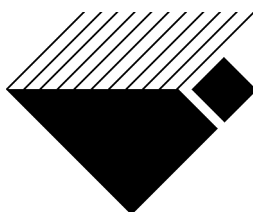




UPPER PARRAMATTA RIVER



CATCHMENT TRUST

ANNUAL REPORT

for the year ending 30 June 1998



The Hon R Amery, M.P.
Minister for Land and Water Conservation
Parliament House
SYDNEY.

Dear Sir

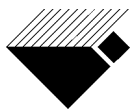
Pursuant to the provisions of the Annual Reports (Statutory Authorities) Act, I have pleasure in presenting to you the Annual Report of the Upper Parramatta River Catchment Trust for the year ended 30 June, 1998.

Chairman.
31 October 1998.



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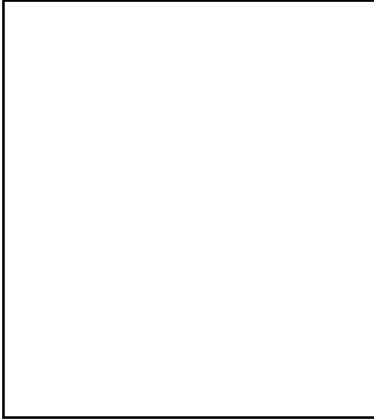


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Catchment Map

inside back cover



Chairman's remarks:

The past year has seen firm foundations laid for a number of major projects and initiatives that will bear fruit this year. The modest level of expenditure on flood mitigation and water quality measures by the Trust and local councils in 1997/98 will be followed by much higher levels of expenditure this year, after allowing for the lack of any government grants for flood mitigation.

Regrettably last year was the first since the Trust was established when no financial assistance was provided by either the State or Commonwealth Governments for flood mitigation projects in this catchment. The Commonwealth Government no longer provides grants for flood-related projects in western Sydney. As a result, the Trust and the local councils will now be required to meet 100% of construction costs, instead of the 20% applicable until recently. Unless the Commonwealth reverses its policy, it will take much longer to protect all catchment properties from major floods.

On a more positive note, a significant achievement during the past year was obtaining development consent to the Upper Toongabbie Creek Flood Mitigation Strategy from both Parramatta City Council and Baulkham Hills Shire Council. This \$2M project will help protect some 300 flood liable homes in Toongabbie. Because no government grants are available, the project will have to be

constructed over two financial years.

Since 1991 the catchment on-site stormwater detention (OSD) policy has been relied upon to ensure that new developments do not increase downstream flooding. The Trust was therefore very concerned by the disappointing results of an OSD audit completed in 1997. Discussions with all four local councils helped identify a range of actions to address the causes of so many ineffective OSD systems. These will be actively pursued in the coming year.

The 'Green Corridors' vegetation management plan was effectively completed in the past year. Building upon the Sydney-wide Green Web study, 'Green Corridors' will guide on-ground vegetation improvement activities by local councils and community groups, and assist in obtaining government grants. The imminent appointment by the Trust of an environmental officer with bushland regeneration skills will strengthen the Trust's capacity to provide practical assistance in this field.

During the past year the Trust further developed its capabilities in the area of water quality through water quality modelling and testing. The Streamwatch testing program in this catchment is now the most highly developed in Australia. A

comprehensive biological monitoring program was completed and a detailed water quality model of the catchment was built and calibrated. The Trust is thus well placed to support the development in 1998/99 of a catchment Stormwater Management Plan.

I wish to thank the catchment community for its contributions and support for the Trust co-ordinated activities. In addition, I wish to record my appreciation of the strong support of the Councilors and staff from the four local councils in the catchment. I also take this opportunity to thank my fellow Trustees and the Trust's seven staff whose collective efforts are reflected in the impressive achievements outlined in this report.

Finally, I would like to place on record my appreciation of the keen interest and support for the Trust by our Minister, the Hon Richard Amery MP. It was my pleasure to host a visit to this catchment by the Minister in May 1998.

The Trust has achieved much in the past nine years and enjoys strong support from the catchment community. I look to the future with confidence that the Trust can continue to deliver services and outcomes appreciated by the community it serves.

GEORGE WHITEHOUSE



THE ORGANISATION

General

The Trust is a statutory authority established by the New South Wales Government in 1989 to accelerate the provision of flood mitigation works and measures, improve water quality and undertake associated activities, in the upper Parramatta River catchment area.

The Trust was constituted under the Water Supply Authorities Act, 1987 and comes within the administration of the Minister for Land and Water Conservation, the Hon. Richard Amery, MP.

It meets regularly to set policy, review progress and provide broad direction for the Trust's overall activities. Responsibility for day-to-day operations rests with the Executive Officer.

When being set up, it was determined that the Trust should

- have only a small staff and a limited life
- use consultants for detailed work
- rely upon the Department of Land and Water Conservation for administrative services
- use the Sydney Water Corporation Ltd (Sydney Water) to collect service charges
- employ councils or contractors for construction
- rely on advice, rather than direction
- complement, not duplicate, the work of councils and other Government bodies

- adopt a strategic, co-ordinating, advisory role.

The upper Parramatta River catchment includes parts of the Cities of Blacktown, Holroyd and Parramatta, and the Shire of Baulkham Hills. It covers 110 square kilometres, is located near the centre of the Sydney metropolitan area and has a population of more than 230,000. It is bounded by Prospect Reservoir to the south west, Blacktown to the north west, Castle Hill to the north and Carlingford to the east.

A map of the catchment is inside the back cover.

Most of the catchment is urbanised, except for some undeveloped open land and forest in the north and south.

The Trust's principal source of income is a river management service charge levied on all rateable properties in the catchment, and collected once each year by Sydney Water, on behalf of the Trust.

History

The potential for serious flooding in the upper Parramatta River catchment was recognised in the early 1970s when a major flood mitigation study was carried out.

The study report recommended that a system of flood retarding basins be built and a catchment flood mitigation authority be established. The report also warned of the likely growth in flooding arising from further development in the catchment.

The proposal to set up a flood mitigation authority failed to attract unanimous support at that time. It was decided instead to rely upon co-operation between the four local councils and State Government support.

A further study, completed in 1980, refined the earlier proposals.

Progress on construction of the recommended flood retarding basins was slow. By 1986 only three had been built, while extensive subdivision and development was continuing in the catchment, exacerbating the flooding problem.

In the late 1980s the catchment experienced a series of storms and major floods, and many properties which had never been flooded before were inundated repeatedly.

Following representations from Councils in the catchment, and comments received on a discussion paper on the desirability of setting up an organisation to address the serious flooding, the Government decided to establish the Upper Parramatta River Catchment Trust.

Legislation

The Trust was constituted by proclamation on 5 April 1989, in pursuance of Section 6(1) of the Water Supply Authorities Act, 1987.



Charter

Subject to the control and direction of the Minister, the Trust is responsible for mitigating the impacts of flooding, trunk drainage surcharge, deteriorating water quality, other natural hazards and instituting appropriate planning controls and developing ongoing management strategies for the Parramatta River catchment upstream of the tidal limit.

The Trust is achieving these objectives through the Government's Total Catchment Management policy.

This involves the Trust in

- co-ordinating the relevant activities of the four local councils, Government agencies, organisations and individuals
- ensuring that all necessary activities are carried out
- undertaking essential functions not being undertaken by others
- balancing diverse interests and values
- considering the inter-relationship between various water and land management practices; and thus addressing water and waterway issues using an integrated whole-catchment approach.

Corporate Plan

The Trust's activities are guided by its Corporate Plan. Under this Plan, the following **Mission Statement** has been adopted

Mission Statement

To improve the social, economic and environmental well-being of the catchment community by providing protection from flooding and trunk drainage surcharge, and enhancing streams and stream banks, through the development of high technical standards, community support and co-operation with other agencies.

Corporate Objectives:

The Trust's **corporate objectives**, crucial to successfully fulfilling its mission, are to

ensure that a flood mitigation and trunk drainage infrastructure is in place to service and protect the community, having regard to the impact on existing and future catchment conditions, public safety and the natural environment

ensure that new developments do not increase potential flood losses or damage the environment, by co-ordinating and providing technical support for uniform catchment-wide planning and development controls

ensure proper maintenance, repair and enhancement of the stream, trunk drainage and flood mitigation system for optimum performance, safety and amenity

promote, protect and enhance the environmental and recreational values of streams and streambanks, in partnership with all levels of government and the community

build community support for the Trust's objectives by providing advice, information, literature and opportunities for effective community participation in its activities

ensure the effective and efficient deployment of the Trust's corporate resources - human, financial, physical and information.



Trustees

The current Trustees were appointed on 23 July 1997 for terms expiring on 30 September 1999.

The Trustees appointed were:

George Whitehouse - Chairman
Axel Tennie- Deputy Chairman
Nominated by the Minister for Land & Water Conservation

John Arthur Watkins MP
Nominated by the Minister for Urban Affairs and Planning

Kathleen Veronica Collins
Nominated by the Minister for the Environment

Alfred John Larry Bolitho
Roy Barry Potter
Baulkham Hills Shire Council

John Cameron Books
Christopher Edward Worthington
Parramatta City Council

Allan Gordon Ezzy
Peter Theodore Joseph Herlinger
Holroyd City Council

Russell Keith Dickens
Michael Sommerton
Blacktown City Council

During October 1997 John Watkins MP resigned, and a replacement has not been nominated by the Minister for Urban Affairs and Planning.

Within the reporting period eight meetings of the Trust were held and the attendance of Trustees at meetings is shown at Appendix I.

Staff

The Trust is served by a full time staff of seven

Executive Officer
Administrative Officer
Senior Engineer
Public Relations Officer
Developments Engineer
Investigations Engineer
Clerical Officer.

The Executive Officer is Dr Stephen Lees, B.E. (Hons), Ph.D., M.I.E. Aust.

The staff provides the Trust with modest technical, administrative and community relations capabilities. Of necessity, extensive use is made of consultants for detailed investigations and designs.

The staffing level of seven has remained constant since the Trust was established.

The Department of Land and Water Conservation provides the Trust with personnel and industrial relations services, using policies and practices which are in accordance with the State public service and the Industrial Relations Act 1991.

The Trust also receives other administrative support from the Department, and assistance from Sydney Water in billing and collection of service charges.

The Trust has no officers within the Senior Executive Service.

An organisation chart showing the staff positions and reporting relationships is presented on page 9.

Equal Employment Opportunity

Throughout the year the Trust has followed the principles of Equal Employment Opportunity for its staff.

The Trust has continued to encourage staff to broaden their expertise and multi-skilling through courses and 'on-the-job' training. Because of the Trust's small staff numbers, multi-skilling is of special benefit.

To comply with statutory requirements, statistics showing 'Representation and Recruitment of Aboriginal Employees and Employees with a Physical Disability' and 'Representation of EEO Target groups within Levels' are set out in Tables 1 and 2 at Appendix J.

