

EA-Thames LEAPS

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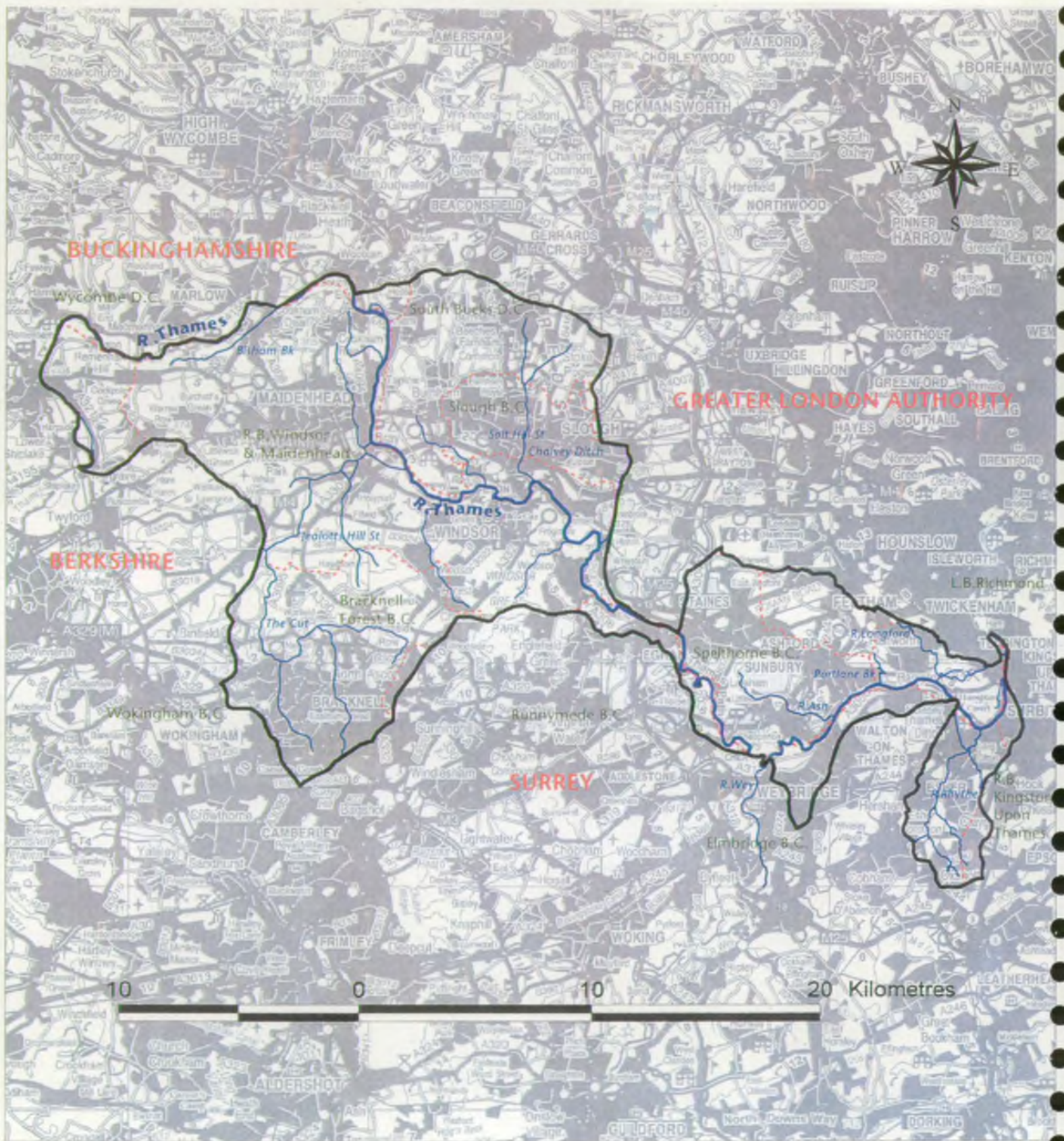


ENVIRONMENT
AGENCY

Local environment agency plan

Lower Thames LEAP
(Hurley to Teddington)
Third Annual Review

December 2001


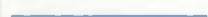



Lower Thames - LEAP Overview



**ENVIRONMENT
AGENCY**

Key:

-  LEAP Boundary
-  Watercourses
-  District & County Borders

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The Lower Thames LEAP Area

Welcome to the 3rd Annual Review of the Lower Thames (between Hurley and Teddington) Local Environment Agency Plan. In our plan – or LEAP – we look at the environmental values and characteristics of the area. We identify the key issues with various stakeholders and describe what we need to do to protect and enhance the environment of the Lower Thames for present and future generations to enjoy.

The plan covers the River Thames between Hurley and Teddington, a distance of 64.5km. Also included are main river tributaries of the Thames: Bisham Brook; The Cut; Chalvey Ditch; Abbey River; River Ash; and Portlane Brook. The ordinary watercourses in the plan area include Jealotts Hill Stream, Salt Hill Stream, Rythe Ditch and the Longford River.

The Lower Thames LEAP area extends over 422km² including areas of south-west London, Berkshire, Buckinghamshire and Surrey. Approximately 513,000 people live within the plan area. The eastern half of the plan area is predominantly suburban, whilst the western half is more rural, with Maidenhead, Windsor, Slough and Bracknell being the main urban areas.

The Lower Thames Catchment Vision

The Lower Thames LEAP area, and particularly the River Thames, constitutes a resource of great environmental, recreational and historic value. It is however, a resource which has been much altered by intense human activity and is likely to be subjected to increasing pressure in the future.

Our Challenge is therefore to:

- Conserve and enhance the critical environmental resources that remain;
- Balance the economic and social needs for development and resource exploitation against suitable environmental protection;

- Manage the conflicting demands placed upon the environment;
- Grasp opportunities to restore and re-create environments despoiled by past human activity.

The Environment Agency recognises that these challenges will only be successfully met through a partnership of all interested parties, including local authorities and local people.

The Environment Agency – who are we?

The Environment Agency is the leading public organisation for protecting and enhancing the environment in England and Wales.

We regulate industry and inspect industrial sites to protect the environment and people from pollution and environmental risks to health. We work to encourage ever more effective environmental stewardship by industry and other sectors.

The Agency maintains essential flood defences, water resources and river navigation structures. We restore and improve the land and wildlife habitats. We also monitor and assess the environment. We make the data and information we collect widely available.

Much of the gross pollution that characterised the last century has fortunately been dealt with. New challenges are emerging that are equally damaging, if less obvious in their manifestation: global warming, endocrine-disrupting chemicals, ultra-fine particles of air pollution. For all the progress so far, there is a huge challenge ahead to build on past successes and to address these new threats as we help our economy and society make the longer-term transition to sustainable development.

Local Environment Agency Plans (LEAPs)

The Agency has a Head Office in Bristol, 8 Regional Offices in England and Wales, and 26 Area Offices at the local level. Over the last 5 years we have completed 131 LEAPs covering every river catchment in England and Wales. These plans help us to identify, assess, and address environmental issues which are related to our departments and help us take into account the views of our local customers.

In Thames SE Area we have 7 catchments – the Loddon; Lower Thames; Mole; Ravensbourne and Marsh Dykes, Thames Tideway; Wandle, Beverley Brook and Hogsmill and Wey.

This is the 3rd Annual Review of the Lower Thames LEAP. It introduces the Environment Agency and summarises progress made with the LEAP actions. This review is the latest publication in the LEAPs process for the Lower Thames Catchment, which comprises:

- Consultation Report (June 1997)
- Action Plan (May 1998)
- 1st Annual Review (July 1999).
- 2nd Annual Review (September 2000).

This Annual Review reports on additions, deletions and general amendments to progress on issues and actions arising in the catchment over the last year.

Talking to our Stakeholders

On the 19th July 2001, we piloted the Lower Thames Annual Review Workshop day in Bracknell. A broad selection of our stakeholders in the Lower Thames were invited to this day to:

- Review progress over the last year;
- Update the issues affecting the LEAP area;
- Develop new partnership actions to benefit the catchment;
- Increase shared understanding; and,
- Inform this Annual Review with amendments to issues and actions.

The Environment Council (an independent charity) provided a lead facilitator for this day. We also used a local network of support facilitators and Agency staff.

The resounding feedback from both the Agency and external participants was that this is a far more open, honest, and effective means for the Agency to communicate our overall Vision as well as the LEAP objectives, with our customers. We are using this feedback to inform our offices nationally on how we consult in the future.

The key messages which were taken from all of the LEAP workshop days were:

- The need for more detail on progress of Actions;
- More 'joining up' on key strategic issues and actions across all of this Area's LEAPs;
- Understanding of Agency resource constraints and the need for partnership working.

The photoreport; summary of feedback; and summary of new issues and actions; are available from the Thames SE Area Office for those who are interested.

'An Environmental Vision'

In 2000 we published our new vision. This new vision for the environment and a sustainable future is a healthy, rich and diverse environment in England and Wales, for present and future generations.

The fundamental goals we want to help achieve are:

- A better quality of life; and,
- An enhanced environment for wildlife.

The environmental outcomes for which we are striving are:

- Cleaner air for everyone;
- Improved and protected inland and coastal waters; and,
- Restored, protected land with healthier soils.

The changes we will seek are:

- A 'greener' business world; and,
- Wiser, sustainable use of natural resources.

The risks and problems we will help manage, prevent and overcome are:

- Limiting and adapting to climate change; and,
- Reducing flood risk.

Local Contributions

"This is going to be the final review of the Lower Thames LEAP as the LEAP process is to be superseded by a new strategy called a 'Local Contribution'. As SE Area Manager, I will be required to produce this new overarching document in 2002. It will cover all of our LEAP catchments and will identify the key environmental outcomes that all my staff will be working to deliver over the next 5 years. Our Local Contribution will help deliver the Agency's Corporate Strategy 'Making It Happen', and its Environmental Vision.

