



NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that of a meeting of **Waste Committee** will be held:

DATE: Wednesday 10 April, 2013

TIME: From 8:30 am to 10:30 am

PLACE: Councillors Room, Town Hall, 1 Belgrave Street, Manly

COMMITTEE MEMBERS:

Councillors

Cllr Barbara Aird
Cllr Cathy Griffin

Manly Council
Manly Council

Other Representatives

Ms Michella Burgers
Ms Keelah Lam
Mr Dave Thomas
Ms Angelika Treichler
Ms Stacey Randell

Community Member
Community Member
Community Member
Community Member
Community Member

Council Staff

Emma Lynch
Sarah O'Brien
Natasha Shultz
Stephen Clements

Senior Waste Officer
Waste Education Officer
Manager Waste and Cleansing
Deputy General Manager
Landuse & Sustainability

All other Councillors are free to attend as observers and are invited to do so and to engage in discussions, but not in voting, on any matter before the Committee.

Stephen Clements

Deputy General Manager Landuse & Sustainability

Date: 3/4/13



**MEETING TO BE HELD ON WEDNESDAY 10 APRIL, 2013 AT 8:30AM
COUNCILLORS ROOM, TOWNHALL, 1 BELGRAVE STREET, MANLY**

- | | |
|----------------|---|
| ITEM 1 | Apologies and leave of absence |
| ITEM 2 | Declarations of Interest – Pecuniary
Non- Pecuniary |
| ITEM 3 | Confirmation of 2013 Meeting Dates and Terms of Reference |
| ITEM 4 | Report – Communication Strategy re Changes to Waste Collection Systems in the Manly LGA – Verbal Update by Stephen Clements (Deputy General Manager) |
| ITEM 5 | Report – Container Deposit System Campaign Action Plan |
| ITEM 6 | Report – Recycling of Nappy Waste from Childcare Centres |
| ITEM 7 | Report – Planned Waste Education Projects for 2013
Verbal Update presented by Emma Lynch (Senior Waste Officer) |
| ITEM 8 | Report – Review of Zero Waste and Litter Avoidance Strategies |
| ITEM 9 | General Business brought to the Attention of the Chair Prior to the Meeting and Approved for Consideration |
| ITEM 10 | Date for Next Meeting: 15 May 2013 |



TO: Waste Advisory Committee

MEETING DATE: 20 February 2013

AUTHOR: Secretariat

SUBJECT: Proposed Committee meeting dates for 2013

1. INTRODUCTION

Below are proposed meeting dates for the **Waste Advisory Committee** for 2013.

2. INFORMATION

The following table sets out the proposed meeting dates for the **Waste Advisory Committee** meetings for 2013. The meetings have been scheduled 6 weekly on 3rd Wednesday of the month, meeting to commence at 8.30am, Manly Town Hall, 1 Belgrave Street Manly and will run for a maximum of 2 hours, as per the current meeting schedule.

Jan 2013	Feb 2013	Mar 2013	April 2013	May 2013	June 2013	July 2013	Aug 2013	Sept 2013	Oct 2013	Nov 2013	Dec 2013
	20		3	15		24	7	18	30		11

3. RECOMMENDATION:

That the proposed dates for 2013 be approved.

Secretariat
Corporate Services Division

Date: 10 January 2013



Manly Council Waste Advisory Committee

***This Special Purpose Committee has been established
under the Local Government Act, 1993***

The Status of the Committee is purely advisory

Terms of Reference

1. Title

The Committee shall be known as the Waste Advisory Committee (hereinafter called the Committee).

2. Role and Objectives

This is a Special Purpose Committee, convened by the General Manager, to provide a forum for discussion and recommendation to Manly Council to:

- Act as an advisory body to Council on waste services and education.
- Make recommendations to Council, other Committees of Council and the community on a broad range of waste matters identified by the Management Plan, Zero Waste Strategy, Little Avoidance and other sources.

In essence, provide advice to Council on strategic direction to ultimately achieve zero waste through best practice waste processes for Council's consideration.

The role of this Committee is purely advisory and may not commit Council resources. The Committee is to work within the framework of the Community Strategic Plan and does not deal with day to day operational matters. It should

be noted that employees of the Council are not subject to the direction of the Advisory Committee or any of its members.

3. Management

A. *Membership of Committee*

The Committee shall consist of:

Councillor representatives (and the Mayor ex officio):

- Councillor Aird
- Councillor Griffin

5 Community members.

The Community members shall serve on the Committee in a voluntary capacity.

Membership of the Committee shall be reviewed in September 2016.

The quorum for the Committee is 4 members.

This Committee meets bi-monthly.

B. *Absence from Meetings*

A Committee member absent from three (3) consecutive Committee meetings without approval of the Committee shall forfeit his/her place on the Committee.

C. *Resignation from the Committee*

Any member of the Committee may, by notice in writing addressed to the Committee, resign his/her office as a member.

D. *Notification of Vacancies*

The Committee shall notify the General Manager promptly of any vacancy occurring in its membership, whether it is through death, absence or resignation from the Committee. The Committee shall submit to the General Manager within 28 days the name of a person considered by the Committee to be suitable for appointment. The General Manager will decide whether to accept that appointment, or to call for public Expressions of Interest. All newly appointed members must participate in a committee induction process as soon as possible following their appointment to the Committee so that they can comply with the proper conduct of meetings.

4. Duties of Officers

A. Chairperson

The duties of the Chairperson are to:

- Direct meetings according to the Committee Terms of Reference, and Council's Code of Conduct.
- Facilitate the discussion of items on the agenda in a timely manner, and the consideration and approval of recommendations to Council.
- Ensure all committee members have the opportunity to participate in the meetings.
- Not attempt to direct Council staff, including not directing staff as to the content of any advice or recommendation.

B. Secretariat and Staff Officer

The duties of the Secretariat and Staff Officer are to:

- Call all meetings of the Committee.
- Develop and send out the agenda and reports for the meetings.
- Advise the Committee without fear or favour.
- Comply with Council's Guide to Ethical Behaviour: Staff.
- Record the minutes in the meeting, prepare all minutes and distribute them as described below.
- Keep a record of attendance for every member of the committee.
- Attend to such housekeeping matters as booking meeting rooms and arranging refreshments in accordance with standard protocols.
- The Council Staff will not be members of the Committee, nor have voting rights, nor preside at meetings, apart from when it is necessary to organise the election of a chairperson to preside at the meeting.

C. Members

The duties of the members are to:

- Attend and participate in meetings (as well as induction, planning sessions and relevant training).
- Work co-operatively with other members in achieving the objectives of the Committee.
- Contribute advice, ideas and suggestions relating to items on the agenda.
- Show respect for their peers, councillors, staff and others during Committee meetings.
- Understand that employees of the Council are not subject to the direction of Councillors, Committees or their members.

5. Meetings

- A **QUORUM** shall comprise a majority of members on the Committee. A scheduled meeting must be adjourned if a quorum is not present within half an hour after the time designated for the holding of the meeting, or at any time during the meeting. In either case, the meeting must be adjourned to a time, date and place fixed by the Chairperson, or, in his or her absence, by the majority of the members present.
- This is an Advisory Committee, and it is unlikely that there will be a need for voting, however, should that eventuality arise, each member of the Committee shall have one vote and decisions of the Committee shall be by simple majority. In the event of the votes and the members being equal the Chairperson of the meeting shall have a casting vote in addition to his/her deliberative vote.
- Council Secretariat and staff will attend meetings but have no voting rights, and provide administrative support and professional advice, as determined by the General Manager.
- Items may only be raised under General Business if the permission of the Chairperson is obtained before the meeting starts, and each such item is to have a recommendation;
- The first item on the agenda for all committee meetings (after apologies and requests for leave of absence) shall be the declaring by members present of **pecuniary and non-pecuniary interests** and these shall be recorded in the minutes.
- Any committee member who has a pecuniary interest in any matter on the agenda for a committee meeting, or that arises during a meeting at which they are present, must disclose the nature of the interest to the meeting as soon as practicable, and must not be present at, or in sight of, the meeting at any time during which the matter is being considered or discussed, or at any time during which the committee is voting on any question in relation to the matter.
- Conflicts of interest may also arise due to a strong relationship or affiliation the member may have with a matter being discussed by the committee. These are referred to as non-pecuniary interests. A non-pecuniary interest would be considered significant where the relationship or affiliation is such as it would prevent the member from impartially and objectively considering all the relevant information as a result of this conflict of interest.
- A Councillor committee member who has a non-pecuniary interest in any matter on the agenda for a meeting, or that arises during a meeting at which they are present, must disclose the nature of the interest to the meeting as soon as practicable, and, in the case of a “significant” non-pecuniary interest must disclose the nature of the interest to the meeting as soon as practicable, and must not be present at, or in sight of, the meeting at any

time during which the matter is being considered or discussed, or at any time during which the committee is voting on any question in relation to the matter.

