment in minerals plans: encourage wetland habitat & landscape enhancements as part of 'after use plans'.	W/CP/4	Ongoing	Routine activity
4. CAPITAL WORKS PROGRAMME*			
i) Fish Pass - Marsh Weir (Thames)	6468	31/8/95	Construction
ii) Hurley Weir (Thames)	2247	31/10/95	Design/Construction
iii) Hambleden Weir (Buck Gate)(Thames)	2250	31/1/96	Design 95/96 (Construction 96/7)
iv) R. Pang F.A.S. study	2259	31/7/95	Feasibility Study
v) Sonning d/s Lock cut bank protection	5559	28/2/96	Design/Construction
vi) Whitchurch Lock Tail Layby	5597	30/4/95	Construction
vii) Marsh Lock Tail Layby and bank protection	5611	31/12/95	Construction
viii) Goring Lock Tail Bank Protection	5612	30/6/95	Construction
ix) Blewbury Gauging Station (Mill Brook)	1036	30/11/95	Feasibility/Design/Construction
xi) Hydrometric study (Wye)	1961	31/7/95	Pre proposed enhancement works
xii) Benson Lock Tail Cut Bnk Ptu.	5641	31/8/95	Design

* Programme exceeds budget, therefore not all schemes will necessarily be implemented.

**NRA - THAMES REGION
WEST AREA**

**CROSS FUNCTIONAL
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1995/96**

**W5 RIVER THAMES
BUSCOT TO EYNHAM**

July 1995



CROSS FUNCTIONAL PLANS 1995/96

6/95

CATCHMENT: W5: THAMES - BUSCOT TO EYNHAM (Windrush, Evenlode)

GENERAL ACTIVITY: MONITORING

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Measurement of rainfall, groundwater levels & river flow, (manually & telemetry).	(ES) T/WR/5	Ongoing	Routine activity
2. Water resources planning: assess current & future demands.	Tech. Dept./(ES)	Ongoing	Routine activity
3. WQ planning & modelling.	Sci. Dept./(ES)	Ongoing	Routine activity, to assess conditions on consent applications.
4. Water Quality sampling, manual & automatic: - river - canal - trade - groundwater	W/ES/1	Ann. Prog.	Routine activity
5. Interrogate WQ archive and identify problem areas.	W/ES/1	Ongoing	Routine activity
6. Interrogate Pollution Incident System and identify potential risk areas.	W/ES/2	Ongoing	Routine activity
7. Fish population survey on R. Thames.	W/F&C	30/9/95	Routine activity (targeted), 52km
8. River Corridor survey on R. Evenlode.	W/F&C/2	31/3/96	Routine activity (targeted)
9. Biological sampling: invertebrate/macrophyte, algal (main R. Thames only)	(ES) S/SCI/2	Ongoing	Routine activity

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CATCHMENT: W5: THAMES - BUSCOT TO EYNHAM (Windrush, Evenlode)

GENERAL ACTIVITY: REGULATION & ENFORCEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Appraise abstraction consents. Appraise discharge consents.	T/WR S/WQ/2 W/ES	31/3/95	Routine activity
2. Abstraction Licence enforcement. Rod licence enforcement. Launch safety enforcement. Craft registration and accomodation licence enforcement.	W/ES/4 W/F&C/1 W/N/1 W/N/1	Ann. Prog.	Routine activity
3. Planning Liaison and Development Control - respond to Planning Applications etc.	All Sectors	Ongoing	Routine activity Co-ordinated by Catchment Planning.
4. Influence developers prior to planning applications to safeguard NRA interests: Prepare development briefs/area specific studies for critical areas identified in local plans, structure plans, and minerals plans.	W/CP/3	Ongoing	Routine activity
5. Influence local plans to account for NRA interest and aspirations. Forward Planning: - Promote uptake of model land use statements - Consider draft local plans	W/CP/4	Ongoing	Routine activity
6. Enforcement of pollution control legislation: collection of evidence, follow up legal action, prosecution.	W/ES/2	Ongoing	Routine activity
7. Regulation of Fisheries through the issuing of consents/licences.	W/F&C/1	Ongoing	Routine activity
8. Land Drainage consents to primarily prevent flooding.	W/CP/3	Ongoing	Routine activity
9. Regulation of Navigation through issuing of craft registrations.	W/N/1 BS/	Ongoing	Routine activity

