



ENVIRONMENT LEVY ANNUAL REPORT

2007/2008

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Introduction

The following report provides an overview of implementation progress of Environment Levy funded projects for the financial year of 2007/08. Funds expended include those received in the 2007/08 Environment Levy budget, those funds associated with projects still underway, and grant funding.

A Working Group of the Manly Community Environment Committee set the parameters for which each project is to be reported on, which is reflected in the template provided to all Levy project managers for reporting.

Table 1 identifies current Environment Levy funded projects, their 2007/08 budgets, 2007/08 allocations and expenditure.

The 2007/08 Environment Levy (plus grants) opening revised budget was \$2,679,700, incorporating approximately:

- \$476,235 Environment Levy Carry Forwards from 2006/07
- \$580,881 unspent grant funds carried over from 2006/07
- \$560,219 of 2007/08 awarded grants
- \$1,062,365 of 2007/08 Environment Levy Allocations and anticipated interest.

(Note less interest was actually received than the above anticipated figure).

During 2007/08, Council expended \$969,318 of Environment Levy funds on Environment Levy Projects in addition to expenditure of supporting grant funds.

All projects funded under the Environment Levy are assessed against the following criteria:

- Priority issues are Urban Bushland and Water Quality;
- Selection of projects is to be consistent with the objectives of the Manly Sustainability Strategy.
- Emphasis on visible works with investigation, design, construction, supervision, linking monitoring and education with preference for upstream source and at-source management.
- Up to 10% of the levy revenue allocated to ongoing maintenance of new levy capital works projects annually.

The only staff costs charged to the Levy are either:

- a) For staff specifically employed for a Levy project, or
- b) That proportion of Bushcare staff utilised in projects agreed by the Environment Committee to be a "new environmental initiative" additional to the Council's normal operational and capital budget expenditure.

Table 1: Environment Levy Project Budgets, Allocations and Expenditure for the 2007/08 Financial Year

Project	TOTAL 07/08 BUDGET*	07/08 ALLOCATION	07/08 EXPENDITURE	VARIANCE
Burnt Bridge Creek Corridor Restoration Program	\$118,000	\$68,000	\$99,753	\$18,247
Bushland Restoration Program	\$257,000	\$167,000	\$200,566	\$56,434
Long-nosed Bandicoot Program	\$12,000	\$5,000	\$173	\$11,827
Implementation of Little Penguin Recovery Program	\$14,000	\$6,000	\$717	\$13,283
Biodiversity Conservation Strategy & Planning	\$38,000	\$18,000	\$1,079	\$36,921
Erosion & Sediment Control at Tania Park	\$25,000	\$25,000	\$0	\$25,000
Noxious Weeds Liaison	\$58,000	\$58,000	\$50,075	\$7,925
Water Cycle Management	\$67,000	\$52,000	\$61,233	\$5,767
Water Cycle Monitoring and Integrated Decision Support Tool	\$71,000	\$37,000	\$37,146	\$33,854
Sustainable Water Resources and Water Savings Action Plan Development	\$41,300	\$0	\$2,763	\$38,537
GPT and Alternate Water Source Maintenance	\$70,000	\$50,000	\$65,662	\$4,338
Implementation of the Manly Lagoon and Catchment Integrated Management Strategy	\$922,000	\$91,000	\$32,141	\$889,859
Preparation of LM Graham Masterplan	\$7,000	\$7,000	\$856	\$6,144
Coastal Environmental Projects & Clontarf/Bantry Bay Estuary Management Plan Implementation	\$160,000	\$150,000	\$119,240	\$40,760
Forty Baskets CMP/Landscape Masterplan implementation	\$43,500	\$0	\$1,040	\$42,460
Manly Harbour CMP Implementation	\$64,000	\$0	\$177	\$63,823
Little Manly CMP/Landscape Masterplan implementation	\$0	\$0	\$0	\$0
Coastal Hazard Remediation Stage 1	\$82,410	\$0	\$58,508	\$23,902
Coastal Hazard Remediation Stage 2	\$100,000	\$0	\$0	\$100,000
Cabbage Tree Bay Management Study	\$2,000	\$0	\$150	\$1,850

Project	TOTAL 07/08 BUDGET*	07/08 ALLOCATION	07/08 EXPENDITURE	VARIANCE
Education for Sustainability Program	\$95,000	\$95,000	\$88,434	\$6,566
Manly Ocean Care Day 2007	\$13,000	\$13,000	\$12,166	\$834
Sea Change for Sustainable Tourism	\$65,000	\$52,000	\$57,062	\$7,938
Manly Ambassadors	\$5,000	\$5,000	\$1,087	\$3,913
Community Garden	\$0	\$10,000	\$10,000	\$0
Hill to Harbour Tours	\$8,000	\$8,000	\$5,643	\$2,357
Stream Watch in Schools	\$1,100	\$0	\$825	\$275
Environmental Management for Sustainable Futures	\$9,000	\$9,000	\$5,625	\$3,375
MEC Cataloguing	\$2,600	\$0	\$0	\$2,600
Community Awareness of Environment Levy Projects	\$7,700	\$4,000	\$6,583	\$1,117
Environmental History Museum	\$224,000	\$0	\$0	\$224,000
Waste Education Trailer	\$15,090	\$0	\$0	\$15,090
Climate Change Risk & Adaptation Project	\$25,000	\$25,000	\$45	\$24,955
Climate Change Icon Project	\$57,000	\$0	\$0	\$57,000
	\$2,679,700		\$918,749**	

* As at start 07/08 year, includes carry forwards and grant funds received.

** The additional \$50,569 not identified against a specific project above was expended on employee costs and other expenses.

BIODIVERSITY PROGRAM REPORTS

Environment Levy



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PROJECT TITLE:	Burnt Bridge Creek Corridor Restoration Program	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): Ongoing project		
BRIEF PROJECT DESCRIPTION: Undertake Burnt Bridge Creek restoration works including: • Maintenance and continuation of stage 1 from Clontarf Street to Brook Road • Maintenance and continuation of stage 2 works from Brook Road to the Burnt Bridge Creek Road deviation • Continue primary restoration of Stage 3 works from Kitchener Street to Condamine Street • Removal of Noxious weeds as directed by the Noxious Weeds Act 1993 • Continued support and development of four Bushcare groups working along the creek • Increase the educational value of the creek and promoting Council's commitment to the restoration of the Burnt Bridge Creek Catchment. • Expand and improve the condition of remnant bushland in order to provide a carbon sink to assist Council meeting its green house gas emission targets.		
OBJECTIVES of the project:	Were they achieved explanation	
To reinstate and protect native bushland vegetation communities by using current bushland restoration techniques	Yes, ongoing project has continued to reinstate and protect bushland. Several new areas have commenced restoration ensuring progress is made	
To reduce the prevalence of noxious weed species and their ability to spread	Yes, continued ongoing bush regeneration by Council staff and contractors have targeted noxious weeds.	
To improve flora and fauna habitat	Yes, ongoing bushland restoration has continued to improve the quality of bushland and habitat. There is increased sightings and evidence of fauna including bandicoots and echidna sightings. Residents have also reported increases in birdlife.	
To maintain aesthetics and provide quality open space for community use	Yes, ongoing bushland restoration is improving the aesthetics of the creek corridor	
To undertake creek banks restoration works	Yes, ongoing revegetation works have continued to stabilize creekbanks. Sedimentation basins also constructed to reduce erosion resulting from urban runoff.	

INDICATORS:	
Indicator	Statistic
Bushland areas continue to be maintained in good condition	Increased extent of bushland restored
Bush regeneration work continues to expand along the creek corridor	Increased extent of bushland restored
The extent of stabilised creek banks increase annually	Increased extent of creek bank restored
Walking tracks are maintained in a good safe condition	Walking tracks maintained on a weekly basis
Discussion: Council's Bush Regeneration staff and Bush Regeneration Contractors have continued improving the quality of bushland along Burnt Bridge Ck. Both staff and contractors have implemented a structured bush regeneration program with timing of visits sufficient to ensure weeds are targeted prior to seeding, and areas previously worked have been maintained. Council staff have also been undertaking routine inspections of the walking track and cycle path ensuring they are kept in a tidy and safe condition.	
TBL ASSESSMENT: This project is being undertaken with regards to the principles of triple bottom line reporting; Environment: This aim of this program is to improve the environmental quality of the Burnt Bridge Ck corridor. Environmental attributes being managed include native bushland, water quality, preventing the spread of weeds, managing creek bank and soil erosion, improving flora and fauna habitat etc Social: This project has important social values. It is restoring a degraded creek corridor into a scenic community asset with recreational, scientific, and educational values. Economic: This project has important economic values through the significant focus on weed control. Environmental and noxious weeds contribute a significant cost to society, impacting on human health, agricultural lands, urban areas, and the natural environment.	
KEY OUTCOMES: • Bush regeneration works including maintenance and continuation of stage 1 from Clontarf Street to Brook Road, maintenance and continuation of stage 2 works from Brook Road to the Burnt Bridge Creek Road deviation, and continue primary restoration of Stage 3 works from Kitchener Street to Condamine Street. Also completed was strategic removal of noxious weeds. • Coral tree removal targeting the stage 3 section of creek to the west of Pitt Street • Stormwater drain outlet restoration undertaken at the Fromelles Street outlet. Works included the construction of rock armoured sediment basins, installation of culvert, construction of walking track and revegetation. • Revegetation was undertaken at multiple locations along the creek corridor. This also included a National Tree Day planting event.	
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): ➤ The Corporate Plan 2002/03 to 2005 identifies under section 5.1 Environmental Protection, the relevant sections include; 5.1.1 Beaches and waterways, 5.1.2 Pollution control and monitoring, 5.1.3 Conservation of Natural Resources, 5.1.5 Environmental Education, 5.1.7 Manly Conservation Strategy and State of Environment reports.	

- The Burnt Bridge Creek Restoration Management Plan Action Plan (1998)
 - The Manly LEP (1998) identifies environmental management in its policies and strategies in relation to landscape:
 - 4e (i), "to protect and enhance the natural and cultural landscapes throughout the Manly Council area".
- In relation to environmental heritage: 4f (i) "to promote the Manly Council area's environmental heritage and celebrate its diverse environment, including architecture, Aboriginal archaeology, industrial archaeology and landscape".

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN:

No

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

This project has been ongoing for 11 years and has produced excellent results. The last 12 months has seen a continuation and expansion of the restoration works. The major successes over the reporting period has seen the removal of a large stand of Coral trees, major weed control initiatives, and a National Tree Day planting event. A three year bush regeneration contract also concluded during the reporting period, and has yielded excellent results, allowing sections to be handed over to Council for maintenance, and new areas to be targeted in the next reporting period. Council staff have also continued the restoration of stormwater outlets and creek banks by constructing a sedimentation basin at Fromelles St, and improving the quality of walking track in this section.

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PROJECT TITLE:	Bushland Restoration Program	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): Ongoing project		
BRIEF PROJECT DESCRIPTION: This project was designed to protect and restore Council's bushland reserves. The primary focus of the project is to; • undertake bush regeneration works • Protect and restore habitat values for flora and fauna species • minimise soil erosion in bushland reserves • protect bushland from the impact of stormwater runoff • Undertake bushfire fuel reduction works and burning for ecological restoration • Collect and propagate seed from local native species for revegetation works • Maintain walking tracks through bushland reserves		

• Rabbit control	
OBJECTIVES of the project:	Were they achieved explanation
• To reinstate and protect native bushland vegetation communities by using current bushland restoration techniques	Yes, ongoing project has continued to reinstate and protect bushland. Several new areas have commenced restoration ensuring progress is made
• To reduce the prevalence of noxious weed species and their ability to spread	Yes, continued ongoing bush regeneration by Council staff and contractors have targeted noxious weeds.
• To improve flora and fauna habitat	Yes, ongoing bushland restoration has continued to improve the quality of bushland and habitat. There is increased sightings and evidence of fauna including Bandicoots and echidna sightings. Residents have also reported increases in birdlife.
• To manage bushland areas to protect against the threat of bushfire	Yes, ongoing bushfire fuel reduction was undertaken during the reporting period.
• To maintain aesthetics and provide quality open space for community use	Yes, ongoing bushland restoration is improving the aesthetics of the creek corridor
INDICATORS:	
Indicator	Statistic
Bushland areas continue to be maintained in good condition	Increased extent of bushland restored
Bush regeneration continues to expand in each bushland reserve	Increased extent of bushland regeneration in the majority of sites under restoration. Contracted sites have either been increased in area, or works completed
Fuel loading is managed in bushland areas	Sites identified as having a bushfire risk have undergone fuel reduction works.
Walking tracks are maintained in a good safe condition	Walking tracks maintained on a weekly basis
Discussion: Council's Bush Regeneration staff and Bush Regeneration Contractors have continued improving the quality of bushland within Manly. Both staff and contractors have implemented a structured bush regeneration program with timing of visits sufficient to ensure weeds are targeted prior to seeding, and areas previously worked have been maintained. Council staff have also been undertaking routine inspections of walking tracks ensuring they are kept in a tidy and safe condition.	
TBL ASSESSMENT: This project is being undertaken with regards to the principles of triple bottom line reporting; Environment: This aim of this program is to improve the environmental quality bushland within the Manly LGA. Environmental attributes being managed include native bushland, water quality, preventing the spread of weeds, managing gullies/watercourses and associated soil erosion issues, improving flora and fauna habitat etc Social: This project has important social values. It is protecting and restoring bushland areas that are a community asset with recreational, scientific, and educational values. Economic: This project has important economic values through the significant focus on weed control.	

Environmental and noxious weeds contribute a significant cost to society, impacting on human health, agricultural lands, urban areas, and the natural environment.

KEY OUTCOMES:

- Bush regeneration works including maintenance and continuation of works by contractors at MSW (Esplanade Park, Fisher Bay, and Tania Park), Seaforth Oval, and Keirle Park. Also completed was strategic removal of noxious weeds at West St Road Reserve, Seaforth Crescent and Castle Rock. This work complemented works by Council's Bush Regeneration staff working in the remainder of our bushland reserves.
- Major storm water remediation works completed at Wellings Reserve. A mini-wetland and drainage channel installed to reduce the impact of storm water runoff on this bushland reserve
- Bushfire fuel reduction work undertaken at Nolans Reserve, Bligh Park, Wellings Reserve, Baringa Bush and Heaton Ave. Note, this was a very wet year, which did prevent many fuel reduction burns from being undertaken.
- Walking track upgrade on Manly Scenic Walkway between Sandy Bay and Fisher Bay. Works included resurfacing of walking track, and installation of an elevated walkway to protect Aboriginal midden.
- Rabbit control was undertaken at Seaforth Oval and Bantry Reserve.

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

- The Corporate Plan 2002/03 to 2005 identifies under section 5.1 Environmental Protection, the relevant sections include; 5.1.1 Beaches and waterways, 5.1.2 Pollution control and monitoring, 5.1.3 Conservation of Natural Resources, 5.1.5 Environmental Education, 5.1.7 Manly Conservation Strategy and State of Environment reports
- Flora and Fauna of Manly Council's Bushland Reserves report
- The Burnt Bridge Creek Restoration Management Plan Action Plan (1998)
- The Manly LEP (1998) identifies environmental management in its policies and strategies in relation to landscape:
 - 4e (i), "to protect and enhance the natural and cultural landscapes throughout the Manly Council area".
 - In relation to environmental heritage: 4f (i) "to promote the Manly Council area's environmental heritage and celebrate its diverse environment, including architecture, Aboriginal archaeology, industrial archaeology and landscape".
- Draft Plan of Management for Seaforth Oval, Tania Park, and Keirle Park

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

The last 12 months has seen a continuation and expansion of the bushland restoration works. The major successes over the year has seen three year bush regeneration contracts at MSW, Seaforth Oval, and Noxious weeds project concluded during the reporting period. These contracts have yielded excellent results, allowing sections to be handed over to Council for maintenance, and new areas to be targeted in the next reporting period. A mini-wetland and major stormwater works has enabled a longstanding runoff issue impacting on Wellings Reserve to be resolved. Significant improvements to the walking track Between Sandy Bay and Fisher Bay have been made including the protection of an important Aboriginal cultural heritage site.



