

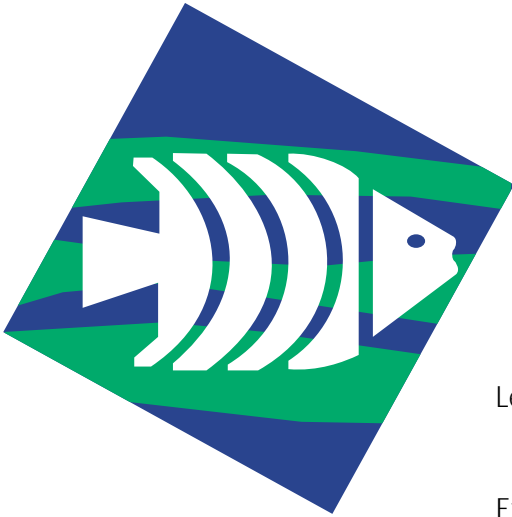
The Office of the Lake Macquarie &
Catchment Coordinator

ANNUAL REPORT

2000-2001

Implementation of the Lake Macquarie Intergrated Estuary
and Catchment Management Framework





Letter of Transmittal	2
Executive Summary	4
Physical Works	5
Communications and Community	7
Monitoring	9
Catchment Management	11
General	12
Financial Information	13 - 16

Cover Photo: Foreshore stabilisation and revegetation works at Warners Bay, designed to restore natural processes, part of an extensive physical works program implemented in 2000-1

CONTENTS



The Honourable Richard Amery, MP
Minister for Agriculture and
Minister for Land and Water
Conservation
Level 17, 'Parkview'
157 Liverpool Street
Sydney NSW 2000

Dear Mr. Amery,

On behalf of the Lake Macquarie Project Management Committee, I am pleased to present our Annual Report 2000/2001.

At the end of the Project's second year the Committee is pleased to report the timely and substantive progress made toward the implementation of the initial three-year program, whilst recognising the challenges which remain ahead to fully implement all the aspects of the Premier's Taskforce Report of 1999.

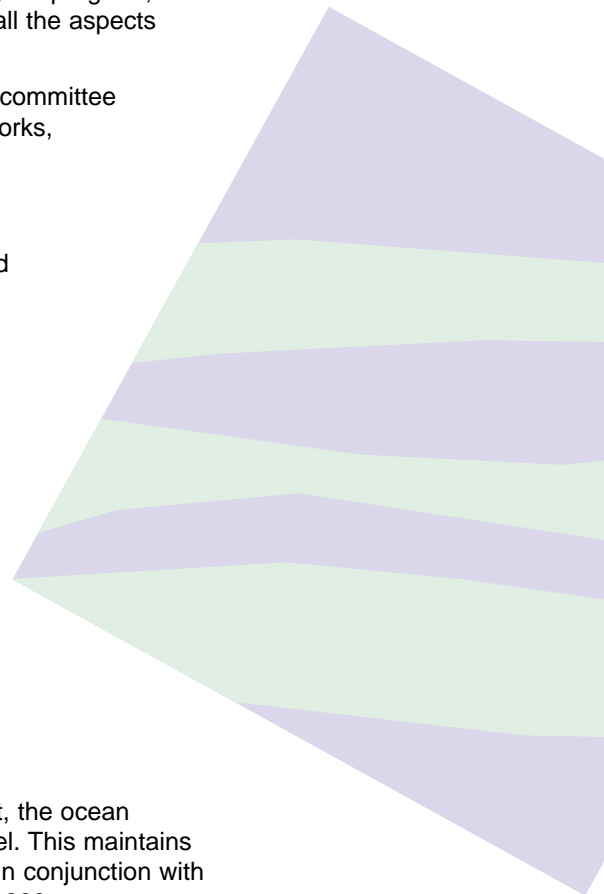
In achieving the many environmental and practical outcomes to date, the committee has been mindful of the need to balance allocation of funding for public works, education, scientific studies and communication with the local community.

A number of major physical works have been completed in 2000/2001, including the stabilisation of Salts Bay and installation of Constructed Wetlands at Blackalls Park, along with numerous smaller revegetation and drainage line protection schemes. These projects represent the wide spectrum of public works in progress throughout the catchment. These works are complimented by a continuing education and capacity building program such as a web site, free regular community newsletter with a circulation of 74,000 and a series of information pamphlets and posters distributed throughout schools, libraries and community groups.

In 2000-2001, many contentious issues in relation to the Lake have emerged on the public agenda, such as the closure of commercial fishing and the buy-out of licences, design and positioning of stormwater treatment devices and calls for major channel dredging. While the resolution of these issues will have a considerable effect on the Lake in future years, the Project Management Committee has remained focussed on the goals and objectives established as a result of the Task Force Report.

There is now a general understanding that to retain access for larger craft, the ocean entrance to Lake Macquarie will continue to require dredging at some level. This maintains a history dating back to the 1950s where regular maintenance is needed in conjunction with hard engineering solutions, to augment the training walls built in the late 1800s.