CROSS FUNCTIONAL PLANS 1995/96

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CATCHMENT: W5: THAMES - BUSCOT TO EYNHAM (Windrush, Evenlode)

GENERAL ACTIVITY: OPERATIONS

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Emergency response service (24hr) to reported incidents of pollution, flooding, and fish kills/rescues.	W/ES/2 W/FD&E/1 W/F&C	Ongoing	Routine activity to published Standards of Service.
2. Pollution Prevention visits including specific campaign at industrial sites, sewage treatment works and farms.	W/ES/3	Ongoing	Routine activity
3. Flood forecasting and warning. Identify known flooding relationship between flood frequency and increasing development. Provide SOS information for river reaches.	T/FD/3 W/FD&E	Ongoing	Routine activity
4. Provide appropriate land drainage, prevent flooding, whilst ensuring full protection or mitigation of damage to fisheries and other wildlife habitats.	W/FD&E/1 W/F&C/3	Ann. Prog.	Routine activity
5. Water level control to prevent flooding and provide safe navigation fairway on R Thames.	W/N/3	Ongoing	Routine activity
6. Maintain facilities for Navigation and general public, eg. locks, moorings, footbridges, stiles etc.	W/FD&E/2 W/FD&E/3 W/N/6 T/N&R/5	Ongoing	- Routine activity
7. Provide access to Public register on Water Quality.	Sci. Dept./(ES)	Ongoing	Routine activity
8. Provide data and advice to further education and understanding of the water environment, eg. water companies, external organisations and public.	All Sectors	Ongoing	Routine activity
9. General input to Catchment Management Plan in reaction to CP requirements.	All Sectors	Ongoing	Routine activity
10. Commence CMP.	W/CP/1	31/3/96	Routine activity (Syr. cycle)

CROSS FUNCTIONAL PLANS 1995/96

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CATCHMENT: W5: THAMES - BUSCOT TO EYNHAM (Windrush, Evenlode)

GENERAL ACTIVITY: IMPROVEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Habitat improvement works programme and identify potential sites for future programme. Specific habitat enhancement at: R. Evenlode at Ashford Mill R. Thames at Radcot Cut R. Thames at Doctors Island	W/F&C/3 W/FD/4	Ann. Prog. 31/7/95 30/5/95 31/8/95	Routine activity Off river supplementation unit General enhance General enhance
2. Promote the recreational use of water & associated land & encourage public access primarily through joint ventures.	T/N&R/3 W/N/6	Ongoing	Routine activity
3. Promote improvements in water environment in minerals plans: encourage wetland habitat & landscape enhancements as part of 'after use plans'.	W/CP/4	Ongoing	Routine activity
4. CAPITAL WORKS PROGRAMME*			
i) Northmoor Weir	2207	31/10/95	Construction
ii) Eynham Weir Buck Gates	2256	31/10/95	Design/Construction
iii) Rushey Lock Island u/s Bulnose	2125	30/11/95	Design/Construction
iv) Bourton Gauging Station (Dickler)	1032	30/5/95	Construction
v) Worsham Gauging Station (Windrush)	1035	30/11/95	Construction
viii) Woodstock Gauging Station (Glyme)	1041	31/7/95	Feasibility/Design
ix) Buscot Gauging Station (Thames)	1054	31/2/95	Feasibility/Design

* Programme exceeds budget, therefore not all schemes will necessarily be implemented.