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PROJECT TITLE:	Long-nosed Bandicoot Program	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
FINANCIALS:	Years project funded: 2006/07 & 2007/08	
TARGET DATES (commenced, estimated completion etc): Funds will be added to 2008/09 funding to implement a community engagement, education, research and monitoring project.		
BRIEF PROJECT DESCRIPTION: This project concept has been developed through significant involvement in the recovery planning process for the Long-nosed Bandicoot. The project involves engaging a consultant ecologist, also experienced in community engagement, to prepare, implement and report on a community engagement project for the residential areas of 'Eastern Hill'. The project will educate residents about Long-nosed Bandicoots and how they can help protect them through appropriate property management and behaviour. It will also involve residents in the monitoring of Long-nosed Bandicoots in the residential areas providing much needed research data and also raising resident's awareness of this endangered population. The research data will be reported on in a scientific research paper and will be complimentary to existing data collected by the state Government in other areas of North Head. The project will also include a review of the DCP provisions with respect to threatened species (in particular Long-nosed Bandicoots) and a review of the current Bandicoot conditions and management measures applied by Council to DAs.		
OBJECTIVES of the project:	Were they achieved explanation	
To meet a number of Council's responsibilities for; education, monitoring and research as required by the Draft Long-nosed Bandicoot Recovery Plan. Note: once this plan is adopted, it will be a legal requirement for the actions contained and assigned to Council to be implemented by Council.	Project yet to be commenced.	
To develop, implement and report on a community; engagement, education, research and monitoring project with the overall outcome of assisting in the conservation of the Long-nosed Bandicoot population at North Head through the engagement, education and involvement of the community and rigorous scientific research and monitoring.	Project yet to be commenced.	
To provide data to fill current gaps in determining the importance of the residential area to the conservation of the Long-nosed Bandicoot population.	Project yet to be commenced.	
To be comparable with existing monitoring being undertaken by the Department of Environment and Climate Change (DECC) for	Project yet to be commenced.	

the non-residential areas of North Head.	
To ensure the requirements of Council planning controls are appropriate to the scale of development proposed and to the recovery requirements of the Long-nosed Bandicoot population. Eg: whether the current requirement for submission of an assessment of significance is appropriate for all developments east of Ashburner Road.	Project yet to be commenced.
To identify additional measures that can be taken by Council, the community and property owners to support the ongoing conservation of the bandicoot population in the residential areas of North Head in the longer term.	Project yet to be commenced.
INDICATORS:	
Indicator	Statistic
Conservation and enhancement of Manly's Endangered population of Long-nosed Bandicoots	Project not yet commenced.
Research paper identifying the relative importance of the residential areas to the recovery of the population	Project not yet commenced.
Community up-take of involvement in the project.	Project not yet commenced.
Discussion: Project not yet commenced.	
TBL ASSESSMENT: Social benefits of the project include community building through their engagement with the project and others in their area. Community education is another social benefit. Environmental benefits include further information to inform the recovery program and also better protection for the Bandicoots within the residential areas as people learn how best to manage their properties. Financial impacts are both costly (the cost of the project) and beneficial to the community. Positive financial implications may follow a review of Council's current requirements for threatened species assessments to accompany development applications and also a review of bandicoot conditions of consent – these are likely to more realistically reflect the requirements of Council and may save money for residents looking to lodge a DA.	
KEY OUTCOMES: • Council meeting its legislative requirements under threatened species legislation and the recovery program. • Raised community awareness of the endangered population of Long-nosed Bandicoots at North Head, particularly for residents of 'Eastern Hill'. • Research paper identifying how important the residential areas of 'Eastern Hill' are to the recovery of the population. • Reviewed planning requirements for DAs in the threatened species areas.	
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): <u>Manly Management Plan 2007-2010:</u> Protection of threatened species habitat and populations. (PA 5.1.1) <u>Manly Sustainability Strategy (2006)</u> C1.5.7 - The provision of consultants/specialised technical advice pertaining to biodiversity, threatened species	

management, and geotechnical issues for assessment of development (Ongoing priority); and C1.7.12 - Work with DEC to ensure protection of Manly's threatened species.

Long-nosed Bandicoot Recovery Program

The Department of Environment and Climate Change (DECC) has prepared a draft Recovery Plan for the Endangered Population of Long-nosed bandicoots at North Head (October 2008). Council has had representatives on the Bandicoot Recovery Team and has been involved in the development of the draft plan, and ongoing management activities in relation to bandicoots. The draft plan identifies management actions for which Council will be responsible for implementing, which includes the community engagement, education, research and monitoring project outlined in this report. The DECC is exhibiting the draft shortly and will request formal endorsement of the draft Recovery Plan (anticipated Feb 2008) from all relevant organisations with responsibility for implementing and funding management actions.

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: This project has been designed to meet many of Council's responsibilities under the recovery program that were previously identified in the bid.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

Project yet to be commenced.

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PROJECT TITLE:	Implementation of Little Penguin Recovery Program	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
FINANCIALS:	Years project funded: 2007/08	
TARGET DATES (commenced, estimated completion etc): All of these funds will be spent in 2008/09 largely through the construction of penguin protection barriers and signage for the Wharf and Manly Pavilion / Federation Point nesting sites.		
BRIEF PROJECT DESCRIPTION: Under the <i>Threatened Species Conservation Act 1995</i> , Council is obligated to act within the framework of the Little Penguin Recovery Plan (2000) and as a Recovery Team member Council has committed to implementing the Recovery Plan. This project is associated with the financial costs of implementation of the Recovery Program during 2007/08, which has involved: Designing penguin protection barriers and signage for the Manly Wharf and Federation Point/Manly Pavilion nesting sites, to be constructed in 2008/09, and temporary measures (temporary barriers and		

signage) to assist the penguin warden volunteers in the interim. A number of other aspects of the recovery program have also been addressed in-kind (eg: threatened species assessments and court appearances with respect to DAs, recovery team meetings, review of critical habitat etc).	
OBJECTIVES of the project:	Were they achieved explanation
To inform and educate the community of the controls and conditions relating to protection of penguins and their habitat, to encourage compliance and enforce regulations related to threatened species, emphasise the message and recruitment of the various penguin volunteer programs, and improve penguin habitat.	There has been significant consultation with the penguin warden volunteers to determine the tools required to assist them at the aforementioned breeding sites to continue to educate the public and to protect the penguins in these areas.
INDICATORS:	
Indicator	Statistic
Number of little penguins recorded	Eight little penguin fledglings were reported during the 2007/08 breeding season at the Wharf and Federation Point/Manly Pavilion nest sites. The broader monitoring program (DECC) reported an average breeding season for 2007/08.
Number of volunteers participating in Penguin Warden Program.	Numbers have remained steady / increased.
Discussion: It appears that communication between the Penguin Wardens and Council is improving through consultation measures in place. While the 07/08 Environment Levy funds have not been heavily expended in the 07/08 year, a solid project design with appropriate sign-offs has been achieved to the satisfaction of the penguin wardens, rangers, Council, NSW Maritime, DECC and Wharf Management. This will be implemented in 08/09.	
TBL ASSESSMENT:	
Social benefits of the project include education of the community and visitors about the endangered population of Little Penguins at Manly, which generates community and a sense of place. Environmental benefits of the program include protection of the breeding Little Penguins at Manly Wharf and Federation Point/ Manly Pavilion breeding sites. Financial implications of the project include significant costs associated with specially designed barriers for the penguin protection. Some coastal grant funds have been secured to support this expense. This is to compliment the cost-free service that the volunteer penguins wardens provide to the community.	
KEY OUTCOMES:	
- Penguin wardens equipped to educate the community about the Little Penguins and to help protect those penguins nesting at these breeding sites. - Council meeting its legal obligations under Threatened Species Legislation.	
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): <u>Manly Management Plan 2007 - 2010</u> Protection of threatened species habitat and populations. (PA 5.1.1) <u>Manly Sustainability Strategy (2006)</u> C 1.5.11 Implementation of Strategies outlined in the Endangered Population of Penguins at Manly Recovery Plan (NPWS)	

Little Penguin Recovery Plan (2000)

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

The Little Penguin recovery program is anticipated to continue in future years.

Challenges with respect to this bid included liaising with all relevant stakeholders and obtaining all relevant approvals for the barriers and signage, which took longer than anticipated in addition to the need to source further funding (which was obtained from a coastal grant).

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PROJECT TITLE:	Biodiversity Conservation Strategy & Planning	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): This project has not been significantly commenced due to re-prioritisation of work. It is anticipated that it will be commenced in 2009/10 financial year.		
BRIEF PROJECT DESCRIPTION: The project involves the development of a Biodiversity Conservation Strategy for Manly LGA. The Strategy will involve the development of tools, management actions and planning guidelines to ensure the protection and sustainable management of flora, fauna, habitat, linkages and threatened species, as well as addressing threats to biodiversity. The Biodiversity Strategy will also pull together existing information and measures in place to manage biodiversity across Manly.		
OBJECTIVES of the project:		Were they achieved explanation
To prepare a Biodiversity Conservation Strategy, including biodiversity mapping and identification of strategies and management actions aimed at maintaining and improving biodiversity within Manly.		Project not substantially commenced.
INDICATORS:		
Indicator	Statistic	
Completed Biodiversity Conservation Strategy adopted by Council.	Project not substantially commenced.	
Discussion:		

Project not substantially commenced.
TBL ASSESSMENT: Manly's Biodiversity has social, environmental and financial values. Through the development of Biodiversity Strategy for Manly, these values can be maintained and improved. While this will be at a financial and possibly a social cost, a TBL approach will be employed through the development of the plan to identify the most sustainable management actions and also through the implementation of the strategy.
KEY OUTCOMES: • A Biodiversity Strategy for Manly, adopted by Council. • Improved biodiversity management within Manly LGA. • Identification of key biodiversity linkages within Manly and with adjacent areas.
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): <u>Manly's Ethical Charter</u> Sustaining the environment - We will act with care and caution towards the environment, protecting the biosphere, its biodiversity, and using its resources sustainably for present and future generations. <u>Manly Management Plan (2007-2010):</u> Key Initiatives for 2007 to 2010 • Develop and implement Biodiversity Conservation Strategy <u>Manly Sustainability Strategy (2006):</u> C1.5.1 Complete a Biodiversity Strategy developed from the flora and fauna study including biodiversity mapping and implement actions identified. Includes actions to support Manly's threatened species, and Local Habitat Plans to encourage residents to support biodiversity; feral animal control including Indian Mynas. C1.5.2 Compile a comprehensive list and map the location of threatened species through the LGA, incorporate into GIS. C1.7.8 Develop strategies to address fauna "road kill" through the aforementioned Biodiversity Strategy.
DOES BID DEViate FROM ORIGINAL BID? EXPLAIN: No.
OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges. The project has not been substantially commenced. The project will be commenced in early 2009.



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PROJECT TITLE:	Erosion & Sediment Control at Tania Park	
PROJECT TYPE:	☒ NEW PROJECT	☐ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): November 2009		

BRIEF PROJECT DESCRIPTION:

Runoff from Tania Park causes a significant impact on adjacent bushland in the Dobroyd Head section of Sydney Harbour National Park. An unsealed car parking site, adjacent to Dobroyd Scenic Drive, and an eroding embankment at the edge of the Tania park oval are significant sources of sediment.

Given the cost of the overall project, it has been separated into stages. The Levy funding for 2007/08 is to be used for Stage 1, including the regrading and re-vegetation of the eroding embankment. Grant funding has been sought to also include a disabled access ramp, access stairs and seating.

Stage 2 of the works would be completed pending available funding.

OBJECTIVES of the project:	Were they achieved explanation
Preventing surface erosion and sediment run-off from Tania Park into adjacent National Park bushland and North Harbour Aquatic Reserve	Project to be completed by November 2009
Improve access from the car parking area to the playing surface of Tania Park	Project to be completed by November 2009
Extending existing vegetation along the oval boundary (adjacent embankment)	Project to be completed by November 2009
Implementation of a short term priority action within Council's Tania Park Plan of Management and associated Landscape Masterplan	Project to be completed by November 2009

INDICATORS:

Indicator	Statistic
Reduced level of sediment discharged to Sydney Harbour National Park	Project to be completed by November 2009
Improved access, aesthetics and amenity of Tania Park open space areas	Project to be completed by November 2009

Discussion:

TBL ASSESSMENT:

The social benefits of this project will include improved access from the car park to the fields, particularly for people with a disability and elderly visitors. It will also improve connection with the adjacent National Park, which is a valuable social asset for recreation.

The environmental benefits of this project include erosion and sediment control to minimise disturbance and pollution downstream in the National Park and also in North Harbour.

A portion of the funds required to complete this project have been provided through the 07/08 Environment Levy. As a result Council has been granted additional funding through the Metropolitan Greenspace program. The financial cost of this project (which addresses at-source control of pollution) will be minimal compared to the clean-up and maintenance costs of the alternative approach of addressing downstream impacts (eg: sediment capture and clean-up downstream) and also compared to the environmental costs if this project were not undertaken.

KEY OUTCOMES:

- Reduced silt and sediment run-off into the National Park

- Improved biodiversity values at Tania Park
- Improved connection between Tania Park and the National Park
- Improved access to Tania Park fields

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

Manly Management Plan 2007-2010:

Sustainable planned, as opposed to 'ad hoc' development of Council controlled open space. Improved management of open space areas including the coast, estuaries and community land. (PA 5.1.2)

Manly Sustainability Strategy (2006):

The MSS contains the objective (C1) Recognise the intrinsic value of Manly's geodiversity, biodiversity, and natural ecosystems, and protect and restore them. To achieve this objective the MSS identifies that:

"Council, working with the community, commits to the following policies and ongoing programs:

- Preparation and implementation of Plans of Management for community lands and reserves."

Tania Park Plan of Management (2004)

Tania Park Landscape Masterplan (2004)

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN:

Only a portion of the original amount requested was granted under the Environment Levy 07/08. As a result grant funding through the Sharing Sydney Harbour Access Program has been sought and the project has been divided into two stages. Overall outcomes of the works have not been changed.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

Project to be completed by November 2009

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	Noxious Weeds Liaison	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
BRIEF PROJECT DESCRIPTION: These funds were re-allocated to reserve list projects due to the position within Council dealing with noxious weeds issues being vacant.		
DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: Yes – these funds were re-allocated to reserve list projects.		

WATER CYCLE MANAGEMENT PROGRAM

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	Water Cycle Management	
PROJECT TYPE:		YES ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): Ongoing		
BRIEF PROJECT DESCRIPTION: The Water Cycle Management Team Leader seeks to manage elements of the water cycle in Manly Council to achieve an economically and environmentally sustainable supply of water, protect the values of groundwater, catchment, floodplain, and Lagoon waterways, and ensure effective and environmentally guided sewerage and wastewater disposal. The WCMTL arose to meet this need.		
OBJECTIVES of the project:	Were they achieved explanation	
structural and non-structural stormwater pollutant treatment interventions for waterway health;	Yes. Ongoing maintenance and cleaning of 24 GPT.	
major SewerFix programs (Sydney Water) to reduce the incidence of sewer overflows in the Manly Lagoon catchment and broader LGA;	Yes and ongoing. Liaise with Sydney Water and SewerFix Alliance to reduce incidence of sewer overflows.	
implementation of the Integrated Catchment Management Strategy and water cycle management aspects in the Manly Sustainability Strategy and Management Plan;	Yes and ongoing. Developed Burnt Bridge Creek Restoration program consisted of 6 catchment management and water cycle management components.	
leak auditing and water wastage minimisation;	Yes and ongoing. Engaged Planet footprint to monitor water usage of council facilities and identify water leaks.	
development and implementation of Council's mandatory Water Savings Action Plan and water conservation activities;	Yes. Water Savings Action Plan completed. Water conservation activities have been implemented.	
alternate water source development in Manly for a sustainable water supply, including harvesting and re-use of groundwater, storm water, roof water, grey water, and effluent;	Yes and ongoing. Design stormwater harvesting system for Balgowlah Golf Course. Manage the Effluent Re-use project.	