In comparison, the advent of innovative technologies based on an understanding of natural systems, have been implemented throughout the catchment. Examples of such strategies are on display at the Constructed Wetlands built under the program at Blackalls Park. These are typical of the new thinking in environmental management, where environmental features are assimilated into developed areas, rather than hard engineering replacements being imposed as more aesthetically pleasing solutions.



Unfortunately, some sectors of the local community still see these physical projects as the only worthwhile endeavour in the fight to save Lake Macquarie. Further education on the benefits to be gained from scientific studies and the monitoring of environmental indicators and public opinion are also central to the effectiveness of the whole program. The acceptance of these elements will require a paradigm shift in thinking of some of the catchment population. As with behavioural change this will take time.

The second annual Living Lake Macquarie Community Survey, due for completion in October, will provide an opportunity to map shifts in community perception and improved awareness. Addressing gaps in community awareness has been central to the Living Lake Macquarie communication program as part of the Project Management Committee's broader strategy.

The committee has maintained a mind for some flexibility within the budget and program, to enable a pro-active approach to emerging issues and priorities. However, we have at all times attempted to remain within the global budget and to remain focused on the objectives identified in the Integrated Estuary and Catchment Management Framework.

Government and community representatives have continued a high level of attendance at meetings and have been enthusiastic participants in additional activities such as community forums and information evenings.

Since the last report the NSW Government has made strong commitments to development and implementation of integrated policy in the coastal zone through Catchment Management and the Coastal Policy. I believe the "Whole of Government" approach of the Taskforce and the Project Committee, which has brought together Regional Directors of the relevant Government agencies to work together toward a common goal, is a model for State and Local Government and community involvement in natural resource management. In line with these initiatives the Project Management Committee has displayed a strong collective resolve to achieve the goals and objectives of the project.

Project Coordinator, Jeff Jansson, has developed a strong profile on Lake issues with the local community and the regional media and continues to drive strong, efficient and innovative advancement of the program.

The Committee's continued work and commitment will ensure the continued success of efforts to revive, renew and protect the ecology of Lake Macquarie.

Yours Sincerely,

Peter Nelson

Chairman
Lake Macquarie Project Management Committee

EXECUTIVE SUMMARY

With the second year of the three-year action plan now completed, the Office of the Lake Macquarie & Catchment Coordinator has made significant progress in implementing the recommendations of the Premiers Task Force report of 1999.

During the year to 30 June 2001 in excess of \$1,800,000 was spent on physical works. These projects included extensive foreshore protection and erosion prevention, stormwater treatment improvements and the installation of management devices, the development of management plans and investigative works.

The often under-valued monitoring and scientific studies program has also continued, with comprehensive raw data now collected on a range of key indicators such as macroalgae, water quality and seagrasses. The Office of the Lake Macquarie & Catchment Coordinator will take this a step further in late 2001, by engaging a specialist organisation to interpret this data to assist with the further development of Lake improvement strategies.

The Community Education & Reporting aspect of the program has also continued with positive results. A repeat of the Living Lake Macquarie Community Survey will be carried out in August and will provide a strong indication of the effectiveness of strategies implemented to raise awareness of key issues affecting the health of Lake Macquarie.

Work has begun on the development of a Teacher Resource Kit for schools throughout the catchment. This will give the program a strong foothold at the grass roots level, to educate and inform an audience that survey results suggest has a keen awareness and interest in the environmental plight of the Lake.

The Project Management Committee continues to benefit from the whole-of-government approach advocated by the Premiers Task Force report. This cooperation has been proven over the first two years to greatly increase the efficiency of delivery of the programs objectives. The Committee believes this approach will become a model for the management of natural resources in years to come.

Rock groyne construction for stabilisation of Salts Bay



Rock groyne construction for stabilisation of Salts Bay

EXECUTIVE SUMMARY

PHYSICAL WORKS

The Office of the Lake Macquarie & Catchment Coordinator has completed a number of major projects during the year, under the physical works category of the program. This category includes the protection of foreshore areas, improvements to stormwater management techniques, re-vegetation schemes and maintenance activities such as dredging.

The Project Management Committee has maintained its commitment to the funding of projects that employ new 'soft' technologies, wherever possible. These have been generally preferred to hard engineering solutions which, while providing immediate solutions to some management issues, often fail to address the broader issues of the natural systems and so risk creating additional long-term problems in future years.

The Project Management Committee has elected to support approaches which compliment and promote an appreciation and understanding of these natural systems. During the year to 30 June 2001 in excess of \$1,800,000 was spent on physical works. Some of the highlights in the category of physical works are outlined below:

Foreshore Protection & Erosion Prevention

Salts Bay

The Development Application for stabilisation works at Salts Bay was approved by Lake Macquarie Council on 28 August. Stage 1, undertaken at a cost of \$600,000, was managed by NSW Public Works. It involved a combination of beach nourishment and groyne construction.

The beach nourishment saw 32,500 cubic metres of sand taken from areas around the entry to the channel, Black Neds Bay and Mats Point Groyne to build up eroded foreshore areas at Salts Bay. The existing rock groyne was also extended by 25 metres and an additional 40 metre rock groyne was built.