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**W6 RIVER THAMES
EYNHAM TO BENSON**

July 1995



CROSS FUNCTIONAL PLANS 1995/96

6/95

CATCHMENT: W6: THAMES - EYNHAM TO BENSON (Ock)

GENERAL ACTIVITY: MONITORING

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Measurement of rainfall, groundwater levels & river flow, (manually & telemetry).	(ES) T/WR/5	Ongoing	Routine activity
2. Water resources planning: assess current & future demands.	Tech. Dept./(ES)	Ongoing	Routine activity
3. WQ planning & modelling.	Sci. Dept./(ES)	Ongoing	Routine activity, to assess conditions on consent applications.
4. Water quality sampling, manual & automatic: - river - canal - trade - groundwater	W/ES/1	Ann. Prog.	Routine activity
5. Interrogate WQ archive and identify problem areas.	W/ES/1	Ongoing	Routine activity
6. Interrogate Pollution Incident System and identify potential risk areas.	W/ES/2	Ongoing	Routine activity
7. Fish population survey on small streams in Oxford.	W/F&C/2	31/1/96	Routine activity (targeted)
8. Biological sampling: invertebrate/macrophyte, algal (main R. Thames only)	(ES) S/SCI/2	Ann. Prog.	Routine activity

CROSS FUNCTIONAL PLANS 1995/96

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CATCHMENT: W6: THAMES - EYNHAM TO BENSON (Ock)

GENERAL ACTIVITY: REGULATION & ENFORCEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Appraise abstraction consents. Appraise discharge consents.	T/WR S/WQ/2 W/ES/	31/3/95	Routine activity
2. Abstraction Licence enforcement. Rod licence enforcement. Launch Safety enforcement. Craft registration and accomodation licence enforcement.	W/ES/4 W/F&C/1 W/N/1 W/N/1	Ann. Prog.	Routine activity
3. Planning Liaison and Development Control - respond to Plannning Applications etc.	All Sectors	Ongoing	Routine activity Co-ordinated by Catchment Planning.
4. Influence developers prior to planning applications to safeguard NRA interests: Prepare development briefs/area specific studies for critical areas identified in local plans, structure plans, minerals plans.	W/CP/3	Ongoing	Routine activity
5. Influence local plans to account for NRA interests and aspirations. Forward Planning: - Promote uptake of model land use statements - Consider draft local plans	W/CP/4	Ongoing	Routine activity
6. Enforcement of pollution control legislation: collection of evidence, follow up legal action, prosecution.	W/ES/2	Ongoing	Routine activity
7. Regulation of Fisheries through the issuing of consents/licences.	W/F&C/1	Ongoing	Routine activity
8. Land Drainage consents to primarily prevent flooding.	W/CP/3	Ongoing	Routine activity
9. Regulation of Navigation through issuing of craft registrations.	W/N/1 BS/	Ongoing	Routine activity

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CATCHMENT: W6: THAMES - EYNHAM TO BENSON (Ock)

GENERAL ACTIVITY: OPERATIONS

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Emergency response service (24hr) to reported incidents of pollution, flooding, and fish kills/rescues.	W/ES/2 W/FD&E/1 W/F&C	Ongoing	Routine activity to published Standards of Service.
2. Pollution Prevention visits including specific campaigns at industrial sites, sewage treatment works and farms.	W/ES/3	Ongoing	Routine activity
3. Flood forecasting and warning. Identify known flooding information. Identify relationship between flood frequency and increasing development. Provide SOS information for river reaches.	T/FD/3 W/FD&E	Ongoing	Routine activity
4. Provide appropriate land drainage, prevent flooding, whilst ensuring full protection or mitigation of damage to fisheries and other wildlife habitats.	W/FD&E/1 W/F&C/3	Ongoing	Routine activity
5. Water level control to prevent flooding and provide safe navigation fairway on R Thames.	W/N/3	Ongoing	Routine activity
6. Maintain facilities for Navigation and general public, eg. locks, moorings, footbridges, stiles etc.	W/FD&E/2 W/FD&E/3 W/N/6 T/N&R/5	Ongoing	Routine activity
7. Provide access to Public Register on Water Quality.	Sci. Dept./(ES)	Ongoing	Routine activity
8. Provide data and advice to further education and understanding of the water environment, eg. water companies, external organisations and public.	All Sectors	Ongoing	Routine activity

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CATCHMENT: W6: THAMES - EYNHAM TO BENSON (Ock)