environmental water quality and quantity monitoring, licensing, risk minimisation, and management action.	Yes and ongoing. Ongoing monitoring water quality and quantity of stormwater, rainwater and bore water.
INDICATORS:	
Indicator	Statistic
Reduction in water consumption and water rates (\$), through water conservation and alternate water sourcing actions	Achieve 55% reduction of potable water consumption.
Reduction in stormwater pollution into waterways	Remove 158 tons of pollution from waterways.
Reduction in sewage ex-filtration into waterways	Completed Dry Weather Sampling Program for all beaches to investigate sewer leaks to recreational areas.
Refinement in co-ordination of integrated monitoring and assessment frameworks	Undertake Sustainable Ground Water Management Program which includes monitoring water quality and installing usage meters to monitor bore water extraction.
Reduction in flood re-occurrence and asset (stormwater pipe) replacement cost	Concept design multi-purpose water cycle features for LM Graham Reserve to reduce flood risk and achieve alternate water sourcing. Review the NSW Floodplain Risk and Council's Flood policies.
Maintenance of service delivery under water restrictions where water is required through alternate water sourcing	Monitor water quality and extraction quantity on all Council's stormwater and groundwater harvesting/ extraction sources. Save more than 30 ML potable water.
Additional external resources (grant and levy funds) available to implement water cycle management works	Develop Burnt Bridge Creek Restoration program (to apply for \$2M Urban Sustainability Program grant at a later stage).
Successful implementation of major projects including Lagoon remediation, water recycling	Completed <i>Additional Sediment Sampling and Testing for Sites 1 and 2.</i>
Discussion: - Stormwater management within Manly receives the targeted and proactive attention to achieve community values of health for Manly's waterways (Stormwater Management Plans, 1999). - Sewage ex-filtration within the Manly Lagoon catchment and Manly LGA will receive necessary attention, to achieve values of health for Manly's Waterways - With alternate water sourcing in times of water restrictions and critical water supplies, Council's ovals and parklands will prevent from deteriorating and posing an erosion and sedimentation and OHS risk. Moreover, the cost of maintaining and replacing turf and aging and faulty infrastructure will continue to burgeon. [Existing projects also cannot continue without monitoring quality and quantity parameters for environmental health / risk and human health compliance of alternate water sources by WCMTL.] - Current major projects for Manly Lagoon and floodplain for which grant funds (\$690,000) have been received; and for North Head Effluent Re-use for which grant funds (\$1.6million) have been awarded will adequately be completed with sufficient staff resources at Council to proceed. - With on-ground WCM demonstration projects to develop Council's understanding of pollutant	

prevention and sustainable water re-use / on-use, Manly community and Council acceptance of innovative and integrated projects will not be limited.
TBL ASSESSMENT: Environment: Water cycle Management aims to protect the values of groundwater, catchment, floodplain, and Lagoon waterways, and ensure effective and environmentally guided sewerage and wastewater disposal. The works aims to achieve a sustainable environment. Financial: Current major projects for Manly Lagoon and floodplain for which grant funds (\$690,000) have been received; and for North Head Effluent Re-use for which grant funds (\$1.6million) have been awarded will adequately be completed with sufficient staff resources at Council to proceed. Council achieve 55% reduction of potable water consumption, equivalent to \$170,000 a year. Social: Stormwater management within Manly receives the targeted and proactive attention to achieve community values of health for Manly's waterways.
KEY OUTCOMES: • 100% of the bid goes to the salary of the Water Cycle Management Team leader • Manage the Water Cycle Management Team and projects • Manage all issues relating catchment management, floodplain risk management, water cycle management, alternate water sourcing and Sewer leak Reduction • Develop Burnt Bridge Creek Restoration program (with 6 integrated water cycle management components, which attracts \$2M Urban Sustainability Program grant) • Develop Sustainable Ground Water Management Program • Develop Dry Weather Sampling Program for all beaches • Develop Water Saving Action Plan • Achieve 55% reduction of potable water consumption
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): Manly Council Management Plan (2006-2009): 2.3.1 Environmental Planning, 4.1.2 Drainage and Flooding, 4.1.3 Manly Lagoon Management, 4.4.6 Special Environmental Projects, 5.1.2 Beaches and Waterways, 5.1.3 Pollution Control Monitoring, 5.1.4 Conservation of Natural Resources Manly Sustainability Strategy (2006): C.1.1 Protecting our Water Cycle and Catchments program, C.1.3 Coastline and Estuary Management Program, C.2.1 Water Cycle Management Program, F.1.2 Research and Development for Sustainability, F.1.3 Addressing, Measuring, and Reporting on Sustainability. Manly Council Education for Sustainability Strategy (2003) Other relevant plans: Manly Council • Integrated Catchment Management Strategy (2004) • Manly Lagoon Estuary and Floodplain Management Plans (1998) • On-site Stormwater Management Plan (2003)
DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No
OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid

be continued? Opportunities and Challenges.

The Water Cycle Management Team Leader seeks to manage elements of the water cycle in Manly Council to achieve an economically and environmentally sustainable supply of water, protect the values of groundwater, catchment, floodplain, and Lagoon waterways, and ensure effective and environmentally guided sewerage and wastewater disposal. The WCMTL arose to meet this need. This bid will be continued.

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	Water Cycle Monitoring and Integrated Decision Support Tool	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): ongoing		
BRIEF PROJECT DESCRIPTION: Council now has an integrated water quality and quantity monitoring program for understanding and managing Manly's water cycle to increase the extent to which Council operates sustainability within local water supplies and systems. This bid relates to funding for this key water quality and quantity monitoring program. Objectives of the water cycle monitoring program in Manly are twofold: (1) The monitoring program informs management actions so past and present impacts on Manly's water cycle elements can be reversed, current impacts can be minimised, human health and environmental risks can be minimised, and all future land use and management decisions impacting on the water cycle can be informed by monitoring of water quality and quantity. Water cycle elements impacted through past and present actions include: groundwater (extraction and interception / quality decrease through contamination), stormwater (increase in volume and conveyance / decrease in quality), grey water (discharge into groundwater decreasing groundwater quality), sewage (ex-filtration into waterways), and Lagoon and floodplain (flooding / eutrophication increase / quality decrease) (2) This monitoring program also assists in determining the most appropriate treatment and management practices to ensure that risks associated with the use of <i>alternate water sources</i> (such as groundwater, stormwater, roofwater, grey water, and effluent) for end-uses in public open spaces are controlled, minimised, and pollutant levels compliant with end-use purposes. Alternate water sources are currently used for a wide range of purposes in Manly including irrigation, cleansing, high		

pressure cleaning and other activities.

The monitoring program considers a host of pollutants, time and space, and quantitative and qualitative factors. The benefits derived from this program inform a wide variety of Council's activities, relating to both preservation of healthy waterways (environmental management) and alternate water sourcing and local re-use. The ongoing program seeks to incorporate all data to facilitate agreed upon objectives between organisations with a stake in the management of key waterways and alternate water sourcing projects.

OBJECTIVES of the project:	Were they achieved explanation
Installation and operation of water quality and quantity monitoring equipment for groundwater, stormwater, grey water, sewage, and Lagoon	Groundwater – Yes (ongoing) Stormwater – Carried forward (limited/ongoing) Grey water – Awaiting potential systems Sewage – Yes (ongoing) Manly Lagoon – Carried forward (limited/ongoing)
Reporting on monitoring findings quarterly and at relevant committees	Groundwater – Yes (ongoing) Stormwater – Yes (ongoing) Grey water – Yes (ongoing) Sewage – Yes (ongoing) Manly Lagoon – Yes (ongoing)
Evaluate Council actions and adapt accordingly (considering seasonal valuations) – adaptive management	Yes. New management policies continually adapted in response to water quality responses
Incorporate data into common database and established triggers against relevant guidelines	Yes. Ongoing, and to be linked with Council organisational Geographical Information System
Re-assess monitoring framework and adapt monitoring accordingly for best practice	Yes. Ongoing

INDICATORS:

Indicator	Statistic
Data collection, database systems establishment, communication, and integration into management procedures and systems, ongoing improvement	Data collection, database systems establishment, communication, and integration into management procedures and systems, ongoing improvement

Discussion:

The following aspects of the program were implemented in the 2007/08 year:

- Bores / Groundwater: Improved monitoring regimes, systems, and equipment established for monitoring of Council's irrigation bores to ensure sustainable usage from each site.
- Sewage ex-filtration: an improved wet weather and dry weather sewage ex-filtration program encompassing a greater monitoring capacity was established.

For the following aspects of the program, some components were carried forward to the following year, resulting in reduced expenditure:

- Stormwater: It was anticipated to purchase a suite of stormwater automated sampling stations, to monitor stormwater from prioritised pollutant load generating catchments, to continue six years of stormwater monitoring which has previously used stormwater sampling stations sponsored by a University. However, during the 2007/08 year, existing sampling stations and external laboratory resources were instead utilised, resulting in reduced expenditure.

- **Manly Lagoon: Real Time Monitoring System Installation:** A joint partnership between Manly and Warringah Council's was anticipated to result in agreement to purchase and install real-time monitoring probes within Manly Lagoon at strategic points to measure Lagoon responses to catchment conditions. Procurement of this equipment was carried forward to the following year, resulting in reduced expenditure on water sample analysis.

TBL ASSESSMENT:

Environment: The water monitoring program informs the environmental condition of Manly's waterways and water re-use schemes in response to strategic decision making and ongoing pressures from urban development. As such, it is an essential tool in environmental restoration and management.

Financial: The water monitoring program is structured to maximise the cost benefit of water quality monitoring through maximising the extent to which sample analysis is conducted internally by trained Council officers (for example through use of specialised water quality probes and sample storage), rather than outsourcing these costs. The program ensures the safe operation of water re-use schemes (alternate water sourcing) which contribute to substantial Council cost savings in potable water use.

Social: The water monitoring program ensures the safe environmental operation of re-use schemes and tracks environmental improvement in waterways in response to strategic decision making.

KEY OUTCOMES:

18% of expenditure was expended on installation of critical monitoring equipment, meters, and consultancy related to rainwater and water use - *in various buildings, SLSCs, and facilities.*

23% of expenditure was expended on installation of critical monitoring equipment, meters, and consultancy related to groundwater, stormwater, and rainwater use – *in irrigation.*

18% of expenditure was expended on Manly Lagoon water level monitoring

23% of expenditure related to direct water quality monitoring consultancy of specific groundwater and stormwater projects

Other expenditure included annual groundwater licences from the NSW Government and sampling equipment costs.

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

Manly Council Management Plan (2006-2009): 2.3.1 Environmental Planning, 4.1.2 Drainage and Flooding, 4.1.3 Manly Lagoon Management, 5.1.2 Beaches and Waterways, 5.1.3 Pollution Control Monitoring, 5.1.4 Conservation of Natural Resources

Manly Sustainability Strategy (2006): C.1.1 Protecting our Water Cycle and Catchments program, C.1.3 Coastline and Estuary Management Program, C.2.1 Water Cycle Management Program

Manly Council Education for Sustainability Strategy (2003).

Other relevant plans:

Manly Council

- Integrated Catchment Management Strategy (2004)
- Manly Lagoon Estuary and Floodplain Management Plans (1998)
- On-site Stormwater Management Plan (2003)

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

The bid is an essential ongoing bid in the short, medium and long term, given the importance of water to the Manly community.

Without the water cycle monitoring program, there exists a significant risk to groundwater sources, surface waters, and pollution of waterway's from current urban activities in the Manly LGA.

Further, without regular alternate water sourcing monitoring, unmanaged risks from Council's numerous alternate water sourcing programs could make such cost saving programs unviable.

Further, without water cycle monitoring there exists the possibility of poor allocation of funds and lack of benefit from water cycle treatment interventions through management actions remaining independent from demonstrated on-ground outcomes. Little evaluation will occur of Council's progress towards ecosystem health and primary contact guidelines.

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	Sustainable Water Resources and Water Savings Action Plan Development	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
Project is ongoing and essential. Council is required by NSW legislation to complete a Water Savings Action Plan, with annual progress reports in water savings implementation submitted to the NSW Department of Environment and Climate Change, and the plan updated every four years. Implementation of individual water savings measures is a decision of Council. These are now being implemented based on a ranking of payback period for water savings and cost-effectiveness.		
BRIEF PROJECT DESCRIPTION:		
Sustainable Water Resources As a result of climate change and the water shortage crisis, Sydney Water restrictions have reduced Council's ability to maintain essential services including parks, ovals and garden irrigation in addition		

to waste and cleansing services. Simultaneously, available water resources in other elements of the water cycle including stormwater, roofwater, groundwater, grey water, and effluent remain prodigious. Other elements of the water cycle are thus becoming seen as resources for re-use (rather than waste products) to live in a sustainable manner within available local water supply. These exists considerable synergies between Council objectives in supplementing restricted town-water supplies; and managing alternate water supplies. This is through the harvesting, treating, and on-use of stormwater, roofwater, groundwater, grey water, and effluent.

Water Savings Action Plan Development

Additionally, to combat the water shortage crisis, in 2005 the NSW Government passed legislation (Water Savings Order) requiring all local councils to prepare a mandatory Water Savings Action Plan to outline how it plans to cut town-water consumption, including reporting on the above local Sustainable Water Resources development.

This budget bid continues to fund the roll-out of water savings actions and alternate water source development in new sites in the Manly LGA, and compilation of actions into Manly's mandatory Water Savings Action Plan, with implementation based on a ranking of the payback period of water savings, and cost-effectiveness. These actions will further reduce drinking water consumption, save Council money, ensure compliance with Water restrictions and NSW Government legislation, and increase the sustainability of Manly.

OBJECTIVES of the project:	Were they achieved explanation
Implementation of sustainable water resourcing schemes (groundwater re-use, stormwater harvesting, rainwater tanks)	Yes – Ongoing
Completion of Council's First Water Saving Action Plan (2007/08 – 2012/13) and approval by the NSW Government	Yes – Plan completed and approved by the Minister for Climate Change, Water, and the Environment on 27 June 2008.
INDICATORS:	
Indicator	Statistic
Reduction in Council potable water consumption (KL/year)	Council Potable Water Consumption in 2007/08 was 79.2 million litres (55% lower than 2000/01 consumption; 17% of which of this reduction occurred in 2007/08).
Reduction in Council water bills	The reduction in potable water consumption between 2000/01 and 2007/08 represents a saving to Council on potable water bills of \$170,000/year ongoing.
Discussion: The Sustainable Water Resources and development of the Water Savings Action Plan represent best practice water management in Australia by Manly Council. Council was been recognised in March 2008 in a Water Management audit conducted by Sydney Water, which ranked Council's water conservation and management capacity within Sydney's Top 7 Councils. Council's Water Savings Action Plan 2007/08 – 2012/13 was written entirely in-house rather than by a	

consultancy. This provided substantial benefits including cost savings, streamlined allocation of internal responsibility, as well as institutional awareness of water savings opportunities amongst Council staff, and senior management. Council is now working to implement cost-effective savings measures within the Water Savings Action Plan on an ongoing basis.

TBL ASSESSMENT:

Environment: Development of sustainable alternate water sources and Water Savings Action Plan (WSAP) implementation reduces Council reliance on Sydney dam-supplies, and exposure to water restrictions. Use of local stormwater, groundwater, and rain water improves the extent to which Council lives within the local water cycle, and ensures year-round green parks and reserves not subject to water restrictions.

Financial: Development of sustainable alternate water supplies provides significant long term cost savings to Manly Council. Existing water savings have achieved reductions in potable water use of 55% and have secured cost savings in potable water bills of \$170,000/year ongoing. Additionally, many actions identified in Council's Water Savings Action Plan, have payback periods of less than 3 years.

Social: Development of sustainable alternate water sources and Water Savings Action Plan implementation ensure green parks and reserves year round, not subject to water restrictions. They also provide substantial opportunity to encourage community adoption of sustainable water management options.

KEY OUTCOMES:

Council's Water Savings Action Plan 2007/08 – 2012/13 was written entirely in-house rather than by a consultancy. This provided substantial benefits including cost savings, and allocation of internal responsibility, as well as institutional awareness of water savings opportunities amongst Council staff.

Expenditure that did occur was used to purchase rainwater tanks for oval irrigation, and undertake a water consumption monitoring contract.

Carry forward funds (cost savings) will be reallocated to directly implement individual water savings measures identified in Council's Water Savings Action Plan, based on ranking of payback period and cost effectiveness. Additionally, provision of environment levy funding provides additional opportunities to apply for state and federal government grant funding to further expand and value-add to the program.

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

Manly Council Management Plan (2006-2009): 4.2.1 Buildings and Facilities, 4.4.6 Special Environmental Projects, 5.1.2 Beaches and Waterways, 5.1.4 Conservation of Natural Resources

Manly Sustainability Strategy (2006): C.1.1 Protecting our Water Cycle and Catchments program, C.2.1 Water Cycle Management Program

Manly Council Education for Sustainability Strategy (2003).

Other relevant plans:

Manly Council

- Integrated Catchment Management Strategy (2004)
- Manly Lagoon Estuary and Floodplain Management Plans (1998)
- On-site Stormwater Management Plan (2003)

State and Federal Government

- Water Savings Order (NSW Government)

- 2006 Metropolitan Water Plan
- Sydney Water Restrictions (Level III)

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

The bid is an essential ongoing bid in the short, medium and long term, to achieve financial, environmental, and social benefits through alternate water sourcing and water savings given the importance of environmental sustainability and green parks and reserves to the Manly community.

Substantial achievements to date include a 55% reduction in Council's potable water consumption.

Existing Council sites to which sustainable alternate water resources (harvested stormwater, groundwater, or rainwater use) have already been implemented include:

- Ivanhoe Park
- LM Grahams
- Manly Swim Centre Gardens
- West Esplanade
- East Esplanade
- Clontarf Reserve
- Mobile Irrigation Tankers
- Manly Ocean Beachfront
- Manly Council Depot
- Keirle Park
- Seaforth Oval
- Manly Corso
- Cleansing and sweeping vehicles

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	GPT and Alternate Water Source Maintenance	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
Project is ongoing and essential. Council resolution allows up to 10% of the Environment Levy to be allocated to maintenance annually (\$94,600)		
BRIEF PROJECT DESCRIPTION:		
GPTs maintenance: Scientific research conducted in Manly has demonstrated Council's GPT, litter boom, and litter net maintenance program to prevent approximately 110,000 kg of sediment and gross litter, more than 700 kg of concentrated nutrients (TN and TP), and more than 80 kg of Zinc and other metals derived from catchment land uses annually from entering Manly's waterways, including		

Burnt Bridge Creek and Manly Lagoon. This prevents up to 2.4 tonnes of resultant algal growth in these waterways, and substantial environmental damage from sedimentation, eutrophication, and acute and chronic toxicity. This program funds the maintenance of these pollutant prevention activities.