Many of the actions in our LEAPs are being successfully delivered. However, there is still much to achieve. The Local Contribution will be a good way of co-ordinating and addressing generic issues and actions from each LEAP. The need for this was one of the main messages from the LEAP workshop days held over the summer and I would like to reassure you that LEAP actions will not be lost in the transition. There will still be opportunities for you to contribute to the process, particularly to partnership projects at a local level.

Thank you to everyone who has contributed to the LEAP process and I look forward to continuing our work with you in the near future."

Viscount Mills (SE Area Manager)

Local Authorities which fall wholly or partly in the Lower Thames LEAP area:

- The unitary authorities formerly of Berkshire County
- Buckinghamshire County Council
- Surrey County Council
- Bracknell Forest Borough Council
- Elmbridge Borough Council
- London Borough of Hounslow
- Royal Borough of Kingston Upon Thames
- Royal Borough of Richmond Upon Thames
- Royal Borough of Windsor and Maidenhead
- Runnymede Borough Council
- Slough Borough Council
- Spelthorne Borough Council
- South Bucks District Council
- Wokingham District Council
- Wycombe District Council

Key facts about the Lower Thames area

General

Population	approx. 514,000
Local Authorities	14
Length of river Thames (Hurley to Teddington)	65km

Flood Defence

Length of statutory main river	210km
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Water Resources

Standard Average Annual Rainfall (1961-90)	655mm
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Total vol. abstraction permitted

	1,179,616MI/yr
% taken from groundwater	12%
% taken from surface water	88%
% taken for public water supply	96%

Water Quality

Chemical GQA classification (1998-2000)

Grade A	76.6km	34%
Grade B	75.0km	33%
Grade C	34.1km	15%
Grade D	24.6km	11%
Grade E	13.2km	5%
Grade F	None	
Unclassified	4.2km	2%

Integrated Pollution Control

Part A IPC process	5
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Radioactive substance authorisations

RAS authorisations	50
Nuclear sites	0

Waste management

Operational landfill sites	7
Incinerators	1

Conservation designations

AONB	0
SSSI	18
National Nature Reserve	1
Special Protected Areas (SPAs)	1
Proposed SPA	0
Special Areas of Conservation (SACs)	0
Candidate SACs	3

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Appendix 1:

Action Table

Issues and Actions Update explained

The following section, which forms the core of the Action Plan, sets out the actions needed to address the issues identified in the Action Plan. It should be noted that the programme of actions is likely to be subject to change depending on the availability of resources (financial and personnel) and changes in priorities of the organisations involved. The Environment Agency's routine activities (e.g. statutory duties) are not included as specific LEAP actions unless an Issue can be addressed through our day to day work.

The actions are set out in tables with the following information:

- the planned action with relevant contact name (details of contacts are provided in Appendix 3, page 40)
- the organisations responsible for implementing the action, either as lead (in bold) or as partners
- the anticipated timescale for implementing the action (i.e. financial year/s)
- an estimate of the total cost of implementing the action. The costs shown are Agency costs and are only given where we are the lead and includes Agency staff time.

It should be noted that the cost does not necessarily reflect the total cost of the scheme and is sometimes a projected estimate to be costed more accurately later. Other partners may also be contributing to the actions shown however, their costs are not given. Where n/a is indicated as the cost, the cost of the Action was not available at time of print. This programme of action is subject to change depending on the availability of resources (financial and personnel) and changes in priorities of the organisations and individuals involved.

Abbreviations used in Action Tables:

In order to minimise the amount of space taken up by the action tables, organisation names have been abbreviated. These are listed on page 41, Appendix 4.

Sequence of Actions

The numbers in the Action Tables may not run consecutively because those LEAP Actions that were completed or deleted before this review took place were reported in the previous Annual Review and have now been removed from the Action Table.

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Sustainability Principle A: Pollution				
To maintain and where possible improve the quality of air, land and water through the prevention and control of pollution, and by applying the polluter pays principle				
Issue A1: The poor biological and chemical water quality in some tributary watercourses				
A1/3 Complete AMP3 improvements at White Waltham STW <i>Contact: Steve Evans</i>	TWUL	2000 2005	n/a	In Progress. AMP3 quality outputs were delivered by March 2001. Further agreed improvements will be provided by March 2004
A1/4 Investigate the setting of RQOs to match the needs of the rivers and determine changes necessary to meet them <i>Contact: John Haines</i>	Agency Dischargers	1998 2003	n/a	In Progress. RES classified sections of river are being reviewed, none identified in the Lower Thames catchment
A1/5 Continue to carry out pollution prevention visits in the plan area, for example in the vicinity of Chalvey Ditch, the Cut and Bull Brook <i>Contact: Ian Larkins</i>	Agency Industry	1998 2003	5	In Progress. Pollution prevention visits being carried out, particularly in the Slough area
A1/6 Continue routine macroinvertebrate monitoring, with most sites being surveyed twice year. Plan & carry out enhancement work as necessary <i>Contact: Claire Gladdy</i>	Agency TWUL	1998 2003	0.5	In Progress. Routine monitoring sites are under review and will be on a 3 year programme in future. No new enhancement schemes proposed. Post scheme monitoring completed and reported for Albany Reach and still ongoing for Penton Hook Island
A1/7 Continue discussions with TWUL to ensure appropriate schemes are selected for future AMP3 works <i>Contact: John Haines</i>	Agency TWUL	2000 2000	n/a	Completed. AMP3 proposals have been determined
A1/8 Continue discussions with TWUL to ensure appropriate schemes are selected for AMP4 works <i>Contact: Chris Hazelton</i>	Agency TWUL	2002 2005	50	NEW ACTION

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
A1/9 Investigate water quality improvements to Bracknell Mill Pond <i>Contact: John Sutton</i>	Agency TWUL BTC	2002 2005	50	NEW ACTION Bracknell Mill Pond is an important local amenity and fishery.
Issue A2: The Impact of Blue Green algae				
A2/1 Respond to any reports of Blue Green Algae as required <i>Contact: Claire Gladdy/Chris Hazelton</i>	Agency River users	1998 2003	2	In Progress
A2/2 Include monitoring of the chlorophyll 'A' consent at Ashford Common Water Treatment Works as part of the routine monitoring of the works and continue monitoring of Blue Green Algae at Teddington Weir <i>Contact: Claire Gladdy/Paul Greaves</i>	Agency TWUL	1998 2003	0.5	In Progress. Monthly monitoring of Ashford Common Water Treatment works has commenced. Counts of algae are carried out on all samples and of the 3 samples received so far; no Blue Green algae have been found
Issue A3: Eutrophication due to nutrients discharged in sewage effluent				
A3/1 Continue monitoring for the Urban Waste Water Treatment Directive (UWWTD) using either macrophytes or the Trophic Diatom Index methodology where appropriate. Also monitor effects of phosphate removal and include new sites in the future for monitoring programmes both before and after improvement works <i>Contact: Esther Lycett</i>	Agency TWUL	1998 2003	n/a	In Progress
A3/2 Assess impact of phosphate removal against background levels of phosphate <i>Contact: Nick Weddell</i>	Agency	2001 2003	n/a	NEW ACTION

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Issue A4: The Impact of oil pollution on the River Thames				
A4/2 Continue the programme of installing permanent anchor points along the River Thames to allow an oil boom to be placed across the River Thames during pollution incidents <i>Contact: Paul Greaves</i>	Agency	1998 2002	4-5 each	Delayed due to lack of funding
Issue A5: The Impact of pollution on the river terrace gravel aquifer from old landfill sites and contaminated land				
A5/1 Commission Phase 2 of the study on the impact of old/existing 'dilute and disperse' landfills on the West London Gravel aquifer <i>Contact: Meenu Gajree</i>	Agency	1999 2002	25	Delayed. No change to research and development. However, individual sites may fall under consideration as part of Local Authority inspection of their areas under the Contaminated Land Regulations 2000
A5/2 Exchange information with Local Authorities and prioritisation of focus on contaminated land <i>Contact: Meenu Gajree</i>	Agency LA	2001 2003	25/ann	NEW ACTION
Issue A6: The Impact of diffuse contamination from chlorinated solvents in the Maidenhead area				
A6/1 Instigate a programme of site visits and interviews at industrial estates to map out areas of historic and current solvent use, and assess risk to groundwater abstraction <i>Contact: Meenu Gajree</i>	Agency Industry	1998 2002	6/ann	Delayed. No change to proactive work however, effectively superceded by the Contaminate Land Regulations 2000 which will lead Local Authorities to review all land in their areas. Anticipate consultation on sites in the future
A6/2 Depending on the results of the above assessment (action A6/1), consider the need to develop additional actions to address the risk identified <i>Contact: Meenu Gajree</i>	Agency Industry	n/a	n/a	Delayed. If the Royal Borough of Windsor and Maidenhead identify sites as potential contaminated land or potential Special Sites for the Agency to deal with then this may require further investigation work. Also there may be voluntary remediation carried out by the appropriate persons, or a Remediation Notice may be served

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Issue A7: Pollution prevention activities, within the domestic, commercial and user environments				
A7/1 Complete desktop study to identify polluting activities and to ascertain disposal routes for on board toilet facilities. Operators will then be advised of best practice <i>Contact: Tony Hawkes</i>	Agency	1999 2000	n/a	In Progress. First stage of the campaign completed. Follow-up letters needed for non-respondes, site visits to those with facilities and coach companies with facilities to be arranged. Likely caused by non-local operators
A7/2 Training of Fire Service to consider environmental implications of their activity in support of the MOU (Memorandum of Understanding) between the fire service and the Agency <i>Contact: Ian Larkins</i>	Agency Fire Service	1998 2003	1/ann	In Progress. Training of fire fighters and senior officers with respect to pollution control equipment and environmental awareness ongoing
A7/3 Check on ambulance stations to advise on pollution prevention in relation to water quality and waste issues and to check on clinical waste disposal <i>Contact: Ian Larkins</i>	Agency	1998 2003	n/a	In Progress. Action absorbed into National Campaign on clinical waste and ongoing at local level
A7/4 Inspect metal finishing industry with TWUL to advise on pollution prevention as a result of increasing incidences of Cyanide pollution <i>Contact: Tony Hawkes/John Clarke</i>	Agency TWUL	1998 2003	25	In Progress. The joint campaign with TWUL is now in its 3 rd year, progress has been made making companies aware of measures they should take to minimise potential to pollute local environment. Ongoing until pollution threat minimal
A7/5 Inspect concrete batching plants to ensure best practice and advise on pollution prevention issues <i>Contact: Mike Tregent</i>	Agency	1999 2000		Deleted. Revised the method of working for pollution and waste minimisation work. Also reprioritisation of work for more effective/efficient outcomes. To be incorporated into new Action A7/8
A7/6 Investigate the feasibility of expanding existing pollution campaigns <i>Contact: Charlie Phillipps</i>	Agency Business Clubs Charities Other statutory organisations	2001 2003	3	NEW ACTION