The project, due for completion with dune stabilisation and planting in Spring 2001, will improve amenity in the area, save rare littoral rainforest areas native to land behind Salts Bay and ease the risk on sensitive wetland areas located in Black Neds Bay.



Manning Park/Gwandalan

Stabilisation works and sediment trapping to the northern areas of Wyong Shire Council, on a number of badly eroding areas between Manning Park and Gwandalan, were carried out at a cost of \$173,000. The works included treatment at 13 individual sites and involved reshaping and revegetation of drainage lines, as well as the installation of sediment trapping devices.

Stage 2 of the ongoing works, involving the installation of stormwater quality improvement devices and constructed wetlands is scheduled for 2001-2002 at an additional cost of \$373,000.

Warners Bay Foreshore

Lake foreshore stabilisation works near South Creek, Warners Bay to the value of \$38,753 were approved in August. The project involved a unique strategy where shingles (small river rounded rocks) were used to form a natural beach in front of a row of larger rocks in the upper beach area with plantings. The strategy was well received by local residents and the natural processes have been re-established.

Both South and North Creek have also undergone riparian zone restoration to the value of \$181,346. This revegetation of shoreline areas is critical to complete the stabilisation of the area and provide a filter for stormwater run-off.

Other Sites

The Lake Macquarie & Catchment Coordinator committed \$13,500 in funding for foreshore stabilisation works at the Toronto foreshore and Yarul Reserve at Coal Point. The project involved the planting of endemic species by community groups, with the funding for the purchase of plants provided by local businesses as part of the Council's planting day. This is an example of the growing cooperation between local government and key community organisations such as Landcare, and it is through this total catchment management approach that the project will achieve the best results for Lake Macquarie.

Stabilisation and revegetation of foreshore sites has been completed throughout the catchment at a total cost of approximately \$436,800. The sites included Cocked Hat Creek, North and South Creek (Warners Bay), Winding Creek (Glendale), Brush and Cackle Creek, Stockton Creek (Morisset), Salty Creek (Swansea) and Kooroora Bay (Bolton Point) and various locations at Toronto.

PHYSICAL WORKS

Stormwater treatment and management devices

Constructed Wetlands

Two wetlands were constructed at the end of Ward and Todd Streets, Blackalls Park. The project was completed at a cost of \$308,000 and one site involved the removal of a section of concrete drainage channel. This was a sign of the change in thinking in catchment management, with a move away from hard engineering solutions, toward environmentally sensitive 'soft' technologies.

Two commercial stormwater treatment devices were also installed, one at Elizabeth Street, Fennell Bay and the other at the corner of Lake and Quigley Roads, Bolton Point. These projects were completed at a cost of \$30,000 each.

A constructed wetland was also converted from an existing stormwater detention basin at Aurora Court, Warners Bay, at a cost of \$29,000.

Design and planning was also undertaken for wetlands at Seventh Street, Boolaroo, Lake Street, Bolton Point, as well as Edgeworth and Booragul.

USI Grant

A joint application between the Project Management Committee was lodged with the Commonwealth Government for a grant under the Urban Stormwater Initiatives (USI) program, to the value of \$450,000.

The application was successful, largely due to the \$353,000 committed for the year by The Office of the Lake Macquarie & Catchment Coordinator. This funding was secured by The Project Management Committee as part of the application, and was dedicated to the construction of stormwater treatment facilities throughout the catchment.

Dredging for Boating Access

Dredging of the main channel was undertaken near Naru prior to Christmas at a cost of \$45,000. The objective of the dredging works is to maintain safe boating access to the area for large craft. In addition, an attempt was also made to remove some excess sand to improve the alignment and delay of further dredging.

Management Plans & Investigative Works

Consultants have been engaged to prepare major Management Plans and works programs to improve Cockle Bay, as well as Fennell and Edmunds Bay. These plans will not only examine improvement works to address outstanding issues, but will also establish long-term active management plans to maintain the good health of the sites.

Investigation of impacts on the local environment from dredge spoil islands around Swansea Flats have also been carried out to a cost of \$35,745. This study found that no further work was required as the dredge spoil islands were not having any significant effect on water quality or seagrass health.



Wetland under construction, opposite Todd Street, Blackalls Park



Maintenance dredging

PHYSICAL WORKS

COMMUNICATIONS & THE COMMUNITY

The role of the local community as key stakeholders in the future of Lake Macquarie is recognised by the Project Management Committee. Funding commitments in excess of \$50,000 were dedicated to a range of communication and reporting initiatives.

The communication program was based loosely around six key topic areas:

Native Vegetation

- ◆ Seagrasses
- ◆ Sedimentation and Nutrients
- ◆ Channel and Entrance Issues
- ◆ Estuary Management
- ◆ Dynamic Change in Lake Macquarie
- ◆ The reporting function was determined by monitoring emerging environmental issues in the catchment, or as directed by the Lake Macquarie & Catchment Coordinator.

The first Phase of the Community Education and Reporting function was carried out by FordComm Consulting and concluded in October 2000. FordComm was reappointed in March to carry out Phase 2. Some of the tools designed and implemented in the Living Lake Macquarie program are discussed below.