- A community member of a committee who is also a member or representative of a community group that could be affected by any matter on the agenda, or that arises during a meeting at which they are present, (irrespective of whether or not the person has a pecuniary or a non-pecuniary interest), must state the name of the community group of which the person is a member or representative, and the matter shall be recorded in the minutes.

6. Working Groups

- The Committee may appoint any number of Working Groups at any time to investigate any matter or thing to which the Committee may require information or to organise and manage, subject to the control of the Committee, any activity which may be considered by the Committee to be essential to the objectives of the Committee.
- Each Working Group appointed shall have Terms of Reference and a fixed term.
- The Working Group must ensure that full and accurate minutes of the proceedings of its meetings are kept and completed within 2 weeks of the meeting and then reported to the next available Committee meeting.

7. Minutes, Communications and Reporting

- The agendas and minutes of the Committee shall be stored as a permanent record of Council, as determined by the General Manager.
- Once the draft minutes have been approved they will be referred to the Chair of the Committee for confirmation. The draft minutes will then be circulated to Committee members. Any questions by members regarding the minutes are to be referred immediately to the Staff Servicing Officer and if any error in the minutes is confirmed, the Staff Servicing Officer shall arrange to make the appropriate changes.
- Minutes will be completed within 2 weeks of the Committee meeting and then reported to the next available Council Meeting.
- All agendas shall be published on Council's website prior to the meeting.
- All minutes shall be published on Council's website within 5 days of adoption by Council.
- Members of the Committee are not permitted to speak to the media as representatives of the Committee unless approved by Council.

8. Insurance

- Council shall effect personal accident insurance on Committee members together with legal liability cover, Voluntary Workers, cash in transit and personal property insurance cover.

Note: Legal liability cover will only be provided to members of the Committee and voluntary workers whilst they are acting within the scope of their duties for and on behalf of Council.

9. Statutory Requirements

- The Committee shall ensure that the *Local Government Act 1993* and related Regulations, all other statutory provisions and all Council's Codes and Policies relating to its activities are at all time strictly observed.

10. Dissolution

All committees are automatically dissolved from the date of the quadrennial election.

Adopted

Modified

Addendum:

Members of the Waste Advisory Committee

Councillor Representatives:

- Councillor Aird
- Councillor Griffin C

Community Member:

Michella Burgers
Keelah Lam
Stacey Randell
Angelika Treichler
Dave Thomas



TO: Waste Committee

MEETING DATE: 10 April 2013

AUTHOR: Emma Lynch, Senior Waste Officer

SUBJECT: **Container Deposit System - Campaign Action Plan**

1. INTRODUCTION

Manly Council has long been an advocate of Container Deposit System (CDS) and for many years has lobbied industry, State and Federal Government for its introduction.

Council resolved at the Ordinary Meeting on the 10th December 2012 to take a number of actions to lobby governments for the introduction of CDL. One action was that members of the waste staff and Waste Committee work together on formulation of a campaign action plan.

INFORMATION

Council has written numerous letters to members of State and Federal Government to lobby for the introduction of a CDS.

Additional actions taken as per Council's resolution:

- A petition has been made available for residents to sign at the Visitor Information Centre, Manly Library, Manly Council's Town Hall foyer and Manly Environment Centre
- Council has written to all precinct committees requesting their support for the introduction of a federal CDS scheme
- Council's website has a link to the Boomerang Alliance website, where residents can complete an online letter to the Premier to lobby for a CDS.

2. RECOMMENDATION:

That the Committee discuss actions that Council could undertake to further lobby state and federal government for the introduction of a CDS and work together to formulate a campaign action plan.

Emma Lynch

Senior Waste Officer

Waste Committee

10 April 2013



TO: Waste Committee

MEETING DATE: 10 April 2013

AUTHOR: Emma Lynch, Senior Waste Officer

SUBJECT: **Recycling of Nappy Waste from Childcare Centres**

1. INTRODUCTION

Manly Council has been invited to participate in a working group hosted by the NSW EPA regarding a nappy recycling trial. The meeting will be held on February 13, 2013.

The company involved has plans to establish a recycling plant in Sydney in late 2013 to process nappies, pads and sanitary waste collected from female washrooms.

If the program is suitable, Council will investigate piloting the service at the Roundhouse Childcare centre

2. INFORMATION

Sarah O'Brien, Council's Waste Education Officer will brief the Committee on the outcome of the meeting and its potential to be utilized in the Manly LGA.

3. RECOMMENDATION:

That the Waste Committee discusses the nappy recycling program trial and provide feedback to staff.

Emma Lynch

Senior Waste Officer

Waste Committee

10 April 2013



TO: Waste Committee

MEETING DATE: 10 April 2013

AUTHOR: Emma Lynch, Senior Waste Officer

SUBJECT: **Planned Waste Education Projects for 2013**

1. INTRODUCTION

Council's waste staff have a numerous projects planned for 2013 to improve Council's waste service and facilitate resource recovery.

2. INFORMATION

Council's Waste and Cleansing Manager, Senior Waste Officer and Waste Education Officer will outline these projects to the Waste Committee.

3. RECOMMENDATION:

That the Waste Committee provide feedback to staff on the proposed projects.

Emma Lynch

Senior Waste Officer

Waste Committee

10 April 2013



MANLY COUNCIL

ZERO WASTE STRATEGY

A BLUEPRINT FOR A CLEANER FUTURE

Prepared by
Manly Council

February 2005

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1. INTRODUCTION

1.1 Background

The Manly Zero Waste Strategy has been developed to help guide the Manly community toward the goal of Zero Waste. Reducing waste is important for Manly's future – socially, economically and environmentally. Manly residents have a history of generating some of the smallest volumes of waste to landfill per capita in the state, so a move toward zero waste is a natural progression for the community.

In moving toward zero waste, products and materials traditionally seen as waste will need to be seen as resources that ought to be reused. The 'whole of system' approach recognises that there is a chain of economic activity (see figure 1) that produces goods and materials as well as waste, and a zero waste philosophy will move the traditional emphasis from extraction and disposal to avoidance, reuse and reprocessing.

In this way, a Zero Waste philosophy can encompass cleaner production; product redesign and reduced packaging; promotion of re-use and recycling; composting; reduced spending on resources and waste management; incorporating the true cost of production; and employment creation.