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
A7/7 A pollution prevention campaign to address sources of pollution from watercraft. eg Sea toilets, bilge oil <ul style="list-style-type: none"> - Awareness campaign through licence renewal - Enforcement of regulations on watercraft eg appropriate toilets, emissions, discharges - Potential enforcement campaign for boat users/owners 	Agency Boat Yards Boat Users Association	2002 2004	5	NEW ACTION
<i>Contact: Guy Elliot</i>				
A7/8 Ongoing campaign of awareness initiative on best practise in pollution prevention and data collection on recycled collection for the construction and demolition industry	Agency LA Demolition Contractors	2001 2003	3/ann	NEW ACTION
<i>Contact: Mike Tregent</i>				
New Issue A8: Storm water from Slough sewage treatment works entering Roundmoor Ditch				
A8/1 Discussions with TWUL on how to alleviate the impacts of storm water entering Roundmoor Ditch	Agency TWUL	2002 2005	2	NEW ACTION Roundmoor Ditch provides an important winter refuge area for fish stocks in the Lower Thames
<i>Contact: Stephanie Weddell</i>				

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Sustainability Principle B: Water Resources				
To manage ground and surface water resources to achieve the right balance between the needs of society and the requirements of the environment				
Issue B1: The management of demand for water resources at a sustainable level				
B1/1 Ensure that appropriate leakage management and demand management strategies are carried out in the plan area <i>Contact: Brian Arkell</i>	Water companies OFWAT Agency	1998 2003	n/a	In Progress. The Agency, local water companies and OFWAT continue to work together to evaluate appropriate leakage management and demand management strategies
B1/2 Promote water efficiency, including opportunities for recycling and re-using water and use of rainwater harvesting where appropriate in the plan area, particularly for new development through support for, and development of, planning guidance and through water companies' water efficiency initiatives. See B3 <i>Contact: Brian Arkell</i>	Water companies, Agency, OFWAT, LA, Water users, House Builders	1998 2003	n/a	In Progress. The Agency promotes water efficiency through liaison with SERPLAN, LPAC, the GLA and Local Authorities on strategic and local plan issues and continually offers advice to developers
B1/3 Raise public awareness of water demand issues and the need for water conservation through for eg Agency's 'Using Water Wisely' leaflet <i>Contact: Julie Lee-Stewart</i>	Agency Water companies Water users	1998 2003	n/a	In Progress. Ongoing
B1/4 Phase 1 - Review the Agency's Regional water resources strategy, 'Future Water Resources in the Thames Region', linked to OFWATs periodic reviews and companies' Management and Water Resources Plans Phase 2 – Development of Regional and National water resource strategies <i>Contact: Brian Arkell</i>	Agency	1999 2001		Completed. The national and regional water resources strategies, 'Water Resources for the Future', were published in March 2001

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
B1/5 Monitor and review the implementation of actions identified within water companies' water resources plans and funded through the periodic review, to secure the twin-track management of water resources and supplies within the region. Keep under review the need for new strategic water resources development within the framework of the regional Water Resources Strategy, CAMS development and changes to abstraction licensing legislation <i>Contact: Brian Arkell</i>	Agency Local Water Companies	1998 2003	n/a	In Progress. Key actions have been identified in the water resources strategy, 'Water Resources for the Future', leading to a review of the need of major new schemes by 2003
B1/6 Promote winter storage of water for agriculture and recreational use through licensing process and through liaison with agricultural bodies <i>Contact: Julie Lee-Stewart</i>	Agency NFU, DEFRA Licensees FWAG, LAs, WTs	1998 2003	n/a	In Progress. Being dealt with through the licensing process
Issue B2: The management of river levels in the Lower Thames				
B2/1 Continue to manage the balance between the need for a secure public water supply and protecting the environment in the Lower Thames by, for example: constantly reviewing operating agreements; monitoring change; releasing 'freshets' of water at critical times <i>Contact: Brian Arkell</i>	Agency TWUL	1998 2003	n/a	In Progress. Further environmental studies are being scoped, due for commencement 2001/2002
B2/2 Continue to monitor and review the temporary (revised) change to the Teddington operating agreement introduced in 1998 in anticipation of the drought <i>Contact: Brian Arkell</i>	Agency TWUL	1998 2003	n/a	In Progress. Temporary agreement remains in force. It is unlikely to be invoked during 2001/2002 due to the preceding wet winter

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
B2/3 Undertake an assessment of the environmental effects of the current river level management practices in the Thames with a view to identifying potentially beneficial practices for fisheries and conservation. Initiate the assessment with a roundtable discussion between relevant officers <i>Contact: Steve Sheridan/Dave Webb</i>	Agency	1998 2002	10-15	In Progress. Juvenile fish surveys were carried out in 1999 and 2001
B2/4 Investigate the feasibility of improving the management and monitoring of abstraction, flows and levels in the Lower Thames <i>Contact: Brian Arkell</i>	Agency	1998 2003	n/a	In Progress. Good progress has been made at the majority of sites, measurement and telemetry at Thames/Lee tunnel needs to be completed
B2/5 Implement WLMP for Langham Pond and IMS for Dumsey Meadow <i>Contact: Dave Webb</i>	Agency EN	1998 2003	n/a	In Progress. Plans have been drawn up for ponds and associated works
Issue B3: Progress Initiatives for restoring sustainable abstraction and review the impacts and timing of environmental demands on the region's water resources				
B3/2 Review the maintenance of the new channel cut to the Thames to feed the Maidenhead Ditch <i>Contact: David Van Beesten</i>	Agency Greenway Working Group, Marsh Meadow Management Committee and Land Owner	1998 2002	5/ann	In Progress. Maidenhead Ditch has a secure flow that will not be affected by the Maidenhead Improvement Scheme. Enhanced maintenance requirement remains
B3/3 Review the cause of low flows in the Pool end Ditch once the gravel extraction is completed <i>Contact: Barry Morrison</i>	Agency	2001 2002	n/a	In Progress. Gravel extraction adjacent to School Walk now complete and site has been returned to wildlife habitat lake. No investigation as yet has been carried out into low flows. It is however a low priority

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
B3/4 Consider the options and carry out an initial investigation into levels on the Bisham Brook <i>Contact: Julie Lee-Stewart</i>	Agency SEWC	2000 2002	10	In Progress. Levels within the Jubilee River were low during summer 2001. There is a requirement for groundwater monitoring by piezometers to start long term monitoring of local water levels
B3/5 Continue discussions with TWUL and BBOWT to realise a sustainable solution to the levels of flow in Roundmoor Ditch <i>Contact: Julie Lee-Stewart</i>	Agency TWUL BBOWT	1998 2003	n/a	In Progress. Inspection of culvert at Frogmore Farm completed. Delays occurred in clearing silted up culvert due to Foot and Mouth. Flood Defence and Water Resources will be investigating target flows for Bisham Brook after di-siltation
B3/7 Continue to monitor the effectiveness and reliability of supply to augment low flows in the Seeps Ditch and consider the possible enhanced maintenance of the watercourse <i>Contact: Barry Morrison</i>	SBC Agency	1998 2003	n/a	In Progress. Monitoring still ongoing
B3/8 Promote the Agency's position that flow from The Cut should not be diverted into the Twyford Brook <i>Contact: David van Beesten</i>	Agency	1998 2003		Completed
B3/9 Assess the Impact of the Jubilee River on flows in the Thames and its ecology Carry out annual monitoring of the juvenile fish population Carry out annual monitoring of the adult fish population <i>Contact: John Sutton</i>	Agency	2001 2003		NEW ACTION
			10/ann 6/ann	

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
New				
Issue B4: Explore the impact of all hydropower development on the Lower Thames				
B4/1 Investigate the impact of hydropower development on the Lower Thames <i>Contact: Ann Symonds/Alan Butterworth</i>	Agency	2001 2003	10	NEW ACTION
B4/2 Undertake a strategic review of weirs on the Lower Thames <i>Contact: Peter Burrows/Peter Doran</i>	Agency Halcrow	2001 2002	120	NEW ACTION
B4/3 Assess each proposal on its merits <i>Contact: Ann Symonds/Alan Butterworth</i>	Agency	2001 2003	10	NEW ACTION
Sustainability Principle C: Flooding				
To manage ground and surface water resources to achieve the right balance between the needs of society and the requirements of the environment				
Issue C1: To manage and educate about floodplains and flood risk for the benefits of people and the natural environment, amenity and protection of property				
C1/1 Undertake a flood study of the Lower Thames, including hydraulic modelling of the Thames between Hurley and Teddington <i>Contact: Justine Glynn</i>	Agency	1998 1999	80-90	In Progress. The flood study is all but complete and flood risk maps will be issued in 2002
C1/2 A - Develop a community based strategy for managing the flood plain and flood risk in the DWSC flood study area B - Implementation of strategy <i>Contact: Ann Symonds/Keith Lead</i>	Agency LAs Land Owners, Community Groups, LA21 Groups,	1999-01 2001-03	30/ann	In Progress. The DWSC Floodplain Management Plan has not yet been started, partly due to the new Catchment Floodplain Management Plan programme that DEFRA are promoting. However, once a project manager is appointed and the CFMP guidance is available this plan will be progressed late 2001/early 2002