Community Newsletter

The Living Lake Macquarie newsletter was distributed free to approximately 74,000 homes throughout the catchment. It was well received by the local community, with many providing favourable feedback at community forums and by phone. The newsletter covered a range of the projects in progress as part of the Lake Coordinator's program and at the request of the Project Management Committee carried an additional section highlighting specific issues facing the health of the Lake.

The second edition was distributed in August, with the third issue completed in April 2001, as the first part of Phase 2. One further issue is scheduled under Phase 2 and is due for release in the latter part of 2001.

Information Brochure/ Discussion Poster Series

A series of information brochures were prepared for distribution throughout schools, public libraries and community groups, as well as being available through council libraries. Matching discussion posters were produced on the first five key issues. In order to maximise media coverage for each issue, the brochures were released individually and timed to coincide with newsworthy stories as directed by the Lake Coordinator. Regional media supported the series well, particularly local television and radio news desks.

One additional information pamphlet and poster will be prepared as part of the Phase 2 contract, to be completed in October 2001.

Web Site

The Living Lake Macquarie web site, www.livinglakemacquarie.org was launched in September. The address was then advertised on all communications material produced, including print materials as well as community service announcements.

The web site includes the following:

- Downloadable files and links to key management and planning reports, reference documents
- Profiles of all Project Management Committee members
- Summary information on the five key topic areas
- Media release history for the project
- Editions of the newsletter
- The Community Survey 2001 report

An expansion and promotion of the web site is planned as part of the Phase 2 contract. The primary aim will be to increase traffic to the site and add interactive elements to encourage repeat visits.

Community Service Announcements

A series of Community Service Announcements were produced for radio & television and were provided to media outlets in the latter half of 2000. Unfortunately the productions received insufficient coverage, with Newcastle University radio and a selection of commercial radio stations being the few organisations to run them.

The five CSA's covered key topic areas and were narrated by Project Management Committee Member Ian Kiernan. The series was produced within the budget allocated to FordComm Consulting for the Community Education and Reporting Function.

COMMUNICATION & THE COMMUNITY

General Publicity

A publicity program has been scheduled around the release of selected elements of the Community Education and Reporting Program.

The publicity for each of the information brochures & discussion posters was timed to coincide with selected events, the release of appropriate studies and other appropriate news worthy activities identified on the public events calendar.

The support of the Living Lake Macquarie project from local print and broadcast media has been encouraging, particularly from radio and television networks.

Lake Coordinator Jeff Jansson has enjoyed an increased profile and has developed solid relationships with key members of the regional media. If anything, Jeff's profile is now such that he is often contacted for comment on matters that fall outside his brief. With the advice of FordComm, Jeff has been careful to manage his involvement in media coverage to areas under the direct control of the Project Management Committee.

Teacher Resource Kit

Work has commenced on a resource kit for teachers at primary and secondary level as part of the Community Education function. The product will include a hard copy booklet for teachers and a CD Rom containing in class worksheets and resources for planning field trips to highlight the key messages of the program.

The Teacher Resource Kit will feature an animated character which will also be promoted in print advertising and on the web site in the latter half of 2001.

Community Survey

A repeat of the Living Lake Macquarie Community Survey 2000 will commence in August. The survey is considered an important tool in directing efforts to raise awareness of key environmental issues within the community and was a key recommendation of the Premier's Task Force Report.

The study involves a random telephone survey of 600 residents (over 18) from throughout the catchment. The data collected in the 2001 survey will be compared to the original base data to track progress made in terms of changing behaviour. It will also measure any changes in community perceptions in relation to the environmental health of the Lake. A report is expected to be published by the end of October 2001.



Salts Bay beach during sand renourishment

COMMUNICATION & THE COMMUNITY

MONITORING

A commitment to monitoring programs and scientific studies is central to the three-year action plan to revive Lake Macquarie. In 2000-2001 the Project Management Committee provided ongoing funding support for a selection of monitoring programs, as a source of data to evaluate completed physical works and to maintain a proactive approach to identifying and managing emerging issues in the Lake environment.

Monitoring results are often dramatically effected by extreme weather conditions and many other factors, as experienced in the April-June period where heavy rainfall resulted in higher than usual levels of macroalgae.

To address this issue, it has been decided that any savings made in the monitoring program will be directed to funding the engagement of a specialist consultant to interpret the range of monitoring data. These services are provided by organisations such as CSIRO and the Universities.

Some highlights from work completed in this category this year include:

Water Quality Monitoring

Bathing Areas

Quarterly monitoring of 15 bathing areas throughout the catchment is carried out by Hunter Water Laboratories. Generally, the results found that all sites had satisfied regulatory guidelines, except for some isolated instances.

Deep Water Sites

Monitoring of deep water sites is carried out monthly by Hunter Water Corporation. Again, all sites generally provided results in accordance with the guidelines except for ammonia. In the most serious exceedence the ammonia levels were approximately 30 ug/L, more than six times the guideline level of "less than 5 ug/L". It has been reported that most estuaries in New South Wales exceed these levels and as a result the existing guidelines are currently being reviewed.