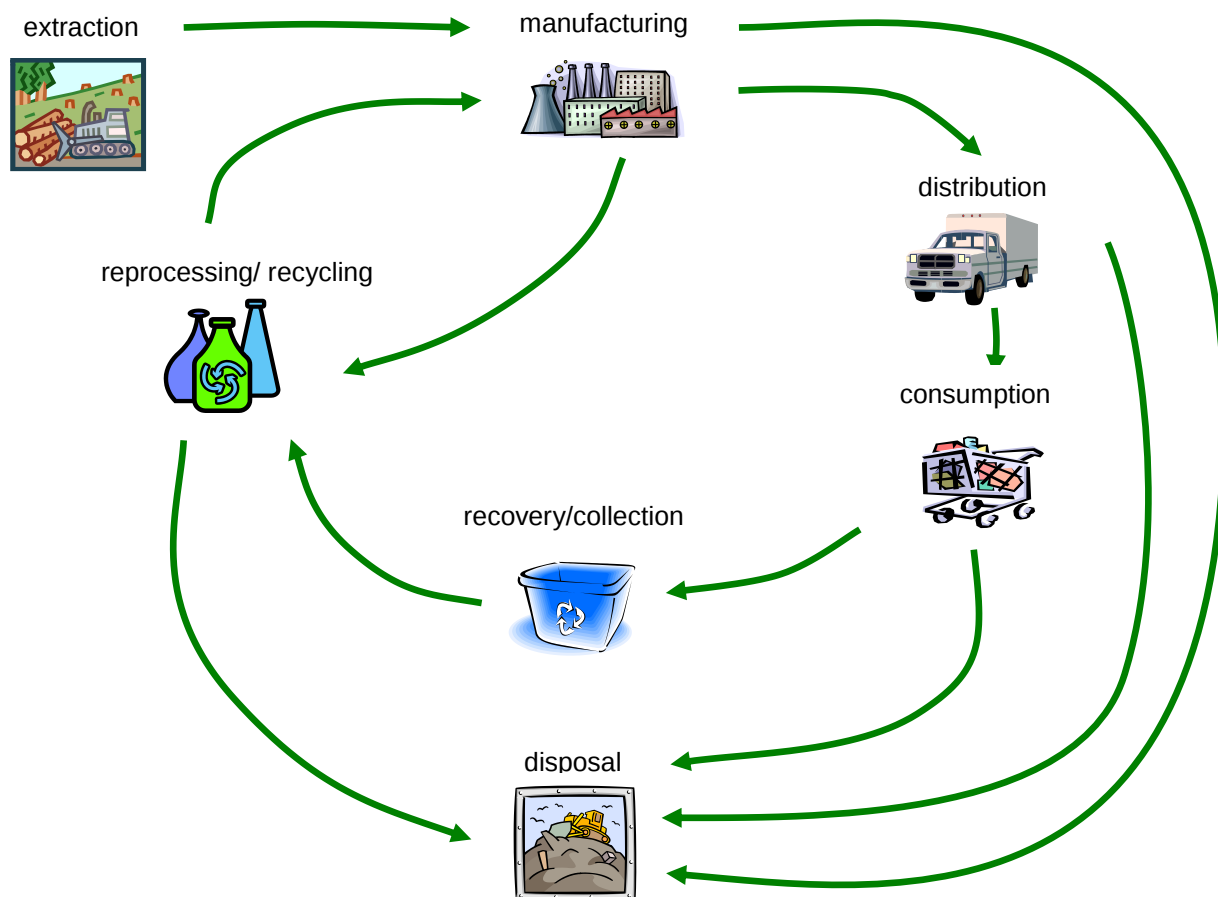


Figure 1: life cycle of goods and materials (adapted from Local Government Action Plan – contributing to waste reduction and resource recovery in NSW: Consultation Paper, Resource NSW, December 2003)

Zero Waste is a planning response to the environmental and social pressures of increased consumption and waste disposal. Whilst the ultimate goal of a zero waste strategy is to eventually eliminate waste, the general philosophy for achieving this outcome still recognises the waste hierarchy of “Avoid; Reduce; Reuse; Recycle; and Disposal (as a last resort)”. Further, in a move away from the current approach to waste, in which waste is seen a natural part of production and consumption, Zero Waste aims to close the loop, as illustrated in the figure below.

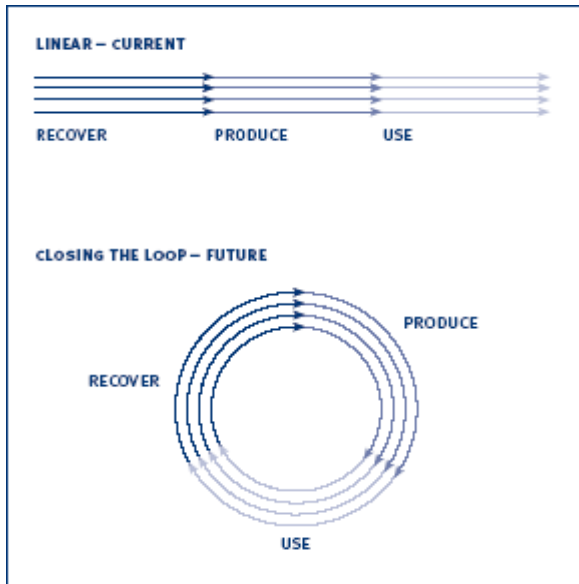


Figure 2: Closing the loop in production and consumption (NZ Zero Waste Strategy)

Importance of this Zero Waste Strategy

This strategy is of critical importance for a number of reasons. Apart from assisting Manly move toward sustainability, the strategy will provide:

- Strategic direction for the continual reduction in waste generation within the Manly community
- Opportunity to continue leading by example in the field of waste minimisation.
- Opportunity to review the community's progress towards zero waste over time

Manly Council Context

Manly LGA is located at the southern end of the Manly - Warringah peninsula of the Northern Beaches and covers a diverse range of residential, business, industrial and natural landscapes. The area has a boundary of 39.4km, of which 29.9km is a water margin. No part of Manly is more than 1km from either the Harbour or ocean.

In addition to the pressure of urban development in the LGA, tourism, as the major industry of Manly, has an impact on the local environment and on local waste generation. It is estimated that more than 6 million visitors come to Manly each year.

On February 9th 2004, Manly Council adopted the following “Towards Zero Waste” Policy:

Manly Council commits to working towards the goal of Zero Waste across the Local Government Area for:

- *economic benefits of greater efficiency of resource use and less waste disposal,*
- *reducing damage to the environment from waste generation and disposal, and*
- *lowering the social costs and risks of waste.*

Zero Waste is a new approach to the flow of materials and energy in our society. It recognises that waste is an avoidable problem that is limiting our capacity to sustain our environment and quality of life in Manly.

Council also resolved to develop a Strategy identifying actions required across the Local Government area to achieve the goal of zero waste within 10 years.

The strategy integrates objectives and actions described in Council's Corporate Plan and the Manly Sustainability Strategy. Actions outlined in other local, state and national plans are also incorporated as appropriate.

Manly residents, as of 2004/5, produce approximately 176 kg of waste to landfill every year. As well as this they recycle approximately 200kg of paper, co-mingled containers and vegetation.

Whilst approximately 730 tonnes of waste was collected from public place litter bins, litter not making it to these bins in Manly has been recognised as a serious issue. Council's Cleansing Team collects between one to seven tonnes of stormwater litter per week from Manly ocean and harbour beaches. This amount varies due to a number of factors, including weather events such as rainfall and wind.

The Litter Avoidance Strategy was adopted in 2003 and was designed to provide a framework for implementing actions to reduce litter in Manly. It is expected that gains made through this Zero Waste Strategy will help to reduce the litter problem in Manly.

Manly Council Corporate Plan

Council's Corporate Plan 2002/03 identifies the goal of zero waste:

"Work towards a zero waste target, consistent with sound sustainability practice"

The Corporate Plan includes key actions to:

- Provide environmental education services for the community and for Manly Council staff
- Review waste policy and strategic waste planning to meet Resource NSW and State Government objectives
- Emphasise, promote and service the benefits of the reduce/reuse/recycle principle to maximise the diversion of material from the waste stream.
- Educate residents, schools, businesses, industry and visitors to avoid, reduce, reuse and recycle to assist Council in its commitment to waste separation.
- Provide Waste Management and Avoidance Education throughout the community. Develop a waste education strategy to promote waste management and avoidance internally and in the community in conjunction with Manly Environment Centre.
- Ensure that Council staff are kept informed of the latest treatment technologies and disposal practices to safeguard the environment
- Promote best practice waste avoidance and recycling in the Commercial & Industry and Construction & Demolition sectors

- Develop policy and procedures for the management of waste issues at Manly events.
- Promote the sale and use of compost bins and worm farms through the Town Hall and M.E.C.
- Encourage the business sector to use environmentally sound practice through targeted education programmes
- Encourage community participation in the development of Council's environmental policies and initiatives
- Provide information and advisory services to Council, Staff, Councillors and community
- Provide promotional and educational programmes
- Awareness raising and education to the broader community

Manly Council Sustainability Strategy

The Manly Sustainability Strategy 2002 – 2005 also identifies the importance of reducing and better managing waste:

“To encourage the most efficient use of resources and to reduce environmental harm in accordance with the principles of ESD”

The Sustainability Strategy includes key actions to:

- Promote Council as a waste management leader through examples of best practice management from within Council
- Monitor the pay by weight/pay by volume debate
- Waste Committee to set a new target for Manly
- Lobby for Container Deposit Legislation
- Lobby government to remove sales tax from recycled paper products and introduce competitive pricing

1.2 Aim

This Strategy aims to:

Develop and promote a set of actions and tasks designed to guide the Manly community towards the goal of Zero Waste.

Zero Waste should be achieved through:

- Zero waste generation
- Zero waste disposal

Other aims include:

- Reduce total consumption of material and energy resources.
- Move toward a waste-free society as an integral part of Ecological Sustainability.