Ethnic Affairs Policy Statment

Under the EAPS program, the Trust has adopted the following :

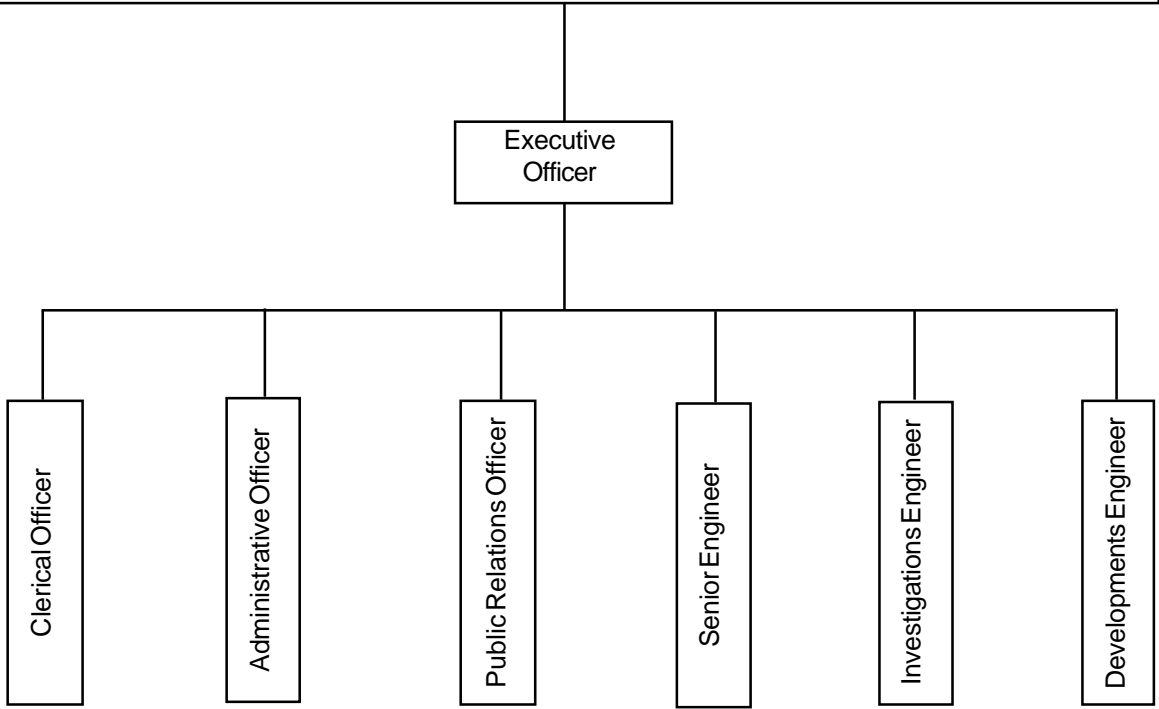
- to provide services to all members of the community regardless of background.
- policy and program development is responsive to linguistic, cultural, social and religious diversity.
- persons of ethnic background and experiences are aware of opportunities to be represented on advisory committees.
- to encourage community development and unity within the catchment.
- publications portray all community groups free of stereotyping.
- work policies and practices are free of discrimination.

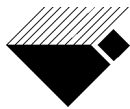


ORGANISATION CHART

Standing Left to Right : Peter Herlinger, Russell Dickens, John Books, Larry Bolitho, Axel Tennie, Chris Worthington
Seated Left to Right : Allan Ezzy, George Whitehouse, Michael Sommerton
Absent : Kathie Collins, Roy Potter

Trustees





Income

The Trust receives income from a river management service charge on all rateable properties in the catchment.

Sydney Water bills and collects the river management service charge for the Trust. This is the most cost efficient method as Sydney Water already bills and collects its own charges from property owners within the catchment and includes the Trust service charges on its accounts.

The service charges for 1997/98 were:

residential	\$26.20
residential strata units or flats	\$13.10
vacant land	\$13.10
industrial, commercial strata units	\$32.60
industrial, commercial properties up to 1 ha	\$65.30
industrial, commercial properties over 1 ha	
-over 1 to 10 ha	\$1,327.10
-over 10 to 50 ha	\$1,962.40
-over 50 to 100 ha	\$4,506.40
-over 100 ha	\$6,541.70

The Trust's service charges were included on Sydney Water's account notices for the first quarter of the 1997/98 financial year. Service charges were levied on nearly 70,000 properties.

Income from the service charges received during the 1997/98 charging year was \$2,007,715. The Trust paid \$77,900 to Sydney Water for issuing the accounts and collecting payments.

At 30 June 1998, \$2,515 in service charges were outstanding. This represented only 0.12 percent of the charges levied.

Interest payments of \$132,890 were received from investments and \$5,112 from operating accounts.

Annual Report Publication

Six hundred copies of this Report have been printed at a unit cost of \$5.00.

Access

The Upper Parramatta River Catchment Trust office is located in the Macquarie Tower building, Level 1, 10 Valentine Avenue, Parramatta.

Postal address is PO Box 3720, Parramatta, 2124.

The telephone number is 9891 4633.

The facsimile number is 9689 2537.

The email address is uprct@uprct.nsw.gov.au

The website is <http://www.upperparrariver.nsw.gov.au>

Hours of business are 8.30 am to 5.00 pm weekdays.

Freedom of Information Act 1989

The Trust received no applications for information under the Freedom of Information Act 1989 during the year under review.

There has been only one application since the Trust's establishment in April 1989.

REVIEW OF THE YEAR'S ACHIEVEMENTS



REVIEW OF THE YEAR'S ACHIEVEMENTS

The Trust has identified six key objectives as part of its draft Catchment Management Strategy. These objectives are to

Solve Existing Flooding Problems

Contain Future Flood Potential

Improve Water Quality

Co-ordinate Vegetation Management

Involve the Community

Provide Corporate Services

SOLVE EXISTING FLOODING PROBLEMS

To speed up the construction of flood mitigation works and measures, the Trust encourages flood mitigation and drainage activities by the four local councils by co-ordinating, providing technical advice and funding half the cost of approved projects. At the same time, the Trust carries out activities in its own right. It also undertakes strategic activities, such as flood modelling, priority setting, collecting flood data, protecting basin sites and formulating major projects.

Upper Toongabbie Creek Flood Mitigation Strategy

Despite the construction of seven upstream flood retarding basins, 309 residential properties and 44 homes are still flood liable in the Toongabbie 'confluence' area of Toongabbie Creek, Pendle Hill Creek and Greystanes Creek at Toongabbie. For some years the Trust has been investigating options to reduce flood discharges and property flooding along the upper reaches of Toongabbie

Creek and its tributaries, including the Toongabbie 'confluence' area.

It was found that the best option is to enlarge the existing Sierra Place Basin on Toongabbie Creek at West Baulkham Hills by raising the main embankment by 2.5 metres. Enlarging the basin will both restore flood capacity lost due to encroachment by the embankments of the M2 Motorway (which passes through the basin area) and enable the basin to cope with extra stormwater runoff from additional upstream developments. This will ensure the basin wall does not spill in a 100 year storm. Hydrologic studies showed that this work will lower flood levels in the Toongabbie 'confluence' area. Further flood level reductions can be achieved by creating a high level floodway next to Toongabbie Creek in Sue Savage Reserve in the Toongabbie 'confluence' area. Together, these two works, called the Upper Toongabbie Creek Flood Mitigation Strategy, will protect most flood liable homes and allow the local stormwater drainage system to function better during future floods.

After the Trust endorsed the Strategy, detailed design and environmental assessments and development applications were undertaken by consultants engaged by the Trust. During this process residents living near both work sites were consulted. Arrangements were made for the excess spoil from the Sue Savage Reserve to be used to fill a golf driving range adjoining the Sierra Place Basin. Because the two works are in different local government areas, development applications were submitted to both Parramatta City Council and Baulkham Hills Shire Council. Consents were granted in April and May 1998. As no State or Commonwealth Government grants are available for this project, it will have to be built in two financial

years. Construction tenders were called in mid 1998 with the aim of constructing the floodway in late 1998 and enlarging the basin in late 1999 at an estimated total cost of \$1.5M.

Gooden Reserve Flood Basin

During the past year a retarding basin was constructed in Gooden Reserve at West Baulkham Hills, on a major drainage line, which joins Toongabbie Creek within the Sierra Place Basin. The Gooden Reserve basin deals with stormwater runoff from the local catchment and a section of the M2 Motorway that skirts the Reserve. For that reason, the cost of the basin was shared between the Trust, Baulkham Hills Shire Council, the Roads and Traffic Authority and the company that built the Motorway. The Trust and Council are to contribute \$170,000 each. The Gooden Reserve basin protects 10 downstream properties that were subject to above-floor flooding and 28 properties that were subject to over-ground flooding in a 100 year storm. Furthermore, the new basin will retard flood flows into the Sierra Place Basin, thereby improving the flood performance of that basin.

North Wentworthville Floodplain Management Study

After the Toongabbie 'confluence' area, the area with the greatest number of flood liable properties in the catchment is the area at the confluence of Toongabbie, Finlaysons and Coopers Creek at North Wentworthville. As well as the serious flooding, both Coopers Creek and Finlaysons Creek are badly degraded, with severe erosion and pollution. During the past year, a team of consultants has carried out a floodplain



management study to develop an agreed flood mitigation strategy for this area that addresses both the related flooding and creek degradation problems. The study was guided by a project Steering Committee comprising Trust, Parramatta City Council, Sydney Water and community representatives. Trust staff undertook hydraulic modelling to delineate the complex flooding patterns in this area.

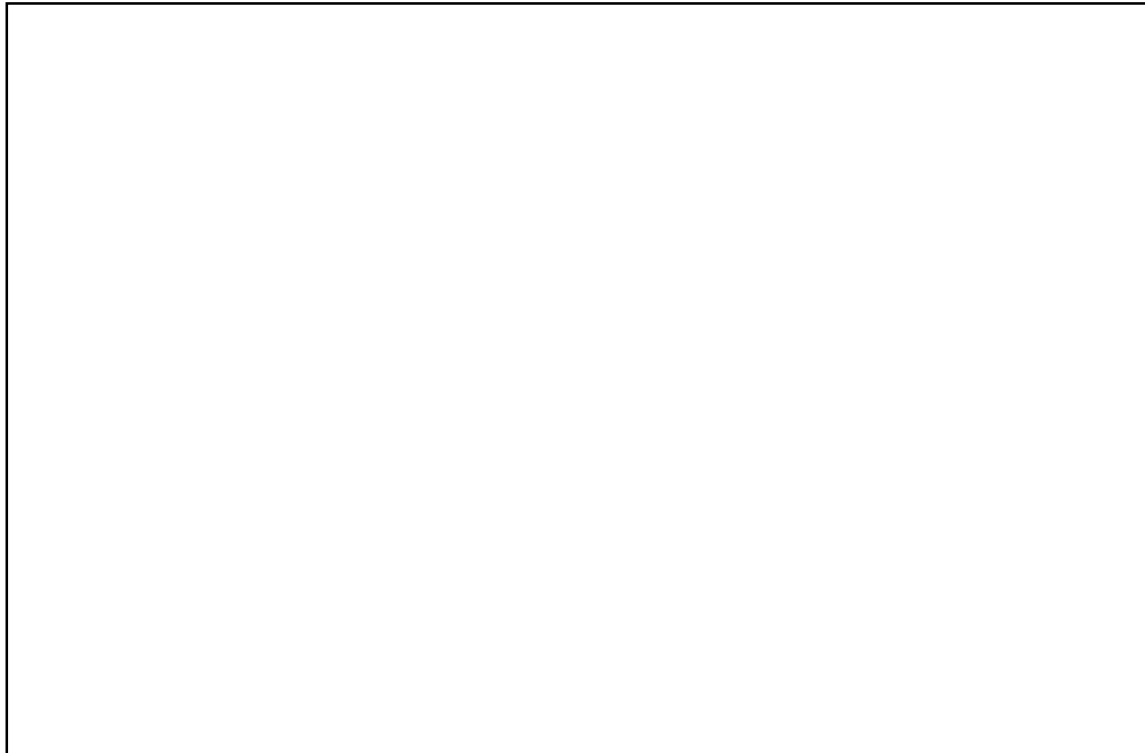
Following extensive technical analyses and consultation, including two public meetings and three community newsletters, a draft North Wentworthville Floodplain Management Plan was prepared. Key elements of the draft plan are rezoning with strict controls, minor structural works, voluntary acquisitions, flood awareness measures and a study on how best to rehabilitate the degraded creeks. The draft plan will be submitted to Parramatta City Council for public exhibition.