GENERAL ACTIVITY: IMPROVEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Habitat improvement works programme. Identification of potential sites for future programme. Specific habitat enhancement at: R. Thames at Wolvercote	W/F&C/3 W/FD/4	Ann. Prog. 31/7/95	Routine activity Gravel reinstatement
2. Promote the recreational use of water & associated land & encourage public access primarily through joint ventures.	T/N&R/3 W/N/6	Ongoing	Routine activity
3. Promote improvements in water environment in minerals plans: encourage wetland habitat & landscape enhancements as part of 'after use plans'.	W/CP/4	Ongoing	Routine activity
4. CAPITAL WORKS PROGRAMME*			
i) Iffley Weir Bank Protection	2248	31/12/95	Design/Construction
ii) Godstow Weir Buck Gates	2255	31/3/96	Design 95/6 (Construction 96/7)
iii) Oxford Control Structures	3182	31/3/96	Complete 97/98
iv) Abingdon Weir Buck Gates	2224	30/11/95	Feasibility/Design/Construction
v) Culham Lock Head Layby	5515	30/11/95	Construction
vi) Sandford Lock Chamber & Gates	5565	28/2/96	Design/Construction
vii) Culham Lock Chamber & Gates	5367	28/2/96	Feasibility/Design/Construction
viii) Clifton Lock u/s Bank Protection	5599	31/3/96	Design/Construction
ix) Hinksey Towpath Footbridge (No.54)	5019	31/3/96	Construction (Complete 96/7)
x) Culham Weir Bank Protection	4810	28/2/96	Feasibility/Design/Construction
xi) Sandford Towpath Footbridge (No.57)	5020	31/10/95	Design
xii) Iffley Lock u/s cut Bank Ptn.	5640	31/8/95	Design
xiii) Godstow Lock u/s cut Bank Ptn.	5642	31/8/95	Design

* Programme exceeds budget, therefore not all schemes will necessarily be implemented.

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W7 RIVER THAME

July 1995



CROSS FUNCTIONAL PLANS 1995/96

6/95

CATCHMENT: W7: THAME

GENERAL ACTIVITY: MONITORING

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Measurement of rainfall, groundwater levels & river flow, (manually & telemetry).	(ES) T/WR/5	Ongoing	Routine activity
2. Water resources planning: assess current & future demands.	Tech. Dept./(ES)	Ongoing	Routine activity
3. WQ Planning & modelling.	Sci. Dept./(ES)	Ongoing	Routine activity, to assess conditions on consent applications.
4. Water Quality sampling, manual & automatic: - river - canal - trade - groundwater	W/ES/1	Ann. Prog.	Routine activity
5. Interrogate WQ archive and identify problem areas.	W/ES/1	Ongoing	Routine activity
6. Interrogate Pollution Incident System and identify potential risk areas.	W/ES/2	Ongoing	Routine activity
7. Fish population survey on R. Thame and Tributaries.	W/F&C/2	31/1/96	Routine activity (targeted), 177km
8. Biological sampling: invertebrate/macrophyte, algal (main R. Thames only)	(ES) S/SCI/2	Ann. Prog.	Routine activity

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CATCHMENT: W7: THAME

GENERAL ACTIVITY: REGULATION & ENFORCEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Appraise abstraction consents. Appraise discharge consents.	T/WR S/WQ/2 W/ES	31/3/95	Routine activity
2. Abstraction Licence enforcement. Rod licence enforcement. Launch safety enforcement. Craft registration and accomodation licence enforcement.	W/ES/4 W/F&C/1 W/N/1 W/N/1	Ann. Prog.	Routine activity
3. Planning Liaison and Development Control - respond to Planning Applications etc.	All Sectors	Ongoing	Routine activity Co-ordinated by Catchment Planning.
4. Influence developers prior to planning applications to safeguard NRA interests: Prepare development briefs/area specific studies for critical areas identified in local plans, structure plans, and minerals plans.	W/CP/3	Ongoing	Routine activity
5. Influence local plans to account for NRA interest and aspirations. Forward Planning: - Promote uptake of model land use statements - Consider draft local plans	W/CP/4	Ongoing	Routine activity
6. Enforcement of pollution control legislation: collection of evidence, follow up legal action, prosecution.	W/ES/2	Ongoing	Routine activity
7. Regulation of Fisheries through the issuing of consents/licences.	W/F&C/1	Ongoing	Routine activity
8. Land Drainage consents to primarily prevent flooding.	W/CP/3	Ongoing	Routine activity