- Maximise self-sufficiency at a local level.
- Promote greater community knowledge, appreciation, and understanding of waste and environmental issues.
- Promote greater community access to, and involvement in, decision-making at all levels of government.
- Encourage more environmentally and socially beneficial resource use.
- Ensure that the responsibility for waste is ultimately borne by those who produce that waste (ie. polluter pays principle).
- Achieve a greater level of employment in-line with increased product re-use and material recycling at a local level.
- Avoid the pollution, waste of resources, and social impacts caused by the disposal of waste.
- Avoid the need to establish new, or expand existing, waste disposal/reprocessing facilities.
- Ensure an integrated and comprehensive approach to waste elimination.
- Promote equity for present and future generations by ending the excessive consumption and the unjust distribution of material and energy resources.
- Promote a precautionary approach to the adoption of new technology.
- Ensure that new or expanded facilities are directed only to addressing residuals are occurring as we work toward zero waste

1.3 Objectives

The objectives of the Zero Waste Strategy are to:

- Empower and encourage individuals and communities to act in a way that contributes to the continuing reduction of waste, by providing the educative and other resources necessary to allow the public to participate in the waste elimination process.
- Lobby State and Federal Governments to provide firm regulation and guidelines regarding waste minimisation and packaging reduction
- Provide business sector, schools, community and council staff with the information necessary to enable them to make decisions that contribute to a waste-free Manly
- Establish the waste educators within council as the contact point for all waste education initiatives of council
- Progressively minimise the generation and disposal of waste products

1.4 Targets

To achieve Zero Waste within 10 years will require a concerted effort by all sectors of the Manly community and visitors alike. An initial target of 10% reduction on current waste levels within the first year should be increased progressively to more than 25% reduction on previous year waste levels as the pathways to sustainability become more urgent and at the same time more achievable.

The targets in this strategy (see chapter 4) refer specifically to *dry recyclables, organics, and disposal rates*. They are measurable insofar as data exists for the current disposal rates, however, it is noted that the organic component of waste to landfill is currently an estimate. The targets are relevant, achievable, and clearly timed. Whilst zero waste represents a challenging goal, implementation of the actions identified in this strategy will ensure it is also a realistic one.

Good performance targets are SMART: Specific, Measurable, Achievable, Relevant and Timed.

- specific: clear, unambiguous and easy to understand by those who are required to achieve them
- measurable: there is no point setting a target for which success cannot be gauged by referring to a specific measure or measures
- achievable: expressing specific aims that staff feel can realistically be achieved, with some effort: 'out of reach, but not out of sight'
- relevant to those who will be required to meet them; they must have enough control over their work to be able to meet their targets, or their motivation will suffer
- timed: there should be a set timescale for achieving a target; open-ended targets may not encourage focused effort on improving performance.

(taken from *Office of Government Commerce: Successful Delivery Toolkit Website*)

This is, however, provided State and Federal governments play their role in introducing regulations, incentives and other measures. Community uptake will also be critical to success.

1.5 Audience

In order to plan and evaluate the Zero Waste Strategy in Manly, the target audience has been broken down into the following categories:

1. Schools
2. Local residents
3. Visitors
 - (a) Day-trippers
 - (b) Short term visitors
4. Business Sector
5. Council Staff

(Please note that the order of the target audience does not represent Council's priority)

For the purposes of the Zero Waste Strategy, the target audiences are defined as:

1. **Schools & Colleges:** teachers and students from both government and non-government schools and colleges in the Manly LGA. The following schools fall into this category:

- St Mary's Primary School
- Manly Village Primary School
- St Paul's Catholic College
- Royal Far West Primary
- Stella Maris College
- Balgowlah Heights Public School
- Manly West Primary School
- Balgowlah Boys High School
- Seaforth Public School
- Saint Ceceila School
- International School of Hotel Management & Catering

2. **Local Residents:** any person that lives in the Manly LGA.
3. **Visitors:** any person that visits Manly. This includes both the daytrippers, of which it is estimated some 6 million visit Manly every year, and the short-stay visitors such as backpackers and holiday-makers and business/conference attendees. These groups have very different impacts on the waste stream and waste generation.
4. **Business Sector:** any business or service provider that carries out its function within the Manly LGA. The business sector incorporates local industry and commercial operations.
5. **Council staff:** any staff member employed, including volunteers and contractors engaged by Manly Council. This includes, permanent, casual, contract, full-time and part-time employees.

The specific educational initiatives/programs outlined in Section 6, need to recognise the importance of engaging these various target audiences and tailor the programs to the specific needs of that group.

2. SUPPORTING LITERATURE/RATIONALE

International, National, and State Context

The Zero Waste Strategy is Manly Council's commitment to the continual reduction of waste. The actions identified within this strategy, have integrated relevant priorities from International, National and State Waste Education and Management plans.

International

Chapter 4 of *Agenda 21* – 'Changing Consumption Patterns' focuses on unsustainable patterns of production and consumption, as well as calling for Governments to develop national policies and strategies to encourage changes in unsustainable consumption patterns (UN 2000-2004). Education, a major part of this Zero Waste Strategy, has been identified by the United Nations as the most effective tool we possess to move society toward a sustainable future (UNESCO, 1997).

National

Objective 19.1 of the National Strategy for Ecologically Sustainable Development is to:

improve the efficiency of resource use and reduce the impact on the environment of waste disposal

Improvements in this area driven at the national level will impact positively on the community's ability to make significant reductions in waste generation. Objective 19.2 of the National Strategy for Ecologically Sustainable Development is to:

avoid the generation of hazardous wastes, improve management of those wastes which are generated and improve mechanisms for their clean up

Again, this objective is in line with Council's Zero Waste Policy, and Council would, in regard to hazardous waste, be well placed to help facilitate a safe and sustainable collection of such wastes.

Also at the national level, there exists a National Packaging Covenant. The National Packaging Covenant was designed to be an instrument for managing packaging waste in Australia. The goals of the Covenant are to minimise the environmental impacts of consumer packaging waste throughout the entire life cycle of the packaging product, close the recycling loop, develop economically viable and sustainable recycling collection systems and ensure that the voluntary process continues.

Manly Council believes the existing self-regulating Covenant should be replaced with a stronger covenant which, as stated in a Manly Council letter to the Australian Local Government Association:

"Requires the packaging industry to conform to the waste hierarchy of avoidance, reduction, re-use and recycling, with treatment and disposal clearly identified as undesirable and least preferred options."

Council also believes industry should accept responsibility for waste produced by its products, and that Container Deposit Legislation should be considered in the Covenant.

New South Wales

The NSW Waste Avoidance and Resource Recovery (WARR) Strategy 2003 provides a framework for reducing waste as well as making better use of our resources. Achieving a reduction in waste generation *and* turning waste into recoverable resources are priorities for NSW (Resource NSW 2003).

The WARR Strategy calls for an increase in the current resource recovery rate of 26% to around 66% by 2014 for the State overall.

3. STRATEGY DEVELOPMENT

The Zero Waste Strategy was developed and compiled through the following process, which included 5 major steps:

- Identifying the need for a Strategy
- Adoption of a “Towards Zero Waste Policy” by Council
- Analysis of relevant strategies and plans
- Consultation
- Adoption by Council

3.1 Identifying the need for a Strategy

Australia is the second largest waste producer per capita in the world. Manly Council has, however, traditionally produced far less waste per capita than other Sydney areas, and indeed, national areas. In light of this, and ongoing community concerns at the impacts of littering on ratepayers, the wider community and the environment, Council's Waste Management Committee recognised the need to further this example by developing a strategy aimed at helping Manly become a regional and national leader in moving towards zero waste, by securing a sustainable and waste-free future for the Manly community.

3.2 Analysis of Relevant Strategies and Plans

Various (current) International, National, State, and Manly Council strategies and management plans were analysed to:

- ensure the actions identified in this Strategy are in International, National, State, and local context
- integrate the relevant actions from the various strategies and management plans into the Manly Council Zero Waste Strategy

The details of the relevant strategies and management plans were outlined earlier in Section 2.2. The relevant actions from these documents have been incorporated into the action plan of this Strategy – Section 6.

3.3 Consultation Process

A consultation process was followed to ensure the Zero Waste Strategy was:

- Consistent with staff throughout Councils workplans to ensure the Zero Waste Strategy is integrated throughout Council
- Relevant to current community waste management issues

The process followed included:

1. Relevant staff consultation
2. Drafts provided to Manly's Waste Management Committee for comment and feedback

3. Public exhibition of the Zero Waste Strategy Draft through a media advertisement in local media and Precinct newsletters informing the public of a public exhibition period.
4. Review and adoption by Council.