Tributary Water Inputs

Hunter Water was appointed in January to monitor tributaries to measure input to the Lake from the catchment.

Survey results from water inflows into 8 creeks revealed a number of minor discrepancies with guideline levels, particularly at the Cockle Creek site. These discrepancies could generally be described as elevated levels of nutrients and indicator bacteria. However, there were no reports of pesticides or PAH.

One site in this monitoring program is Wyee Creek, as the Project Management Committee seeks to assess the impacts from the immediate Wyee catchment area, which does not have a reticulated sewerage service. While this schedule was not expected to provide conclusive evidence it could be expected to provide a clear indication of the effects of the localized catchment area.

The general program involves six monitoring events in one year, three during dry weather and three during wet weather periods.

Edmunds Bay



MONITORING

Macroalgae

Monitoring of macroalgae in Lake Macquarie is carried out by Australian Museum Business Services on behalf of the Lake Macquarie & Catchment Coordinator. The testing procedures, which are carried out quarterly, involve measuring the weight of macroalgae present in a one metre square sample of soil taken from the Lake bed. The diversity of algae species present in the samples is also recorded. Maximum algal densities are normally found from late winter to early summer.

At the conclusion of the Phase 1 contract period Australian Museum Business Services provided a final report on 4 sampling programs carried out over the 12-month period. Whilst the results reflected the anticipated seasonal trends and particular increases in Warners Bay, the Project Management Committee stresses that the interpretation of this data needs to be long term.

Results of macroalgae monitoring can vary dramatically depending on weather patterns and other seasonal conditions. High rainfall in the April/May test period caused high readings this year.

The Lake Coordinator used the results in media coverage surrounding World Environment Day to promote the concept of the treatment chain and to alert the community to problems associated with ineffective stormwater management.

Jeff Jansson explained in radio interviews that poor stormwater management increased the risk of algal blooms, and he advocated the promotion of the treatment chain concept to embody the whole of catchment approach to reducing sedimentation. Jeff also highlighted the monitoring results, which supported the trend for algal blooms to be more prevalent in urban and developed areas.

Seagrasses

Seagrasses are monitored for density and general health by the local Power Stations and NSW Fisheries. During monitoring carried out in April, Fisheries officers identified the noxious invasive weed *Caulerpa taxifolia*. The Living Lake Macquarie Newsletter ran a story in its third edition, alerting the local community to the issue and detailing checking methods boat owners and fishermen could carry out to limit the spread of the weed.

The issues gained considerable media attention as the problem threatened to spread dramatically from the first isolated sightings on the northern side of Pulbah Island, Crangan Bay and Chain Valley Bay.



Foreshore stabilisation works involving beach construction and vegetation plantings at Warners Bay



Use of shingles, Warners Bay foreshore

MONITORING

CATCHMENT MANAGEMENT

The Project Management Committee supported through funding the drafting of selected key documents to provide guidelines on various areas of catchment management into the future.

The Committee was also consulted during the creation of the updated Lake Macquarie LEP. A whole of government approach was identified as a recommendation of the Premier's Task Force report of 1999. Consultation of this nature between local councils and organisations like the Project Management Committee are a quantum leap in the effective management of the region's natural resources.

Reports on some of these projects are provided below.

Habitat Protection Plan (HPP)

The Project Management Committee agreed to provide \$50,000 in funding support to the NSW Department of Fisheries for the development of a specific HPP for Lake Macquarie. The document will become a point of reference for planning bodies and stakeholders in the catchment, drawing on key regulatory and statutory authorities, as well as community consultation to create clear guidelines for the preservation and protection of aquatic habitats. Once completed the plan will go on exhibition for public comment.

The HPP will cover key issues such as land clearing, swing moorings, marina developments and industry which result in changes to aquatic habitats and in turn lead to loss of fish stocks and marine plant life. The HPP is subject to approval by the Minister for Fisheries and Resources, Eddie Obeid, and is due for consideration late 2001.

General

- ◆ The Project Management Committee provided \$2,000 (1/3) in funding for Construction Guidelines for Foreshore and Stream-bank Stabilisation. The Office of the Lake Macquarie and Catchment Coordinator recommended the funding with respect to its commitment to support of leading edge environmental management initiatives.
- ◆ The Project Management Committee is also working closely with the EPA toward the development of an Integrated Catchment & Estuary Management Framework, which will assist in directing management decisions for the long-term future of the Lake.
- ◆ Planning strategies to provide protection to wetlands and riparian vegetation throughout the catchment are being drafted by Egis. These planning initiatives are important to ensure that progress made by the overall project is not undone because basic guidelines for protection are not clearly established.



Eroded drainage line being reshaped ready for grassing at Chain Valley Bay. (And below) The same drain at Chain Valley Bay with established vegetation.



GENERAL

In addition to activities discussed within the broad categories of the program, the Project Management Committee made good progress in a number of general areas.