Pendle Hill Creek Floodway

For several years Parramatta City Council has been constructing the Pendle Hill Creek Floodway with financial and technical assistance from the Trust and, in earlier years, the Commonwealth and State Governments. When completed the Floodway will run through a Council reserve and the backyards of 40 residential properties, protecting 100 previously flood liable residential properties.

The works are about three-quarters completed. The remaining works are to continue the Floodway downstream to Barangaroo Road and replace the existing inadequate culverts with a bridge. Consulting engineers have designed these works, which are estimated to cost \$1.1M to construct. No Government grants are available for this project.

During the year the Trust had a consultant prepare detailed design plans and specifications for the balance of the Floodway. The Trust included funds in its 1997/98 expenditure estimates for half the estimated costs of completing the Pendle Hill Creek Floodway, but Parramatta City Council was unable to find its matching contribution. Part-way through the financial year Council advised that it could contribute half the cost of a new Barangaroo Road bridge and channel transitions upstream and downstream. The Trust will contribute the balance of the cost. Tenders for the construction of the bridge were called and a contractor selected, however negotiations with the owner of a property next to the new bridge site must be finalised before work can commence.



Trustees and Councillors inspect serious bank erosion along Greystanes Creek upstream of Station Road at Toongabbie Bowling Club .



Reconstruct Greystanes Creek at Toongabbie Bowling Club

At the Toongabbie Bowling Club in Station Road, Toongabbie; Greystanes Creek is heavily overgrown with Willow trees. These, with poor soil, poor channel alignment and stormwater lines discharging straight into the creek, have caused serious bank erosion and potential wash away of fencing and a footpath along the creek bank. The Trust has agreed, in principle, to provide up to half the cost of reconstructing this section of creek, whilst the Bowling Club will dedicate the land over the creek to Parramatta City Council without cost after the creek is reconstructed. A Steering Committee comprising representatives of the Trust, Parramatta City Council, the Bowling Club, Department of Land and Water Conservation and the Environment Protection Authority is guiding the design process.

To expedite the design, the Trust prepared the design brief and had a site survey, geotechnical investigation and flora and fauna survey carried out. However, the project is now being managed by Parramatta City Council. A consulting engineer has been engaged by Council on the recommendation of the project Steering Committee to design the works, arrange the environmental assessment, prepare the development application, then prepare detailed design plans and specifications.

Other Flood Mitigation Projects

At a number of locations in the Shire of Baulkham Hills, stormwater surcharging the piped drainage system used to flow through a series of residential properties along the natural flow path. With support from the Trust,

Baulkham Hills Shire Council created an unobstructed overland flow path at one such location – Meryll Avenue and Landscape Street in Baulkham Hills. This involved the staged acquisition, modification/conditioning and resale of five properties in order to maximise their resale values, whilst ensuring that floodwaters can pass through the area safely. The consultants have since been re-commissioned by Baulkham Hills Shire Council to develop solutions to five similar neighbourhood-scale flooding problems in Bray Court/Yalding Avenue (North Rocks); upstream of Gooden Reserve (West Baulkham Hills); Lindsay Street (Baulkham Hills); Gollan Avenue (North Parramatta); and Excelsior Avenue to Reiby Drive (Castle Hill).

The most-frequently flooded road crossing in the catchment is the four-cell box culvert on Station Road, Seven Hills, at Blacktown Creek. In major storm events floodwaters flow across Station Road, restricting access to the Seven Hills industrial estate and contributing to the flooding of downstream industrial properties. The raised flood levels also inundate industrial properties upstream of Station Road. In conjunction with Blacktown City Council, a consulting engineer has been appointed to prepare the detailed design and construction specification for a new bridge with the same hydraulic capacity as the creek channel upstream and downstream.

Catchment Flood Modelling

In order to understand the flooding characteristics of the catchment, the Trust has developed and maintains detailed computer models.

Hydrologic models calculate the flood flows resulting from historical or statistical rainfalls, whilst the hydraulic models compute the flood

levels for particular flood flows. These take account of all land use changes, developments, creek channel modifications and flood mitigation works. The results of these models are used by all local councils for assessing the flood liability of properties and the likely flooding impacts of proposed developments. As well, the Trust and the councils use the models to design flood mitigation works.

The Trust's own technical staff undertake all of the model development, testing and use because of the need to have a consistent and reliable basis for all Trust flood-related activities.

Over the past few years a detailed hydrologic model (using RAFTS-XP) and hydraulic model (using MIKE-11) of the catchment has been developed. These models are regularly updated to incorporate significant changes to the catchment. Using the hydraulic model, revised design flood levels have been calculated. A set of flood levels at over 1300 locations for a broad range of storm frequencies and durations were issued to councils in April 1997. A further report with revised flood levels for the lower reaches of Coopers Creek at Wentworthville was issued in August 1997.

A set of air photographs covering the entire catchment was taken for the Trust in November 1997. From this, a set of ortho-corrected photomaps is being prepared to allow the flood flows and flood levels to be updated to account for recent developments in the catchment.

To support a planned catchment floodplain management policy, the Trust has worked with consultants to write a computer program that automatically (with some manual corrections) maps flood hazard



and inundation extents from the output of the MIKE-11 hydraulic model.

The Trust has also commenced to develop a geographical information system (GIS) capability. Already, GIS layers containing property boundary, contour, soils and vegetation information, and an orthophotomap base map, have been obtained.

CONTAIN FUTURE FLOOD POTENTIAL

The need to institute effective catchment-wide development controls was a major reason for establishing the Trust. The flooding and stormwater surcharge problems experienced in the catchment are primarily due to the past failure of decision-makers to consider the cumulative impacts of urban developments on stormwater discharges. Whilst past development controls sought to minimise the impacts of flooding on new developments, the Trust and local councils are now implementing policies aimed at controlling the causes of urban flooding.

On-site Stormwater Detention

In 1991 the Trust and all four local councils adopted a common on-site stormwater detention policy to control the growth of flooding. Extensive computer simulations by the Trust had shown that the discharge from all future developments must be limited to 80 litres per second per hectare to ensure that downstream flood discharges and levels do not increase. The Trust supports the OSD policy by maintaining a technical manual, operating an OSD database, fully funding inspections of OSD systems, conducting training, providing technical advice on specific

projects, auditing and providing policy advice. At present there are over 500 OSD systems in the catchment, with a total storage volume of more than 25,000 m³.

In the past year consultants engaged by the Trust completed a comprehensive audit of constructed OSD systems. This involved, for each of the 60 selected OSD systems, reviewing the design plans, assessing its approval, inspecting the constructed OSD system and checking on its maintenance. The audit report identified deficiencies, commented on the effectiveness of the OSD system and highlighted some aspects of the OSD policy that are creating difficulties. Overall, the OSD audit found that a significant proportion of OSD systems have serious defects and are unlikely to mitigate flooding in major storms. As a result, the Trust's Chairman and Executive Officer met with senior councillors and officers of the all four catchment councils. These meetings identified the main defects and possible remedial actions. The Trust has resolved to implement those measures and has allocated the necessary funds in its 1998/99 budget.

Asset Maintenance

The importance of proper maintenance of critical public facilities, such as flood mitigation and drainage structures, is clearly recognised. It is also vital that any shortcomings in structures, which might jeopardise public safety, are promptly rectified. The Trust seeks to encourage and assist councils to maintain flood mitigation and drainage facilities in a sound and effective condition. To this end, the Trust and the four local councils operate a Safety and Maintenance Working Party, which meets twice yearly. During the past year the Working Party met only once due to the resignation of a key Trust officer.

IMPROVE WATER QUALITY

In recent years the Trust has increased its efforts to re-awaken the community to the value of creeks and creek banks. Less rubbish, sediment and obstructive vegetation in our watercourses helps to reduce flooding and lower flood levels. As well, properly maintained creek banks provide areas for passive recreation, an improved outlook, better habitat for native birds and animals, and enhanced property values.

Water Quality Testing

The Trust continued its monthly monitoring of water quality at nine sites on Toongabbie Creek, Darling Mills Creek, Lake Parramatta, Parramatta River and locations in the upper tidal section of the Parramatta River. A report summarising the data collected between 1990 and 1997 inclusive was published.

During the past year the Trust operated storm event water quality sampling stations on Toongabbie Creek at Johnson's Bridge and on the Parramatta River at Cumberland Hospital. This was done to measure the total load of various pollutants transported in storms in order to calibrate a SWMM water quality model of the catchment. The resulting SWMM model was subsequently used to determine average annual pollutant loads from different parts of the catchment and may later be used to locate and design water quality control measures.

With administrative and financial assistance from the Trust, this monitoring is now being complemented by regular water quality testing at 31 sites by 18 secondary schools in the catchment under the Streamwatch program. As a result, students are now monitoring virtually all tributary streams



Students from Tara Anglican Girls School water quality testing at Lake Parramatta as part of the Trust's Streamwatch program.



of the upper Parramatta River. During the year Cerdon College and James Ruse Agricultural High School joined the schools already in the Streamwatch program.

In addition, the Trust completed a comprehensive survey of macroinvertebrates – small aquatic animals living in the stream - at 23 Streamwatch testing sites and 3 upstream (largely undisturbed) control sites throughout the catchment in the four seasons of the year. Because the data collected provides a direct indication of the health of the streams, it will provide a baseline against which future changes can be assessed.

Stormwater Management Strategy

In April 1998 the Environment Protection Authority issued a direction under Section 12 of the Protection of the Environment Act 1991 requiring all Sydney coun-

cils to prepare and submit catchment-based Stormwater Management Plans. One such plan is to be for the Upper Parramatta River Catchment. The Trust has agreed to play a co-ordinating role in the preparation of this plan. A study of water quality issues, causes, effects and options in this catchment was undertaken in 1997 for the Trust by Macquarie Research. The information generated will provide a useful input to the Stormwater Management Plan.

Lake Parramatta was the only catchment location that was identified, in the Trust's community endorsed 'Streamly Clean' project where people wanted to be able to swim.

During the past year the Lake Parramatta Water Quality Management Study was completed and a draft Management Plan was prepared. The draft Plan proposes a number of measures to address all the major sources of poor water

quality in the Lake, including sewage contamination, nutrient-rich sediments beneath the Lake and polluted inflows. The draft Plan has been handed over to Parramatta City Council for public exhibition. The adopted Plan is expected to form part of the catchment Stormwater Management Plan.

Early in 1998 Blacktown City Council started building a wetland in a dry detention basin on Blacktown Creek at Lancelot Street, Prospect. The Trust has agreed to contribute half the estimated \$688,000 cost of the wetland. In addition, Council has obtained a \$485,000 Stormwater Trust grant to install three gross pollutant traps on drainage lines leading into the wetland.



VEGETATION MANAGEMENT

Clearing of Noxious Weeds

During the year periodic detention workers from the Department of Corrective Services continued to remove noxious plants from creek banks in the catchment. The Trust met the cost of providing two part-time bushland regenerators to ensure proper technical supervision of the work, as well as meeting some other incidental costs.

Baulkham Hills Council contributed by providing technical assistance with program planning and removal of the cleared material. This program operates under a contract between the Department and the Trust which guarantees a team of workers for two days per week over 50 weeks a year. The Trust pays the salary of two part time Corrective Services officers to supervise the workers.

There are now two teams from the Metropolitan Periodic Detention Centre (PDC) at Parramatta Gaol working in the catchment: one in Crestwood Reserve, Baulkham Hills on Toongabbie Creek; and another removing *Ludwigia peruviana* from bushland reserves in West Pennant Hills. As well, a team of Community Service Order workers are removing weeds from along Toongabbie Creek at Northmead.

The Trust has helped initiate a TAFE course in bush regeneration for PDC workers using a Natural Heritage Trust grant.