4. IMPLEMENTATION AND EVALUATION

4.1 Auditing Against Targets

Yearly audits will be conducted to monitor the progress being made through implementation of the strategies actions. In order to achieve zero waste within 10 years, the following **indicative targets** (see table 1a) will need to be met for each year, starting with a 10% reduction in the first year.

Annual reviews will provide a basis for adaptive management of work towards zero waste.

Proportion of Total Waste (tonnages processed)

Waste Stream	2004/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15
Recycling (dry recycle)	6400	6375	6268	5847	5651	5323	5213	5019	5068	4900	4988
Organic Processing	1800	2150	2623	3158	3694	4096	4483	4711	4888	5077	5300
Disposal	7000	6300	5355	4284	3213	2410	1637	1181	827	449	104
TOTAL	15 200	14825	14246	13289	12558	11829	11333	10911	10783	10426	10392

Table 1a: Waste Avoidance and Resource Recovery Impacts, Manly 2004 and 2014 (*adapted from Local Government Action Plan – contributing to waste reduction and resource recovery in NSW: Consultation Paper, Resource NSW, December 2003*) *n.b. all figures are expressed in tones*

Proportion of Total Waste (percentages processed)

Waste Stream	2004/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15
Recycling (dry recycle)	43%	43%	44%	44%	45%	45%	46%	46%	47%	47%	48%
Organic Processing	12%	15%	18%	25%	29%	35%	40%	43%	45%	49%	51%
Disposal	45%	42%	38%	31%	26%	20%	14%	11%	8%	4%	~1%

Table 1b: Waste Avoidance and Resource Recovery Impacts, Manly 2004 and 2014 (*adapted from Local Government Action Plan – contributing to waste reduction and resource recovery in NSW: Consultation Paper, Resource NSW, December 2003*)

Avoidance and reuse are important issues and while difficult to measure (and hence not described in the above table), can contribute significantly to a decline in the material needed to be dealt with in moving toward zero waste. Further, home composting will make measurement of the organic processing rate increasingly difficult. It is expected that reductions made in the total amount of waste to landfill (disposal) should correspond to minor increases in the amount of dry recyclables processed and more substantial increases in the organic processing rate. Overall, however, the *total* figure, as shown in table 1a, is expected to fall over time.

4.2 Evaluation

The progress and outcomes of this strategy will be reported to Manly's Waste Management Committee. The outcomes will also be reported to the community through the Annual State of the Environment Report.

4.3 Review

This strategy is to be reviewed initially at the end of 2007. The review will consist of an evaluation of the progress of the actions identified in this strategy. The review will use this evaluation to identify the direction for the action plan of the Zero Waste Strategy. The review should take into consideration the emerging trends in waste management and education.

4.4 Responsibility

The strategies outlined in this plan are to be implemented over the next three years. Some actions are currently undertaken by Council and are intended as ongoing programs. Generally the strategies coincide with the existing responsibilities of officers or groups within Council.

The strategy recognises that waste education is interdisciplinary and must be integrated throughout all sections of council. The delivery of the various actions identified in the strategy, therefore, are the responsibilities of various council officers. For each of the actions, Section 7 identifies the officers/groups that have responsibility for implementation

5. HOW TO USE THE STRATEGY

The Zero Waste Strategy has been developed as a strategic planning document. It is aimed at all sectors of Manly Local Government Area (LGA), directing the initiatives as a tool to move Manly toward Zero Waste.

The strategy is divided into 6 main sections, determined by the key target audiences for Council's education programs. These consist of:

1. Manly Council
2. Local Residents
3. Visitors
4. Business Sector
5. Schools & Colleges
6. Lobbying

Definitions for each of these sectors of the Manly LGA (excluding Lobbying) have been provided earlier in Section 1.4.

Each of these sectors contains specific actions, identifies the responsible officer for those actions, links to other strategies and also identifies the priorities for those actions. The priorities are defined as:

<i>Priority:</i>	<i>HIGH: High Priority</i>	<i>Timeframe:</i>	<i>SHORT: action commenced within 12 months</i>
	<i>MEDIUM: Medium Priority</i>		<i>MEDIUM: action commenced within 2 years</i>
	<i>LOW: Low Priority</i>		<i>LONG: action commenced within 3 years</i>

Acronyms used in this document

AWT	Alternate Waste Technologies
C&D	Construction and Demolition (Industry)
CP	Corporate Plan
DC	Development Control
EMP	Environmental Management Plan
EM	Events Management
LGA	Local Government Area
LUM	Land Use Management
MSS	Manly Sustainability Strategy
MWS	Manager Waste Services
NRT	Natural Resource Team
PO	Purchasing Officer
WC	Waste Coordinator
WEO	Waste Education Officer
WMC	Waste Management Committee
WPO	Waste Policy Officer

6. EDUCATION STRATEGIES

6.1 Manly Council

Any Councillor or staff member employed, volunteers or contractors engaged by Manly Council. This includes, permanent, casual, contract, full-time and part-time employees.

Communication

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Ensure that the Council website contains clear reference to all waste minimisation strategies and initiatives, particularly highlighting the Zero Waste goal	WPO	CP (5.3.3)	High	Short	Actioned

Development Assessment

Action	Responsibility	Strategy Links	Priority	Time	Status
1. In assessing the waste implications of Development Applications for retail outlets, take the (legal) opportunity to apply consent conditions minimising waste generation (e.g. re the use of plastic bags for packaging)	DC; MWS		High	Short	Ongoing
2. In assessing the waste implications of Development Applications for local businesses, seek to impose consent conditions requiring comprehensive separation and removal of waste and recyclable materials.	DC; MWS		High	Short	Ongoing
3. Review the overall stringency and comprehensiveness of the Manly Council Waste Minimisation Development Control Plan	WPO	MSS (W22)	Medium	Medium	
4. Explore the capacity for greater monitoring of disposal of Construction and Demolition waste materials, within the context of the construction/demolition waste plan	DC; WPO	MSS (W6.4) CP (5.3.3)	Medium	Medium	

Rates/Levy

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Ensure that in preparing annual budgets the Domestic Waste Management charge reflects the full costs of waste collection/disposal and corporate overhead costs	MWS		High	Short	Ongoing
2. Council to consider rate rebates or incentives for organisations seeking to establish Resource Repair/Re-use/Exchange facilities within Manly. Funding might be subsidised from the Domestic Waste Charge levies	WMC; MWS		High	Short	Actioned
3. Council to consider providing grant funding for the establishment and development of a repair/re-use centre within the Manly LGA. Funding might be subsidised from the Domestic Waste Charge levies	WMC; MWS		High	Short	Actioned

Purchasing

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Develop a Sustainable Purchasing Policy	WPO; PO; Finance		High	Short	Actioned
2. Benchmark the current purchasing levels of recycled content products and materials used by Manly Council staff	PO; WPO	MSS (W2)	High	Medium	
3. Progressively increase the quantity of recycled content purchases	PO; all staff	MSS (W2)	High	Long	
4. Adopt internal policies and procedures to increase waste avoidance and reduction	WPO		High	Short	Actioned
5. Promote use of second hand materials in construction of Council infrastructure and facilities and place appropriate signage on the structures	MWS; WPO	MSS (W3)	Medium	Medium	Ongoing
6. Increase the level of purchases of more durable products and equipment	All Staff		Low	Medium	Ongoing
7. Participate in the Local Government Buy Recycled Alliance	WPO; PO		Medium	Medium	

Internal

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Review current staff training and support for internal waste, recycling and organic collection service on an ongoing basis and upgrade as needed	WEO; WPO	MSS (W1)	High	Short	Actioned
2. Continue to include waste avoidance reduction and management initiatives within the Environmental Management System program	WPO; NRT	MSS (W1)	High	Short	Actioned
3. Continue to include the public in the development of waste reduction initiatives by maintaining community representation on Council's Waste Management Committee, which should meet regularly and advise Council on Waste minimisation related matters	WMC		High	Short	Ongoing
4. Maintain the Council worm farm at the Balgowlah Depot	MWS		High	Short	Actioned
5. Ensure all food waste from staff kitchens is transported to the Council worm farm	WEO;WPO		High	Short	Actioned
6. Audit staff recycling and compost bins to determine necessity for/direction of staff waste education	WEO; WPO		Medium	Medium	
7. Provide staff training concerning waste avoidance in the workplace, possibly at staff inductions	WEO; WPO		High		