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
C1/3 To produce Circular 30/92 maps to show the extent of current flood risk areas. And to continue to promote policies to be included in local development plans to prevent development increasing the risk of flooding <i>Contact: Keith Lead</i>	Agency LAs	1998 2003	n/a	Delayed. The C30/92 programme and associated expenditure is currently being revisited. It is anticipated that the CFMP will address flood risk in respect of new/proposed development
C1/4 Continue to influence development proposals to prevent development in the floodplain and to consider what methods are available to monitor the Agency's effectiveness in achieving this aim <i>Contact: Ann Symonds</i>	Agency LAs	1998 2003	50	In Progress. PPG25 and DEFRA High Level Target 12 will play a large part in this
C1/5 Ensure greater access to Agency historical records/data, especially for education purposes in the widest sense See also D10 <i>Contact: Ann Symonds</i>	Agency	2001 2003	1/ann	NEW ACTION
Issue C2: The impact of surface water run-off from development				
C2/1 Produce source control maps and develop a manual on source control techniques and best practice <i>Contact: Prosper Paul</i>	Agency LAs Developers	1998 1999	n/a	In Progress. The training pack was completed and published in 1999, the Design Manual Published in 2000 and the Best Practice Manual published in Autumn 2001
C2/2 Promote source control techniques eg SUDS and best practice with local authorities and developers <i>Contact: Justine Glynn</i>	Agency LAs Developers	1998 2003	25	In Progress. Ongoing liaison takes place between Local Authority Land Drainage Engineers and developers

	LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Issue C3:	The need for intelligent dredging and its impact on the Lower Thames and its tributaries for all purposes not just flooding, eg Navigation				
C3/1	Undertake a dredging study of the River Thames (including a review of the need for dredging, dredging depths, environmental considerations, levels of service and disposal options). The study will be divided into two phases: Phase 1: Scope and review data and models. Phase 2: Develop model and methodology for assessing dredging depths. Conduct an environmental assessment and review the relevance of the methodology to all reaches <i>Contact: David van Beesten</i>	Agency LAs	1998 2003	50 80	In Progress. Some residual work remains which is being progressed
C3/2	Seek partnership opportunities for floodplain restoration for: <ul style="list-style-type: none"> - Flood defence - Water resources - Habitat quality – intermittent wetland/fish refuges - Water quality – reedbed effect <i>Contact: Steve Sheridan/Keith Lead</i>	Agency LAs Local Water Companies	1999 2003	n/a	Delayed. No progress, however this remains a long term issue
C3/3	Monitor the conditions of the bed and bank at Hamhaugh Island weir stream <i>Contact: David van Beesten</i>	Agency	1998 2003	1/ann	In Progress. Monitoring the bed and banks at Hamhaugh Island continues with some emergency repair works being proposed adjacent to property numbers 1-6 this year. The weir, Shepperton B, should be rebuilt in 2003 and will be designed to reduce the erosion
C3/4	Agree a policy/procedure to enable the early identification of potential problems caused by dredging, and opportunity for remedial action <i>Contact: Steve Sheridan</i>	Agency	2001 2002	5	NEW ACTION

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
C3/5 Investigate the potential for the positive use of dredged material <i>Contact: David van Beesten</i>	Agency LAs Land Owners Mineral Companies	2002 2005	90	NEW ACTION
Issue C4: The need to improve the management of some ordinary water courses				
C4/1 Make a case to DEFRA to enmain the Rythe <i>Contact: Barry Morrison</i>	Agency	2001 2002	1	Delayed. No progress made to date to enmain the Rythe
C4/2 Review all channels of the River Ash with a view to enmaining <i>Contact: Barry Morrison</i>	Agency	2002 2004	1	NEW ACTION
C4/3 Review Penton Hook spawning channel with a view to enmaining <i>Contact: Trevor Odell</i>	Agency	2002 2004	1	NEW ACTION
Issue C5: The impact of the construction, future management and maintenance of the Jubilee River (See also D5)				
C5/1 Undertake survey of key sites on the River Thames as part of ongoing monitoring of the fisheries status for the Jubilee River: - Pre project - Post project <i>Contact: Steve Sheridan</i>	Agency	1998 2003		In Progress. A juvenile fish survey was carried out in 2001
			15	
			15	
C5/2 Monitor the effects on fisheries of the proposed siphon on the Chalvey Ditch. - Seek fisheries enhancement on the Chalvey Ditch downstream of the proposed siphon if necessary - Undertake fish stocking upstream of the proposed siphon on the Chalvey Ditch if necessary <i>Contact: Steve Sheridan</i>	Agency	1999 2002	1/ann	In Progress. Fish rescues undertaken prior to removal of original stream in the path of the Jubilee River. No progress on fisheries enhancements on Chalvey Ditch. Stocking upstream of the siphon postponed pending habitat assessment
			n/a	
			n/a	

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
C5/3 Undertake further sampling using CPET (Chironomid Pupal Exuviae Technique) and phytoplankton during construction and after the completion of the scheme to monitor the biological effects. Consider other appropriate techniques to monitor the effects of the scheme <i>Contact: Claire Gladdy</i>	Agency	1998 2003	4	In Progress. Shortly to commence invertebrate monitoring of 4 or 5 sites on the new Jubilee River. Already monitoring the main Thames in the area to species level and will continue to do so. CPET monitoring still ongoing
C5/4 Seek enhancement opportunities in connection with the Jubilee River <i>Contact: Steve Sheridan</i>	Agency	1999 2003	n/a	Delayed. Pending post construction monitoring
Issue C6: The need for, and impact of, the maintenance and refurbishment of Lower Thames weirs				
C6/1 Rebuild the buck weir at Sunbury because of the poor state of the existing weir and provide fine level control to assist river level management <i>Contact: Oladapo Sulu</i>	Agency LAs	2001 2002	1.3m	In Progress. Contract due to go out to tender late 2001
C6/3 Undertake a feasibility study of the options for refurbishing Shepperton B Weir <i>Contact: Ian Tomes</i>	Agency LAs	1998 1999	45	In Progress. Refurbishment of Shepperton B Weir is under consideration. Construction should start in 2003
C6/4 Ensure Best Practice is adopted with regard to fish passage for all stocks <i>Contact: Steve Sheridan</i>	Agency	2001 2003	100 /weir	NEW ACTION
Issue C7: The impact of localised flooding of the Lower Thames and its tributaries				
C7/1 Monitor the effectiveness of the works to reduce the impact of flooding on the Chalvey Ditch, Colenorton Brook and Eton Common Ditch in association with Eton College <i>Contact: David van Beesten</i>	Agency Eton College	1998 2003		Completed. Further monitoring needed following the completion of the Jubilee River

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
C7/2 Develop and implement more targeted maintenance strategy on The Cut/Bull Brook to reflect land use brands <i>Contact: David Van Beesten</i>	Agency LAs	1998 2001		Completed
Issue C8: To continue to appraise the Thames assets and monitor the strategic approach for future appropriate replacement/refurbishment/enhancement				
C8/1 Implementation of River Defence Survey (RDS) to produce an inventory of all significant flood defence systems (Lower Thames Region) <i>Contact: Keith Lead</i>	Agency LAs Landowners	1999 2000		Completed
C8/2 Maintain and update a database of all significant flood defence systems using an 'Access' based interface program 'Data Update and collection System' (DUCS). Produce a re-inspection programme for future condition assessment <i>Contact: Keith Lead</i>	Agency LAs Landowners	1998 2003	n/a	In Progress. Ongoing
Sustainability Principle D: Conservation				
To conserve and enhance the natural, cultural and historic value of river corridors, their landscape and their biodiversity				
Issue D1: The degradation of Riverine and adjacent habitats on the River Thames				
D1/1 Convene the South East Area Enhancement Group twice a year to identify habitat enhancement priorities, including enhancement project in the Lower Thames LEAP area where appropriate <i>Contact: Trevor Odell</i>	Agency	1998 2003	7	In Progress. The group meets approximately every 6 weeks

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
D1/2 Carry out post project appraisal of the Penton Hook Island wetland to monitor the effect on ecology and fisheries (for example monitoring the rate of colonisation by macro invertebrates) <i>Contact: Dave Webb/Steve Sheridan/Claire Gladdy</i>	Agency	1998 2003	2/ann	In Progress. River Corridor Survey, invertebrate monitoring, fish counter installed, geomorphological survey undertaken. Work has so far shown significant ecological benefit. Fauna present is now similar to that of the main Thames See D1/3
D1/3 Monitor the effectiveness of spawning channel at Penton Hook Island following construction <i>Contact: Steve Sheridan</i>	Agency	1999 2003	12	In Progress. Monitoring ongoing, including fisheries, biology, river corridor, flow and geomorphology. 15 species of fish using the channel, mostly as nursery habitat. The maintenance of unusually low levels in the upstream reach has restricted spawning and migration opportunities. Fish migration monitoring is in progress
D1/6 Investigate the feasibility for introducing artificial structures for fish cover in the Thames: pilot project of different techniques, install structures, and monitor effectiveness <i>Contact: Steve Sheridan</i>	Agency	1999 2002	15-20	Delayed. Due to lack of resources
D1/8 Produce and implement a rolling programme of integrated lock site management plans for Agency owned land, initially for Sunbury Lock Island <i>Contact: Phil Green</i>	Agency LAs Local Interest Groups	1998 2003	20	In Progress. Continue to implement Sunbury Site Management Plan. Intend to commence work on an SMP for Shepperton Lock Complex
D1/9 Support the implementation of the 'Thames Landscape Strategy Island Management Plans' report <i>Contact: Dave Webb</i>	Agency TLS LAs Landowners	1998 2003	n/a	In Progress. Planting design has been agreed and developed. To be implemented
D1/11 Work in co-operation with the Royal Borough of Windsor and Maidenhead to implement the River Thames Island Study (a study of Islands owned by the Royal Borough of Windsor and Maidenhead) <i>Contact: Dave Webb</i>	RBWM Agency	1998 2003	n/a	Delayed. Due to lack of resources