The Trust's Minister, the Honorable Richard Amery MP, met with PDC workers when he inspected the work in Crestwood Reserve during his visit to the catchment in May 1998.

Green Corridors Vegetation Management Study

During the past year the Trust has had a team of consultants develop a Green Corridors Vegetation Management Strategy. The work has been supervised by a Steering Committee comprising representatives of all four councils, community groups and the Trust. The Strategy will identify a green corridor network along the streams of the catchment, to be protected and managed for biodiversity conservation and community enjoyment. It is intended to provide a catchment-level planning framework to support the vegetation management activities of the local councils and community groups.

The consultants submitted a draft Strategy in February 1998, which was circulated to Steering Committee members for comment. At that time the scope of the study was broadened at the request of the council officers by having the vegetation information mapped in a computer-based geographic information system. The final Strategy report is to include information about the ecological communities and significant remnant vegetation, model planning instruments and design guidelines, an overview of each creek identifying opportunities for improving its vegetation and habitat values; and a set of maps showing remnant vegetation, habitat types and vegetation management zones.

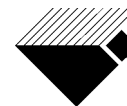
INVOLVE THE COMMUNITY

Consistent with the Total Catchment Management approach, the Trust places particular importance on community involvement in its activities. The three aspects of community involvement are education, accountability and participation.

Education involves showing catchment residents how human activities affect water quality and quantity. Students from 18 secondary schools in the catchment now regularly test water from nearby creeks under the Streamwatch program in partnership with Sydney Water. This helps build the Trust's database whilst promoting understanding of catchment management issues. During the year the Trust conducted six guided tours of catchment creeks for school and community groups. To assist the many students doing projects on topics relating to this catchment, the Trust now has a web page providing information on catchment characteristics and Trust activities.

The Trust is **accountable** to the catchment community that supports the Trust directly through the river management service charge, and indirectly through rates and taxes paid to councils and governments. Information on the Trust's activities was provided to all residents in the Streamline newsletter, published twice during 1997/98. As well, a number of talks on the Trust's work were given to clubs, schools, community and professional groups. The Trust also presents a regular monthly 'Creek Watch' segment on local community radio station 2CCR.

The Trust considers it very important that those directly affected by flooding and stormwater surcharge should be given the opportunity to **participate** in the search for the best solution. Most investigations and design activities of the Trust are guided by a Steering Committee comprising resident representatives from the affected area and local council and Trust officers.



During the year, formal Steering Committees with community representation played key roles in the Water Quality Issues and Options Study, the Green Corridors Vegetation Management Study, the Lake Parramatta Water Quality Management Study and the North Wentworthville Floodplain Management Study.

Informal consultation with residents was undertaken as part of the Pendle Hill Creek Floodway project and flood mitigation investigations for the Upper Toongabbie Creek Flood Mitigation Strategy and the Gooden Reserve basin at West Baulkham Hills.

PROVIDE CORPORATE SERVICES

The Trust's river management service charges are billed and collected by Sydney Water under an agreement with the Trust.

When the Trust was set up it was agreed that the new organisation should only have a small number of staff, but make extensive use of consultants and contractors. The general approach taken is for

Trust staff to carry out core activities such as catchment modelling, strategic planning and co-ordination. Consultants and contractors provide specialist assistance with studies, surveys, drafting, detailed designs, construction supervision, instrumentation and water quality monitoring.

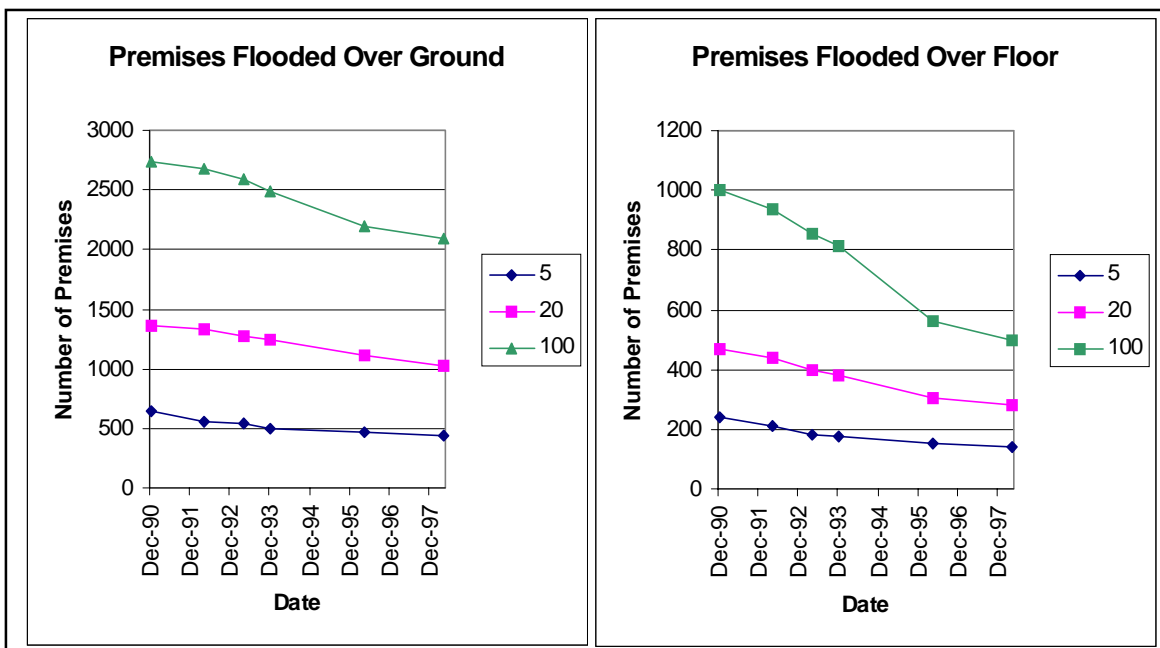
Given the broad range of Trust activities, Trust staff undertake a variety of duties. Staff attended various courses and symposia during the year to improve their technical and professional skills and knowledge. All staff members have access to their own personal computer and are encouraged to develop their ability to use a variety of software packages.

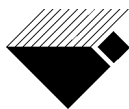
Newsletters, brochures and this annual report are all prepared 'in-house' by staff using a desktop publishing package.

A key target each year is to obtain additional external funding for Trust activities. The Trust seeks to supplement its service charge income by obtaining financial contributions to the cost of its various catchment management activities from other

parties. This year, for the first time since the Trust was established in 1989, the Trust and the four local councils in the catchment received no government grants of any kind for flood-related activities. Although the Trust obtained a one-off Commonwealth Government grant for the Loyalty Road basin project in 1996/97, the Commonwealth no longer provides flood grants for projects in the metropolitan area or towns with more than 40,000 people. Total State Government flood grants have declined over the past two years and are fully committed to ongoing projects (none in this catchment) for the foreseeable future unless there is a change in policy.

The Trust encouraged local councils and community groups to apply for government grants in the past year. 18 applications were submitted for grants in 1997/98 under the Natural Heritage Trust and associated State programs. 6 applications received State grants totalling \$55,320; whilst 2 applications received Natural Heritage Trust grants totalling \$106,100. The Trust received a \$10,000 grant from the NSW





Environmental Trust for a study of how quickly toxic spills spread along catchment streams.

In the first round of NSW Government grants provided by the new Stormwater Trust, the following applications for grants for projects in this catchment were successful:

- \$700,000 to Holroyd City Council for 'Domain Creek Innovative Technologies Project' – Sydney Smith Park Basin and litter and pollution traps;
- \$68,163 to Baulkham Hills Shire Council for 'Excelsior Reserve Weed Management Project' – collect, filter and reuse stormwater runoff from sports field adjacent to urban bushland areas at Baulkham Hills;
- \$485,000 to Blacktown City Council for 'Lancelot Street Wetlands Protection' – install three gross pollutant traps to enhance the pollution removal achieved by an existing constructed wetland at Blacktown;
- \$100,000 to Parramatta City Council for 'Lake Parramatta

Water Quality Management Strategy – construct stormwater treatment wetlands to reduce pollutant loads to Lake Parramatta.

In 1997/98, total spending in the catchment on flood mitigation and drainage works and measures amounted to \$1.247 M. Of this, \$493,000 was spent by the Trust on works, designs and investigations, and \$54,000 on data collection, surveys and mapping. The approximate spending on flood-related activities by the various parties were as follows

Trust	\$0.547 M
State Government	\$0 M
Roads and Traffic Authority	\$0.300 M
Private (M2 Motorway contractor)	\$0.300 M
Commonwealth Government	\$0 M
Local councils (BHSC only)	\$0.10 M
TOTAL	\$1.247 M

The total amounts spent by the four local councils in this catchment, and other parties, on flood mitigation and trunk drainage in the past few years are shown in the graph below. This also shows the much higher expenditures programmed for 1998/99. Clearly, 1997/98 was atypical, with many projects planned for 1997/98 now likely to go ahead in 1998/99. The \$700,000 State Government agency contribution will be a Stormwater Trust grant for the Sydney Smith Park basin.

Expenditures on Flood Mitigation and Trunk Drainage in Upper Parramatta River Catchment
(in \$million)

YEAR	TRUST	CWLTH GOVT	STATE GOVT	LOCAL GOVT	STATE AGENCY	PRIVATE	TOTAL
1989/90	0.992			N/A			0.992
1990/91	0.738			N/A			0.738
1991/92	1.288			N/A			1.288
1992/93	1.700	1.300	0.100	1.000	0.600	0.800	5.500
1993/94	1.500	0.800	0.800	0.800	0.400	0.000	4.300
1994/95	0.850	1.140	1.140	1.300	0.000	0.000	4.430
1995/96	1.556	1.322	1.322	1.332	0.000	0.000	5.532
1996/97	2.463	1.000	1.250	0.600	0.000	0.000	5.313
1997/98	0.547	0.000	0.000	0.100	0.300	0.300	1.247
1998/99 (projected)	2.180	0.000	0.000	1.920	0.700	0.000	4.800
TOTAL	13.814	5.562	4.612	7.052	2.000	1.100	34.140

EXPENDITURE BY KEY PERFORMANCE AREAS



SOLVE EXISTING FLOODING PROBLEMS

Designs **\$155,509**

Toongabie Confluence Area Works, Station Road Culvert at Blacktown Creek, Pendle Hill Industrial Area, Greystanes Creek Channel, Pendle Creek Floodway Stages 3 and 4 .

Construction **\$359,779**

Gooden Reserve Basin West Baulkham Hills, Sierra Place Basin Raising, Loyalty Road Retarding Basin

Investigations **\$185,777**

Catchment flood modelling, North Wentworthville Floodplain Management Study.

CONTAIN FUTURE FLOOD POTENTIAL

Development Controls **\$55,023**

On-site Stormwater Detention audits, support for council inspections, operation of computer data base, advice on proposed developments

Data collection **\$54,405**

recorder maintenance contract, maximum height recorder network, data collection, planning flood gaugings, flood plan mapping

Asset Maintenance **\$45,963**

Asset management database, Greystanes Creek maintenance.

WATER QUALITY

\$258,309

Streamly Clean water quality management strategy, Streamwatch program, water quality monitoring.