CROSS FUNCTIONAL PLANS 1995/96

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CATCHMENT: W7: THAME

GENERAL ACTIVITY: OPERATIONS

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Emergency response service (24hr) to reported incidents of pollution, flooding, and fish kills/rescues.	W/ES/2 W/FD&E/1 W/F&C/	Ongoing	Routine activity to published Standards of Service.
2. Pollution Prevention visits including specific campaigns at industrial sites, sewage treatment works and farms.	W/ES/3	Ongoing	Routine activity
3. Flood forecasting and warning. Identify known flooding information. Identify relationship between flood frequency and increasing development. Provide SOS information for river reaches.	T/FD/3 W/FD&E	Ongoing	Routine activity
4. Provide appropriate land drainage, prevent flooding, whilst ensuring full protection or mitigation of damage to fisheries and other wildlife habitats.	W/FD&E/1 W/F&C/3	Ongoing	Routine activity
5. Provide access to Public Register on Water Quality.	Sci. Dept./(ES)	Ongoing	Routine activity
6. Provide data and advice to further education and understanding of the water environment, eg. water companies, external organisations and public.	All Sectors	Ongoing	Routine activity
7. Complete Catchment Review.	W/CP/1	31/3/96	Routine activity
8. General input to Catchment Review.	All Sectors	Ongoing	Routine activity

WEST AREA

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CROSS FUNCTIONAL PLANS 1995/96

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CATCHMENT: W7: THAME

GENERAL ACTIVITY: IMPROVEMENT

Specific Activity	Management Action Plan Ref.	Date	Comments
1. Habitat improvement works programme. Identification of potential sites for future programme.	W/F&C/3 W/FD/4	Ann. Prog.	Routine activity
2. Promote the recreational use of water & associated land & encourage public access primarily through joint ventures.	T/N&R/3 W/N/6	Ongoing	Routine activity
3. Promote improvements in water environment in minerals plans: encourage wetland habitat & landscape enhancements as part of 'after use plans'.	W/CP/4	Ongoing	Routine activity
4. CAPITAL WORKS PROGRAMME* Telemetry & Gauges (Weirs)	2261	31/12/95	Area monitoring and control centre

* Programme exceeds budget, therefore not all schemes will necessarily be implemented.

**NRA - THAMES REGION
WEST AREA**

**CROSS FUNCTIONAL
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1995/96**

APPENDICES

July 1995

CROSS FUNCTIONAL PLANS

GENERAL ACTIVITY - WORKING DEFINITIONS

- **MONITORING** (describe/quantify resource)

Includes: Sampling/survey programmes and any other data collection action, modelling, analysis of data, compiling inventories.

- **REGULATION & ENFORCEMENT** (safeguard resource)

Includes: Indirect regulation, ie planning consultation, update of model land use statements, and other planning activities to safeguard NRA interests.

Remainder is self explanatory.

- **OPERATIONS** (maintain resource)

Includes: Emergencies, promotion and advisory services, 'bolt-on' enhancement and mitigation, maintenance works, public register, pollution prevention, maintain public access/use, general communications, production of CMPs, site management plans.

- **IMPROVEMENT** (enhance resource)

Includes: Pure enhancement schemes, righting past wrongs, (mitigation again), R&D, new use and promotion of new use.

FUNCTION/SECTOR INTERFACE

Nationally the NRA's structure comprises 7 core functions, ie Water Resources, Water Quality, Flood Defence, Fisheries, Recreation, Conservation, and Navigation.

For operational reasons the functions are managed in West Area in 6 business units or Sectors. This relationship is shown below.

SECTOR	FUNCTION
Environmental Services	Water Resources Water Quality
Fisheries & Conservation	Fisheries Conservation
Flood Defence & Engineering	Flood Defence
Navigation	Navigation Recreation
Catchment Planning	Multifunction
Contractor Unit	Multifunction

INTERACTIONS OF CATCHMENT PLANNING AND BUSINESS PLANNING

(Relationships of CRs, CMPs, Business/Sector Plans, & Cross Functional Plans)