Alternate water source maintenance: The uptake of sustainable alternate water sources (harvesting and re-use of stormwater, groundwater, grey water, rainwater, and effluent; capital works funded through another environment levy program) has contributed to Manly Council reducing its town-water consumption by 55% between 2000/01-2007/08; the preservation of green open spaces (irrigation unrestricted by Sydney Water restrictions); and the establishment of an increasingly water-wise community. Alternate water sources are now used in 2007 for a wide host of functions including irrigation of much of Manly's open spaces, in street sweeping vehicles, in mobile irrigation tankers, in high pressure cleaning of public spaces, and a host of other functions. Ongoing operational and maintenance costs of these programs, including periodic maintenance, de-sludging, replacement, repair, and upgrade, to maintain system integrity and the achievements described, of pumps, tanks, connection points, housing, and electrical connections associated with these programs, require maintenance funds. Such maintenance funds for existing capital programs are drawn from this levy bid.

OBJECTIVES of the project:	Were they achieved explanation
Prevention of stormwater pollution to waterways by maintaining Gross Pollutant Traps (GPTs)	Yes - Ongoing
Maintenance of alternate water source systems (stormwater, groundwater, and rainwater reuse systems)	Yes – Ongoing
INDICATORS:	
Indicator	Statistic
Volume of pollutant prevented from entering waterways	158 tonnes captured/prevented in 2007/08 year
Alternate water source systems maintained	Systems maintained, providing ongoing substantial potable water savings and financial savings in potable water to Council
Discussion: GPTs maintenance: The cleansing/maintenance contractor responsible for cleansing works associated with all GPTs provides an annual report for all Council GPTs, detailing load removed, issues with each device, and other performance aspects. Figures are recorded for GPT performance, and monitoring and inspections regularly undertaken to ensure the best performance of each individual GPT is achieved. Alternate water source maintenance: All alternate water sourcing projects continue to operate within standard conditions as a result of periodic ongoing maintenance in repair or replacement of pumps, tanks, and other works.	
TBL ASSESSMENT:	
Environment: The Gross Pollutant Trap (GPT) program reduces wet weather stormwater pollution to	

waterways, improving environmental quality. Maintenance of existing capital alternate water source systems ensures reduction in use of Sydney dam supplies for use of non-potable purposes, including use of local stormwater, groundwater, and rainwater sources to live within the local water cycle. Financial: The GPT program is cost effective and reduces the need for more costly down-stream waterway rehabilitation and dredging activities (for example of Manly Lagoon sands), through upstream pollution capture and control. Maintenance of alternate water sourcing systems ensures annual potable water savings of in excess of \$170,000/year on Sydney Water rates through substitution of potable water with alternate supplies. Social: The GPT program improves water quality and social amenity in Manly's numerous waterways. Maintenance of alternate water source systems ensures green ovals and reserves for social use, and irrigation not subject to water restrictions.
KEY OUTCOMES: 79% of expenditure was expended on direct GPT maintenance during the period. 21% of expenditure was expended on maintenance activities for the alternate water sourcing program, and monitoring work for both programs.
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): Manly Council Management Plan (2006-2009): 4.1.2 Drainage and Flooding, 4.1.3 Manly Lagoon Management, 5.1.2 Beaches and Waterways, 5.1.3 Pollution Control Monitoring, 5.1.4 Conservation of Natural Resources, 5.3.1 Waste, 5.3.4 Cleansing Manly Sustainability Strategy (2006): C.1.1 Protecting our Water Cycle and Catchments program, C.1.3 Coastline and Estuary Management Program, C.2.1 Water Cycle Management Program Manly Council Education for Sustainability Strategy (2003) Other relevant plans: Manly Council • Integrated Catchment Management Strategy (2004) • Manly Lagoon Estuary and Floodplain Management Plans (1998) State and Federal Government • Sydney Harbour Catchment Blueprint (2003) • Sydney Middle Harbour Stormwater Management Plan (1999); reviewed 2002 • Sydney Northern Beaches Stormwater Management Plan (1999) • DEC: Managing Urban Stormwater (2004).
DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No
OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges. The bid is an essential ongoing bid in the short, medium and long term, to maintain existing capital projects and achieve environmental, financial, and social benefits in water quality and alternate

water sourcing for the Manly community.

In total there exists 16 GPTs, 4 booms, and 5 net devices. If existing GPTs (and litter booms and nets) are not maintained, results will include the anaerobic decomposition of current stored loads, the conveyance of all future pollutant loads (see above for annual loads in kg) directly into waterways as all GPTs will fill and additional loads will by-pass the traps (including onto Manly Ocean Beach via the Steinton St Pipe, Burnt Bridge Creek and Manly Lagoon), with modification to the hydraulic conductivity of Council's stormwater conveyance system also possible due to blockages. This will contribute to the degradation of Manly's waterways.

If existing alternate water sources are not maintained, this will result in periodic pump/tank/system failure, dramatically reducing available water supplies for irrigation of much of Manly's open spaces, water available to street sweeping and high pressure cleaning, and a host of other functions, until maintenance / repair funds do become available. Water volumes available for these end-users would revert back to higher town-water volumes used prior to alternate water source development. It will also result in sludge and pollutant build up in tanks, threatening water quality, and limiting capacity for Council to commit to taking on any new alternate water sourcing projects. It would contribute to the dieback of Manly's green spaces, and also increased cost to Council (up to \$170,000 / year ongoing greater, based on previous potable-water volumes used in 2000/01).

LAGOON CONSERVATION & REMEDIATION PROGRAM

Environment Levy



ANNUAL REPORT 07/08

PROJECT TITLE:	Implementation of the Manly Lagoon and Catchment Integrated Catchment Management Strategy & Manly Lagoon Rehabilitation Works	
PROJECT TYPE:		YES ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
Ongoing program subject to ongoing partnership with Warringah Council and availability of DECC Estuary Management Fund		
BRIEF PROJECT DESCRIPTION: Implementation of the Manly Lagoon Rehabilitation Works in line with those identified in the Manly Lagoon Floodplain Management Plan and Manly Lagoon Estuary Management Plan and implementation of high priority actions outlined in the Manly Lagoon & Catchment Integrated Catchment Management Strategy. Grant funding to the amount of \$240,000, \$350,000 and \$100,000 has been received under the Department of Natural Resources' Estuary Management Program for the implementation of the Manly Lagoon Rehabilitation Works and priority actions outlined in the Manly Lagoon & Catchment Integrated Catchment Management Strategy (2004). Funds sort under Levy funding are required to match DNR's grant contribution, to secure current required funds, and cover anticipated costs associated with dredging and remedial works at Sites 1, 2 and 3 (work anticipated to be undertaken in 2007/08 financial year with associated Addiscombe Road remediation). Funds requested in this bid include: - Funds required to match DNR Grants, and replacement funds for unexpected and excess funds required to dispose of Manly Lagoon Site 5 dredging material in 2006 (\$150,000) - Funds required to match Warringah Council in Site 3 remediation (project management costs not previously budgeted). (\$50,000).		
OBJECTIVES of the project:	Were they achieved explanation	

Implementation of the Manly Lagoon Rehabilitation Works sites 1 and 2	ongoing
Implementation of the Manly Lagoon Rehabilitation Works site 3	ongoing
INDICATORS:	
Indicator	Statistic
Flood mitigation, Tidal exchange, Ecosystem Health Improvements, Water quality improvement and Total Catchment Management	Specific actions outlined in the ML&C ICMS for implementation include the following: - Targeted education & regulation - Monitoring & evaluation - Catchment Cleansing - At-source prevention measures - Gross pollutant interception & rain water tank installation - In stream dredging and remedial works for removal of contaminated sediment from Manly Lagoon
Discussion: Guided by the NSW Government's Estuary Management Manual 1990, and Floodplain Management Manual, which outlines a structured management process leading to the adoption and implementation of such local Management Plan, Council continues to implement high priority projects outlined in the ML&C ICMS and the Manly Lagoon Rehabilitation works. Implementation of the Manly Lagoon Rehabilitation Works will: - Improve water quality - Reduce flooding - Improve tidal exchange between the lagoon and ocean; - Remove restrictions to fish passage; - Avoid continued sand migration upstream smothering aquatic vegetation. Specific actions outlined in the ML&C ICMS for implementation include but are not limited to the following: - Targeted education & regulation - Monitoring & evaluation - Catchment Cleansing - At-source prevention measures - Gross pollutant interception & rain water tank installation - In stream dredging and remedial works for removal of contaminated sediment from Manly Lagoon	
TBL ASSESSMENT: Environmental: Implementation of the Manly Lagoon Rehabilitation Works will: - Improve water quality - Reduce flooding - Improve tidal exchange between the lagoon and ocean; - Remove restrictions to fish passage; - Avoid continued sand migration upstream smothering aquatic vegetation. Financial: Grant funding to the amount of \$240,000, \$350,000 and \$100,000 has been received under the Department of Natural Resources' Estuary Management Program for the implementation of the Manly Lagoon Rehabilitation Works and priority actions outlined in the Manly Lagoon & Catchment	

Integrated Catchment Management Strategy (2004).

Funds sort under Levy funding are required to match DNR's grant contribution, to secure current required funds, and cover anticipated costs associated with dredging and remedial works at Sites 1, 2 and 3

Matching funds and anticipated funds required are allocated to this project, resulting in improvement in ecosystem health and amenity in Manly Lagoon for the entire Manly LGA.

Social: The members of Manly Lagoon Catchment Consultative Committee meet quarterly to consult the progress of Manly Rehabilitation Works. Community representatives have expressed their views strongly on the progress Manly Rehabilitation Works. It is anticipated that the Manly and Warringah communities would welcome to see considerable improvements to the Lagoon environment.

KEY OUTCOMES:

100% of expenditure has been expended on scientific study for Manly Lagoon Rehab Work sites 1 and 2 project. *Manly Lagoon Rehab Works Sediment Removal from sites 1 and 2 Additional Sediment Sampling and Testing* has been completed.

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

Manly Council Management Plan (2006-2009): 3.2.3 Recreation and Leisure, 4.1.2 Drainage and Flooding, 4.1.3 Manly Lagoon Management, 4.1.4 Emergency Services, 5.1.2 Beaches and Waterways, 5.1.3 Pollution Control Monitoring, 5.1.4 Conservation of Natural Resources

Manly Sustainability Strategy (2006): C.1.1 Protecting our Water Cycle and Catchments program, C.1.2 Sustainable Marine Environments, C.1.3 Coastline and Estuary Management Program

Other relevant plans:

Manly Council

- Integrated Catchment Management Strategy (2004)
- Manly Lagoon Estuary and Floodplain Management Plans (1998)
- On-site Stormwater Management Plan (2003)

State and Federal Government

- Sydney Northern Beaches Stormwater Management Plan (1999)
- DEC: Managing Urban Stormwater (2004).

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

At the advice of DNR, Council is to undertake the implementation of Estuary and Floodplain in order to satisfy best management practice, to meet statutory obligations and to secure future funding.

Ongoing implementation of these adopted Plans in partnership with Warringah Council will provide Council, community and stakeholders with a balance that satisfies community and user group needs within the study Sites, while satisfying Council obligations.

By undertaking these works Council is complying with the Estuary and Floodplain Management Program and meeting partnership agreements with Warringah Council. Grant funds will be continued if matching funds and anticipated funds required are allocated to this project, resulting in improvement in ecosystem health and amenity in Manly Lagoon for the entire Manly LGA.

This bid will be continued.

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	Preparation of LM Graham Masterplan	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
Masterplan has been commenced and is in draft form. Anticipated draft completion by June 2009.		
BRIEF PROJECT DESCRIPTION: Development of a Masterplan for LM Graham Reserve to provide a strategic approach to planning, management and upgrades of this community facility. Including extensive community consultation, Council community committee to provide input, staff involvement, completion of historical search and environmental constraints report. The Masterplan will identify a prioritised list of actions required to effectively manage and improve the reserve and improve connection with the Swim Centre and Roundhouse Childcare facilities.		
OBJECTIVES of the project:	Were they achieved explanation	
To develop a sustainable long-term management strategy for the reserve that is consistent with the existing Plan of Management, current best practice and will meet existing and future community needs with respect to this area.	Project has not been completed.	
INDICATORS:		
Indicator	Statistic	
LM Graham Masterplan adopted by Council	Project has not been completed	
Discussion: The Masterplan is in draft form. Project completion is therefore anticipated to be June 2009 subject to committee re-establishment process timeframe.		

TBL ASSESSMENT:

A TBL assessment has been undertaken to inform the preparation of the Masterplan, which will consider all social, environmental and financial aspects and implications. The Masterplan will aim to address social and environmental consideration in a cost-effective way.

KEY OUTCOMES:

Adopted LM Graham Landscape Masterplan ready for active implementation (subject to funding).

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):Manly Management Plan 2007-2010:

Sustainable planned, as opposed to 'ad hoc' development of Council controlled open space. Improved management of open space areas including the coast, estuaries and community land. (PA 5.1.2)

Manly Sustainability Strategy (2006):

The MSS contains the objective (C1) Recognise the intrinsic value of Manly's geodiversity, biodiversity, and natural ecosystems, and protect and restore them. To achieve this objective the MSS identifies that:

"Council, working with the community, commits to the following policies and ongoing programs:

- Preparation and implementation of Plans of Management for community lands and reserves."

LM Graham Plan of Management (1996):

Identified throughout the document that a Masterplan should be produced.

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

The project is progressing well although slower than anticipated. It is anticipated a draft will be completed by June 2009.

COASTLINE MANAGEMENT PROGRAM

Environment Levy



ANNUAL REPORT 2007/2008

PROJECT TITLE:	Coastal Environmental Projects	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
1. Development of draft Manly Cove CMP (May 2008) 2. Adoption of Manly Ocean Beach CMP (Feb 2008) 3. Implementation of Manly Ocean Beach CMP/EAP - Trial of preferred Emergency Protection Measures (June 2008) 4. Implementation of Cabbage Tree Bay Management Plan - Establishment of and participation in DECC Working Group (Jan 2008) - Assist in the development of the DECC Aquatic Management Plan (Jan 2008) 5. Implementation of Little Manly Cove Coastal Management Plan (Ongoing) 6. Implementation of Forty Baskets Coastal Management Plan (Ongoing) 7. Oversee and assist in development of Clontarf/Bantry Bay Estuary Management Plan (May 2008) 8. Remediation and monitoring of Coastal hazards and climate change (inc management issues) 9. Advise on Boat Ramps, Foreshore pools & Swimming Enclosures (Ongoing)		
BRIEF PROJECT DESCRIPTION:		
The position is a key member of Council's Natural Resources Team, a dedicated group of environmental scientists responsible for planning, education, management and carrying out of special projects for the conservation of Manly's natural environment and sustainability issues. This project enables Council to complete identified scientific research projects, develop educational material, to play a key role in scientific networking and information transfer as well as implement best practice on ground outcomes. The bid essentially funds the position of Coastal Management Team Leader, which focuses on coastal zone planning and management and related conservation projects funded by Council's Environmental		

Levy. The role of the Coastal Management Team Leader is:

- To promote the protection and rehabilitation of the coastal zone environment through facilitating the development of the remaining Coastline Management Plans.
- To guide and carry out the implementation of the Little Manly, Forty Baskets and Cabbage Tree Bay Coastline Management Plans, and other Plans associated with coastal zone management as they are adopted by Council.
- To guide the development and implementation of the Manly Ocean Beach, Manly Cove and North Harbour CMPs.

To carry out tasks relating to coastal zone management and Environmental Levy projects as directed.