These included consultation with other government departments and peak bodies toward the solution of issues that were considered outside the direct financial responsibility of the Project Management Committee. Lake Coordinator provided input on behalf of the Committee in instances where the Lake ecology was the direct beneficiary. Some examples are reported below.

Extension of Reticulated Sewerage Systems

In accordance with a commitment to the Premier's Taskforce on Lake Macquarie, Hunter Water Corporation continued the process of upgrading the reticulated sewerage systems in the area.

Boat Pump Out Facilities

In accordance with the recommendations of the Premier's Taskforce on Lake Macquarie, funding has been committed and planning is under way to construct marine waste reception facilities at various locations around Lake Macquarie.

The Department of Land & Water Conservation has committed \$450,000, Waterways Authority has committed \$200,000 and the Commonwealth Government's Environment Australia has committed \$103,000 towards the provision of five marine waste pump-out facilities and 12 'Slop-hopper' units. These works are scheduled to be completed next year.

Oil Spill on Lake Macquarie

An accident involving a truck refueling a ferry resulted in a fuel spillage occurring at the Toronto West wharf. While the Fire Brigade contained the problem on-site, there was some confusion as to who carried responsibility for investigation of the incident. The Project Management Committee raised the issue with Minister for the Environment. The issue is currently being reviewed on a state-wide basis.

Caulerpa taxifolia

The outbreak of the noxious aquatic weed *Caulerpa taxifolia* poses a great threat to the aquatic life throughout Lake Macquarie. Lake Coordinator Jeff Jansson has joined a local working group to assist NSW Fisheries in tackling the problem.

Constructed wetland being converted from a detention basin at Warners Bay



GENERAL

**Independent audit report to the
Office of the Lake Macquarie & Catchment Co-ordinator**

Scope

We have audited the attached "Statement of Financial Performance and Statement of Financial Position" for the Office of the Lake Macquarie & Catchment Co-ordinator for the year ended 30 June 2001. Council is responsible for the preparation and presentation of the Statement of Financial Performance and Statement of Financial Position and the information contained therein. We have conducted an independent audit of the Statement of Financial Performance and Statement of Financial Position in order to express an opinion to the Office of the Lake Macquarie & Catchment Co-ordinator on its preparation and presentation.

We disclaim any assumption of responsibility for any reliance on this audit report or on the financial report to which it relates to any person other than the Office of the Lake Macquarie & Catchment Co-ordinator for any purpose other than that for which they were prepared.

Our audit has been conducted in accordance with Australian Auditing Standards. Our procedures included examination, on a test basis, of evidence supporting the amounts disclosed in this statement. The procedures have been undertaken to form an opinion as to whether, in all material respects, the attached Statement of Financial Performance and Statement of Financial Position is in accordance with the books, accounts and other relevant records of Council.

Audit opinion

In our opinion, the attached Office of the Lake Macquarie & Catchment Co-ordinator Statement of Financial Performance and Statement of Financial Position is in accordance with the books, accounts and other relevant records of Council.



PricewaterhouseCoopers
Chartered Accountants



Wayne Russell
Partner

Newcastle
31 October 2001

Office of the Lake Macquarie & Catchment Co-ordinator

Statement of Financial Performance For year ended 30 June 2001

	2001 \$	2000 \$
Revenues		
Contributions - DLWC Supplementary	2,025,000	1,400,000
Contributions - DLWC - Administration	102,813	91,869
Contributions - LMCC	1,028,426	202,787
Contributions - Wyong Shire Council	89,314	10,686
Contributions - Hunter Water	14,000	14,000
Contributions - In-Kind	225,200	519,914
Interest on Investments	13,045	6,250
	3,497,798	2,245,506
Expenses		
Completed Works - Note (1)	1,995,504	456,637
Works In-Kind - Note (2)	225,200	519,914
	2,220,704	976,551
Surplus Funds for the year ended 30/06/2001	1,277,094	1,268,955

See Note (3) for Work Commitment For Expenditure

Statement of Financial Position As at 30 June 2001

	2001 \$	2000 \$
Current Assets:		
Investments	2,561,121	1,268,956
Receivables	12,032	7,205
	2,573,154	1,276,161
Current Liabilities:		
Creditors	20,675	776
	20,675	776
Net Current Assets:	2,552,479	1,275,385
Non Current Assets:		
	-	-
Non Current Liabilities		
	-	-
	-	-
Net Assets:	2,552,479	1,275,385
Total Equity	2,552,479	1,275,385