Waste Management Direction

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Seek grants from government or non-government agencies to assist with the funding of specific waste/litter reduction campaigns	WPO; WEO		High	Medium	Ongoing
2. Seek opportunities to collaborate with adjoining Councils in carrying out trials of systems designed to facilitate Zero Waste outcomes	WEO	CP (5.3.3)	Low	Medium	Ongoing
3. Train some staff as Earthworks Trainers to run Earthworks courses in Manly	WEO		High	Short	Actioned
4. Liaise and collaborate with neighbour Councils to ensure that consistent information is being provided	WEO; WPO	CP (5.3.3)	Medium	Short	Ongoing
5. Review the construction and location of public place recycling facilities to minimise the potential for contamination of recyclable material	MWS; WPO	MSS (W27) CP (5.3.2)	High	Short	Actioned
6. Continue to develop and implement the waste avoidance, reuse and recycling education component of the Manly Food and Wine Festival	WPO; WEO	MSS (W45) CP (5.3.3)	High	Short	Actioned
7. Continue to research the most sustainable way of managing waste at the Food and Wine Festival	WMC; WPO; WEO	MSS (W45) CP (5.3.3)	High	Short	Ongoing
8. Liaise and co-operate with the Department of Environment and Conservation in relation to waste reduction initiatives	WPO; WEO		Medium	Short	Ongoing
9. Develop a strategy aimed at reducing plastic bag usage, with a view to Manly becoming a "plastic bag free zone".	WMC		High	Short	Ongoing
10. Encourage event organisers to ensure events are waste free.	WPO; EM		High	Short	Ongoing
11. Ensure that the provision of comprehensive recycling facilities is a mandatory condition of approval for public places and events	EM; WPO		High	Short	Ongoing
12. Ensure that appropriate conditions are imposed in relation to waste management by users of all Council managed facilities.	EM; WPO		High	Short	

Keeping abreast of technology/advancement

Action	Responsibility	Strategy Links	Priority	Time	Status
1. In recognition of the fact that waste generation will continue for the foreseeable future, explore proposals for local Alternate Waste Technology developments that provide for the extraction and re-use of waste material	MWS; WPO	CP (5.3.3)	Medium	Medium	Actioned
2. Explore the sustainability and long-term costs and benefits of AWT proposals	WPO, WMC		Medium	Medium	Actioned
3. Ensure the relevant Council Staff are kept informed of the latest treatment technology and disposal practices to safeguard the environment	MWS; WPO	MSS (W25) CP (5.3.3)	Medium	Medium	Actioned

6.2 Local Residents

Any person that lives in Manly.

Communication

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Publicise and promote Council's Zero Waste Policy and communicate the vision of an enhanced environment	WPO; WEO	CP (5.3) CP (5.3.3)	High	Short	Ongoing
2. Promote waste avoidance, recycling and other current waste information to residents through a communication strategy	WPO; WEO	MSS (W40; W41) NSW EE Plan (9.12 and 9.14)	High	Medium	Actioned
3. Review and update the current informative and educational resources for residents regarding Council's waste service, waste avoidance and reduction objectives	WEO; WPO	CP (5.3.3)	High	Medium	Actioned
4. Work in conjunction with the community Precincts in the workshopping and implementation of waste management plans targeted at waste reduction, re-use and recycling options	WEO; WPO		High	Medium	
5. Hold a workshop for the community to give ideas on minimizing waste, improving recycling and composting. Include keynote speaker	WEO; WPO		High	Medium	
6. Ensure that all precinct community forums understand the strategy and provide them with ongoing support for their meetings, newsletters and notice boards.	WEO		High	Medium	Actioned
7. Communicate with residents in liaison with the Waste Co-ordinator to target specific contamination issues	WC	MSS (W 39) NSW EE Plan (9.12 and 9.14)	High	Short	Ongoing

Composting/Worm Farming

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Encourage domestic composting of both food scraps and vegetation through community workshops	WEO	MSS (W40; W41) NSW EE Plan (9.12 and 9.14)	High	Medium	
2. Develop opportunities for the promotion of domestic composting of waste products. Consider providing compost bins at no charge to the consumer	WEO	MSS (W40) CP (5.3.3)	High	Medium	
3. Develop opportunities for the promotion of domestic worm farms to reduce waste	WEO	CP (5.3.3)	High	Medium	

Re-use

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Explore partnerships with local charities and NGOs like Reverse Garbage to encourage people to donate useful items to charity	WEO	MSS (W 39) NSW EE Plan (9.12 and 9.14)	Low	Long	
2. Develop opportunities for the promotion of a range of re-use avenues for unwanted clean-up material e.g.: - The Salvation Army - St Vincent de Paul - Lifeline - Freecycle Website - Other similar websites	WEO		Medium	Medium	Ongoing

Waste Education Direction

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Conduct domestic waste and recycling audits to determine baseline data for future targeted waste education initiatives	WEO; WPO		Medium	Med/	Ongoing
2. Support activities for Clean Up Australia Day with emphasis on progressive reduction in the amount of waste needing to be collected	WEO		Medium	Short	Actioned

Minimisation

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Promote the concept of consumer buying power and behaviour in relation to supporting the local economy, buying products that are recyclable, buying second hand goods, avoiding excessive packaging and buying repairable items rather than those embracing planned obsolescence	WEO; WPO		Low	Medium	
2. Maintain a minimum size bin capacity for domestic waste collection, to encourage reuse, reduction and recycling	MWS	CP (5.3.1)	High	Long	Ongoing
3. Advocate for an environmental levy on plastic bags and hold a 'Free Manly of Plastic Bags' Week	WPO		Medium	Medium	
4. To continue to support and explore ways of integrating the education initiatives with the Manly Food Co-op	WEO		Medium	Medium	
5. Provide advice on "Smart Buying", aimed at helping residents purchase products with little or no waste.	WEO		High	Medium	
6. Encourage residents to minimise the incidence of "junk mail" by, for example, either the placement of a sticker on their letter box or by contacting The Australian Direct Marketing Association to minimise the incidence of such mail received	WEO		Low	Long	

Recycling

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Explore opportunities for supplying larger recycling bins to domestic properties where a real need is consistently demonstrated	MWS	CP (5.3.1, 5.3.2)	High	Short	Actioned
2. Provide an efficient separate collection service for unwanted white goods to ensure effective recycling and environmental integrity	MWS	CP (5.3.1, 5.3.2)	High	Short	Ongoing
3. Ensure that green waste (vegetation) is separated from the waste stream and is referred for recycling	WEO; MWS	CP (5.3.1, 5.3.2)	High	Short	Ongoing
4. Maintain/enhance a high level of promotion of kerbside collection of a wide range of recyclable materials	MWS	CP (5.3.1, 5.3.2)	High	Short	Ongoing
5. Explore partnerships with local charities and NGOs like Reverse Garbage to encourage people to donate useful items to charity	WEO	MSS (W 39) NSW EE Plan (9.12 and 9.14)	Low	Long	

Operational

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Explore the feasibility and implications of implementing a pay-by-weight general waste collection	MWS; WPO	MSS (9.10)	Medium	Medium	

Illegal Dumping/Littering

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Provide ongoing waste-related information to new, existing and departing residents via real estate agents/strata managers	WEO ;PO		High	Short	
2. Develop targeted education programs for residents in Multi Unit Dwellings in recognition of high dumping levels demonstrably associated with such buildings	WPO; WEO		High	Short	
3. Participate in, and develop, educational campaigns targeted at the reduction of littering and dumping.	WEO; WPO	CP (5.3.3)	High	Short	
4. Continue the implementation of the Litter Avoidance Strategy	WPO; WEO	CP (5.3.3)	High	Short	
5. Consider the implementation of closed circuit television monitoring at chronic dumping sites	MWS; WPO		Medium	Medium	

Hazardous Waste

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Facilitate a convenient, regular free household hazardous waste recovery service at a convenient location	WEO; WPO	MSS (W24)	High	Short	Ongoing
2. Provide advice to residents concerning the safe and appropriate disposal of such materials	WEO		High	Short	Ongoing

6.3 Visitors

Any person that visits Manly.