OBJECTIVES of the project:	Were they achieved explanation
To promote the protection and rehabilitation of the coastal zone environment through facilitating the development of the remaining Coastline Management Plans.	Yes, although ensuring a balance between human interaction and use of our foreshores with the natural environment is always a challenge. The development of CMP/EMPs and technical advice provided by the Coastal management Team Leader provide a mix of planning, education, compliance and on the ground improvements for natural coastal and estuarine ecological environments.
To guide and carry out the implementation of the Little Manly, Forty Baskets and Cabbage Tree Bay Coastline Management Plans, and other Plans associated with coastal zone management as they are adopted by Council.	Yes. Staged implementation of the adopted CMP's continues in line with budget availability and identified community need.
To guide the development and implementation of the Manly Ocean Beach, Manly Cove and North Harbour CMPs.	Yes. Manly Ocean Beach CMP (& Emergency Action Plan for Coastal Erosion) was finalised, exhibited and adopted within the identified timeframe. Manly Cove and North Harbour CMPs continue to be developed with considerable progress made during the 2007/08 year.
INDICATORS:	
Indicator	Statistic
Increased awareness of coastal management issues facing Manly LGA	-
Increased protection of property and life from	Sought design & cost estimates for 5 high priority

coastal hazards/processes	hazards. Planning for implementation of works at Delwood and Fairlight Beaches. Works delayed through resource issues for engineers.
Overall success in acquiring grant funding	Multitude of existing grants and associated work load reduced need for additional grants. Application submitted under SSHAP for Manly Yacht Club access (yet to be announced). Successful in grant application for Clontarf/Sandy Bay sediment transport and foreshore stability study'.
Community, visitor and peer satisfaction and balanced usage of coastal open space	Feedback to Council complimentary of process undertaken in coastal and estuarine issues based management planning.
Increased utilisation rates	-
Improved community, stakeholder and government liaison	-
Discussion: The Coastline Management Plan's are intended to provide a strategic plan for each study area with a long-term time frame of 10-20 years (with appropriate revisions). Implementation of the CMP's will involve considerable expenditure and therefore implementation must have regard to resource availability and to other priorities of Council and the other agencies identified in the Action Plan. These documents assist Council in ensuring holistic management for the specific areas which address interconnected, aquatic & terrestrial management issues. Considerable progress has been made toward the improved management of coastal and estuarine environments through the development of the Cabbage Tree Bay (2000), Little Manly (2004), Forty Baskets (2004), Manly Ocean Beach CMPs (2008) and Clontarf/Bantry Bay EMP (2008). Further, councils coastal management planning ensures that important statutory obligations are appropriately met. The development of CMPs and EMPs involves detailed literature reviews, information sourcing, research into best practice approaches and considerable staff, community and stakeholder liaison. The development of the Plans has shown to take between two and four years from commencement to adoption. The development of the Manly Cove and North Harbour Coastline Management Plans is currently underway with anticipated completion during 2008/09. It is the vision of staff to ensure that all areas of Manly's coastal foreshore areas are managed through this process. This will better enable Council to achieve a balance between human interaction	

and the natural environment, with particular reference to the management of coastal risk, climate change adaptation, improvement to the use and amenity of coastal environments, protection of community values and in enhancing public facilities.

In approaching the process systematically and ensuring inclusive consultation and involvement a number of beneficial outcomes are now being realised for Manly. Manly Council continues to lead by example in becoming the first in NSW to have the entirety of its coastal and estuarine foreshore areas covered by Coastline and Estuarine Management Plans.

Human resources are essential for the satisfactory implementation of identified, community accepted and Council endorsed projects. Certain components can be implemented quickly, such as development and building controls, hazard education, public awareness and dune management programs. It is unlikely that any management plan could be implemented immediately in its entirety. For example, availability of funding will determine when certain options can be implemented. Consequently, a strategy needs to be developed to implement the plan over time. It should be noted that having an adopted CMP for an area in place provides significant weight to grant funding proposals and the likelihood of funding success.

The bid discussed in this report supports further development of CMPs/EMPs, implementation of various external grant funds and increases Council's ability to achieve regionally recognised planning and infrastructure outcomes the Manly Council Coastal Management Team are respected for.

TBL ASSESSMENT:

Social Implications

An assessment of the Coastline & Estuary Management Plans is undertaken in accordance with Council's TBL Assessment & Reporting procedures. The following social implications and mitigation measures can be reported:

- The Plans have positive implications on social aspects such as of community wellbeing, community involvement, heritage, education and minor implications on equity & diversity, health, safety and governance.
- The Plans are developed on suggestions/proposals contributed by community, Precincts and other stakeholders. Hence, the Plans ensure social needs of the community and offer significant social benefits.
- The Plans propose enhancement of general amenities such as public toilets, street lights, access, recreational opportunities, installation of dinghy/kayak storage and actions to provide safety for users of the coastal and estuary foreshores.
- This Plans specifically meet access needs of people with disability, one of the target groups identified in the Manly Social Plan.
- The Plans offer opportunities for community participation in implementation as well as monitoring.

- This Plan propose specific activities for conservation of Aboriginal, natural and cultural heritage such as protection of Aboriginal middens, Heritage Items and retaining historic use of Manly Foreshores.
- The Plan addresses water pollution issues, especially at public swimming enclosures to contain health hazards of swimmers and other water users.
- The Plan, however, does not provide local and sustained employment opportunities or improve public transport services and infrastructures. It is considered that these issues are outside the scope of this Plan.

Environmental Implications

An assessment of the Coastline & Estuary Management Plans has been undertaken in accordance with Council's TBL Assessment & Reporting procedures. The following environmental implications and mitigation measures can be reported:

- The Plans have significant positive implications on environmental aspects such as biodiversity, land integrity and pollution and minor implications on water efficiency, waste management.
- The Plans do not propose any clearance/disturbance of vegetation or habitat.
- The Plans are developed on suggestions/proposals contributed by community, Precincts and other stakeholders. Hence, Plans ensure environmental aspirations of the community and thus offers significant environmental benefits.
- The Plans propose protection of seagrass beds, management of SEPP19 bushlands, introduction of sea-grass friendly moorings and conservation of aquatic and inter-tidal habitats
- The Plans include a comprehensive study of coastal processes and risk.
- This Plans aim to achieving water efficiency through understanding of status of groundwater aquifer and also grey water direct diversion.
- This Plans propose specific activities for pollution such as maintenance of existing Gross Pollution Traps (GPTs), installation of new SQIDS (Stormwater Quality Improvement Devices) and installing pit inserts in litter hotspots.
- The Plans propose structured monitoring of the environmental health of the estuary including water quality, ecological diversity, bush lands and erosion/siltation processes.
- The Plan, however, does not propose any measures for reduced greenhouse gas emissions or efficient energy use directly. It is considered that these issues are outside the scope of this Plan.

Economic Implications

An assessment of the Coastline & Estuary Management Plans has been undertaken in accordance with Council's TBL Assessment & Reporting procedures. The following economic implications and mitigation measures can be reported:

- The Plans have significant positive implications on infrastructure development.

- The Plans have minor positive implications on business attractions & retention, benefits to local economy and R&D.
- The Plans have an implementation cost, including ongoing and project specific activities mentioned in the Plans. Implementation responsibility of all proposed management options rests with a number of State Government agencies and Manly Council. It is expected that State Government agencies will also share costs through funding support and technical assistance.
- With boat landing facilities, improved water quality, restored swimming enclosures, the Plans promotes enhanced coastal/estuary utilization and visitation and thus generating local economic benefits.

KEY OUTCOMES:

- Development and adoption of Manly Ocean Beach Coastline Management Plan
- Development and adoption of Manly Ocean Beach Emergency Action Plan for Coastal Erosion (partial implementation Feb 2008)
- Presentation of Councils approach to coastal risk management at NSW Coastal Conference and LGSA Conference
- Manly Ocean Beach selected as case study location for SCCG Projects:
 - *"Quantifying the Value of Sydney (NSW) Beaches in order to assess cost / benefit of necessary coastal protection / abatement measures as a result of enhanced climate change impacts"*.
 - *"Scoping Study for the Extraction of Sand Reserves from the "Sydney Shelf Sand Body" for Protection of Threatened Assets and Amenity Enhancement"*
 - *"Developing a GIS tool to assess vulnerability to catastrophic marine flooding in Sydney"* including mapping of all properties in low-lying areas of Manly CBD and Lagoon catchments.
- Development and adoption of Clontarf/Bantry Bay Processes Study
- Development and adoption of Clontarf/Bantry Bay Estuary Management Plan
- Establishment of Cabbage Tree Bay Aquatic Reserve Management Plan Working Group

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

Manly Council Management Plan

Manly Sustainability Strategy.

- Manly Ocean Beach Coastline Management Plan

Manly Ocean Beach Emergency Action Plan for Coastal Erosion

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.



ANNUAL REPORT 2007/08

PROJECT TITLE:	Forty Baskets CMP/Landscape Masterplan implementation	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
Forty Baskets Coastline Management Plan adoption (May 2004) Forty Baskets Landscape Masterplan adoption (May 2004) Obtain external Grant Funding (2005/06) Obtain internal matching funding (2006/07) Forty Baskets Landscape Masterplan implementation (2007-09) Finalisation of works and budget acquittal (February 2009)		
BRIEF PROJECT DESCRIPTION:		
Environment levy funding allocated for the 2007/08 period was used to match external grant funding to assist Council in revitalising Forty Baskets Reserve for the enjoyment and safety of residents and visitors to Manly. Works undertaken included: ▪ <i>Extension of the existing asphalt footpath</i> ▪ <i>New soft fall surfacing beneath existing swing</i> ▪ <i>New picnic table furniture and concrete surrounds</i> ▪ <i>New BBQ and concrete surround</i> ▪ <i>Pedestrian access ramp to Forty Baskets Beach</i> ▪ <i>New beach shower</i> ▪ <i>New in-ground boardwalk connection along eroded coastal path</i> ▪ <i>Improved vehicle access ramp to beach</i> ▪ <i>Provision of dinghy storage facilities will consolidate and visually improve existing storage.</i> NOTE – the remaining funding of \$30,500 will be used to cover costs associated with the access improvements to the Forty Baskets toilet and change room facilities.		
OBJECTIVES of the project:	Were they achieved explanation	
Seek external grant funding to support implementation of Landscape Masterplan	Yes, an application for external grant funding under the 2005/06 Sharing Sydney Harbour Access Plan and Maritime Infrastructure Program successfully gained \$103,520. The funding,	

	accounted for 50% of project costs.
Implement Landscape improvements within Forty Baskets Reserve	Works commenced in Autumn 2006 with majority completed within 3 months. Remaining funding to be allocated to improvements to toilet block access. Work expected to be completed 2009.
INDICATORS:	
Indicator	Statistic
Implementation of Landscape Masterplan	Project 95% implemented (access to toilet block remaining)
Discussion: Adoption of the Forty Baskets CMP and Landscape Masterplan confirmed community acceptance of planned works for Forty Baskets Reserve. Additional consultation was required for design and location of dinghy storage facilities. Following concerns raised by residents over the need for a wildlife corridor remaining funding is to be allocated to improved access to toilet facility.	
TBL ASSESSMENT: Economic – Project costs associated with the implementation of works were supplemented by 50% through the successful acquisition of external grant funding. Expenditure improved Forty Baskets Reserve’s facilities and visual character, subsequently encouraging utilisation of the location. Improvements to the eroded path network minimised the risk to users of the Manly Scenic Walkway as well as damage to Council vehicles. Visitor numbers have increased as a result of the works as has revenue raised through leases of kiosk and dinghy storage facilities. Environmental – improved path networks were designed to minimise erosion within Forty Baskets Reserve and the back beach environment. The introduction of improved dinghy storage facilities has led to a safer environment for users of the area, minimised erosion and uncontrolled access while retaining the visual character so valued by the community. No longer are dinghies stored in inappropriate locations in and around Forty Baskets. Local residents opposed the establishment of a wildlife corridor. Construction of an interpretive panel serves to educate users of the Reserve on historical and environmental information. Social – The works were developed through identification of community needs, environmental constraints/opportunities and to improve Council operations. The completion of works saw significant improvements to the way Forty Baskets Reserve is utilised by the range of user groups. Of particular note are the improvements to access for users of the Manly Scenic Walkway who are now able to safely move through the Reserve and access the beach itself. The works also significantly improved the ability of people to enjoy Forty Baskets for a number of recreational pursuits.	
KEY OUTCOMES: A majority of works implemented prior to the 2007/08 fiscal year (during early 2007)	

Community consultation and implementation of dinghy storage facilities was undertaken during the 2007/2008 period.

Interpretive signage developed and also implemented 2007/08.

Design of toilet block and associated access undertaken 2007/08 with implementation being undertaken late 2008. The remaining \$30,500 will be allocated to this portion of the project.

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

- Manly Sustainability Plan 2006
- Forty Baskets Coastline Management Plan 2004
- Forty Baskets Landscape Masterplan 2004
- Manly Scenic Walkway Plan of Management
- Manly Council Access DCP

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

The process of landscape management involves the ability to assess the relative value of existing features in aesthetic, historic and environmental terms. Council, through extensive consultation with community and stakeholders in developing the Forty Baskets Coastline Management Plan, identified the potential of the Forty Baskets area and developed a Landscape Masterplan that adds value to the Reserve and manages it sustainably for future generations.

In doing so, the Plan and its implementation enhanced the capacity of this important element of the Manly Scenic Walkway to better enable residents and visitors to access and enjoy one of the most beautiful harbours in the world, consistent with the objectives of the Sharing Sydney Harbour Action Plan, and to participate more fully in the recreational opportunities offered by this area.

Manly Council received the third highest grant of \$103,520 in the 2005 Sharing Sydney Harbour Access Program which improves the recreational enjoyment and public access to and along the harbour's foreshores for Sydneysiders and visitors to the city.

The \$103,520 (includes \$37,520 for recreational boating improvements) grant formed part of a \$229,000 project toward the implementation of the Forty Baskets Coastline Management Plan's Landscape Masterplan, including the construction of a timber boardwalk, provision of dinghy storage facilities, improved pedestrian and disabled access to amenities, beach and picnic facilities at Forty Baskets Beach, Manly.

The Landscape Masterplan has been prepared to guide the future environmental and visitor management and infrastructure improvements. The Forty Baskets Landscape Masterplan balances community values, user expectations and recreational activities with the important environmental and cultural heritage values of the Reserve.

Implementation timeline was balanced with acquisition of funding (internal and external) and the need to ensure community acceptance.



ANNUAL REPORT 2007/08

PROJECT TITLE:	Manly Harbour CMP Implementation	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
Little Manly Landscape Masterplan implementation (2006/07) Design of Penguin Barriers and signage Manly Wharf & Federation point (2008)		
BRIEF PROJECT DESCRIPTION:		
Expenditure is for the implementation of Actions identified in the Little Manly, Forty Baskets, Manly Cove and North Harbour Coastline Management Plans. As the North Harbour and Manly Cove Coastline Management Plans are currently being finalised specific projects will be implemented following Council adoption of the Plans. Funding has been allocated to assisting with the implementation of Little manly Landscape Masterplan.		
OBJECTIVES of the project:	Were they achieved explanation	
Implement actions from identified Harbour based CMPs	Little Manly Landscape Masterplan (2007)	
INDICATORS:		
Indicator	Statistic	
Further implementation of Harbour CMPs and associated Landscape Masterplans	Number of actions implemented within individual CMPs (to be implemented on a priority basis): Little Manly CMP = 118/219 (53%) Forty Baskets CMP = 113/197 (57%)	
Discussion:		
Council has developed Coastline Management Plans (CMP's) for the Little Manly and Forty Baskets		

area in response to legislative requirements and community issues. As such Council has:

- Established a Management Committee to oversee the development and implementation of Manly's Harbour CMP's;
- Undertaken Coastal Processes/ Coastline Hazard Definition Studies;
- Undertaken literature reviews, data compilation, identification of issues and investigations associated with a Coastline Management Study;
- Developed the Forty Baskets and Little Manly Coastline Management Plans in response to community needs and relevant legislation.
- Is currently finalising the North Harbour and Manly Cove CMPs.

Expenditure has focused on the implementation of works identified in the Management Plans, including the associated Landscape Masterplans (some of which have received **partial** funding under the Sharing Sydney Harbour Access Grant Program). Manly Cove and North Harbour CMPs include a number of actions which require funding and meet the criteria of the funding program.

TBL ASSESSMENT:

Economic – Expenditure improved Little Manly Reserve's facilities and visual character, subsequently encouraging utilisation of the location. Visitor numbers have increased as a result of the works as has revenue raised through leases of kiosk and dinghy/kayak storage facilities.

Environmental – extensive plantings of native species in Little Manly Reserve was included as part of the project in order to attract native fauna/bird species by improving habitat value. An assessment of impacts upon the bandicoot population was undertaken as part of the Development Application/approval process. Construction of a marine interpretive panel serves to educate users of the area on a range of environmental issues.

Social – The works were developed through identification of community needs, environmental constraints/opportunities and to improve Council operations. The completion of works saw significant improvements to the way Little Manly Reserve is utilised by the range of user groups. Of particular note are the improvements to access for people with disabilities, prams and the elderly who are now able to safely access the beach itself. The works also significantly improved the ability of people to enjoy Little Manly for a number of recreational pursuits.