Office of the Lake Macquarie & Catchment Co-ordinator

Completed and Works in Progress

	Actual Expend to 30/6/01	Source of funding Cash			
		DLWC (Supplementary)	LMCC	WSC	HWC
Printing community education posters & pamphlets	\$4,965.90	\$2,482.95	\$2,482.95		
Distribution community newsletter issue #2	\$2,590.00	\$1,295.00	\$1,295.00		
Website fees	\$179.35	\$89.68	\$89.67		
Film processing	\$48.14	\$24.07	\$24.07		
Printing annual report	\$884.00	\$442.00	\$442.00		
Publications	\$79.73	\$39.86	\$39.87		
Environfest display	\$1,213.82	\$606.91	\$606.91		
Advertisement	\$91.20	\$45.60	\$45.60		
Printing community newsletter issue #2	\$6,729.30	\$3,364.65	\$3,364.65		
Distribution community newsletter issue #3	\$2,590.00	\$1,295.00	\$1,295.00		
Printing community newsletter issue #3	\$7,917.00	\$3,958.50	\$3,958.50		
Community education and reporting functions 2000	\$7,865.00	\$3,932.50	\$2,988.70	\$943.80	
Community education and reporting functions 2001	\$14,301.65	\$8,720.65	\$3,488.00	\$2,093.00	
Investigation remedial options Fennell/Edmunds Bays	\$16,816.00	\$8,408.00	\$8,408.00		
Management plan Fennell/Edmunds Bays	\$6,688.73	\$3,344.36	\$3,344.37		
Investigation impacts dredge spoil islands Swansea Flats	\$35,745.00	\$19,939.00	\$15,806.00		
Meteorological data	\$100.00	\$56.00	\$44.00		
Salts Bay stabilisation works	\$340,909.09	\$170,454.54	\$170,454.55		
Dredging Swansea Channel	\$45,000.00	\$22,500.00	\$22,500.00		
Hunter Water Corporation application fees	\$92.00	\$46.00	\$46.00		
Foreshore stabilisation Kooroora Bay	\$3,229.00	\$1,614.50	\$1,614.50		
Stormwater treatment device Elizabeth Street, Fennell Bay	\$25,167.18	\$12,583.59	\$12,583.59		
Stormwater treatment device Bay Road, Bolton Point	\$26,892.12	\$13,446.06	\$13,446.06		
Design of wetlands and stormwater treatment devices	\$134,878.46	\$63,052.52	\$71,825.94		
Constructed wetland Ward St, Blackalls Park	\$71,010.37	\$35,505.18	\$35,505.19		
Revegetation riparian zone Cocked Hat Creek	\$3,015.00	\$1,507.50	\$1,507.50		
Stabilisation works Winding Creek, Glendale	\$5,000.00	\$2,500.00	\$2,500.00		
Riparian zone restoration Brush/Cockle Creek	\$28,376.00	\$14,188.00	\$14,188.00		
Riparian zone restoration 200m west of Ridley St, Edgeworth	\$26,942.00	\$13,471.00	\$13,471.00		
Stabilisation of watercourse on reserve, Salty Creek / Cockle Creek	\$62,105.23	\$31,052.61	\$31,052.62		
Stormwater treatment Booragul	\$4,324.31	\$2,030.31	\$2,294.00		
Stabilisation works Lakeside Drive, Swansea	\$8,500.00	\$4,250.00	\$4,250.00		
Catchment / erosion / stormwater works Gwandalan to Mannering Park	\$173,000.00	\$100,000.00		\$73,000.00	
Riparian zone restoration South Creek, Warners Bay Stage 1	\$18,000.00	\$9,000.00	\$9,000.00		
Riparian zone restoration South Creek, Warners Bay Stage 2	\$69,350.00	\$33,912.50	\$35,437.50		
Riparian zone restoration North Creek, Warners Bay	\$93,996.00	\$33,789.00	\$60,207.00		
Riparian zone restoration Warners Bay foreshore opposite Cherry Road	\$7,000.00	\$3,500.00	\$3,500.00		
Lake foreshore rehabilitation north side of South Creek	\$10,146.18	\$5,073.09	\$5,073.09		
Foreshore stabilisation Warners Bay stage 1	\$21,607.00	\$5,401.75	\$16,205.25		
Constructed wetland Aurora Court, Warners Bay	\$29,004.82	\$11,049.83	\$17,954.99		
Stabilisation work channel foreshore Pelican	\$58,855.10	\$26,752.30	\$32,102.80		
Stormwater / erosion works various reserves - Landcare	\$6,000.00	\$2,824.00	\$3,176.00		
Rehabilitation works Stockton Creek riparian zone, Morisset	\$2,832.00	\$1,333.00	\$1,499.00		
Matching contribution to Council for Commonwealth Govt USI project	\$212,941.00	\$3,147.00	\$209,794.00		
Revegetation / stabilisation Toronto foreshore	\$15,159.00	\$7,134.00	\$8,025.00		
Contribution to design guidelines for foreshore works	\$1,000.00	\$470.50	\$529.50		
Constructed wetland Todd Street, Blackalls Park	\$93,027.01	\$9,867.07	\$83,159.94		
Fish habitat protection plan	\$10,000.00	\$5,000.00	\$5,000.00		
Macroalgae surveys 2000	\$10,907.50		\$10,907.50		
Bathing areas water quality monitoring program 2000/2001	\$10,200.00		\$9,168.00		\$1,032.00
Lake body water quality monitoring program 2000/2001	\$19,484.63		\$4,817.63	\$5,500.00	\$9,167.00
Tributary water quality monitoring program 2001	\$12,847.34	\$7,154.52	\$5,692.82		
Integrated catchment and estuary management model for Lake Macquarie	\$35,000.00	\$17,400.00	\$14,492.85	\$3,107.15	
Wetland, riparian and littoral vegetation protection plan	\$40,223.75	\$40,223.75			
Preparation of brief for Tributary Monitoring	\$500.00	\$278.50	\$221.50		
Travel, catering and meeting expenses	\$3,085.89	\$1,542.94	\$1,542.95		
Salaries and Oncosts	\$88,311.83	\$88,311.83			
Motor Vehicle Running Expenses	\$10,090.00	\$10,090.00			
Mobile Phone Operating Expenses	\$1,336.83	\$1,336.83			
Administrative Support	\$45,956.64		\$45,956.64		
Casual Environment Officer	\$1,396.08	\$1,396.08			
	\$1,995,504.18	\$872,235.03	\$1,028,426.20	\$84,643.95	\$10,199.00