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Issue D2: The protection and enhancement of valued habitats and species in the plan area				
D2/1 Use the River Thames River Corridor Survey to promote the designation of relevant parts of the river system SNCIs or WHSs <i>Contact: Dave Webb</i>	Agency LAs SWT BBOWT	1998 2003	n/a	In Progress. Now involved in the selection of Wildlife Heritage Sites through the Berkshire Nature Conservation Forum
D2/2 Support the BAP process in Surrey through the Surrey Biodiversity Partnership, as sector leaders for the water industry and lead contact for floodplain and wetland habitats, and bid for funds for BAP activities in Surrey <i>Contact: Dave Webb</i>	Agency SBP	1998 2003	10/ann	In Progress. Surrey Wetland Habitats Action Plan to be produced by 2001. Surrey Floodplain Grazing Marsh Habitats Action Plan produced 1999
D2/3 Implement the management recommendations regarding water voles on the Maidenhead Ditch <i>Contact: Dave Webb</i>	Agency LAs (RBWM) Greenway Group	1998 2003	n/a	In Progress. Ongoing. Pollarding undertaken 2000/2001
D2/4 Seek to be more involved in the Biodiversity Action Plan process in Berkshire <i>Contact: Dave Webb</i>	Agency LAs	1998 2003	n/a	In Progress. Berkshire Wetlands framework document to be produced 2001
D2/6 Undertake coppicing as required in alders suffering from Phytophthora disease as part of ongoing maintenance work <i>Contact: Dave Webb</i>	Agency FC	1998 2003	n/a	In Progress. Limited work due to lack of resources
D2/7 Produce a leaflet on Lower Thames wildlife <i>Contact: Dave Webb</i>	Agency LAs, WTs, EN	1998 1999	5	Delayed due to lack of resources
D2/8 Maintain, restore and create natural bank side and marginal habitat along the Lower Thames corridor <i>Contact: Fran Bayley/ Steve Sheridan/ Claire Gladdy</i>	Agency LAs	2001 2003	16	NEW ACTION

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Issue D3: The impact of degraded habitats along some local watercourses				
D3/1 Undertake a feasibility study on potential enhancements on The Cut at Cannon Hill weir to overcome the impacts of the impoundment <i>Contact: Trevor Odell</i>	Agency	1999 2001	20	Delayed. An environmental impact assessment is required, the scheme is low priority but remains an important long term Action
D3/2 Implement the Maidenhead Ditch Management plan <i>Contact: Dave Webb</i>	Greenway Group Agency RBWM	1998 2003	n/a	In Progress. Pollarding undertaken 2000/2001
Issue D4: The impact of invasive and non-native species – possible impact of climate change				
D4/2 Undertake a targeted programme of weed spraying and spot treatment of Japanese Knotweed and floating pennywort <i>Contact: David Van Beesten</i>	Agency LAs	1998 2002	15	In Progress. Japanese Knotweed eradication programme is in hand as a high priority but it has not been as successful as originally hoped. Ongoing
D4/3 The apparent growth in the population of the Chinese mitten crabs and the expansion of its range is of concern to the Agency and research will continue into the potential ecological and nuisance effects of the crab. Further R&D may be undertaken <i>Contact: Dave Webb</i>	Agency Natural History Museum	1998 2003	n/a	Delayed. Due to change in priorities
D4/4 The long term strategic management of Canada Geese due to their environmental and public health issues <i>Contact: Fran Bayley</i>	Agency Surrey CC TLS, LAs	2002 2005	20	NEW ACTION
D4/5 Ensure strategic management work is cross referenced with Biodiversity Action Plans <i>Contact: Fran Bayley</i>	Agency SBP	2001 2003	n/a	NEW ACTION

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Issue D5: Barriers to fish movement				
D5/1 Continue to monitor the effectiveness of the fish passes on the River Thames <i>Contact: Darryl Clifton-Dey</i>	TST Agency	1998 2003	n/a	In Progress. Monitoring work relies on the return of adult salmon to the Thames and involves a long-term program. Once we have gathered sufficient year on year information to base decisions on, we will take appropriate actions at sites to improve fish passage
D5/3 Identify potential opportunities for bypass channels using the Penton Hook Island as a case study <i>Contact: Steve Sheridan</i>	Agency	1999 2000	n/a	In Progress. Two potential sites currently being looked at – Romney Island (feasibility study underway) and Boveney weir (in conjunction with Flood Defence bank repair capital scheme)
D5/4 Creation of a spawning channel/bypass at:	Agency			NEW ACTION
- Boveney Weir		2002-03	100	
- Sunbury Weir		2003-04	100	
- Romney Weir		2004-05	100	
<i>Contact: Steve Sheridan</i>				
Issue D6: The impact of insufficient Riverine fish spawning habitats				
D6/3 Identify opportunities to create spawning habitats, (bypass channels, weir stream enhancements) – see also D5 & C3 <i>Contact: Steve Sheridan</i>	Agency	2001 2003	n/a	NEW ACTION
Issue D7: The entrainment of juvenile fish at potable water intakes - priority AMP4 action				
D7/1 Reduce entrapment of fish at water intakes through: - Dialogue with abstractors - Further Study - Strategic river enhancement/management <i>Contact: Steve Sheridan</i>	Agency TWUL Abstractors	1998 2003	n/a	Delayed. No progress. This remains a key issue and will be raised with water companies for inclusion in the AMP4 process to secure funding for detailed investigations

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
D7/2 Have discussions with TWUL and other water companies to establish progression and timescale <i>Contact: John Sutton</i>	Agency TWUL Other Water Companies	2005 2010	1/ann	NEW ACTION
D7/3 Identify funding for research <i>Contact: John Sutton</i>	Agency	2001 2003	50 /intake	NEW ACTION
Issue D8: The impact of riverine development on the River Thames landscape				
D8/2 Promote the strategic landscape assessment and work in partnership with local authorities to undertake local studies and develop design guidance leading to local landscape action <i>Contact: Ann Symonds/Richard Copas</i>	Agency LAs Riparian Landowners Developers	1998 1999	25	In Progress. Ongoing discussions at an informal level. Ideas are being linked in context with 'Thames Ahead'. Collaborative ideas being sought, particularly with the Borough of Elmbridge at Hurst Park
D8/3 Progress feasibility study for landscape improvement to Hurst Park with long term view of producing example project encompassing wildlife, heritage and amenity enhancements See also D10 <i>Contact: Richard Copas</i>	Elmbridge BC Agency SCC TLS Hampton to Kew	2001 2003	50-100	NEW ACTION

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Issue D9: The impact of encroachment into the Lower Thames				
D9/1 Develop an Agency policy on non-tidal encroachment <i>Contact: Ann Symonds</i>	Agency	2001 2002	20	In Progress. Due for completion in 2002
D9/2 Promote the Agency policy on non-tidal encroachment and develop a strategy to remove significant encroachments <i>Contact: Ann Symonds</i>	Agency LAs Riparian Owners	2002 2003	n/a	Delayed. Awaiting completion of Action D9/1
Issue D10: The protection of the archaeological and heritage value of the Lower Thames				
D10/1 Following the completion of the pilot study on the River Wey, consider if it is appropriate to apply the resulting methodology to enhance understanding of the lower Thames archaeology and develop procedures for its protection <i>Contact: LEAP Officer</i>	Agency SCC BJSPC	1999 2002	n/a	Delayed due to lack of resources
D10/2 Baseline survey of archaeological and heritage features on the Lower Thames, leading to possibility of long term strategy See also D5 <i>Contact: Richard Copas</i>	Agency English Heritage CCs LAs	2001 2003	10-30	NEW ACTION
D10/3 Produce an information leaflet promoting the archaeological and heritage value of the Lower Thames <i>Contact: Richard Copas</i>	Agency English Heritage CCs LAs	2001 2003	5	NEW ACTION

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
New				
Issue D11: Cormorant impact of fish				
D11/1 Liaise with interested parties to determine extent of concern and identify Best Practice for mitigation and seek opportunities to extend trials. See also D1/6	Agency Angling Clubs DEFRA			NEW ACTION
- Liaise - Identify Best Practice and trials		2002-03 2002-07	2 n/a	
<i>Contact: John Sutton</i>				
New				
Issue D12: Make full use of the potential of the Thames for commercial traffic – subject to strategic environmental assessment				
No Actions for this Issue				
New				
Issue D13: Management of the habitats of ordinary watercourses				
D13/1 Promote sustainable development and Best Practice through statutory consultation	Agency LAs	2001 2003	2	NEW ACTION
<i>Contact: Fran Bayley/Liz Baldwin</i>				

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Sustainability Principle E: Recreation				
Retain, improve and promote the water environment and waterside land for the purposes of navigation, appropriate recreational use and public access and enjoyment				
Issue E1: The implementation of the River Thames recreation strategy				
E1/1 Continue to implement the River Thames Recreation strategy <i>Contact: Don Vickers</i>	Agency RUGs, SE, LAs GBS	1998 2003	n/a	In Progress. Document frequently used as reference
E1/2 Review the Recreation Strategy to ensure that the policies are still relevant and address current issues <i>Contact: Don Vickers</i>	Agency RUGs, SE, LAs GBS	1999 2000	n/a	Delayed due to staff shortages
Issue E2: The need to manage conflicts between different recreational interests and between recreation and conservation				
E2/1 Continue support for the RUG network and ensure that they continue to be effective <i>Contact: Don Vickers</i>	Agency RUGs	1998 2003	n/a	In Progress. Attendance at all group meetings continues
E2/3 Provide and distribute advice, which encourages all recreational users to be sensitive to the environment, through information boards and leaflets <i>Contact: Don Vickers</i>	Agency RUGs GBS SE	1998 2003	n/a	In Progress. Continues as partnership opportunities arise
Issue E3: The lack of recreational facilities along the River Thames				
E3/1 Review the provision of visitor facilities and develop a plan for the provision of facilities in areas of deficiency with minimal disturbance to the environment <i>Contact: Don Vickers</i>	Agency LAs Riparian Owners	1998 2003	n/a	In Progress. Coupled with 'Thames Ahead' initiative