KEY OUTCOMES:

Implementation of Little Manly Landscape Masterplan (2007)

Stormwater improvements to minimise beach scour at Manly Cove west

Improved management of seahorse colony on Manly Cove netted swimming enclosure

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

Little Manly Coastline Management Plan

Little Manly Landscape Masterplan
 Forty Baskets Coastline Management Plan
 Forty Baskets Landscape Masterplan
 North Harbour Coastline Management Study & Plan
 North Harbour Landscape Masterplan
 Manly Cove Coastline Management Plan Study & Plan
 Sustainability Strategy 2006

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

Expenditure is for projects identified in the Little Manly, Forty Baskets, Manly Cove and North Harbour Coastline Management Plans. As the North Harbour and Manly Cove Coastline Management Plans are currently being finalised specific projects will be implemented following Council adoption of the Plans. Identified projects include:

- Stormwater improvements to minimise beach scour at Manly Cove west
- Implementation of works associated with the Little Manly Reserve and Forty Baskets Landscape Masterplans.
- Development of the North Harbour Landscape Masterplan
- On-ground works identified within the Manly Cove CMP (i.e. improvements to stormwater capacity in Manly Cove west to minimize stormwater scouring of beach profile)
- Development & Implementation of a natural shoreline and shoreline structure monitoring program
- Accessibility study for provision of disabled access in Manly's Coastal Reserves
- Geoheritage Survey of Manly's Harbour Foreshores



ANNUAL REPORT 2007/08

PROJECT TITLE:	Little Manly CMP/Landscape Masterplan implementation (existing cost account)	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT

TARGET DATES (commenced, estimated completion etc):	
Little Manly Coastline Management Plan adoption (May 2004) Little Manly Landscape Masterplan adoption (May 2004) Obtain external Grant Funding (2004/05) Obtain internal matching funding (2005/06) Little Manly Landscape Masterplan implementation (2006/07) Finalisation of works and budget acquittal (March 2007)	
BRIEF PROJECT DESCRIPTION: Environment levy funding was used to match \$103,575 external grant funding to revitalise Little Manly Beach for all users. Works included: ▪ Construction of disabled access pathways and a ramp ▪ Construction of all-access toilet, shower and drinking fountain facilities ▪ Provision of timber decking over kiosk ▪ Construction and redesign of vertical dinghy storage facilities ▪ Construction of a diver corralling platform ▪ Development and construction of marine interpretive signage ▪ Construction of additional all-access points to the beach and ▪ Extensive native plantings.	
OBJECTIVES of the project:	Were they achieved explanation
Seek external grant funding to support implementation of Landscape Masterplan	Yes, an application for external grant funding under the 2004/05 Sharing Sydney Harbour Access Plan and Maritime Infrastructure Program successfully gained \$103,575. The Environment Levy funding, accounted for 50% of project costs.
Implement Landscape improvements within Little Manly Reserve	Works commenced in Winter 2006 with majority completed within 3 months. Finalisation of the project involved the installation of marine interpretive signage, which took place during early 2008.
INDICATORS:	
Indicator	Statistic
Implementation of Landscape Masterplan	Project 100% implemented
Discussion: Adoption of the Little Manly CMP and Landscape Masterplan confirmed community acceptance of planned works for Little Manly Reserve. Additional consultation was required for design and location	

of dinghy storage facilities. Following concerns raised by residents over the native plantings further consultation was required to ensure community satisfaction from a shading and view management perspective.

TBL ASSESSMENT:

Economic – Project costs associated with the implementation of works were supplemented by 50% through the successful acquisition of external grant funding. Expenditure improved Little Manly Reserve’s facilities and visual character, subsequently encouraging utilisation of the location. Visitor numbers have increased as a result of the works as has revenue raised through leases of kiosk and dinghy/kayak storage facilities.

Environmental – extensive plantings of native species was included as part of the project in order to attract native fauna/bird species by improving habitat value. An assessment of impacts upon the bandicoot population was undertaken as part of the Development Application/approval process. Construction of a marine interpretive panel serves to educate users of the area on a range of environmental issues.

Social – The works were developed through identification of community needs, environmental constraints/opportunities and to improve Council operations. The completion of works saw significant improvements to the way Little Manly Reserve is utilised by the range of user groups. Of particular note are the improvements to access for people with disabilities, prams and the elderly who are now able to safely access the beach itself. The works also significantly improved the ability of people to enjoy Little Manly for a number of recreational pursuits.

KEY OUTCOMES:

A majority of works implemented prior to the 2006/07 fiscal year (during early 2007)

Interpretive signage developed and also implemented 2007/08.

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

- Manly Sustainability Strategy 2006
- Little Manly Coastline Management Plan 2004
- Little Manly Landscape Masterplan 2004
- Manly Scenic Walkway Plan of Management
- Manly Council Access DCP

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

The process of landscape management involves the ability to assess the relative value of existing features in aesthetic, historic and environmental terms. Council, through extensive consultation with community and stakeholders in developing the Little Manly Coastline Management Plan, identified

the potential of the Little Manly area and developed a Landscape Masterplan that adds value to the Reserve and manages it sustainably for future generations.

In doing so, the implementation of works enhanced the capacity of this important element of the Manly Scenic Walkway to better enable residents and visitors to access and enjoy one of the most beautiful harbours in the world, consistent with the objectives of the Sharing Sydney Harbour Action Plan, and to participate more fully in the recreational opportunities offered by this area.

Manly Council received the third highest grant of \$103,575 in the 2004 Sharing Sydney Harbour Access Program which improves the recreational enjoyment and public access to and along the harbour's foreshores for Sydneysiders and visitors to the city.

The \$103,575 (includes \$26,450 for recreational boating improvements) grant formed part of a \$325,400 project toward the implementation of the Little Manly Coastline Management Plan's Landscape Masterplan, including the construction of disabled access pathways and a ramp, timber decking, additional dinghy storage facilities, a diver corralling platform, interpretive signage, additional all-access points to the beach and native plantings at Little Manly Beach, Manly.

The Landscape Masterplan has been prepared to guide the future environmental and visitor management and infrastructure improvements. The Little Manly Landscape Masterplan balances community values, user expectations and recreational activities with the important environmental and cultural heritage values of the Reserve.

Implementation timeline was balanced with acquisition of funding (internal and external) and the need to ensure community acceptance.



ANNUAL REPORT 2007/08

PROJECT TITLE:	Coastal Hazard Remediation Stage 1	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
Works at Delwood and Fairlight Beaches completed June 2008. Expenditure of grant funds to be achieved during the 2008/09 fiscal year. Further coastal risk mitigation works will be sourced from Stage 2 project and funding.		

BRIEF PROJECT DESCRIPTION:

During 2003-04 Manly Council commissioned consultants to undertake Coastline Hazard Definition Studies (CHDS) for the foreshore of Forty Baskets, Little Manly, Manly Ocean Beach and Cabbage Tree Bay and Davis Marina to Manly Point. The studies were undertaken in accordance with the State Government's Coastline Management Manual 1990, which represents current best practice for the management of coastal areas.

The Studies defined the coastline hazards associated with the study areas, including an assessment of beach erosion, shoreline recession, sand drift, coastal inundation, stormwater erosion, slope and cliff instability and climate change. The CHDS's also detailed the relevant coastal processes within each area that contribute to the above mentioned hazards, provided detailed management options and listed further assessments that were required to further define and mitigate potential hazards.

Council is responsible for the mitigation of risk identified on public lands and is remediating identified hazards in a staged approach based on the level of risk posed.

Funding for this project has been acquired under the 2004/05 Natural Disaster Mitigation Program.

OBJECTIVES of the project:	Were they achieved explanation
To ensure any protective works minimise impact upon beach amenity and access, and where practical improve existing amenity and access	Coastal risk mitigation works undertaken for Delwood and Fairlight Beaches. Further works designed and ready for implementation at Marine Parade and Cathedral Rock. Ongoing until funds expended
To take into account the potential for future climate change to affect the magnitude of coastline hazards	Coastal risk mitigation works undertaken for Delwood and Fairlight Beaches. Further works designed and ready for implementation at Marine Parade and Cathedral Rock. Ongoing until funds expended
To reduce to an acceptable level, the risk to property and risk to life as a result of slope and cliff instability.	Coastal risk mitigation works undertaken for Delwood and Fairlight Beaches. Further works designed and ready for implementation at Marine Parade and Cathedral Rock. Ongoing until funds expended
INDICATORS:	
Indicator	Statistic

Number of high risk coastal hazards remediated	Coastal risk mitigation works undertaken for Delwood and Fairlight Beaches. Further works designed and ready for implementation at Marine Parade and Cathedral Rock.
Discussion: The success of this project will be measured through minimising the risk to property and risk to life. Works have been implemented at Fairlight and Delwood Beaches, effectively improving the level of risk posed by sandstone undercuts to an acceptable level.	
TBL ASSESSMENT: Economic – remediation of coastal hazards and subsequent removal of public risk reduces likelihood of future costs associated with damage to property and/or loss of life. Environmental – works undertaken take into account environmental issues such as habitat value and geoheritage conservation. Social – an assessment of cultural heritage significance was undertaken by the Aboriginal Heritage Office. Neither Delwood nor Fairlight Beach hazards were identified as exhibiting aboriginal cultural heritage significance.	
KEY OUTCOMES: Reduction of risk to life and/or property at Delwood Beach Reduction of risk to life and/or property at Fairlight Beach	
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): • Little Manly, Forty Baskets, North Harbour, Manly Cove and Manly Ocean Beach Coastline Management Plans • Forty Baskets, Davis Marina to Manly Point, Little Manly and Manly Ocean Beach & Cabbage Tree Bay Coastline Hazard Definition Studies • Manly Sustainability Strategy 2006	
DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No.	
OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges. Council is strategically approaching the removal of risk in public areas in a staged approach based on the level of risk posed by identified coastal hazards. Works have been completed at Delwood and Fairlight Beaches. Works are being planned for 3 hazards on Marine Parade cliffline and Cathedral Rock. Works will be	

scheduled during 2008/09.

Council will continue to address coastal risk issues until funding is fully expended, upon which time remaining hazards will be reviewed and further funding sought if required.

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	Coastal Hazard Remediation Stage 2	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
Funding will be utilised following expenditure of Natural Disaster Mitigation Program funded project "Coastal Hazard Remediation Stage 1". Works designed and ready for a number of additional sites will result in full expenditure of Stage 1 funds and commence use of Stage 2 account.		
BRIEF PROJECT DESCRIPTION: During 2003-04 Manly Council commissioned consultants to undertake Coastline Hazard Definition Studies (CHDS) for the foreshore of Forty Baskets, Little Manly, Manly Ocean Beach and Cabbage Tree Bay and Davis Marina to Manly Point. The studies were undertaken in accordance with the State Government's Coastline Management Manual 1990, which represents current best practice for the management of coastal areas. The Studies defined the coastline hazards associated with the study areas, including an assessment of beach erosion, shoreline recession, sand drift, coastal inundation, stormwater erosion, slope and cliff instability and climate change. The CHDS's also detailed the relevant coastal processes within each area that contribute to the above mentioned hazards, provided detailed management options and listed further assessments that were required to further define and mitigate potential hazards. Council is responsible for the mitigation of risk identified on public lands and is remediating identified hazards in a staged approach based on the level of risk posed. Funding for this project has been acquired under the 2005/06 Natural Disaster Mitigation Program.		
OBJECTIVES of the project:	Were they achieved explanation	
To ensure any protective works minimise impact upon beach amenity and access, and where practical improve existing amenity and access	Further works designed and ready for implementation at Marine Parade and Cathedral Rock. Ongoing until funds expended	

To take into account the potential for future climate change to affect the magnitude of coastline hazards	Further works designed and ready for implementation at Marine Parade and Cathedral Rock. Ongoing until funds expended
To reduce to an acceptable level, the risk to property and risk to life as a result of slope and cliff instability.	Further works designed and ready for implementation at Marine Parade and Cathedral Rock. Ongoing until funds expended
INDICATORS:	
Indicator	Statistic
Number of high risk coastal hazards remediated	Further works designed and ready for implementation at Marine Parade and Cathedral Rock.
Reduced risk to property and/or life.	Expenditure of project funds to follow Stage 1 project.
Discussion: The success of this project will be measured through minimising the risk to property and risk to life. Expenditure of project funds to follow Stage 1 project.	
TBL ASSESSMENT: Economic – remediation of coastal hazards and subsequent removal of public risk reduces likelihood of costs associated with damage to property and/or loss of life. Environmental – works undertaken took into account environmental issues such as habitat value and geoheritage conservation. Social – an assessment of cultural heritage significance was undertaken by the Aboriginal Heritage Office. Hazards on Marine Parade were not identified by the Aboriginal Heritage Office as exhibiting aboriginal cultural heritage significance. Midden material has been identified at Cathedral Rock and a Section 90 Permit is required for works prior to commencement.	
KEY OUTCOMES: Reduction of risk to life and/or property. Project will commence following expenditure of Stage 1 funding.	
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): Little Manly, Forty Baskets, North Harbour, Manly Cove and Manly Ocean Beach Coastline	

Management Plans

- Forty Baskets, Davis Marina to Manly Point, Little Manly and Manly Ocean Beach & Cabbage Tree Bay Coastline Hazard Definition Studies
- Manly Sustainability Strategy 2006

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

Council is strategically approaching the removal of risk in public areas in a staged approach based on the level of risk posed by identified coastal hazards. Stage 1 works have been completed at Delwood and Fairlight Beaches.

Works are being planned for 3 hazards on Marine Parade cliffline and Cathedral Rock. Works will be scheduled for implementation during early 2009. Commencement of works will enable acquittal of Stage 1 project and commencement of Stage 2.

Council will continue to address coastal risk issues until funding is fully expended, upon which time remaining hazards will be reviewed and further funding sought if required.

EDUCATION FOR SUSTAINABILITY PROGRAM

Environment Levy



ANNUAL REPORT 2007/2008

PROJECT TITLE:	Education for Sustainability Program	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES Ongoing Program - This program is ongoing with targets met at different times of the year according to the program.		
BRIEF PROJECT DESCRIPTION: The Education for Sustainability Program is directed by Manly's 'Education for Sustainability Strategy (2006)', and consists of a series of environmental education projects that will assist Manly move toward a sustainable society (Manly Sustainable Strategy, 2006; Education for Sustainability Strategy, 2003). It ensures Manly Council takes a holistic and integrated approach to environmental education and builds on the success of the previous education initiatives. Education is recognised as a key component in achieving a sustainable future and "it is widely agreed that education is the most effective means that society possesses for confronting the challenges of the future" (UNESCO, 1997). The Education for Sustainability Program enables education to be managed holistically and to be integrated throughout all sections of council. The education projects provide a proactive, long-term approach to management and also address at-source issues. Education ensures a community oriented approach that can be evaluated over time to ensure ongoing improvements.		
OBJECTIVES of the project:	Were they achieved explanation	
OBJECTIVES of the project: Various objectives which allow for the promotion and delivery of a diverse range of environmental education initiatives for sustainability have been established. Different community groups including schools, businesses, volunteers and industry are targeted through the delivery of the Efs initiatives which aim to better inform the groups of issues and other matters which include, but are not limited to	Programs were executed involving all levels of schooling from preschool to secondary students. Programs were also extended to the community in general and several thousand people were directly engaged in the programs and events organized through the EFS program. Through the EFS program, people have had the opportunity to improve their knowledge, attitudes,	

sustainable environments. These include: • To develop, organise and evaluate various key environmentally educational programs • To better inform the community about sustainability and promote behavioural change • To target key learning's for behavioural change at the community and within Council • To achieve adoption of multi-disciplinary approaches for sustainability within council • To contribute to, and address actions from Council Management plans and strategies	skills and behaviours towards the environment. Evaluations were carried out on all programs with very positive results from participants.
INDICATORS:	
Indicator	Statistic
The EFS programs are evaluated twice yearly and delivered strategically to obtain indicators, so that measurable outcomes can be achieved. These mainly include, but are not limited to: • Surveys which are completed by attendees at environmental awareness events • Community perceptions which are noted during community consultation during events • Numbers of people who register for environmentally educational events • Accreditation schemes for local businesses • The 'Who Cares about the Environment' survey • Numbers of, and the value of partnerships created through the programs • Significant improvements to natural areas following program delivery • Numbers of educational resources given to the community • Committee feedback provided for project managers • Staff commendment noted during environmental events	Programs are evaluated in detail, copies of all evaluations can be provided to offer a greater insight into the positive feedback that is received from participants. Feedback is also sought from participants on what can be done to improve programs and this information is reflected upon and based on merit assists to develop existing programs and potentially move towards new programs.
Discussion: The Education for Sustainability Program continues to be a great success with students and community members alike. The program is under continual review according to participant's needs. The positive feedback received shows how important Education for Sustainability is to the Manly Community, and with Environment rated as the highest unprompted priority for Manly residents in the "Who Cares About the Environment" Survey it is important that the program continues to grow, develop and continue to educate Manly's community.	
TBL ASSESSMENT	

The Education for Sustainability Program is directed by Manly's 'Education for Sustainability Strategy (2006)', and consists of a series of environmental education projects that will assist Manly move toward a sustainable society (Manly Sustainable Strategy, 2006; Education for Sustainability Strategy, 2003). It ensures Manly Council takes a holistic and integrated approach to environmental education and builds on the success of past education initiatives.

Education is recognised as a key component in achieving a sustainable future and “it is widely agreed that education is the most effective means that society possesses for confronting the challenges of the future” (UNESCO, 1997). The EfS program enables education to be managed holistically and to be integrated throughout all sections of council.