**NOTE
2**

**Office of the Lake Macquarie & Catchment Co-ordinator
Works In-Kind**

	Actual Expend to 30/6/01	Source of funding Cash					Waterways
		DLWC	TAFE	Fisheries	Eraring Energy/ Delta Electricity	Pasminco	
Facilitate formation of Landcare/Rivercare projects	3,500.00	3,500.00					
Design boat sewage pump-outs	50,000.00	50,000.00					
Construction of boat sewage pump-outs	20,000.00	20,000.00					
Monitor channel and seagrasses	37,200.00						37,200.00
Monitor boating movement - Swansea channel	11,500.00						11,500.00
Water quality monitoring Cockle Creek	20,000.00					20,000.00	
Water quality monitoring	50,400.00		25,400.00		25,000.00		
Monitoring seagrasses	32,600.00			22,600.00	10,000.00		
	225,200.00	73,500.00	25,400.00	22,600.00	35,000.00	20,000.00	48,700.00

**NOTE
3**

**Office of the Lake Macquarie & Catchment Co-ordinator
Work Commitment for Expenditure**

	Committed Expend to 30/6/01	Source of funding Cash			
		DLWC (Supplementary)	LMCC	WSC	HWC
Community education and reporting functions 2001	\$28,603.35	\$17,441.35	\$6,976.00	\$4,186.00	
Management plan Fennell/Edmunds Bays	\$38,706.27	\$19,353.13	\$19,353.14		
Investigation Cockle Bay	\$65,580.00	\$49,620.36	\$15,959.64		
Management plan Coon Island	\$30,000.00	\$15,000.00	\$15,000.00		
Salts Bay stabilisation works	\$179,038.19	\$89,519.10	\$89,519.09		
Maintenance dredging	\$77,800.00	\$38,900.00	\$38,900.00		
Stabilisation works Flaggy Creek, Government Road, Barnsley	\$40,000.00	\$20,000.00	\$20,000.00		
Stabilisation Works Flaggy Creek, Nelson Road, Barnsley	\$20,000.00	\$10,000.00	\$10,000.00		
Investigation Warners Bay foreshore	\$360.00	\$90.00	\$270.00		
Foreshore stabilisation Warners Bay stage 2	\$8,000.00	\$4,000.00	\$4,000.00		
Foreshore stabilisation Warners Bay stage 3	\$75,000.00	\$18,750.00	\$56,250.00		
Stormwater / erosion works - Landcare	\$300.00	\$141.00	\$159.00		
Vegetation maintenance	\$120,000.00	\$60,000.00	\$60,000.00		
Riparian zone restoration near Balmoral boat ramp	\$22,000.00	\$10,353.00	\$11,647.00		
Contribution to design guidelines for foreshore works	\$1,000.00	\$470.50	\$529.50		
Fish habitat protection plan	\$40,000.00	\$20,000.00	\$20,000.00		
Bathing areas water quality monitoring program 2000/2001	\$29,325.00		\$26,357.00		\$2,968.00
Lake body water quality monitoring program 2000/2001	\$1,771.37		\$438.37	\$500.00	\$833.00
Integrated catchment and estuary management model for Lake Macquarie	\$35,000.00	\$17,400.00	\$14,492.86	\$3,107.14	
Wetland, riparian and littoral vegetation protection plan	\$4,471.25	\$4,471.25			
Tributary water quality monitoring program 2001	\$12,606.21	\$7,020.53	\$5,585.68		
Macroalgae surveys 2001	\$16,588.34		\$15,145.84	\$1,442.50	
Preparation of brief for forensic sediment analysis	\$600.00	\$345.00	\$255.00		
Catchment / erosion / stormwater works Gwandalan to Mannering Park	\$373,000.00	\$200,000.00		\$173,000.00	
Matching contribution to Council for Commonwealth Govt USI project	\$224,000.00		\$224,000.00		
Constructed wetland Ward Street, Blackalls Park	\$19,174.63	\$9,587.31	\$9,587.32		
Constructed wetland, Aurora Court, Warners Bay	\$8,295.18	\$3,160.17	\$5,135.01		
Constructed wetland Todd Street, Blackalls Park	\$65,872.99	\$6,986.93	\$58,886.06		
	\$1,537,092.78	\$622,609.63	\$728,446.51	\$182,235.64	\$3,801.00