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
E3/2 Include as part of lock site management plans a review of recreation facilities and make recommendations for improvements where necessary as well as a timescale for implementation <i>Contact: Don Vickers</i>	Agency	1998 2000	3/ann	Delayed. But will be in progress when work starts on Shepperton SMP – see D1/8
Issue E4: The Impact of litter on the Lower Thames and increase litter control				
E4/1 Expand the Thames 21 project (formally Thames Clean) upstream into the Lower Thames area, including the 'Adopt a River' campaign in addition to research, action campaigning, education and enforcement <i>Contact: Ian Larkins</i>	Thames 21 Agency Local Interest Groups RUGs TWUL	1998 2003	n/a	Deleted. Due to financial constraints. However, advice will be given to Local Authorities as to litter problems
E4/2 Consider extending where necessary the introduction of dog dirt bins on sections of the towpath owned by the Agency <i>Contact: Don Vickers</i>	Agency	1998 2003	0.2 each	In Progress. Further provisions at Silver Sands, Penton Hook and Penton Hook Island
Issue E5: The inadequate capacity of certain locks to meet peak demand				
E5/1 Continue to seek sources of funding for improvements at Bray and Boveney Locks <i>Contact: Phil Green</i>	Agency	1998 2003	n/a	In Progress. 'Thames Ahead' seeking to radically improve financial resources permitting increased capital expenditure

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
E5/2 Seek to improve the capacity problem that can occur during peak use of the navigation, within limits of resources, by providing better facilities at lock sites:	Agency			Delayed. Due to lack of resources and high river levels preventing work
- Bray head lay-by: construct overspill lay-by		2000-01	150	
- Boveney head lay-by: undertake feasibility study and design, construct overspill lay-by		2000-01	10	
- Shepperton tail lay-by, resolve land issues, if land issues resolved, construct lay-by		2001-02	150	
- Romney tail lay-by: complete the feasibility study and design of improved waiting area and bank works		2000-01	165	
- Construct waiting area and bank works		2000-01	45	
<i>Contact: Phil Green</i>		2000-01	210	
Issue E6: The Impact of the decline in commercial usage of the Thames and the loss of boating facilities				
E6/1 Continue to encourage commercial use of the Thames where feasible and economic (eg: during the construction of the Jubilee River)	Agency	1998 2003	n/a	In Progress. Jubilee River disposal continues. Continue to seek to encourage possible commercial use – carriage of materials for Heathrow Terminal 5
<i>Contact: Phil Green</i>				
E6/2 Encourage Local Authorities to protect existing river related uses by including appropriate policies in their development plans	Agency LAs	1998 2003	n/a	In Progress. Ongoing
<i>Contact: Phil Green/Ann Symonds</i>				
E6/3 Endorse the Policy of Retention of Boatyards and River Infrastructure	Agency	2001 2003	n/a	NEW ACTION
<i>Contact: Phil Green</i>				

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Issue E7: The impact of bank erosion and the nature of bank protection				
E7/1 Undertake an investigation of bank protection and erosion on the River Thames, to include the development of an environmentally robust strategy for the management of the Thames banks and towpath, management plans for Agency owned banks and guidance to riparian owners on good practice <i>Contact: David von Beesten</i>	Agency Riparian Land Owners	2001 2002	100	Delayed. Due to recent function restructure
E7/2 Continue to carry out education of boat users to limit speed and, when appropriate, pursue prosecutions. <i>Contact: Phil Green</i>	Agency	1998 2003	n/a	In Progress. Recent staff changes necessitate urgent training for Radar Gun use
New Issue E8: Awareness Raising about Recreation				
E8/1 Continue efforts, when opportunities arise to integrate Access Information, (Moorings, Footpaths, Disabled Facilities, Cycling, Canoes etc.) e.g. via 'Visit Thames' Website and 'Accessible Thames' walks leaflet <i>Contact: Colin Woodward</i>	Agency	2001 2003	n/a	NEW ACTION

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Sustainability Principle F: Waste				
To achieve reductions in waste through minimisation, re-use and recycling and improve standards of handling and disposal				
Issue F1: The environmental impact of waste management in the plan area				
F1/1 Raise the Agency's concerns on a site by site basis as waste management proposals come forward <i>Contact: Mike Smith</i>	Agency LAs	1998 2003	n/a	In Progress. Ongoing as Agency processes proposals
F1/2 Encourage local authorities and developers to consult the Agency as early as possible on development proposals, which may involve the re-use or recovery of waste (eg: noise bunds, golf courses and other recreational facilities) <i>Contact: Mike Smith</i>	Agency LAs	1998 2003	n/a	In Progress. Ongoing, although there have been recent staff changes
F1/3 Develop an Agency policy for the infilling of the wet gravel pits in the Lower Thames based on the type and quality of fill that may be acceptable to provide consistent protection of the aquifer <i>Contact: Mike Smith/John Naylor</i>	Agency LAs Mineral and Waste Companies	1999 2000	n/a	Delayed due to recent staff changes
F1/4 Support waste minimisation/recycling initiatives with local authorities, businesses and community groups, undertake a scoping study for establishing business environment clubs, targeting industrial estates in the plan area <i>Contact: Doug Greeves</i>	SCC Agency Businesses Local Communities LA	1998 2003	n/a	Delayed. The scoping study is delayed due to low service levels and lack of staff, however, it is intended for the study to be carried out and establish clubs similar to SuPERB and SBEC
F1/5 Support the SuPERB initiative in the part of the catchment that falls within Surrey <i>Contact: Doug Greeves</i>	Business Link Surrey Agency	1999 2003	n/a	In Progress. Action is ongoing, with numbers of members continually increasing

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
F1/6 Develop a working knowledge and understanding of the WIZARD Life Cycle Assessment toll to inform waste management decision making <i>Contact: John Rattenbury</i>	Agency SCC Ecobilan LAs	n/a	n/a	In Progress. Awaiting software release pending latest development work to software
F1/7 Check on the disposal routes of tyres to counter the ever increasing problem of fly tipping <i>Contact: John Clarke</i>	Agency LAs	2000 2003	12/ann	In Progress. This is one of 6 National campaigns, the 5 year programme was approved in April 2001 for tyre disposal
F1/8 Inspect industry to determine whether special waste (i.e. clinical waste) is being properly consigned in support of relevant legislation <i>Contact: Jon Naylor</i>	Agency	2000 2003	25/ann	In Progress. Visits included within our core activities
F1/9 Encourage and Enable Business to be able to Recycle <i>Contact: Doug Greeves</i>	Agency LAs Businesses	2001 2003	25	NEW ACTION
F1/10 Encourage debate on safe disposal of waste, (eg incinerators, composting, landfill sites) and the promotion of recycling <i>Contact: Mike Tregent</i>	Agency	2001 2003	2	NEW ACTION
F1/11 Investigate partnerships with trading standards to highlight packaging minimisation <i>Contact: Charlie Phillipps</i>	Agency LAs	2001 2003	2.5/ann	NEW ACTION
F1/12 Co-ordination of Local Authorities with regard to fly tipping to ensure ground level staff know and understand any protocols in place <i>Contact: Graham Strange</i>	Agency LAs Police	2001 2003	n/a	NEW ACTION

LEAP Action Description	Lead and Partners	Timescale Start End	Cost (£k)	Progress
Sustainability Principle G: Greater London Authority				
To raise awareness and promote co-ordinated action on environmental issues through the Greater London Authority				
Issue G1: Ensure the environment is high on the agenda for the Greater London Authority and the Mayor for London				
G1/2 Promote the issues of greatest concern to the Agency in London in the run up to establishing the GLA <i>Contact: Anna Burns</i>	Agency	1999 2001		Complete. The GLA was established in July 2000. The 'promotion of issues of greatest concern to the Agency in London' is, however, ongoing through our work influencing the Mayoral Strategies
G1/3 Develop a full range of Agency actions to help formulate the Mayor's strategies for London <i>Contact: Anna Burns</i>	Agency	1999 2000	6	In Progress. Ongoing through our work to ensure that the Agency's environmental priorities for London are included in the Mayoral Strategies
G1/4 Ensure communication and information where appropriate is supplied to the GLA and all the London Borough's in the catchment to inform their strategies <i>Contact: Anna Burns</i>	Agency LBs GLA	2001 2003	6	NEW ACTION

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Appendix 2 Suggested Actions not incorporated in Annual Review

Sustainability Principle A: Pollution

Proposed New Issue:

The impact of diffuse pollutants on Riverine ecology and water quality

Reason:

Water quality and biological quality of rivers is monitored as a statutory requirement and the programme is designed to assess river quality and the overall impact of pollutants on the receiving water course

Proposed New Issue:

The impacts of light pollution on light sensitive ecology

Reason:

Further investigations into the impact of light pollution on light sensitive species needs to be evaluated before this issue and action can be critically assessed

Sustainability Principle B: Water Resources

Issue B1: The management of demand for water resources at a sustainable level

Proposed Action:

Addition to B1/1: Specify leakage targets and attainment targets

Reason:

This is the role that OFWAT perform, not the Agency

Proposed Action:

Addition to B1/2: Must consider recycling effluent from STW especially London water into Lower Thames not Tideway

Reason:

Recycling of effluent already takes place 5 times along the Thames. Any such proposal would have to be investigated as the whole water environment will have adapted to the present status quo

Issue B3: The impact of low flows in some Thames tributaries and at times in the main river, especially below Staines (extraction for ring main)

Proposed Action:

Evaluate the impact of PPG25 on building on the floodplain

Reason:

PPG25 has been implemented and directly covers building in the floodplain. DEFRA High Level Target 12 requires the Agency to report on this annually

Sustainability Principle C: Flooding

Issue C7: The impact of localised flooding of the Lower Thames and its tributaries

Proposed Action:

Seek greater co-ordination of statutory and voluntary agencies in flood events

Reason:

This forms part of our statutory work, it is a legal requirement, and as such is not a new action and will never be completed