VEGETATION AND CREEK BANK MANAGEMENT **\$ 91,050**

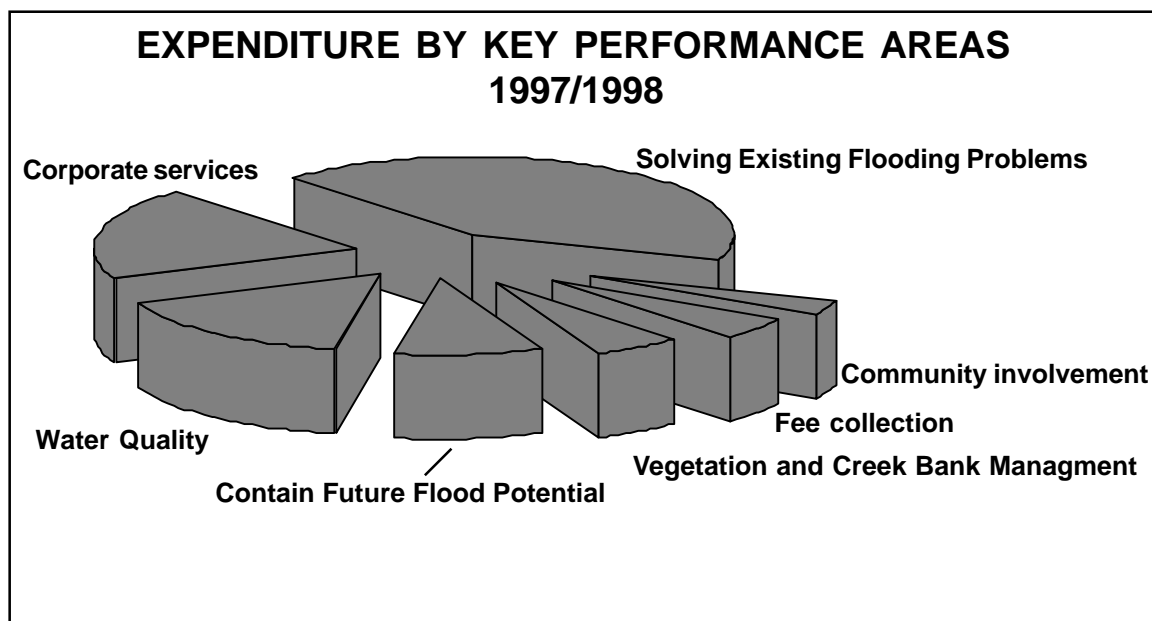
Green corridors vegetation management study, creek bank noxious weed removal by periodic detainees.

COMMUNITY INVOLVEMENT **\$ 44,983**

education, consultation, resident participation in management of studies and works, newsletters,

CORPORATE SERVICES **\$401,095**

administration, operating expenses, staff, rent, Trustees/Secretariat, equipment purchases, data base, revenue collection, on-line access to Sydney Water data base





The Auditor-General
New South Wales
234 Sussex Street
SYDNEY NSW 2000

10th August 1998

Dear Sir,

I enclose herewith the Financial Statements and accompanying supporting notes to the Accounts, of the Upper Parramatta River Catchment Trust for the year ended 30th June 1998.

Yours faithfully,

Greg Otter
Administration Officer

UPPER PARRAMATTA RIVER CATCHMENT TRUST

FINANCIAL STATEMENTS FOR THE YEAR ENDED
30TH JUNE 1998

STATEMENT IN ACCORDANCE WITH
THE PUBLIC FINANCE AND AUDIT ACT, 1983

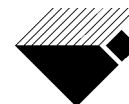
In our opinion, the financial statements read in conjunction with the appended 'Notes to and forming part of the accounts' exhibit a true and fair view of the financial position and transactions for the financial year 1st July 1997 to 30 June, 1998.

The financial statements have been prepared in accordance with the provisions of the Public Finance and Audit Act, 1983 and the Public Finance and Audit (General) Regulation, 1995 and with the Treasurer's Directions as they relate to the preparation of those accounts.

We are not aware at this time of any circumstances which would render any particulars in the financial statements as supported by and read in conjunction with the 'Notes to and forming part of the accounts' to be misleading or inaccurate.

Axel Tennie
Deputy Chairman
10/8/98

George Whitehouse
Chairman
10/8/98



BOX 12 GPO
SYDNEY NSW 2001

INDEPENDENT AUDIT REPORT

UPPER PARRAMATTA RIVER CATCHMENT TRUST

To Members of the New South Wales Parliament and Members of the Trust

Scope

I have audited the accounts of the Upper Parramatta River Catchment Trust for the year ended 30 June 1998. The Members of the Trust are responsible for the financial report consisting of the accompanying balance sheet, income and expenditure statement and statement of cash flows, together with the notes thereto and the information contained therein. My responsibility is to express an opinion on the financial report to Members of the New South Wales Parliament and Members of the Trust based on my audit as required by sections 34 and 41C(1) of the *Public Finance and Audit Act 1983*.

My audit has been conducted in accordance with the provisions of the Act and Australian Auditing Standards to provide reasonable assurance whether the financial report is free of material misstatement. My procedures included examination, on a test basis, of evidence supporting the amounts and other disclosures in the financial report, and the evaluation of accounting policies and significant accounting estimates.

In addition, other legislative requirements which could have an impact on the Trust's financial report have been reviewed on a cyclical basis. For this year, the requirements examined comprise: compliance with Treasurer's Directions in respect of usage of fuel cards, credit cards and cash advances.

These procedures have been undertaken to form an opinion whether, in all material respects, the financial report is presented fairly in accordance with the requirements of the *Public Finance and Audit Act 1983*, Accounting Standards and other mandatory professional reporting requirements so as to present a view which is consistent with my understanding of the Trust's financial position, the results of its operations and its cash flows.

The audit opinion expressed in this report has been formed on the above basis.

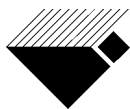
Audit Opinion

In my opinion, the financial report of the Upper Parramatta River Catchment Trust complies with section 41B of the Act and presents fairly in accordance with applicable Accounting Standards and other mandatory professional reporting requirements the financial position of the Trust as at 30 June 1998 and the results of its operations and its cash flows for the year then ended.

R. HEGARTY, FCPA
DIRECTOR OF AUDIT

(duly authorised by the Auditor-General of New South Wales
under section 41C(1A) of the Act)

SYDNEY
20 October 1998



**INCOME & EXPENDITURE STATEMENT
FOR THE YEAR ENDED 30TH JUNE 1998**

FOR YEAR ENDED 30 JUNE 1997		FOR YEAR ENDED 30 JUNE 1998
\$		Notes \$
	INCOME	
1,935,328	River Management Service Charge	3 1,994,621
2,296,274	Contributions To Trust By Outside Entities	
70,578	Towards Works Of Trust	4 112,163
23,224	Interest on Investments	5 132,890
8,453	Bank Interest	5,112
2,437	Profit on Sale of Motor Vehicles	6 -
-	Sales of Publications	1,835
	Miscellaneous	975
4,336,294	TOTAL INCOME	2,247,596
	EXPENDITURE	
286,863	Solve Existing Flooding Problems	7 493,657
161,099	Contain Future Flood Potential	8 155,391
185,617	Water Quality	9 258,309
36,656	Vegetation & Creek Bank Management	10 91,050
53,262	Community Involvement	11 44,983
463,535	Corporate Services	12 401,095
51,924	Depreciation Expense	15 66,174
1,238,956	TOTAL EXPENDITURE	1,510,659
3,097,338	Operating Surplus	736,937
7,671,596	Accumulated Funds At 1 July	10,768,934
10,768,934	Accumulated Funds At 30 June	11,505,871

NOTE: THE ABOVE 'INCOME & EXPENDITURE STATEMENT' IS TO BE READ IN CONJUNCTION WITH THE ATTACHED 'BALANCE SHEET', 'STATEMENT OF CASH FLOWS' AND 'NOTES TO AND FORMING PART OF THE ACCOUNTS'.

**BALANCE SHEET
AS AT 30 JUNE 1998**



AS AT 30 JUNE 1997		AS AT 30 JUNE 1998	
\$		Notes	\$
	CURRENT ASSETS		
227,185	Cash	22	245,203
1,779,590	Investments	22	2,415,565
133,711	Receivables	14	71,153
12,289	Prepayments		11,774
2,152,775	TOTAL CURRENT ASSETS		2,743,695
	NON-CURRENT ASSETS		
8,666,174	Property, Plant and Equipment	15	8,835,081
8,666,174	TOTAL NON-CURRENT ASSETS		8,835,081
10,818,949	TOTAL ASSETS		11,578,776
	CURRENT LIABILITIES		
27,329	Creditors and Accruals	16	65,331
22,686	Provision for Annual Leave	17	7,574
50,015	TOTAL CURRENT LIABILITIES		72,905
50,015	TOTAL LIABILITIES		72,905
10,768,934	NET ASSETS		11,505,871
	EQUITY		
10,768,934	Accumulated Funds		11,505,871
10,768,934	TOTAL EQUITY		11,505,871

NOTE: THE ABOVE 'BALANCE SHEET' IS TO BE READ IN CONJUNCTION WITH THE ATTACHED 'INCOME AND EXPENDITURE STATEMENT', 'STATEMENT OF CASH FLOW' AND 'NOTES TO FORMING PART OF THE ACCOUNTS'.



**STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED 30TH JUNE 1998**

YEAR ENDED 30 JUNE 1997		NOTES	YEAR ENDED 30 JUNE 1998
\$			\$
	CASH FLOWS FROM OPERATING ACTIVITIES		
	Payments To Suppliers And Employees		
(655,626)	{ Solve Existing Flooding Problems		(464,811)
	{ Contain Future Flood Potential		(151,000)
	{ Water Quality		(250,525)
(52,690)	{ Vegetation & Creek Bank Management		(90,860)
(409,855)	Community Involvement		(42,941)
	Corporate Services		(417,598)
(1,118,171)	Total Payment to Suppliers and Employees		(1,417,735)
	Receipts From Customers		
1,842,611	River Management Service Charge		2,061,328
27,751	Contribution to Trust by Outside Entities		
93,591	Towards Work of Trust		16,428
2,197	Interest Received		141,021
Nil	Sales of Publications		1,915
	Miscellaneous Receipts		974
1,966,150	Total Receipts from Customers		2,221,666
	CASH FLOWS FROM GOVERNMENT		
2,262,500	Receipts by Grants from Government to Works of Trust		91,700
(1,250,000)	Repayment to NSW Treasury of advance received for Darling Mills Creek	13	Nil
1,860,479	Net Cash Inflow Provided From Operating Activities	22(b)	895,631
	CASH FLOWS FROM INVESTING ACTIVITIES		
(2,130,433)	Payment for Major Works - Darling Mills Creek		(213,965)
(34,005)	Payments for Motor Vehicles and Office Equipment		(27,673)
(73,570)	Payments for Financing Costs on Advance from NSW Treasury	13	Nil
16,360	Proceeds from Sale of Motor Vehicles		Nil
(2,221,648)	Net Cash Used in Investing Activities		(241,638)
(361,169)	Net Increase(Decrease) In Cash Held		653,993
2,367,944	Cash at Beginning of the Reporting Period	22(a)	2,006,775
2,006,775	Cash at End of the Reporting Period	22(a)	2,660,768

NOTE: THE ABOVE 'STATEMENT OF CASH FLOWS' IS TO BE READ IN CONJUNCTION WITH THE ATTACHED 'INCOME AND EXPENDITURE STATEMENT', 'BALANCE SHEET' AND 'NOTES TO AND FORMING PART OF THE ACCOUNTS'.

**NOTES TO AND FORMING PART OF THE ACCOUNTS
FOR THE YEAR ENDED 30TH JUNE 1998**



1. STATEMENT OF PURPOSE OF CONSTITUTION

The Upper Parramatta River Catchment Trust was constituted under the Water Supply Authorities Act, 1987 on 5th April 1989. The purpose and objective of the Trust is, subject to the control and direction of the Minister, to assume responsibility for mitigating the impacts of flooding, control trunk drainage surcharge, water quality and related matters for the Parramatta River catchment upstream of the tidal limit.

The catchment includes parts of the Cities of Blacktown, Parramatta and Holroyd and the lands administered by the Baulkham Hills Council.