Day-trippers

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Promote awareness of Manly's Towards Zero Waste goal	MWS,WPO,WEO WMC		High	Medium	
2. Enforce lease conditions on outdoor eating licenses to prohibit use of single serve items.	WPO		Medium	Medium	Actioned
3. Use existing festivals/environmental days to celebrate our local environment and provide positive and simple everyday solutions for people to reduce waste	WPO; WEO; W M C	MSS (W45) NSW EE Plan (9.12 and 9.14) CP (5.3.3)	High	Short	Ongoing
4. Continue implementation of Litter Avoidance Strategy	WPO		High	Short	Ongoing
5. Liaise with Sydney Ferries and Sydney Buses to determine possibilities of having voice announcements on ferries and visual campaigns on buses to bring attention to zero waste and/or littering.			High	Short	Ongoing
6. Examine the feasibility of increasing the number and spread of public recycling bins to be co-located with public litter bins	WPO	MSS (W27)	High	Short	Actioned

Short-stay and backpackers

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Publicise the existence of "Freecycle" as a free means of reusing unwanted items of visitors leaving Manly	WEO; WPO	MSS (W24)	Medium	Medium	Ongoing
2. Develop a program that targets Manly's transient population through the development of relationships with local backpackers and hostels	WEO		High	Short	

6.4 Business Sector

Any business or service provider that carries out its function within the Manly LGA.

Communication

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Publicise and promote Council's Zero Waste Policy and communicate the vision of an enhanced environment	WEO; WPO	CP (5.3.3)	High	Medium	
2. Implement the controls outlined in the Development Control Plan for Waste Minimisation and Management as a tool for educating the construction and demolition sector in regard to waste avoidance	DC; WPO; MWS		High	Short	Ongoing
3. Educate and publicise Kimbriki Recycling Centre financial incentives to the construction Business Sector where materials are pre-sorted and recycled rather than land-filled.	WEO	MSS (W6.2; 6.4)	High	Short	Ongoing
4. Promote waste issues, including waste avoidance and reduction to local businesses by the dissemination of a range of resources and using champions and case studies	WEO; WPO; WMC	MSS (W8)	High	Medium	
5. Provide a Zero Waste advisory service for local businesses	WEO; WPO		Medium	Medium	
6. Develop a targeted education program for commercial operations (non Council trade waste clients)	WEO		Medium	Medium	
7. Develop a targeted education program for commercial waste collection operations (Council trade waste clients)	WEO		Medium	Medium	

Partnerships

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Seek to establish a local "plastic bag free zone" in conjunction with retailers, Chamber of Commerce and other immediate stakeholders	WPO; WMC	MSS (9.6)	High	Short	Actioned
2. Encourage commercial and industrial businesses to reduce and reuse office and other waste, by providing information on options for recycling and promoting benefits	WEO	MSS (W9.4) CP (5.3.2)	High	Medium	
3. Support actively those community and business/industries who reduce their waste by: - Providing achievement awards- link in with the Annual MEC Green Business Awards - Providing incentives for households to avoid and further decrease waste - Allowing business/Business Sector achievements to be displayed at the Council Chambers	WEO; WPO	MSS (W 8)	Medium	Medium	
4. Identify from existing client records the big "wasters" and work directly with the client to identify their waste problems and find solutions	WEO		High	Medium	
5. Work closely with all local commercial operators to address packaging problems and overall waste generation	WEO		Low	Long	
6. Develop and implement effective strategy for liaising with real estate agents and strata management to enable an information flow to new residents	WEO		High	Short	Ongoing

7. Provide advice and information and facilitate implementation of green waste systems in organisations.	MWS; WEO		Medium	Medium	
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6.5 Schools & Colleges

Teachers and students from both government and non-government and the primary and secondary schools in the Manly LGA.

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Assist schools in integrating waste minimization objectives into the syllabus	WEO	CP (5.3.2, 5.3.3)	Low	Long	
2. Attend classes to run exercises such as - the “Recycling Olympics”, - building worm farms, - conducting waste audits	WEO		Medium	Medium	Ongoing
3. Help schools develop an Environmental Management Plan for their school grounds to prevent and reduce waste. Where an EMP exists already, assist in integrating school ground waste reduction initiatives.	WEO	NSW EEPLAN (9.14); DET EE Policy	Medium	Medium	Ongoing
4. Explore opportunities for the use of the community garden on a school’s grounds for workshops and explore other opportunities for other community gardens, including a working worm farm	WEO	MSS (W 41);	High	Medium	Ongoing
5. Work in conjunction with local schools and similar institutions (e.g. child care centres) in the development of waste management plans targeted at waste reduction, re-use and recycling options	WEO	CP (5.3.3)	High	Medium	
6. Promotion of waste free canteens			High	Medium	
7. To continue to support and explore ways of integrating the education initiatives with the Manly Food Co-op	WEO		Medium	Medium	

6.6 Lobbying

Action	Responsibility	Strategy Links	Priority	Time	Status
1. Council to continue to advocate for and make representations to the Department of Environment and Conservation and both Federal and State Ministers, for the introduction and implementation of Container Deposit Legislation.	WMC	MSS (W13)	High	Short	Ongoing
2. Council to support and participate in Department of Environment and Conservation initiatives dealing with Extended Producer Responsibility issues affecting (inter alia): - Computers - Televisions - NICAD batteries - Used tyres - Plastic bags - Agricultural/ veterinary chemicals - Agricultural/ veterinary chemical containers - Mobile Phones and batteries - Packaging waste other than plastic bags - Cigarette litter - Office paper - Polyvinyl Chloride - Electrical products - Treated timber - End-of-life vehicle residuals - Household hazardous and chemical waste	WMC	MSS (W14)	High	Medium	
3. Lobby for consistent lid colours on mobile garbage bins to improve resident familiarity when moving areas, thus minimizing contamination	WMC; WPO		High	Medium	
4. Lobby for bottle manufacturers to begin using recyclable plastic on bottle lids	WMC		Low	Long	
5. Advocate for an environmental levy on plastic bags and hold a 'Free Manly of Plastic Bags' Week	WPO		Medium	Medium	
6. Lobby for a regional repair/re-use centre	WMC	MSS (W42)	High	Medium	
7. Advocate for the replacement of the National Packaging Covenant with a more rigorous and effective tool.			High	Short	
8. Council to support and participate in Department of Environment and Conservation initiatives dealing with Virgin/New Materials Tax or a Used Material Tax Exemption.	WMC	MSS(W11)	Medium	Medium	
9. Lobby for allowing 'point-of-sale return' of products and packaging by consumers (via retailers) to manufacturers.	WMC		High	Short	
10. Lobby for introduction of informative product labeling regarding the waste and environmental impacts of consumer goods			Medium/	Long	

11. Lobby for the introduction of a nationally accredited (and required) Life-Cycle Analysis labeling system on all	WMC		Medium/	Long	
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products.					
12. Lobby State and Federal Governments to develop and facilitate Waste Management Committees similar to that facilitated by Manly Council at the local level	WMC		Medium	Medium	
13. Lobby for a 'Revenue – Neutral Rebate Scheme'	WMC		Medium	Medium	
14. Lobby for State Government to reinvest profits made from Waste Disposal into projects aimed at achieving waste elimination	WMC		Medium	Medium	
15. Consider the use of a weekly/monthly slot on Northern Beaches Community Radio to spread an ongoing message and to report progress.	WMC		Low	Long	

7 REFERENCES

- An assessment of attitudes and behaviour amongst multiunit dwelling residents in relation to Illegal Dumping*
Department of Environment and Conservation (NSW) April 2004.
- Educating for Sustainability Conference, Sydney October 2003
- Enviro '04 Convention and Exhibition, Sydney March 2004. 2004 Forum on Sustainability.
- Environment Australia, (1999) *Today Shapes Tomorrow: Environmental Education for a Sustainable Future*, Canberra
- Environment Australia, (2000) *Environmental Education for a Sustainable Future: National Action Plan*, Canberra
- Getting There! The Road to Zero Waste*. Jennison; New Zealand, August 2003.
- Manly Council (2002) *Manly's Sustainability Strategy: Blueprint for our future*, Manly Council, Manly NSW
- Ecologically Sustainable Development Steering Committee (1992). *National Strategy for Ecologically Sustainable Development*. Endorsed by the Council of Australian Governments
- No Waste by 2010: A Waste Management Strategy for Canberra*. ACT Waste 1996.
- Office of Government Commerce: *Successful Delivery Toolkit Website*. United Kingdom
- Resource NSW, December (2003) *Local Government Action Plan – contributing to waste reduction and resource recovery in NSW: Consultation Paper*
- The New Zealand Waste Strategy: Toward Zero Waste and a Sustainable New Zealand*. NZ Ministry for the Environment, March 2002.
- UNECOSO (1992) United Nations Conference on Environment and Development: *Agenda 21*, UNESCO, Switzerland.
- UNESCO (1997) 'The Content of Education for Sustainable Development', *Environment and Society: Education and Public Awareness for Sustainability*, Proceeding of the Thessaloniki International Conference organised by UNESCO and the Government of Greece (8 – 12 December 1997) University of Athens, Athens.
- Waste Wise 2002-2005: A Waste Management Strategy*. City of Melbourne Council, 2001.
- www.zerowasteamerica.org
- Zero Waste in 10 years: An Integrated and Comprehensive Waste Elimination Strategy*. Peter Hopper (2004)