Issue C8: To continue to appraise the Thames assets and monitor the strategic approach for future appropriate replacement / refurbishment / enhancement

Proposed Action:

Application of Strategic Environmental Assessment Legislation

Reason:

This is a legal requirement and as such is done already

Sustainability Principle D: Conservation

Proposed New Issue:

Light pollution and enhancements
- Impacts on wildlife and river craft

Proposed Action:

Develop guidance on appropriate lighting
- BS committee guidance on lighting has been produced
- Agency navigation by-laws could be expanded

Reason:

Further investigations into the impact of light pollution on light sensitive species needs to be evaluated before this issue and action can be critically assessed

Proposed Action:

The need for education on the balance between conservation and peoples needs on the Lower Thames

Reason:

This is similar to the problems associated with encroachment (Issue D9) and would constitute duplication of issues

Sustainability Principle E: Recreation

Issue E1: The implementation of the River Thames Recreation Strategy and revision to incorporate the Jubilee River

Proposed Action:

Incorporate Jubilee River into River Thames Recreational Strategy

Reason:

As part of the 'Whole' Thames the Jubilee River is already included in the River Thames Recreational Strategy

Proposed Amendment to Issue:

The Need to manage the ongoing conflicts between different recreational interests and between recreation and conservation including the visual aspects of moorings

Reason:

Visual impact is an amenity concern not a 'conservation' issue which would confuse the issue

Proposed New Issue:

Application of the principles of Strategic Environmental Assessment

Reason:

It is standard Agency policy when carrying out any works to implement Strategic Environmental Assessment. This is considered not to be an issue in its own right

Proposed New Issue:

Thames Ahead

Proposed Action:

Evaluation of impact of Thames Ahead and the new Waterways Manager on LEAP

Reason:

This is not considered an Action but a principle that is accepted and as such should not be included as a LEAP Action

Proposed Action:

Ensure consistency of approach towards recreation across all 3 Thames LEAPs

Reason:

This Action is not related to Thames Ahead but is a principle that is already happening and as such should not be included as a LEAP Action

Proposed New Issue :

Health and Safety – increasing and broadening awareness beyond Agency sites

Proposed Action:

Review potential role of Agency – Health and Safety provision in partnership

Reason:

Health and Safety, although considered an important issue, beyond Agency owned sites the Agency has no powers to implement and without additional resources would not be able to achieved

Sustainability Principle F: Waste

Proposed New Issue:

Vermin control

Proposed Action:

Packaging and food disposal

Reason:

This is the role of Environmental Health Officers at Local Authorities

Sustainability Principle G: Greater London Authority

Issue G1: Ensure the environment is high on the agenda for the Greater London Authority and the Mayor for London

Proposed Action:

Co-ordinated approach to environmental input from all interested parties

Reason:

This Action is considered too great to be achievable by the Agency. The Agency inputs into the GLA's Environmental Strategies and to co-ordinate this approach is the role of the GLA not the Agency

Appendix 3 Contacts for Actions

Environment Agency Contacts

Contact Name	Job Title	Telephone No
Arkell, Brian	<i>Regional Water Resources Manager</i>	01189 535387
Baldwin, Liz	<i>Conservation Officer</i>	01276 454430
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Borrows, Peter	<i>Flood Defence Manager</i>	01189 535303
Burns, Anna	<i>GLA Liaison Manager</i>	0208 3054022
Butterworth, Alan	<i>Fisheries and Ecology Manager</i>	01276 454425
Clarke, John	<i>Campaigns Officer</i>	01276 454852
Clifton-Dey, Darryl	<i>Salmon Project Manager</i>	01189 535511
Copas, Richard	<i>Regional Landscape Architect</i>	01189 535565
Doran, Peter	<i>Regional Improvements Engineer</i>	01189 535774
Elliot, Guy	<i>Environmental Protection Officer</i>	01276 454404
Gajree, Meenu	<i>Area Contaminated Land Officer</i>	01276 454373
Gladdy, Claire	<i>Biologist</i>	01276 454423
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Tomes, Ian	<i>Improvements Team Leader</i>	01276 454470
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Weddell, Stephanie	<i>Environmental Protection Officer</i>	01276 454416
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External Organisation Contacts

Contact Name	Organisation	Telephone No
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Appendix 4 Abbreviations

Agency	Environment Agency
AMP	Asset Management Plan
AQMS	Automatic Quality Monitoring Station
BAP	Biodiversity Action Plan
BATNEEC	Best Available Technique Not Entailing Excessive Cost
BBOWT	Bucks, Berks and Oxon Wildlife Trust
BJSPC	Berkshire Joint Strategic Planning Committee
BP	British Petroleum
BTC	Bracknell Town Council
CAMS	Catchment Abstraction Management Strategies
CCs	County Councils
CFMP	Catchment Floodplain Management Plan
CIRIA	Construction Industry Research and Information Association
CPET	Chironomid Pupal Exuviae Technique
CSS	Countryside Stewardship Scheme
DEFRA	Department for the Environment Food and Rural Affairs
DWI	Drinking Water Inspectorate
DWSC	Datchet, Wraysbury, Staines and Chertsey
EBC	Elmbridge Borough Council
EH	English Heritage
EN	English Nature
ETBPP	Environment Technology Best Practice Programme
FC	Forestry Commission
FRCA	Farming and Rural Conservation Agency
FWAG	Farming and Wildlife Advisory Group
GBS	Governing Bodies of Sport
GLA	Greater London Authority
GQA	General Quality Assessment
IMS	Interim Management Statement
LA21	Local Agenda 21
LAs	Local Authorities
LBs	London Boroughs
LBH	London Borough of Hounslow
LBR	London Borough of Richmond upon Thames
LFTFI	Lower Freshwater Thames Fishery Investigation
LPAC	London Planning Advisory Committee
LPAs	Local Planning Authorities
LEAP	Local Environment Agency Plan
MOLAS	Museum of London Archaeological Service
MOU	Memorandum of understanding
MWEFAS	Maidenhead, Windsor and Eton Flood Alleviation Scheme (Jubilee River)
n/a	Not available
NFU	National Farmers Union
NRA	National Rivers Authority
OFWAT	Office of Water Services
PC	Parish Council
PLA	Port of London Authority
PPG25	Planning Policy Guidance Note PPG (25) Development and Flood Risk
R&D	Research and Development
RBK	Royal Borough of Kingston upon Thames
RBWM	Royal Borough of Windsor and Maidenhead
RE	River Ecosystem Classification
RFERAC	Regional Fisheries Ecology and Advisory Committee
RFDC	Regional Flood Defence Committee
RQO	River Quality Objective

RUGs	River User Groups
SBC	Spelthorne Borough Council
SBP	Surrey Biodiversity Partnership
SBEC	Slough Business Environment Club
SE	Sport England
SERPLAN	South East Regional Planning Conference
SEWC	South East Water Company
SCC	Surrey County Council
SMP	Site Management Plan
SNCI	Site of Nature Conservation Importance
SSSI	Site of Special Scientific Interest
STW	Sewage Treatment Work
SUDS	Sustainable Urban Drainage Systems
SuPERB	Surrey Partnership for Environmentally Responsible Business
Sustrans	Sustainable Transport
SWT	Surrey Wildlife Trust
T21	Thames 21
TLS	Thames Landscape Strategy
TPRMG	Thames Path and Ridgeway Management Group
TST	Thames Salmon Trust
TWUL	Thames Water Utilities Limited
UCL	University College London
UWWTD	Urban Waste Water Treatment Directive
WHS	Wildlife Heritage Site
WLMP	Water Level Management Plan
WTs	Wildlife Trusts

Units

°C	degrees Celsius
ha	hectare
km	kilometre
km ²	square kilometre
l	litre
mg	milligrams
MI	megalitre
MI/day	megalitres per day
mm	millimetre
%	percentage

Appendix 5 Glossary of Terms

abstraction - removal of water from surface or groundwater.

abstraction licence - licence issued by the Environment Agency under s.38 of the Water Resources Act 1991 to permit removal of water from a source of supply. It can limit the quantity of water taken daily.

alien - plant or animal not native to the country concerned.

Area of Outstanding Natural Beauty (AONB) - designated by the Countryside Commission under the National Parks and Access to the Countryside Act 1942, to conserve and enhance the natural beauty of the landscape, mainly through planning controls.

biodiversity - variety of species present and their abundance. Here, generally applied to variety of native species and habitats. Includes fish species.

buffer strip or zone - strip of land, 10-100 m wide, alongside rivers which is removed from intensive agricultural use.

catchment - the total area from which a single river collects surface run-off.

coarse fish - this is a common term for cyprinid fish and other commonly associated species such as pike, perch and eels of angling significance. The term does not normally refer to minor species such as bullhead, stone loach, minnow and stickleback.

consent (discharge) - a statutory document issued by the Environment Agency under Schedule 10 of the Water Resources Act 1991 as amended by the Environment Act 1995 to indicate any limits and conditions on the discharge of an effluent to a controlled water.

contaminated land - "any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that:-

a) significant harm is being caused or there is a significant possibility of such harm being caused; or
b) pollution of controlled waters is being, or is likely to be caused"

controlled waste - defined by the Control of Pollution Act 1974, Part 1 Section 30. It includes household, industrial and commercial waste.

Countryside Stewardship Scheme - an initiative run by MAFF to enhance and conserve farming landscapes, wildlife habitats and cultural heritage.

cyprinid fish - fish of the family Cyprinidae (e.g. roach, bream, carp and chub). Pike, perch, eel and some other fish species are not cyprinids.

diffuse pollution - pollution without a single point source e.g. acid rain, pesticides, urban runoff etc.

eutrophic - enriched by nutrients, such as compounds of nitrogen or phosphorus.

floodplain - parts of river valleys or coastal plains which are inundated during floods. It includes areas protected by flood defences.

groundwater - water contained in the void spaces in pervious rocks and also within the soil.

habitat - natural home of plant or animal.

Integrated Pollution Control (IPC) - an approach to pollution control in the UK, which takes account of potential effects upon all environmental media.

invertebrates - animals without a backbone e.g. insects, worms and spiders.

landfill site - site used for waste disposal into/onto land.