2. STATEMENT OF SIGNIFICANT ACCOUNTING POLICIES AND METHODS

(A) Basis of Financial Statements

- (1) The Trust's financial statements are a general purpose Financial Report. The statements have been prepared in accordance with Australian Accounting Standards, other mandatory professional reporting requirements, the provisions of the Public Finance and Audit Act 1983, the Public Finance and Audit (General) Regulation 1995 and the Treasurer's Directions.
- (2) The statements have also been prepared under the historical cost convention using accrual accounting and do not take into account changing money values or, the current value of non-monetary assets.
- (3) All non current assets are brought to account at 'cost' being the amount given up at the date of acquisition including costs incidental to that acquisition. The assets 'Motor Vehicles', 'Office Equipment' and 'Darling Mills Creek' are depreciated under straight line basis over their useful lives to the Trust.

Life Expectancy of These Non-Current Assets

	YEARS
Motor Vehicles	5
Office Computer Equipment	3
Darling Mills Creek Capital Works	200

- (4) Individual items of property plant and equipment with an acquisition cost greater than \$5,000 are capitalised in the accounts in accordance with Treasury Circular G1991/36. Items with an acquisition cost of less than \$500 are generally expensed. Individual assets which cost between \$500 and \$5,000 and form part of a network which together exceed \$5,000 are capitalised.



**NOTES TO AND FORMING PART OF THE ACCOUNTS
FOR THE YEAR ENDED 30TH JUNE 1998(Cont'd)**

- (5) The format of the accounts has been adopted to show the total cost of co-ordinating and/or undertaking various catchment management activities over the life of the Trust to mitigate flooding and generally improve the condition of the catchment. The format is consistent with Key Performance Areas.
- (6) With the exception of major works known as being at Darling Mills Creek, all works have been handed over to local authorities and minor plant and equipment will ultimately be disposed of with the proceeds used for Trust objectives. Accordingly, what may normally have been regarded as capital expenditure is written off as incurred except as referred to in Note 2 (A)(3).

The Darling Mills Creek works comprise a major flood retarding basin and ancillary environmental measures to remedy existing degradation of the Excelsior Reserve bushland and to mitigate any adverse impacts resulting from the retarding basin, and design to protect the Parramatta Central Business District, North Rocks, Northmead and most flood liable areas at North Parramatta and much of Rosehill. The works differ from other works constructed by the Trust in that previous works benefit particular councils interest where this work benefits multiple councils and in particular the CBD of Parramatta.

- (7) The 'Statement of Cash Flows' has been prepared using the direct method in accordance with AAS28.
- (8) Effective from the commencement of 1st July 1997 the Trust has reclassified its expenditure categories to reflect a more precise description of the objective of the expense.
- (9) Subject to the foregoing the accounting policies are consistent with those adopted in the previous year.
- (10) Revenue Recognition

A River Management Service Charge is levied by Sydney Water Corporation Limited on behalf of the Trust on ratepayers within the Upper Parramatta River Catchment Area. These charges are recognised as income in the year they are levied.

**NOTES TO AND FORMING PART OF THE ACCOUNTS
FOR THE YEAR ENDED 30TH JUNE 1998(Cont'd)**



(B) Tax Status

The Trust is exempt from the payment of Income Tax.

(C) Superannuation, Long Service Leave, Annual Leave and Sick Leave Entitlements

The Trust currently has some officers working for it under secondment from the Department of Land and Water Conservation.

As the Department remains liable to its officers for long service leave and superannuation, the Trust is paying to the Department salaries and on-cost thereon to discharge the liability that arises during the period of secondment and consequently no "provision" is made in the Trust's accounts for either superannuation or long service leave, for those personnel.

Sick Leave

A liability for sick leave is not recognised in the accounts, as sick leave is not payable on termination and the average sick leave taken is less than entitlements accruing.

Provision for Annual Leave

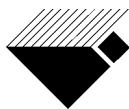
This item represents the accumulated liability for the Trust's own employee regarding his annual leave entitlements. The total annual leave expense has been apportioned between the key performance areas in the 'Income and Expenditure Statement'.

3. RIVER MANAGEMENT SERVICE CHARGE

Sydney Water Corporation Limited issues the bills to and collects the "River Management Service Charge" from those ratepayers (who are liable within the Upper Parramatta River Catchment area) on behalf of the Trust, in accordance with an agreement dated 22nd November 1989.

Sydney Water Corporation Limited has advised that income earned from the levying of the "River Management Service Charge" for the year ended 30th June 1998 was \$1,994,621 net after adjustments for prior year earnings (\$1,935,328 for year ended 30th June 1997).

The Trust paid the Sydney Water Corporation Limited \$77,900 in the 1997/98 financial year (\$77,500 in 1996/97) for Commission fees for the service provided. See also Note 2(A)(10).



**NOTES TO AND FORMING PART OF THE ACCOUNTS
FOR THE YEAR ENDED 30TH JUNE 1998(Cont'd)**

4. CONTRIBUTION BY EXTERNAL BODIES

During the year ended 30th June 1998, the Trust benefited by grants and contributions to the Trust towards the following works:

Grants				
From	Towards		30/6/97	30/6/98
			\$	\$
Commonwealth Government	- Darling Mills Creek		1,000,000	-
NSW State Government	- Darling Mills Creek		1,250,000	-
Department of Land and Water Conservation	- Streamwatch		12,500	12,500
	- Creek Bank Improvements		-	30,000
	- Streamly Clean Action Plan		-	39,200
Environment Protection Authority	- Streamly Clean Action Plan		-	10,000
Contributions				
Department of Housing	- On-site Detention Surveys		5,460	-
Baulkham Hills Shire Council	- Gooden Reserve Basin		6,023	-
	- Basin Mapping/Surveys		-	6,085
Holroyd City Council	- Basin Mapping/Surveys		-	4,945
Parramatta City Council	-On-site Detention Inspections		180	-
	- Basin Mapping/Surveys		-	3,530
	- Creek Bank Improvements		-	500
Department of Corrective Services	- Creek Bank Improvements		4,410	2,883
Department of Land and Water Conservation	- Creek Bank Improvements		3,100	-
Lever Rexona	- Streamwatch		2,760	-
Others	- Streamwatch		<u>11,841</u>	<u>2,520</u>
			<u>2,296,274</u>	<u>112,163</u>

5. INTEREST ON INVESTMENTS

The Trust invests surplus funds on the short term money market. Interest earned on investments for the year ended 30th June 1998 was \$132,890. The figure for the previous year was \$70,578.

As the nature of the Trust's investments is Fixed Deposits at the Bank, the value is not impacted by movement of the market and related risk. Specifically, the investments are non speculative and carry virtually no risk.

6. PROFIT ON SALE OF MOTOR VEHICLE

Profit on Disposal of the motor vehicle is derived as follows:

	30/6/97	30/6/98
	\$	\$
Cost of Asset Disposed:	20,365	No Motor
Less: Accumulated Depreciation to-date of sale	<u>12,458</u>	vehicles were
Written down value at date of sale	7,907	disposed of
Proceeds from sale shown in 'Statement of Cash Flow'	<u>16,360</u>	in year ended
Profit on sale shown in 'Income And Expenditure Statement'	<u>8,453</u>	30 th June 1998.

**NOTES TO AND FORMING PART OF THE ACCOUNTS
FOR THE YEAR ENDED 30TH JUNE 1998(Cont'd)**



1.7.1996
to
30.6.1997
\$

1.7.1997
to
30.6.1998
\$

KEY PERFORMANCE AREAS

286,863	7. SOLVE EXISTING FLOODING PROBLEMS	493,657
8,912	Designs Toongabbie Confluence Area Works Station Road Culvert at Blacktown Creek Pendle Hill Creek Industrial Area Channel Greystanes Creek	155,509
183,974	Construction Gooden Reserve Basin West Baulkham Hills Pendle Hill Creek Floodway Stages 3 and 4 Sierra Place Basin Raising House Raising -Interest Payments - flood liable homes, Wentworthville	152,371
93,977	Investigation Catchment Flood Modelling North Wentworthville Flood Mitigation Plan	185,777
161,099	8. CONTAIN FUTURE FLOOD POTENTIAL	155,391
75,888	Development Controls	55,023
45,403	Data Collection	54,405
39,808	Asset Maintenance	45,963
185,617	9. WATER QUALITY	258,309
16,848	Water Quality Monitoring	17,048
94,127	Streamwatch	62,017
56,042	Streamly Clean Action Plan	122,816
18,600	Review/Supervision by Trust	56,428
36,656	10. VEGETATION AND CREEK BANK MANAGEMENT	91,050
---	Green Corridors Strategy	36,328
36,656	Creek Bank Improvements	47,359
---	Review/Supervision by Trust	7,363
53,262	11. COMMUNITY INVOLVEMENT	44,983
(Encourage participation by affected residents/property owners in the)
(supervision of studies into flooding of their area)
47,235 (Publish and Distribute Trust newsletters) 44,983
(Prepare talks and displays at various local venues)
6,027	Creek Signs	---



**NOTES TO AND FORMING PART OF THE ACCOUNTS
FOR THE YEAR ENDED 30TH JUNE 1998(Cont'd)**

1.7.1996
to
30.6.1997
\$

1.7.1997
to
30.6.1998
\$

KEY PERFORMANCE AREAS

463,535	12. CORPORATE SERVICES	401,095
2,253	Maintenance of computer accessed data base of all catchment properties paid to Sydney Water Corporation Limited	10,644
217,807	Office staff operating costs. Further improve the range of staff skills.	232,964
10,958	Equipment purchases	3,839
52,010	Trustee and meeting expenses	57,677
8,240	Minister, Government and Annual Report	11,676
77,500	Commission paid to Sydney Water Corporation Limited for Revenue collection	77,900
21,197	Catchment Management Strategy	6,395
73,570	Interest Payment on Treasury Advance	---

13. TREASURY ADVANCE

In the year ended 30th June 1997, the repayable advance of \$1,250,000 obtained from New South Wales Treasury in 1995/96 was redeemed in full together with interest of \$73,570.

14. RECEIVABLES

As explained in Note 3, the Sydney Water Corporation Limited issues the Bills for and collects the 'River Management Service Charge'. Sydney Water Corporation Limited has advised the accounts receivable at 30th June 1998 and that no debt was written off as 'bad' in the year. As the 'River Management Service Charge' is a charge on the land no need arises for a 'Provision for Doubtful Debts'. The 'Receivables' comprise:

	30/6/97	30/6/98
	\$	\$
- Amounts due from Sydney Water Corporation Limited for River Management Service Charges	121,465	54,759
- Amounts due from external customers for advice & service	<u>6,263</u>	<u>13,430</u>
	127,728	68,189
 Interest Receivable Accrued on Investments and Bank Deposits	 <u>5,983</u>	 <u>2,964</u>
	<u>133,711</u>	<u>71,153</u>

All trade and other debtors are recognised as amounts receivable at balance date. Collectability of all debtors is reviewed on an ongoing basis. The carrying amount of receivables approximates net fair value.

**NOTES TO AND FORMING PART OF THE ACCOUNTS
FOR THE YEAR ENDED 30TH JUNE 1998 (Cont'd)**



15. PROPERTY PLANT AND EQUIPMENT

The schedule hereunder shows the historical cost of Property, Plant and Equipment and Accumulated Depreciation thereon 30th June 1998 together with movements since 30th June 1997.