KEY OUTCOMES:

- EfS Strategy Review
- Children's Holiday Program
- Schools Environmental Education
- Sustainability Fair
- Sustainability Youth Crew
- Catchment Snapshots & Sustainability Youth Forum
- Starboard Right and Green
- Bricks and Water
- World Environment Day Youth Expo
- Mobile Business Workshops Program

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

The Education for Sustainability Program, through its various projects, addresses criteria from the following Local Management Plans:

1. Manly Councils Management Plan, 2006 – 09 (various actions)
2. Education for Sustainability Strategy, 2003 (various actions)
3. Manly Sustainability Strategy, 2006 (various actions)
4. Greenhouse Action Plan (various actions)
5. Surfing the Future - A Vision for the Manly Local Government Area for 2025
6. Northern Beaches Stormwater Management Plan, 1999 (various actions)
7. Middle Harbour Catchment Stormwater Management Plan, 1999 (various actions)
8. Integrated Catchment Management Strategy - Manly & Warringah, 2003 (various actions)
9. Forty Baskets Coastline Management Plan - RF1; B1; WQ3; AF6; RF1; W1; AF16; CM2
10. Little Manly Coastline Management Plan - TE11; B1; B4; WQ3; WQ11; AE20

The Education for Sustainability Program also addresses actions from various State, National and International Plans which include:

1. Agenda 21 – Chapter 36: “Promoting Education, Public Awareness and Training”
2. National Action Plan – Environmental Education for a Sustainable Future
3. Learning for Sustainability: NSW Environmental Education Plan 2007-10

NSW Department of Education and Training: Environmental Education Policy

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will

this bid be continued? Opportunities and Challenges.

The Education for Sustainability program is vital to ensure the value of Manly's natural environment is protected in the minds of its residents, businesses, visitors and school children. It is important that this bid is continued in order to meet the requirements of the Manly's plans and policies listed above. Opportunities will be taken as they arise and as Council directs. One of the most important parts of the program is its ability to adapt to community need through evaluation, so that we can be sure we are hitting the mark every time and that we can commit to addressing priority Environmental Issues such as Climate Change mitigation as they arise.

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	MANLY OCEAN CARE DAY 2007	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): SUNDAY, 2 ND DECEMBER, 2007		
BRIEF PROJECT DESCRIPTION: Manly Ocean Care Day Festival is an annual event co-ordinated by the Manly environment Centre. The Festival is a fun, interactive all-inclusive community event which aims to raise awareness of the range of environmental issues we face today. Most importantly it aims to provide information to people, empowering them to take action and make life lifestyle choices which will create positive outcomes for themselves, the wider community (locally and globally) and reduce the impacts on our aquatic environments and bushland areas. Each year Ocean Care Day focuses on celebrating the appropriate international years, ie 2007 was the International Polar Year and thus had a focus on climate change. This was reflected in the National Launch of Clean Energy for Eternity and the human sign on Manly Beach involving and the launch of Manly's Solar Surf Clubs. Other activities included 50 stallholders (green groups, ecoliving, community, children's activities, workshops and talks,, art tent, games, cooking and other demonstrations, aboriginal heritage information, live music sporting activities, Manly Yacht Club Yacht Race.		
OBJECTIVES of the project:	Were they achieved explanation	
Manly Council to showcase their environmental services, policies, workshops and activities	Yes, significant interest by participants	
Raise awareness of local issues and impacts	Yes...large audience were very interested	

Provides up to date information from experts and suppliers	Excellent variety of exhibits
Increase data base of interested local and volunteers	Yes
INDICATORS:	
Indicator National Launch of Clean Energy for Eternity Human Sign	Statistic 6,000 people formed the sign on Manly Beach
Launch of Manly Solar Surf Clubs	Installation of Solar Hotwater and water tanks and signage at North Steyne Surf Club
Workshops and talks	27 workshops and talks
Art Exhibition	Local artists exhibited local artworks
Eco exhibits	50 stallholders
Children's activities	Well attended
Discussion: 6,000 people formed a human sign, forming the words Lifesaving Energy on North Steyne Beach. This was photographed from a helicopter, with Manly and the city in the background at no cost to Council. The Clean Energy for Eternity Group made a video of interviews with participants, including the local MP, Mayor, locals and visitors from all over Sydney.	
TBL ASSESSMENT:	
All of the activities in this event are provided free of charge, ie exhibits, advisory services, music, artworks, children activities, etc.	
KEY OUTCOMES:	
After participating in the Human Sign, people participated in the launch and many of the activities. There was significant media coverage generated by the event both before and after the event.	
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):	
Manly council Management Plan, Sustainability Plan, Recovery Plan of Manly's Little Penguins and Longnosed Bandicoots, all of Manly's coastal Plans (including Cabbage Tree Bay, Little Manly and Forty Baskets).	
DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No	
OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges Yes, this was the 14th consecutive Manly Ocean Care Day. Each year features are added to coincide with the International Year theme, which helps people implement thinking globally and acting locally. The range and level of active community involvement in this event is extremely high. OCD presents an opportunity for Council departments to meet their MOU's and KPI's .	



ANNUAL REPORT 2007/08

PROJECT TITLE:	Sea Change for Sustainable Tourism	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
Commenced in 2005 under grant funding from NSW Government Environmental Trust. Funded by Council 06/07 and 07/08.		
BRIEF PROJECT DESCRIPTION: <i>Sea Change for Sustainable Tourism</i> is an innovative education program and accreditation scheme developed to improve the triple bottom line performance of the tourism business sector in Manly. This program is one of the strategies adopted by Council to address the many social and environmental management issues faced in Manly as a result of the immense popularity of the area as a tourist destination. The aim of the program is to strike a positive balance between tourism, protection of the environment and local resident amenity by fostering a high standard of environmental stewardship and sustainability practice within the local tourism industry. The <i>Sea Change for Sustainable Tourism</i> program uses a range of incentives supported by the educational process to motivate businesses to adopt socially and environmentally friendly business practices. The education model is a 5-stage process that results in the development and implementation of a fully operational integrated environmental management plan (EMP). Incentives for participation include endorsement under the program's 5-star accreditation scheme and associated marketing and advertising (e.g. bi-monthly advertorials in the Manly Daily, advertising on Manly Tourism website, signage at the Manly Visitor Information Centre and Manly Wharf, etc).		
OBJECTIVES of the project:	Were they achieved explanation	
Continue to increase business participation rates in order to reach a critical mass.	Yes - 5 new businesses joined the program	
Continue to assist progression of existing participants along the 5-star program framework (i.e. guide them in the development and implementation of EMP's).	Yes – assistance provided as requested and businesses with EMP's indicated that they have achieved many of the goals in their plans.	
Continue to build relationships with local businesses through email, surface mail and telephone campaigns (with possible assistance from the Manly Chamber of Commerce).	Yes	
Continue to raise the profile of the program by pursuing strategic marketing and PR opportunities.	Yes – dedicated Sea Change display space set up in the VIC and new advertising added to Manly Tourism website	

Continue to build on program momentum and, ultimately, embed sustainability principles into the psyche of Manly's business community.	Yes – see above
Develop and implement Visitors program	No – insufficient funding to progress this objective
INDICATORS:	
Indicator	Statistic
Number of local businesses participating in the program as at end June 2008	36
Number of businesses having completed an EMP	3
Discussion:	
TBL ASSESSMENT:	
KEY OUTCOMES: • Five new businesses joined the program • Businesses that have developed EMP's are achieving the social / environmental goals they set • More businesses are using the program branding on their own promotional materials • All 5 businesses that joined the program in the last 12 months approached Council to participate which indicates that the program is recognised and valued in the business community • Dedicated display space for participating businesses with program signage set up at VIC • New program advertising on Manly Tourism website homepage	
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): Because the <i>Sea Change for Sustainable Tourism</i> program addresses issues across the triple bottom line it is relevant to a wide variety of local management plans including: Manly Council Management Plan 2006-2009 – Key Strategies: 2.5.4 & 5.1.6; Manly Sustainability Strategy, 2006 (various actions – see below); Education for Sustainability Strategy, 2003 (various actions); Greenhouse Action Plan (various actions); Sustainable Coastal Tourism for Manly, 2005 (Executive Summary, Summary of Recommendations – Specific Actions Recommended – 2.1 Education); Surfing the Future – A Vision for the Manly Local Government Area for 2025, 2006 (Vision's 4 & 5) The <i>Sea Change for Sustainable Tourism</i> program also addresses actions from various state, national and international plans which include: ▪ Agenda 21 – Chapter 36: "Promoting Education, Public Awareness and Training" ▪ National Action Plan – Environmental Education for a Sustainable Future ▪ Learning for Sustainability 2007-10: Environmental Education in NSW Plan ▪ NSW Department of Education and Training: Environmental Education Policy	
DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No	
OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges. The <i>Sea Change for Sustainable Tourism</i> program grew in 2007 and significant outcomes were achieved on a shoestring budget. There were difficulties promoting the program effectively and undertaking activities on the levels of funding allocated. There is still potential for this program in Manly but resources (both staff and funding) aren't currently available to pursue opportunities. Some of the opportunities for the program include: • Introducing a visitor's education component • Engaging the services of a volunteer to assist with the maintenance and growth of the business program.	

- The NSW Environmental Trust is currently pursuing state-wide dissemination of the *Sea Change for Sustainable Tourism* program model based on the outcomes of the program in its initial stages. There may be some opportunities arise for Manly from this project including endorsement of the *Sea Change for Sustainable Tourism* program by Tourism NSW.

The program will continue to be operated by staff from the CEP Branch on a maintenance level for current participating businesses and enquiries.

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	MANLY AMBASSADORS	
PROJECT TYPE:	☐ NEW PROJECT	Yes ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): ongoing		
BRIEF PROJECT DESCRIPTION: Manly Ambassadors is a volunteer program aimed at engaging the community through education to encourage residents to play an active role in the conservation, preservation and promotion of our natural environment. In engaging and empowering residents to take pride in their local area we will encourage resident feedback, participation and community involvement. Participants will be invited to a series of training opportunities addressing some of our most crucial environmental issues incorporating train the trainer skills to further enhance this community education program. Community Participation is the key to a successful education strategy and this will be further enhanced by the principles of volunteerism, accessing a large cross section of the community. Through community involvement in such a volunteer program we are not only providing educational opportunities but strengthening community cohesion, social wellbeing and trust. Promotion of broader environmental awareness empowers individuals to make informed choices and creates a greater sense of belonging, ownership and responsibility towards their local area. Participants will be invited to a range of training opportunities including but not limited to Penguin Aware, Seahorse Awareness, waste management, stormwater management (Seachange), native flora and fauna protection, bushland importance, protection of areas such as Cabbage Tree Bay and North Head, catchment management, fair trade, climate change, and water efficiency. Ambassadors will be encouraged to suggest appropriate training topics that they identify as relevant. Ambassadors will compliment and be integrated into various Council programs which will encourage greater accessibility and increased integration of relevant community organisations, for example, the proposed Manly community garden. A feedback mechanism will be in place to evaluate participant satisfaction and workability, evaluation will be conducted after each training session.		

OBJECTIVES of the project:	Were they achieved explanation
To increase community participation through education for sustainability	The initial induction in January 2007 attracted 47 community members and by mid-2008 we had 75 Manly Ambassadors.
To increase environmental awareness within the Manly Community	The Ambassador's were all inducted on information pertaining to the environment and sustainability.
To increase respect for the Manly environment to protect it for future generations.	Being provided a deeper knowledge of environmental issues as they are related to the unique environment that Manly is generates a greater respect.
INDICATORS:	
Indicator	Statistic
Application/nomination process	We have 75 Manly Ambassadors.
Training needs assessment	Training needs were asked to be identified in the Nomination form to become an Ambassador.
CRM system to report on Ambassador notifications made to Council	CRM system in place, however it has not been widely used by the Ambassadors.
Feedback and evaluation on training provided	Feedback forms provided after each Ambassador event and feedback has been extremely positive.
Ongoing participant support and contact with Ambassadors	Monthly communication made with the Ambassadors via a Volunteer Newsletter.
Discussion: The objective of Manly Ambassadors is to involve residents within the local community through promoting sustainability within education. By engaging our residents we are providing information about coastal living practices, encouraging Ambassadors to promote sustainable living initiatives to their social networks, friends, family, neighbours and visitors. This is a bottom up community education program that will enable residents within the Manly community to be more environmentally aware and to conserve the Manly environment for future generations.	
TBL ASSESSMENT: Manly Sustainability Strategy <delete all irrelevant>: 1. A Long Term Vision for Manly 2. An Involved Manly UN Sustainable Cities Principles <delete all irrelevant>: 1. Enable communities to minimise their ecological footprint. 2. Empower people and foster participation. 3. Expand and enable cooperative networks to work towards a common, sustainable future.	
KEY OUTCOMES: Manly Ambassadors aims to educate residents on the uniqueness of the biodiversity and natural ecosystems of the land, coasts and ocean that they are privileged to call home and to grant them a sense of place and ownership to be guardians of its protection, preservation and restoration. Manly Ambassadors are trained and educated through an initial induction as well as workshops and seminars throughout the year on topical environmental and sustainable concerns. The program has generated a network of well-informed residents	

throughout the local area (75 people), and they are now increasing the feel and presence of community involvement which is integral to building strong and healthy communities. Flora and Fauna Protection, as well as sustainable living and minimising ecological footprints are central to the topics covered throughout the Ambassadors education and training, with the diverse ecosystems that surround Manly used to exemplify and promote the importance of and need for sustainable living. The continuation of this engaging volunteers program will continue to improve upon and ensure a liveable and involved Manly.

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

1. Manly Sustainability Strategy, 2006 (various actions)
2. Education for Sustainability Strategy, 2006 (various actions)
3. Manly Local Air Quality and Greenhouse Action Plan 2001 (various actions)
4. Northern Beaches Stormwater Management Plan, 1999 (various actions)
5. Integrated Catchment Management Strategy – Manly & Warringah, 2003 (various actions)

The Manly Ambassadors program also addresses actions from various state, national and international plans which include;

1. Agenda 21 – Chapter 36: ‘Promoting Education, Public Awareness and Training
2. National Action Plan – Environmental Education for a Sustainable Future 2000

Learning for Sustainability; NSW Environment Education Plan 2007 - 10

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

The Manly Ambassadors program has proven popular within the community as a means to engage while furthering knowledge on environmental and sustainable issues relating to Manly’s unique natural environment. The community members the program attracts are all passionate about Manly and its local environment and are enthusiastic to learn more and be advocates of the training they are provided.

Participants are keen to attend; to learn, however not as keen to play the ‘honorary ranger’ role which is where the Ambassador’s program stemmed from. This part of the role provides them with a badge to identify them as a ‘Manly Ambassador’ and the ability to amicably correct environmentally detrimental public behaviour or to report it to Manly Council via the CRM system.



ANNUAL REPORT 2007/08

PROJECT TITLE:	Community Garden & Nursery	
PROJECT TYPE:	☒ NEW PROJECT	☐ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		

BRIEF PROJECT DESCRIPTION:

These funds were re-allocated to reserve list projects due to the location of the community garden being undecided.

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: Yes – these funds were re-allocated to reserve list projects.

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	Hill to Harbour Tours	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): Commenced in 2004 and has been ongoing.		
BRIEF PROJECT DESCRIPTION: The Hill to Harbour Tours program has been running successfully since 2004. A free initiative for local community members, the program consists of a series of expert-guided educational walking tours along Manly's beautiful harbour foreshore areas. Significant environmental and heritage features are pointed out and discussed along the walking routes by the guide. As at January 2007, there were 7 set walking routes in the program: Little Manly Point to Manly Beach, Burnt Bridge Creek to Manly Lagoon, Spit Bridge to Castle Rock, Manly Lagoon to Shelly Beach, Shelly Beach to North Head, Seaforth Oval to Sangrado Reserve and Tania Park to Manly Cove. Tours are presently held on a bi-monthly basis (routes are rotated) and include a free lunch and native plant giveaway. The Hill to Harbour Tour program has proven to be extremely popular. A total of 178 people participated in the tour series in 2006. Every tour was fully booked and also attracted a long waiting list (more than 20 people). The tours are very well received by participants and generate a considerable amount of positive PR for Council. Hill to Harbour Tours provide an excellent medium in which to educate the local community on topics such as stormwater, bushland, geology, heritage, development impacts and other local catchment and coastline issues. The tours also offer a good opportunity to inform local residents of the work that Council does.		
OBJECTIVES of the project:	Were they achieved explanation	
Increase the frequency of the tours to monthly in response to demand for places	Yes – from September 2007 tours were conducted monthly	
Add new tour routes to the series	Yes – 4 new tour routes were added to the program in	

	2007/08
Conduct a participant feedback survey and prepare a program evaluation report	Yes – full program evaluation report prepared in December 2007. Survey not conducted.
INDICATORS:	
Indicator	Statistic
Total number of people participating in the tour series in 2007/08	299
Total number of tours conducted	11
Discussion: N/A	
TBL ASSESSMENT:	
KEY OUTCOMES:	
- Four new tour routes added: North Head Circuit, Fairlight Rock platform Ramble, Manly Cove Kayak tour and Heart of Manly Heritage Tour. - Four letters containing positive feedback about the tours were received from participants. - Promotional costs for the program reduced to zero by pursuing free marketing opportunities such as editorial and free ads in Manly Council News in The Manly Daily. This has resulted in significant savings on budgeted program costs. - All tours were fully booked and often attracted a waiting list.	
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):	
- Manly Council Management Plan 2006-2009 – Key Strategies: 1.2.2 & 5.1.6 - Manly Sustainability Strategy, 2006 (various actions – see below) - Education for Sustainability Strategy, 2003 (various actions) - Agenda 21 – Chapter 36: “Promoting Education, Public Awareness and Training” - National Action Plan – Environmental Education for a Sustainable Future - Learning for Sustainability 2007-10: Environmental Education in NSW Plan - NSW Department of Education and Training: Environmental Education Policy	
DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No	
OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges. The Hill to Harbour Tours program has proven to be very popular yet again in 2007/08 attracting capacity participation for all tours conducted. The pursuit of free promotional initiatives this year has achieved significant program savings without comprising participation rates. The tour format is a simple yet winning formula – 3 hour guided walk with stops followed by catered organic lunch and a free native plant giveaway – and does not require any additions or changes. To quote recent feedback from a tour participant: “...I have learned more of the ecology and history of Manly in 3 walks than 40 years of living here.” Peggy Craigie, Balgowlah 8.05.08. There are some opportunities for the program that could add value, e.g. development of a simple promotional brochure for distribution at Council venues and events, and developing a self-guided walks booklet from existing walk notes.	