Main River - designated under the Water Resources Act 1991 by the Ministry of Agriculture, Fisheries and Food. In broad terms Main River includes all watercourses which contribute significantly to a catchment's drainage. Formal consent is required for all activities that interfere with the bed or banks of the river or obstruct the flow.

National Nature Reserve (NNR) - sites owned or leased and managed by English Nature and established as reserves under the National Parks and Access to the Countryside Act 1949.

Ordinary Watercourse - every natural river or stream which is not a Main River (see above) and is covered under the Land Drainage Act 1991. Sometimes referred to as non-Main River. Responsibility for maintenance lies with the landowner.

Ramsar sites - wetlands of international importance. They are statutory areas designated for their waterfowl populations or important plant and animal communities.

reach - a length of channel.

restoration - the return to a pristine state.

river corridor - land which has visual, physical or ecological links to a watercourse and which is dependent on the quality or level of the water within the channel.

run-off - water leaving a river catchment. Normally regarded as rainfall minus evapotranspiration (evaporation and loss of water by plants) but commonly used to mean rainwater flowing across the land (also known as overland flow).

salmonid fish - game fish, e.g. trout and salmon.

sewage - liquid waste from cities, towns and villages which is normally collected and conveyed in sewers for treatment and/or discharge to the environment.

sewerage - a system of underground pipes designed to carry sewage to Sewage Treatment Works.

Site of Special Scientific Interest (SSSI) - sites of national importance designated under the Wildlife and Countryside Act 1981 by English Nature in England. Sites may be designated to protect wildlife, geology or land forms.

source control - a collective term used to describe the management of run-off at or near the point of impact of rainfall and before it reaches the piped drainage and sewerage systems of urban areas. They include balancing ponds, permeable pavements and underground water butts.

Special Protection Areas (SPAs) - sites identified by UK government under the EC Directive on the Conservation of Wild Birds (79/409/EC).

Special Area of Conservation (SAC) - areas designated under the EC Habitats Directive.

Structure Plans - statutory documents produced by County Councils outlining their strategy for development over a 10-15 year timescale.

surface water - general term used to describe all the water features such as rivers, streams, springs, ponds and lakes.

sustainable development - development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

tributary - a stream or river which feeds into a larger one.

Appendix 6 External Participants

Middle Thames Fisheries Consultative
 National Association of Fisheries and Angling Consultatives
 Edinburgh University
 Thames Explorer Trust
 Ramblers Association
 Thames Water Utilities Ltd
 Thames Landscape Strategy
 British Canoe Union
 Society for the Protection of Ancient Mills
 Slough Borough Council
 River User Group 6
 Royal Borough of Windsor & Maidenhead
 River User Group 8
 Regional Fisheries, Ecology and Recreation Advisory Committee (RFERAC)

Appendix 7 Main Roles and Responsibilities of the Environment Agency

On a day-to-day basis, the Agency carries out a huge environmental monitoring and regulatory operation, most of which is to achieve statutory requirements. The aim of regulation is to balance the needs of people and the environment. The table below summarises our main duties and does not provide a step by step account of our daily tasks:

	What we are responsible for:	What we are <u>not</u> responsible for and who to contact:
Water quality	<ul style="list-style-type: none"> • Consenting to and charging for discharges to watercourses • Responding to pollution incidents • Prosecuting polluters to recover clean-up costs • Sampling water quality • Carrying out biological and bacteriological surveys • Setting water quality targets • Protecting groundwater quality 	<ul style="list-style-type: none"> • Maintenance of surface water sewer system • Quality or supply of drinking water and the disposal of sewage (contact your local water company) • Control of run-off from roads and highways
Water Resources	<ul style="list-style-type: none"> • Measuring rainfall, river flows and groundwater resources • Granting or varying of water abstraction and impoundment licenses • Monitoring and enforcing licence conditions • Promoting water efficiency and conservation measures • Licensing groundwater and surface water abstractions 	<ul style="list-style-type: none"> • Drinking water quality and supply • Disposal and treatment of sewage • Leaky pipes and water mains

What we are responsible for:

What we are not responsible for and who to contact:

Flooding	<ul style="list-style-type: none"> • Maintenance of watercourses to prevent flooding as required utilising our permissive powers • Advising on floodplain issues • Regulating work affecting Main Rivers • Maintaining free passage of water by dredging, bank trimming and rubbish clearance • Identifying and constructing flood defence works • Forecasting and issuing flood warnings • Producing flood risk maps for Main Rivers • Controlling development or construction of structures that affect river flows 	<ul style="list-style-type: none"> • Regular river maintenance (e.g. litter removal and tree maintenance) • Upkeep of flood defences not owned by the Agency • Regulating work affecting Ordinary Watercourses • Co-ordinating emergency response for widespread flood events • Burst pipes and sewer overflows • Flooding from drains, sewers, streams or ditches (contact your local authority) • Coastal protection (your local authority is responsible) • Providing sand bags and emergency equipment (contact your local authority or the emergency services)
Conservation	<ul style="list-style-type: none"> • Promoting nature conservation wherever possible when carrying out water management functions • Promoting the conservation of flora and fauna which are dependant on an aquatic environment 	<ul style="list-style-type: none"> • Day-to-day management and protection of designated sites • SSSIs and nature reserves (contact English Nature 01733 455000) • National parks (contact the appropriate national park authority) • Rights of way and access to the countryside (contact the Countryside Agency 01242 521381)
Landscape	<ul style="list-style-type: none"> • Promoting landscape conservation and enhancement • Having regard for the landscape when carrying out pollution control functions • Promoting the conservation and enhancement of the natural beauty of rivers and associated land • Seek advise when potentially impacting upon historic environment or archaeological landscape 	<ul style="list-style-type: none"> • Determining impact of new development on landscape • Deciding style of development • Designation and protection of protected landscape areas
Archaeology	<ul style="list-style-type: none"> • Considering archaeological issues when carrying out regulatory, operational and advisor 	<ul style="list-style-type: none"> • Management and protection of historical structures and Conservation Areas • Production of archaeological strategies • Advising LPAs on archaeological issues in planning

What we are responsible for:

What we are not responsible for and who to contact:

Fisheries	<ul style="list-style-type: none"> • Promoting fisheries duty whilst undertaking regulatory, operational and advisory work • Taking opportunities to restore degraded habitats where appropriate • Promoting free passage of fish and consenting fish passes • Monitoring fisheries and enforcing measures to prevent fish entrapment in abstractions • Regulating the introduction of fish species to rivers and lakes • Making and enforcing fisheries bylaws to prevent illegal fishing • Prosecuting offenders • Regulating fishing by a system of licensing • Rescuing fish in emergency situations • Surveying the health and numbers of fish populations 	
Radioactive Substances	<ul style="list-style-type: none"> • Issuing certificates to users of radioactive materials and disposers of radioactive waste 	<ul style="list-style-type: none"> • Health effects of radiation
Air Quality	<ul style="list-style-type: none"> • Regulation and monitoring of emissions from complex industrial processes (Part A IPC processes) • Regulation and monitoring of gaseous emissions from licensed landfill sites 	<ul style="list-style-type: none"> • Air pollution from vehicles, household areas, small businesses and small industries (contact your local authority) • Transport planning • Identifying Air Quality Management Areas (AQMA) • Smell problems (except when they relate to a site we regulate, although your local authority may still have the main responsibility)
Recreation	<ul style="list-style-type: none"> • Promoting the recreational use of all inland and coastal waters, and associated land • Ensuring best recreational use of Agency owned land and associated waters • Promoting public access to rivers and the general enjoyment of the riverside 	<ul style="list-style-type: none"> • General maintenance of footpaths and cycleways • Canals (contact British Waterways 01923 226422)

What we are responsible for:

What we are not responsible for and who to contact:

Waste Management	<ul style="list-style-type: none"> • Licensing of waste management activities through the imposition of appropriate conditions • Supervision of licensed activities and the operation of enforcement procedures • Investigating and prosecuting illegal waste management operations • Regulating and monitoring the movement of Special Waste (i.e. those that are considered dangerous to life and require cradle to grave monitoring) • Registration of Waste Carriers, Waste Brokers and activities exempt from licensing • Collecting information about waste arisings • Promotion of Duty of Care 	<ul style="list-style-type: none"> • Collecting waste in your local area (contact your local authority) • Disposal of rubbish • Identifying the location of future waste disposal sites or incinerators • Granting permission for waste management facilities • Local waste recycling and minimisation schemes • Litter control (except when related to illegal waste dumping, although your local authority may still have the main responsibility) • Environmental health, food hygiene, noise, dog nuisance and pest control (contact local authority)
Planning	<ul style="list-style-type: none"> • Responding to planning application consultations • Promoting policies to protect and enhance the water environment in development plans • Ensuring that all development in or near rivers protects and enhances the water environment by issuing Land Drainage Consents • Producing LEAPs to integrate the Agency's work with activities being undertaken by other organisations • Promoting sustainable development (eg through Local Agenda 21 and Community Strategies) 	<ul style="list-style-type: none"> • Granting/declining planning applications • Producing Land Use Plans • Developing and promoting Local 21 and Community Strategies
Contaminated Land	<ul style="list-style-type: none"> • Providing information and advice to LAs on land contamination • Regulation of the remediation of contaminated land designated as Special Sites • Maintaining a register of Special Sites remediation • Prevention of future contamination • Reporting on the state of contaminated land 	<ul style="list-style-type: none"> • Identification of contaminated land • Remediation of contaminated land • Maintaining register of contaminated land remediation (other than Special Sites)
Legislation	<ul style="list-style-type: none"> • Government policy and legislation affecting the environment • Environmental issues in Scotland • Environmental issues in Northern Ireland 	<ul style="list-style-type: none"> • Contact DEFRA 08459 335577 • Contact the Scottish Environmental Protection Agency 01786 457700 • Contact Environment and Heritage Service (Environment Protection) 02890 254754 or Rivers Agency 02890 253355

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