	Motor Vehicles \$	Office Equipment \$	Darling Mills Creek \$	Total \$
At cost @ 1.7.97	42,684	43,233	8,641,463	8,727,380
Assets brought to Account				
Acquisitions&Improvements	NIL	27,673	207,408	235,081
Disposals	NIL	NIL	NIL	NIL
Balance at 30.6.98	42,684	70,906	8,848,871	8,962,461
Accumulated Depreciation				
.Balance @ 1.7.97	7,730	24,829	28,647	61,206
.Depreciation expense for year	8,537	13,839	43,798	66,174
Balance at 30.6.98	16,267	38,668	72,445	127,380
Written Down Value				
1.7.97	34,954	18,404	8,612,816	8,666,174
30.6.98	26,417	32,238	8,776,426	8,835,081

The Trust considers that the Written Down Value reasonably approximates market value of Property, Plant and Equipment.

16. CREDITORS AND ACCRUALS

	30/6/97 \$	30/6/98 \$
This item comprises		
Trade creditors	9,229	18,680
Creditors for Capital Construction Works		
Darling Mills Creek	<u>6,557</u>	<u>NIL</u>
	15,786	18,680
Accrued Expenditure	<u>11,543</u>	<u>43,439</u>
	27,329	62,119
Unearnt Income	<u>NIL</u>	<u>3,212</u>
	<u>27,329</u>	<u>65,331</u>

The liabilities are recognised for amounts due to be paid in the future for goods or services received whether or not invoiced. Amounts owing to suppliers are generally settled within 30 days and are carried at net fair value.

17. PROVISION FOR ANNUAL LEAVE

This item represents the accumulated liability of the Trust to its one employee for annual leave entitlements as at 30th June 1998. Total Annual Leave expense of \$11,388 has been apportioned between the Key Performance Areas in the 'Income and Expenditure Statement'. Comparable figure for 1996/97 was \$12,740. The provision balance of \$7,574 is significantly less than the balance at 30th June 1997 of \$22,686 due to the resignation of two Trust employees and the consequent payment to them of their entitlement.

18. CONTINGENT LIABILITIES

There was no contingent liabilities of any significance as at 30th June 1998



**NOTES TO AND FORMING PART OF THE ACCOUNTS
FOR THE YEAR ENDED 30TH JUNE 1998 (CONT'D)**

19. COMMITMENTS

The Trust in conjunction with the Council of the Cities of Blacktown, Holroyd and Parramatta and the Council of Baulkham Hills Shire undertake works to achieve the Trust's objectives as stated in Note 1. The Trust has made offers to the Councils to fund works on the basis of contributions by Councils and the Trust. Some offers have been accepted by Council resulting in commitments to pay upon completion of defined events. The schedule hereunder enumerates the commitments carried from 30th June 1998 to the future year.

	\$
Parramatta City Council	
-Reconstruct Greystanes Creek at Toongabbie Bowling Club	134,300
-Pendle Hill Creek Floodway (Stages 3 & 4)	538,891
Baulkham Hills Shire Council	
-Gooden Reserve Catchment Floodway	80,000
-Lindsay Street Overland Flowpath	30,000
-Gollan Avenue Voluntary Acquisition	109,500
Blacktown City Council	
-Bedivere/Merlin Streets Pipe Amplification	295,000
-Lancelot Street Basin Wetland	344,000
Holroyd City Council	
-Water Quality Civic Park Wetland	12,000
-Octavia Street Pipe Amplification	75,000
-Sydney Smith Park Basin	200,000
-Greystanes Creek Maintenance	45,000
Roads & Traffic Authority, NSW	
-Gooden Reserve Basin, West Baulkham Hills	70,000
SMEC Australia Pty Ltd	
-Design – Station Road Culvert, Blacktown Creek	12,250
Dalland & Lucas Pty Ltd	
-Concept Design - Pendle Hill Creek Industrial Area	2,980
Willing & Partners (NSW) Pty Ltd	
-Upper Toongabbie Creek Flood Works, Design – Assessment	15,372
Bewsher Consulting Pty Ltd	
-OSD Audit	7,420
-North Wentworthville Floodplain Management Plan	800
QASCO (NSW) Pty Ltd	
-Aerial Photography	18,184
Oculus Pty Ltd	
-Green Corridors Management Study	6,650
Lyll & Macoun Consultants	
-Lake Parramatta Water Quality Study	4,070
Macquarie Research	
-Streamly Clean Action Plan	<u>6,740</u>
	<u>2,008,157</u>

Commitments at 30th June 1997 totalled \$989,649.

20. AUDITOR'S REMUNERATION

The Audit Office of NSW effected the audit of the accounts of the Trust for the year ended 30th June 98. The estimated fee for the year ended 30th June 98 is \$8,500 to be paid in 1998/99 whilst the actual fee for the year ended 30th June 97 was \$7,600 paid in 1997/98. No other fees were paid to the Audit Office of NSW for auditing or any other services.

**NOTES TO AND FORMING PART OF THE ACCOUNTS
FOR THE YEAR ENDED 30TH JUNE 1998(Cont'd)**



21. CONSULTANCY FEES

Amounts paid to consultants in year ended 30th June 98 was \$397,963 and was \$381,922 in year ended 30th June 97.

22. NOTES TO THE 'STATEMENT OF CASH FLOWS'

(a) Reconciliation of Cash

For the purposes of the "Statement of Cash Flows", cash includes cash on hand and in banks and investments in short term fixed deposits at the Bank. Cash at the end of the reporting period as shown in the 'Statement of Cash Flows' is reconciled to the related items in the Balance Sheet as follows:

	30/6/97	30/6/98
	\$	\$
Investments	1,779,590	2,415,565
Cash at State Bank	77,891	184,701
Cash at Westpac Bank	149,144	60,415
Cash on Hand	<u>150</u>	<u>87</u>
	<u>2,006,775</u>	<u>2,660,768</u>
Net Increase	\$653,993	

(b) Reconciliation of 'Net Cash Inflow Provided from Operating Activities' to Operating Surplus.

	For Year Ended	
	1997	1998
	\$	\$
Operating Surplus	3,097,338	736,937
Add/(Less) Non monetary items		
. Depreciation	51,924	66,174
. Profit on sale of Motor Vehicles	(8,453)	Nil
. Treasury Advances – Finance Charge	73,570	Nil
. Repayment to NSW Treasury of advance received for Darling Mills Creek	(1,250,000)	Nil
Add/(Less) Inflows/(Outflows) in Movements in Current Assets and Current Liabilities		
Outflows of Cash by:		
. Increasing Current Assets		
. Accounts Receivable	(112,845)	Nil
. Prepayment	(2,448)	Nil
Inflows of Cash by		
. Reducing Current Assets		
. Accounts Receivable	Nil	62,558
. Prepayments	Nil	516
. Increasing Current Liabilities		
. Creditors & Accruals	9,520	44,558
Add/(Less) Net Change in Provision for Annual Leave	1,873	(15,112)
Net Cash Inflow Provided From Operating Activities	1,860,479	895,631



**NOTES TO AND FORMING PART OF THE ACCOUNTS
FOR THE YEAR ENDED 30TH JUNE 1998 (Cont'd)**

23. YEAR 2000 COMPLIANCE

The Trust is investigating if and to what extent the date change from 1999 to 2000 may affect its activities. To ensure that all significant operations are year 2000 compliant, the Trust has established a program to overcome the impact of the transition to the year 2000 on the Trust. The Trust does not expect its activities to be significantly impacted by the date change.

24. FINANCIAL INSTRUMENTS

(a) Financial Instruments and derivatives

The Trust is not exposed to significant risks from movements in foreign exchange rates as there are no financial assets and liabilities denominated in foreign currencies. The Trust does not participate in any type of hedging transaction or derivatives.

(b) Interest Rate Risk

Interest rate risk is the risk that the value of the instruments will fluctuate due to changes in market interest rates. The Trust's exposure to interest rate risks and the effective interest rates of financial assets and liabilities at the balance date are as follows:

	Note	Weighted average effective Interest Rate	Floating Interest Rate	Fixed Interest Rate Maturity 1 year of less	Non Interest Bearing	Total Carrying amount as per the Balance Sheet
Financial Assets						
Investments	22	5.07	-	2,415,565	-	2,415,565
Cash at State Bank	22	4.15	184,701	-	-	184,701
Cash at Westpac Bank	22	.25	60,415	-	-	60,415
Cash on Hand	22	-	-	-	87	87
Interest Receivable Accrued	14	5.07	772	2,192	-	2,964
Receivables	14	-	-	-	68,189	68,189
Total Financial Assets			245,888	2,417,757	68,276	2,731,921
Financial Liabilities						
Creditors Accrual	16	-	-	-	65,331	65,331
Total Financial Liabilities					65,331	65,331

(C) Credit Risk

Credit risk is the risk of financial loss arising from another party to a contract/or financial position failing to discharge a financial obligation thereunder. The Trust's maximum exposure to credit risk is represented by the carrying amounts of the financial assets included in the balance sheet.

End of Audited Financial Statements

APPENDIX A
PERFORMANCE BY KEY PERFORMANCE AREAS
1997/98



Corporate Objective 1A:
SOLVE EXISTING FLOODING PROBLEMS

Target 1: Design and gain approvals for enlarging the Sierra Place basin and other initial components of Upper Toongabbie Creek Flood Mitigation Strategy.

Achievement: Completed.

Target 2: Complete construction of Gooden Reserve flood retarding basin

Achievement: Completed, although minor remedial works still to be undertaken.

Target 3: Commence Bray Court/Yalding Avenue overland flow path at North Rocks.

Achievement: Study of five problem areas, including this one, well advanced.

Target 4: Design and gain approval to reconstruct Greystanes Creek at Toongabbie Bowling Club.

Achievement: Study to design and submit development application underway.

Target 5: Construct rest of Stage 3 and Stage 4 of Pendle Hill Creek Floodway.

Achievement: Construction deferred because Parramatta City Council was unable to match Trust contribution. Tenders called by Council for new Barangaroo Road bridge and contractor selected.

Target 6: Calibrate RAFTS hydrologic model to reproduce design flood levels computed using the MIKE-11 hydraulic model.

Achievement: Not commenced due to delays in completing other high priority work.

Target 7: Construct drainage improvements at Bedivere to Merlin Streets, Blacktown.

Achievement: Designs completed and construction about to commence.

Target 8: Complete floodplain management study for the North Wentworthville area.

Achievement: Completed.

Target 9: Develop a uniform catchment Floodplain Management Plan.

Achievement: No substantive action taken.

Reason: Work delayed by other pressing commitments.

Corporate Objective 1B:
CONTAIN FUTURE FLOOD POTENTIAL

Target 1: Maintain database of all constructed OSD systems and OSD inspections.

Achievement: 83 new system details and 138 inspection reports added to database, but none since September 1997.

Reason: For last nine months councils failed to regularly add new system details or undertake inspections.

Target 2: Encourage regular inspections and follow-up for all catchment OSD systems.

Achievement: 138 OSD inspections carried out by council staff, but none in last nine months.

Reason: Pressure of other work, despite Trust offer to fully fund such inspections.

Target 3: Issue update pages for OSD Handbook and an OSD newsletter.

Achievement: Neither issued.

Reason: Responsible Trust officer resigned part-way through year.

Target 4: Discuss with local councils the results of the OSD audit.

Achievement: Discussions held with senior officers from all councils. Discussion paper on options to deal with shortcomings issued by Trust for comment.

Target 5: Encourage regular inspections and follow-up for all major flood mitigation structures and creeks.

Achievement: Some inspections early in year; none later in year.

Reason: Responsible Trust officer resigned part-way through year.

Corporate Objective 2:
WATER QUALITY

Target 1: Complete detailed SWMM water quality model of catchment.

Achievement: Completed.

Target 2: Develop an agreed water quality management plan for Lake Parramatta.

Achievement: Draft management plan agreed to by project Steering Committee.



Target 3: Commence construction of wetland and associated infrastructure in Lancelot Street retarding basin at Blacktown.

Achievement: Construction underway.

Target 4: Complete baseline macroinvertebrate survey of catchment streams.