This successful program has not only achieved its objectives, it does a lot to build a good reputation for Council as an organisation. The program is being continued in 08/09 under the EFS Program budget bid.

Environment Levy



ANNUAL REPORT 2007/2008

PROJECT TITLE:	Environmental Management for Sustainable Futures	
PROJECT TYPE: Operational	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES Commenced 2008 – estimated completion 2011		
BRIEF PROJECT DESCRIPTION: The Environmental Management for Sustainable Futures (EMSF) program seeks to build upon the work already carried out through the Environmental Management System (EMS) instigated within Council in 2000. EMSF will expand upon the EMS by shifting the focus from solely environmental management to sustainable business management in order to address management issues across the triple bottom line. EMSF will increase efficiencies across Council and ensure that the organisation is operating within current environmental guidelines and legislations. In addition, uptake of EMSF will demonstrate that Council is leading by example in terms of sustainability, best practice business management and good corporate citizenship. The EMSF program will address and bring together many of the actions documented in the Manly Sustainability Strategy including development of a green/sustainable purchasing policy and minimisation of waste and water and energy use from Council operations. In particular, the EMSF will place an emphasis on reducing Council's climate change impacts as per the recommendations of Council's Climate Change Working Group. As a part of EMSF, the environmental management plans already in place across Council will be reviewed, evaluated and improved upon. In addition, new systems and plans will be developed and implemented where necessary. The EMSF program will be facilitated by involving all areas of Council in the management planning process. Education staff from the Community & Environmental Partnerships Branch will work with each Branch of Council to train, raise awareness and build capacity so that each Branch can develop their own area-specific Sustainability Management/Action Plans. Each plan will include performance and operational standards and indicators in order to enable measurement and evaluation of progress. Employees will be empowered and motivated to embrace sustainability through education,		

continuous professional development and incentives (e.g. an awards/rewards program).	
OBJECTIVES of the project:	Were they achieved explanation
Specifically, the objectives of the EMSF program are to: • Raise employee awareness about key sustainability issues. • Foster a culture of environmental stewardship and social responsibility within Manly Council. • Empower and motivate employees to change their behaviours and integrate sustainability principles into their work practices. • Build capacity of each Branch of Council to develop and implement area-specific Sustainability Action Plans. • Increase efficiencies across Council in areas such as waste avoidance, and water and energy use. • Establish Manly Council as leaders in the areas of sustainability, best practice business management and good corporate citizenship.	These objectives are being achieved. Unfortunately due to staffing changes and the whole EMSF Development and Implementation Team now moving on from the organization, the program has lost some momentum. With the reappointment of new staff the program will be prioritized and move forward as planned.
INDICATORS:	
Indicator	Statistic
The long term indicators are still to be realized due to staffing issues outlined above	
Discussion: The EMSF program is facilitated by involving all areas of Council in the management planning process. Education staff from the Community & Environmental Partnerships Branch are working with each Branch of Council to train, raise awareness and build capacity so that each Branch can develop their own area-specific Sustainability Management/Action Plans. Each plan includes performance and operational standards and indicators in order to enable measurement and evaluation of progress. Employees will be empowered and motivated to embrace sustainability through education, continuous professional development and incentives (e.g. an awards/rewards program).	
TBL ASSESSMENT:	
The EMSF program does not focus on environmental issues in isolation but instead employs a holistic approach to achieving sustainability by addressing issues across the triple bottom line and recognising synergies between issues. The EMSF program will indirectly address the levy priority issues of urban bushland and water quality by incorporating sustainable best practice into work operations across the whole of Council.	
KEY OUTCOMES:	
Specifically, the objectives of the EMSF program are to:	
• Raise employee awareness about key sustainability issues. • Foster a culture of environmental stewardship and social responsibility within Manly Council. • Empower and motivate employees to change their behaviours and integrate sustainability	

principles into their work practices.

- Build capacity of each Branch of Council to develop and implement area-specific Sustainability Action Plans.
- Increase efficiencies across Council in areas such as waste avoidance, and water and energy use.
- Establish Manly Council as leaders in the areas of sustainability, best practice business management and good corporate citizenship.

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

RELEVANT PLANS OF MANAGEMENT (etc) REFERENCES

(include strategy / action references):

Because the EMSF program addresses issues across the triple bottom line it is relevant to a wide variety of local management plans including:

11. Manly Council Management Plan 2006-2009 (Key Strategies: 5.1.1, 5.1.2, 5.1.4, 5.1.5, 5.1.6, 5.3.1, 5.3.2, 5.3.3, 5.3.4 & 6.2.1)
12. Manly Sustainability Strategy, 2006 (various actions – see below)
13. Education for Sustainability Strategy, 2003 (various actions)
14. Greenhouse Action Plan (various actions)
15. Surfing the Future – A Vision for the Manly Local Government Area for 2025, 2006

EMSF also addresses actions from various state, national and international plans which include:

4. Agenda 21 – Chapter 36: “Promoting Education, Public Awareness and Training”
 5. National Action Plan – Environmental Education for a Sustainable Future
 6. Learning for Sustainability 2007-10: Environmental Education in NSW Plan
- NSW Department of Education and Training: Environmental Education Policy

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

This position is now provided for under general revenue funds through the Climate Change & Special Projects (CC&SPO) Officer position.

The CC&SPO is primarily responsible for the development and implementation of Sustainability Action Plans across Council’s operations. The CC&SPO is also currently developing a Climate Change Education Strategy linked with Council’s Climate Change Strategy.

These programs will be developed, implemented and supported over a budgetary period of 3 years from July 1 2008 to June 30 2011. Beyond this the programs are designed to be self sustaining with a maintenance budget to ensure they are effectively supported.

The position should remain permanent as it is core business of Council. Ongoing projects will be formulated based on community need, and linked to:

- Education For Sustainability Strategy,
- Manly Sustainability Strategy,
- Manly Plan,
- Who Cares About the Environment Survey.

The main focus of the role will be on the development and implementation of both the Climate Change Education Strategy and the Sustainability Action Plans across Council operations. Ongoing development of the position and its objectives and programs will be based on program evaluation results, Who Cares about the Environment Survey, Council resolutions, Community needs & expectations and will be shaped by the plans listed above and the reviews of those plans as appropriate.

A number of staffing changes and movements have meant the program has lost momentum in the short term, but the program will be prioritised with the appointment of new staff now under way.

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	MEC CATALOGUING	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): DECEMBER 2009		
BRIEF PROJECT DESCRIPTION: Cataloguing of Manly Environment Centre resources to enable listing on the Shorelink catalogue.		
OBJECTIVES of the project:	Were they achieved explanation	
Improved access to MEC Resources		
INDICATORS:		
Indicator	Statistic	
Discussion: Completion of this project is delayed as MEC has to find new premises which might affect the system design.		
TBL ASSESSMENT: n/a		
KEY OUTCOMES: Online access to MEC resources through SHORELINK		

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

Sustainability strategy

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: no

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.
As before.

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	Community Awareness of Environment Levy Projects	
PROJECT TYPE:	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): Ongoing		
BRIEF PROJECT DESCRIPTION: To promote the positive work of Levy projects to all members of the community to ensure continued support for the Levy. Undertaken at the request of the Environment Committee. The community need to be informed of the positive work that is being funded by the Levy. Failure to communicate may lose support for the Levy. This has been an ongoing levy funded initiative. Printed in the Manly Daily – full page.		
OBJECTIVES of the project:	Were they achieved explanation	
To promote the positive work of Levy projects to all members of the community to ensure continued support for the Levy.	The newsletter has been published with no negative community feedback registered.	
INDICATORS:		
Indicator	Statistic	
Newsletter printed in Daily.	Newsletter printed	
Response regarding community satisfaction.	No responses.	
Discussion:		

TBL ASSESSMENT:
KEY OUTCOMES: Dissemination of information concerning Environment Levy Projects to inform the community.
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): Corporate Plan 5.1.1
DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No
OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges. Bid to be continued.

Environment Levy



ANNUAL REPORT 2007/2008

PROJECT TITLE:	Environmental History Museum & Teaching Laboratory	
PROJECT TYPE: Operational	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): TBA		
BRIEF PROJECT DESCRIPTION: Manly is representative of many urban Australian communities, all of which face environmental issues, and sharing stories through Manly's eyes will demonstrate the heritage that these communities have and extend knowledge of how the issues have been addressed. The EHM would creatively highlight key moments in the region's environmental and indigenous history in an interactive manner. Items to be displayed will be identified from a community participation and research process, guided by the Themes and Sub-Themes of this Interpretation Plan. With the EHM located on proximity to very large numbers of visitors, Manly is well placed to communicate environmental stories to a national audience.		
OBJECTIVES of the project:	Were they achieved explanation	
Objectives are still to be met.		
INDICATORS:		
Indicator	Statistic	
Discussion: Objectives and indicators still to be met.		

TBL ASSESSMENT:
KEY OUTCOMES: TBA
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): TBA
DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No
OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges. Significant work to date has gone into the research, development and lodgement of a Development Application for the Manly Environmental History Museum. To date the program has involved in house staff, external contractors and specialists all contributing their knowledge and skills to the development of the Museum. On the 3rd June 2008 Manly Council's Development Assessment Unit resolved to approve the Development Application (DA 404/06). This is a major milestone in the program, and staff now await a decision on the future of the Environmental History Museum before further progress can be made and funds allocated.

Environment Levy



ANNUAL REPORT 2007/2008

PROJECT TITLE:	Waste Education Trailer	
	☐ NEW PROJECT	☒ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc): TBA		
BRIEF PROJECT DESCRIPTION: To provide the Waste Education Team with a tool to assist in the efficient and professional delivery of waste minimisation and management messages. The Waste Education Trailer will be designed to be versatile – removable panels will ensure that the messages promoted on the trailer can be altered to fit in with specific occasions, such as visits to schools, unit blocks, Ocean Care Day and Manly's Food and Wine festival.		
OBJECTIVES of the project:	Were they achieved explanation	
Objectives are still to be met.		
INDICATORS:		

Indicator	Statistic
Discussion: Objectives and indicators still to be met.	
TBL ASSESSMENT:	
KEY OUTCOMES: TBA	
POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references): TBA	
DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No	
OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges. This project will be implemented subject to available staff resources. It is intended to re-fit the existing bushland trailer to make use of existing resources.	

CLIMATE CHANGE PROGRAM

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	Climate Change Risk & Adaptation Project	
PROJECT TYPE:	☒ NEW PROJECT	☐ ONGOING PROJECT
TARGET DATES (commenced, estimated completion etc):		
Project commencement was delayed due to delay in issue of grant funding through the Local Adaptation Pathways Program. Council's grant was successful with funding provided in the 2008/09 financial year. Project has commenced and is to be completed by June 2009.		
BRIEF PROJECT DESCRIPTION:		
The project includes undertaking a climate change risk assessment for the Manly LGA, community and Council and preparing a Climate Change Adaptation Action Plan in response to the risks identified. The process followed will be in accordance with the Federal Government's 'Climate Change Impacts & Risk Management – A Guide for Business and Government'. Grant funding has been obtained through the Federal Local Adaptation Pathways Program. A requirement of funding through this program is to use a facilitator from the DCC's expert climate change and risk panel of consultants.		
OBJECTIVES of the project:	Were they achieved explanation	
To identify, analyse, evaluate and treat climate change risks so that assets and services upon which the community rely on can be maintained.	Project not yet completed.	
INDICATORS:		
Indicator	Statistic	
Successful completion of the Climate Change Risk Assessment and Adaptation Management process	Project not yet completed.	
Increased understanding of climate risks and the identification of actions and necessary works required to treat risks within Council and the community.	Project not yet completed.	
Discussion: The project will engage staff from across the organisation as well as community members through the relevant Council community committee. The project has not yet been completed due to delays in the grant funding announcements. These grants have		

now been issued and therefore the project is underway and indicators will be reported at the end of 2008/09 financial year.

TBL ASSESSMENT:

The anticipated impacts of climate change will affect social, financial and environmental aspects of Manly and beyond. Therefore by planning for these impacts with the intention of minimising their effects on Manly, the project will result in social, environmental and financial benefits relative to the do-nothing approach. The project will focus on win-win and no regrets actions and therefore, while the financial outlay may be significant up-front, this outlay is likely to be less costly than the financial, social and environmental implications associated with the effects of inaction on this issue.

KEY OUTCOMES:

- Climate change risk assessment report - that identifies the risks of climate change and prioritises them according to their probability and risk
- Climate change adaptation action plan for Manly – that identifies win-win and no regrets actions to aid Manly in adapting to climate change impacts in the future
- Community consultation providing input into the process

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

Manly Corporate Plan (2007 – 2010)

Environment Program

5.1.1 Environmental Regulation and Sustainability

Identify climate change risks and impacts on the natural and built environment, and adaptation and mitigation measures.

Manly Sustainability Strategy (2006)

Review the possible social, economic and environmental impacts of climate change on Manly and ensure there are planning or management responses to address them (C2.4.2).

Local Air Quality and Greenhouse Action Plan

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

Project has commenced and will be reportable at the time of next year's review.

Environment Levy



ANNUAL REPORT 2007/08

PROJECT TITLE:	Climate Change Icon Project	
PROJECT TYPE:	☒ NEW PROJECT	☐ ONGOING
TARGET DATES (commenced, estimated completion etc):		
Project has not yet commenced. Additional funding was provided from the Environment Levy in 2008/09 to		

total \$150,000. Awaiting staff resources to implement the project, which will also need to be further scoped with the relevant Council community committee.

BRIEF PROJECT DESCRIPTION:

This project relates to a specific Council Resolution (Planning & Strategy Committee, 12 May 2008: Item for Brief Mention Report No. 8):

1. That Council supports a \$150,000 budget allocation within this year's environment levy for an icon climate change project.
2. That this \$150,000 be a one-off allocation for this year only, pending the Climate Change levy poll in September.
3. That staff bring to the next Environment Committee meeting:
 - a) a recommendation of existing levy projects to the amount of \$150,000 to be deleted and/or deferred from this year's levy
 - b) a proposal for an icon project(s) focused on greenhouse reduction technologies and energy efficiency.

Further scoping to be determined through consultation with the relevant Council community committee.

OBJECTIVES of the project:	Were they achieved explanation
A program that achieves real greenhouse savings for Council and community that also encourages the community to act on similar initiatives.	Project not commenced.
Further objectives to be determined through consultation with the relevant Council community committee.	N/A – at this stage.

INDICATORS:

Indicator	Statistic
To be determined through consultation with the relevant Council community committee and following scoping of the project.	N/A – at this stage.

Discussion:

N/A – at this stage as project has not commenced. Further scoping is required and discussion with the relevant Council community committee.

TBL ASSESSMENT:

A TBL assessment will be undertaken as part of the scoping process for this project.

KEY OUTCOMES:

To be determined in consultation with the relevant Council community committee.

POLICY REFERENCES (e.g. plans of management, recovery plans, strategies etc include references):

Council resolution (Planning & Strategy Committee, 12 May 2008: Item for Brief Mention Report No. 8).

DOES BID DEVIATE FROM ORIGINAL BID? EXPLAIN: No bid submitted as this was a Council resolution instructing direct allocation of funds.

OVERALL EVALUATION AND CONCLUSION consider medium/long term prospects or impacts. Will this bid be continued? Opportunities and Challenges.

Further funding has been provided from the 2008/09 Environment Levy.