Achievement: Completed and report written.

Target 5: Maintain and strengthen Streamwatch in catchment schools.

Achievement: Another two schools have joined program in this catchment. Test kits all upgraded to allow more accurate results.

Corporate Objective 3: VEGETATION MANAGEMENT

Target 1: Commence maintenance contract for regenerated bushland in Excelsior Reserve.

Achievement: Tenders called and evaluated. New contract to be awarded early in 1998/99.

Target 2: Adoption of Greystanes Creek Plan of Management by councils.

Achievement: Plan of Management on public exhibition by both Holroyd and Blacktown Councils.

Target 3: Complete a Green Corridors strategy for ecosystem management of vegetated areas along streams.

Achievement: Draft report completed and vegetation mapping almost finished.

Reason: New requirement for GIS mapping of vegetation delayed completion for six months.

Corporate Objective 4: COMMUNITY INVOLVEMENT

Target 1: Encourage community involvement in catchment management studies and implementation of programs.

Achievement: Steering Committees with strong community representation formed to supervise the Green Corridors Management and North Wentworthville Floodplain Management Studies. Trust assisted many catchment groups to seek grants for local environment improvement projects.

Target 2: Assist school children to understand local catchment management issues.

Achievement: A number of guided tours conducted for school groups. Assistance with project work provided to more than 100 students.

Target 3: Publish and distribute four issues of the Trust's newsletter.

Achievement: Issues published and distributed to all catchment properties in Noveme 1997 and May 1998.

Reason: Pressure of other work.

Target 4: Present talks and displays at various local forums.

Achievement: Trust presented six talks to community groups, clubs and schools.

Target 5: Brief local MPs and keep key decision-makers informed about Trust.

Achievement: Inspection tour for Trustees and councillors of all local councils held in June 1998. Trust Chairman and Executive Officer met with Minister Amery in March 1998. Minister visited catchment in May 1998.

Corporate Objective 5: CORPORATE SERVICES

Target 1: Review staff performance through regular appraisals.

Achievement: Performances of staff formally reviewed every six months.

Target 2: Review Trust's enterprise agreement.

Achievement: Agreement not reviewed.

Reason: Pressure of other work.

Target 3: Obtain external funding or assistance for flood mitigation and related environmental projects.

Achievement: \$0.6M contributed to Gooden Reserve flood basin by Roads and Traffic Authority and M2 Motorway constructor.

APPENDIX B KEY PERFORMANCE TARGETS 1998/99



APPENDIX B KEY PERFORMANCE TARGETS 1998/99

Proposed targets for 1998/99 are set out below. The targets are listed under the six key corporate objectives.

Corporate Objective 1A: SOLVE EXISTING FLOODING PROBLEMS

1. Construct Sue Savage Reserve Floodway as first part of the Upper Toongabbie Creek Flood Mitigation Strategy.
2. Obtain development consent and re-construct Greystanes Creek at the Toongabbie Bowling Club.
3. Commence implementation of the Bray Court/ Yalding Avenue overland flow path at North Rocks.
4. Construct the new Barangaroo Road bridge and rest of Stage 3 and Stage 4 of the Pendle Hill Creek Floodway.
5. Construct the Sydney Smith Park detention/ infiltration basin at Westmead
6. Update the RAFTS hydrologic model to account for current developments and recompute design flood levels computed using the MIKE-11 hydraulic model.
7. Construct drainage improvements at Bedivere to Merlin Streets, Blacktown.
8. Finalise and gain endorsement by Parramatta City Council of the floodplain management plan for the North Wentworthville area.
9. Develop a uniform catchment Floodplain Management Policy.

Corporate Objective 1B: CONTAIN FUTURE FLOOD POTENTIAL

1. Bring up to date the database of all constructed OSD systems and OSD inspections.
2. Commence regular inspections and follow-up for all catchment OSD systems.
3. Issue update pages for OSD Handbook.
4. Conduct training courses in OSD for councils staff.
4. Encourage regular inspections and follow-up for all major flood mitigation structures and creeks.

Corporate Objective 2: WATER QUALITY

1. Complete and submit a Stormwater Management Plan for this catchment.
2. Exhibit and gain endorsement by Parramatta City Council of the water quality management plan for Lake Parramatta.
3. Complete construction of wetland and associated infrastructure in Lancelot Street retarding basin at Blacktown.
4. Commence one or more demonstration stormwater management projects in this catchment.
5. Maintain and strengthen Streamwatch in catchment schools.

Corporate Objective 3: VEGETATION MANAGEMENT

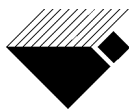
1. Commence maintenance contract for regenerated bushland in Excelsior Reserve
2. Achieve adoption of Greystanes Creek Management Plan by Blacktown and Holroyd Councils.
3. Finalise and gain endorsement by councils of the Green Corridors strategy for vegetated areas along streams

Corporate Objective 4: COMMUNITY INVOLVEMENT

1. Encourage community involvement in catchment management studies and implement action of programs.
2. Assist school children to understand local catchment management issues.
3. Publish and distribute four issues of Trust's newsletter.
4. Present talks and displays at various local forums.
5. Brief local MPs and keep key decision-makers informed about Trust.

Corporate Objective 5: CORPORATE SERVICES

1. Review staff performance through regular appraisals.
2. Review the Trust's enterprise agreement.
3. Obtain external funding and assistance for projects.
4. Support independent review of future of Trust.



**APPENDIX C
Legislative Changes**

Nil

**APPENDIX D
Inter-agency Committees**

Floodplain Management Authorities of NSW

Development Controls Working Party

Safety and Maintenance Working Party

Catchment Stormwater Taskforce

Greystanes Creek Restoration Steering Committee

North Wentworthville Floodplain Management Study Steering Committee

Stormwater Industry Association Inc.

NSW Waterwatch Committee (NSW Streamwatch)

Community Consultative Committee - Silverwater Correctional Centre

**APPENDIX E
Risk Management and Insurance**

The Trust owns no real estate. Its only physical assets are motor vehicles, personal computers, office equipment, and rainfall and stream gauges. However the Trust has some responsibility for the Loyalty Road flood retarding basin wall and associated structures at North Rocks.

The Trust is exposed to some risk of professional liability arising from the design and construction of flood mitigation works and the provision of advice on flooding.

In light of its modest assets, the Trust has only taken limited risk management measures. With the exception of its rainfall and stream gauges, that are located in strategic sites throughout the catchment, all of the Trust's assets and risks are covered by insurances. However, data files on personal computers are regularly copied and stored off site in case of some catastrophic loss of data. Furthermore, to minimise its risk in relation to the Loyalty Road basin, the Trust is about to prepare and implement an Operations and Maintenance Manual.

**APPENDIX F
Publications**

'Streamline' September 1997 and May 1998

Annual Report for 1997/98

Reports

Laxton, J H (1998). Water Quality of Upper Parramatta River, Analysis of Data Collected Between 1990 and 1997. January 1998.

Lee Lau & Associates (1997). Environmental Health Assessment of Upper Parramatta River Catchment using Biological Monitoring. Upper Parramatta River Catchment Trust.

**APPENDIX G
List of Diagrams**

Organisation Chart Page 9.

Expenditure by Key Performance Area Page 19.

Premises Flooded Graphs Page 17

**APPENDIX H
Use of Consultants**

Consultancies Costing Less than \$30,000

Australian Water Technologies – water quality testing

Bewsher Consulting Pty Ltd – OSD audit

Bowdens Engineers – surveys.

Burley and Dewhurst – quality assurance for sewer adjustments.

Catchment Management Services Pty Ltd – assistance with Catchment Management Strategy

Coffey and Partners Pty Ltd – geotechnical investigations of Greystanes Creek at Toongabbie Bowling Club.

Dalland and Lucas Pty Ltd – quality assurance for on-site stormwater detention systems.

Dalland Associates Pty Ltd – Design of Stages 4 and 5, Pendle Hill Creek Floodway



Environmental Sciences and Engineering Pty Ltd – attendance at water quality workshop.

ESP Ecological Surveys and planning – vegetation mapping and report for North Wentworthville.

Hydrological Services Pty Ltd – data collection.

J H & E S Laxton Environmental Consultants Pty Ltd – water quality monitoring and review

K W Corpe & Associates – data collection and surveys.

Ladd Hudson Architects – drawings for North Wentworthville Floodplain Management Study.

Lyll and Macoun Pty Ltd - Lake Parramatta Water Quality Management Study.

Manly Hydraulics Laboratory – water quality testing

McConnell Consulting Pty Ltd – feasibility study of in situ treatment of contaminated sediments in Lake Parramatta.

Merging Technologies Pty Ltd – OSD database.

Michael Adler & Associates – maintenance access to upstream of Loyalty Road flood retarding basin.

Nat-Research Pty Ltd – review of draft Catchment Management Strategy.

Niel Nielsen and Associates Pty Ltd – drafting for various works.

Qasco Pty Ltd – air photography and mapping.

Robinson GRC Consulting Pty Ltd – review of design plans for Upper Toongabbie Creek Flood Mitigation Strategy.

SMEC Australia Pty Ltd – construction supervision of Loyalty Road flood retarding basin.

Tessa Corkill – archaeological surveys, Excelsior Reserve.

University of Sydney (Dr Gavin Birch) – testing of heavy metals in sediments.

University of Western Sydney – study of turtles and eels in catchment creeks.

Urban Bushland Management Consultants Pty Ltd – supervision of bushland regeneration

Warren F Cole – surveys.

Number of such consultancies – 29
Total cost of such consultancies - \$235,383

Consultancies Costing More than \$30,000

Willing & Partners Pty Ltd – design, environmental assessment and development application for Upper Toongabbie Creek Flood Mitigation Strategy, Stage 1 - \$86,050.

Bewsher Consulting Pty Ltd - North Wentworthville Floodplain Management Study - \$ 45,980.

Oculus Pty Ltd – Green Corridors Management Study - \$30,550

**APPENDIX I
Trustees' Attendance at Meetings**

G. Whitehouse (Chairman)	8
A.Tennie	7
A J L Bolitho	6
R B Potter	6
C Worthington	5
J C Books	8
K V Collins	7
A G Ezzy	7
P J T Herlinger	8
R Dickens	5
M Sommerton	3



APPENDIX J Equal Employment Opportunity

**Table 1
Representation & Recruitment of Aboriginal Employees
and Employees with a Physical Disability**

	1996/97			1995/96		
	Total staff	Aboriginal people	PWPD*	Total staff	Aboriginal people	PWPD*
Total employees	7	Nil	Nil	7	Nil	Nil
Recruited in the year	Nil	Nil	Nil	Nil	Nil	Nil

* People with a Physical Disability

**Table 2
Representation of EEO Target Groups within Levels**

	1996/97			1995/96		
	Total staff	Women	NESB ¹	Total staff	Women	NESB ¹
Below C.O.1 ²	Nil	Nil	Nil	Nil	Nil	Nil
C.O.1 Gd1 ³	Nil	Nil	Nil	Nil	Nil	Nil
A&C Gds1-2	1	1 14.29%	1 14.29%	1	1 14.29%	1 14.29%
A&C Gds3-5	Nil	Nil	Nil	Nil	Nil	Nil
A&C Gds 6-9	4	Nil	Nil	4	Nil	Nil
A&CGds 10-12	1	Nil	Nil	Nil	1	Nil
Above A&C Gd12	1	Nil	Nil	1	Nil	Nil
Total	7	1 14.29%	1 14.29%	7	1 14.29%	1 14.29%

1. Non-English Speaking Background

2. Employees on salaries below Clerical Officer Scale Grade 1, 21 year old rate of salary.

3. Employees on salaries from Clerical Officer Scale Grade 1, 21 year old rate to below minimum Administrative and Clerical Scale Grade 1.