Manly Council

Litter Avoidance Strategy

Prepared by Manly Council
August 2003

1.0 Introduction

Manly Council is committed to achieving ecological sustainability at the local level. As part of this commitment, Council has identified litter avoidance and management as a priority. Litter is of concern because it:

- Reduces the visual appeal of public places including streets, parks and waterways and attracts further littering.
- Can affect aquatic life directly (through physical harm) and indirectly through its impact on water quality.
- Can decrease oxygen levels when it decays in water.
- Can cause blockages of the drainage system and flooding.
- Can be dangerous to people, particularly when it involves items such as broken glass, needles and syringes.
- May be a fire hazard (lit cigarettes being thrown from vehicles).
- Costs the community huge sums of money to clean up every year.
- Provides shelter and attraction for vermin.
- Results in a loss of resources when recyclable material ends up going to landfill.

(Source: NSW EPA)

The Manly Local Government Area (LGA) is a unique environment and its conservation is important at a local, regional and national level. This Litter Avoidance Strategy is intended to provide a mechanism to avoid litter and thereby reduce the impact on the natural and built environment. It has been developed to incorporate the principles of ecologically sustainable development and total catchment management.

There are numerous actions that can be taken to avoid litter entering the waterways of Manly. Programs targeting the various aspects of the 'treatment train' need to be addressed. The treatment train concept refers to management techniques implemented at the various stages of a process, beginning through end.

The litter treatment train has three major focuses: avoiding litter being deposited, avoiding litter entering the drain and creek system and avoiding litter entering the harbour and ocean. This approach underpins the Manly Litter Avoidance Strategy.

1.1 Manly Local Government Area

Manly LGA is located at the southern end of the Manly - Warringah peninsula of the Northern Beaches and covers a diverse range of residential, business, industrial and natural landscapes. The area has a boundary of 39.4km, of which 29.9km is a water margin. No part of Manly is more than 1km from either the Harbour or ocean.

Manly is located within two catchments, the Sydney Northern Beaches Catchment and the Middle Harbour Catchment. The Sydney Northern Beaches Catchment comprises a number of smaller sub-catchments, all draining into the Pacific Ocean.

Water from the Sydney Northern Beaches catchment also drains into the Pacific Ocean either directly through stormwater pipes onto the ocean beaches, or by entering Manly Lagoon.

Manly Council owns and manages 47 reserves, including 29 hectares of remnant bushland. In addition, the LGA encompasses 269ha of National Park and 70 ha of Crown Land. These habitats support a number of endangered flora and fauna species. Approximately 90% of the remnant bushland is degraded by some form of human activity.

The residents of Manly have identified bush preservation and regeneration as an important part of managing the local environment (Manly Conservation Strategy, 1998). The focus of managing bushland in the area is to ensure its quality is maintained.

In addition to the pressure of urban development in the LGA, tourism, as the major industry of Manly, has an impact on the local environment. It is estimated that more than 6 million visitors come to Manly each year. The resultant cost implications of managing litter are significant.

1.2 Definitions

Litter -

The *Protection of the Environment Operations Act 1997* defines litter as:

"Litter includes:

- a. any solid or liquid domestic or commercial refuse, debris or rubbish and, without limiting the generality of the above, includes any glass, metal, cigarette butts, paper, fabric, wood, food, abandoned vehicles, abandoned vehicle parts, construction or demolition material, garden remnants and clippings, soil, sand or rocks, and
- b. any other material, substance or thing deposited in a place if its size, shape, nature or volume makes the place where it is deposited disorderly or detrimentally affects the proper use of that place,

Deposited, in or on a place, whether or not it has any value when or after being deposited in or on the place."

1.3 Objectives

1. Identify strategies to avoid littering.
2. Identify strategies to avoid litter entering Middle Harbour and Northern Beaches Catchments.
3. Identify strategies to avoid litter entering Sydney Harbour and The Ocean.

1.4 Local Policy

Manly Council has long been an advocate of Container Deposit Legislation (CDL). Council has adopted this position with the expectation that CDL would serve as an educative tool and raise community awareness of waste avoidance and minimisation. It is also expected CDL would have a positive impact on littering behaviour in the community and reduce the amount of material disposed at landfill. Council also supports CDL as an impetus for producers and consumers to take responsibility for the waste they produce and the associated costs to dispose of.

This position was reiterated at a Service Planning and Commissioning Committee meeting on 30th October 2000, where it was resolved to prepare a submission to the Independent Review of the Container Deposit Legislation outlining the benefits and implications of CDL to Council.

This strategy proposes to continue to implement Council's resolved position and actions in the Manly Sustainability Strategy 2002, which includes continued lobbying for CDL and Extended Producer Responsibility.

This Strategy also notes the Commonwealth Government media release of 23 May 2003 - "Retailers must toughen stance on plastic bags". Council will provide support, where possible, to local initiatives aimed at reducing the number of plastic bags going to landfill.

There are a number of other Government and Council policies that have provided direction for the development of the Litter Avoidance Strategy. The strategy is intended to integrate these requirements into a framework that provides a comprehensive approach to litter avoidance and management and enables the Manly community to address the problem of littering in a thorough and practical way.

1.4.1 Corporate Plan

Council's Corporate Plan, includes an action as part of Waste Avoidance Education (Section 5.4.3), to:

“Develop policy and procedures for the management of litter in the Manly area”.

The Corporate Plan also identifies the following actions as part of Council's commitment to cleansing (Section 5.4.4):

“To maintain Manly streets, public places, parklands, reserves and beaches free of litter and waste material ensuring the principles of Total Catchment Management and Ecologically Sustainable Development”.

“Improve the collection of litter throughout the municipality, especially low lying drain areas with the maintenance program”.

1.4.2 Manly Sustainability Strategy

The Manly Sustainability Strategy also identifies a number of actions to achieve sustainability in regard to litter management. They are listed in Table 1.

Table 1: Litter Management Actions as Identified in the Manly Sustainability Strategy.

Reference	Action
AQ 22 AQ 22.1 AQ 22.4	Raise awareness of practices that pollute waterways by encouraging and educating the community to: • Dispose of rubbish responsibly • Report pollution incidents such as illegal chemical, oil and waste dumping to EPA
AQ23	Enforce littering laws around the wharf area, waterways and beaches with on the spot fines.
B1.6	Control and manage access to areas of bushland to prevent physical damage to the environment and reduce illegal dumping by identifying potential problem areas, placing appropriate signage and restricting access to trails only.
W13	Lobby for container deposit legislation - encourage reuse of glass containers.
W14	Promote legislation for reduction of packaging at source - Extended Producer Responsibility programs.
W27	Assess placement of bins.
W29	Education of 'take your litter home' message.
W30	Encourage covers over loads on vehicles.
W31	Investigate cleaning methods of shopping centres, hotels, shops etc to ensure litter is not flushed down the drains.
W32	Enforce appropriate legislation and local laws in regard to littering, following education and awareness programs. Hold education blitzes. Publicity - warning - enforcement.
W33	Install further drainage pit litter traps around Manly in areas identified as being 'hot spots' for litter and garbage.
W38	Participate in Keep Australia Beautiful Council's 'City Pride' competition and other State and Federal funded litter reduction programs.
W44	Liaise with local media to promote litter awareness.

1.5 Regional Policy

1.5.1 Sydney Regional Coastal Management Strategy

Council is responsible for implementing the litter abatement measures as described in the Sydney Regional Coastal Management Strategy.

Government Policy and Coordination (1.1.1)

“Identify point and non-point water pollution sources considering various pollution sources including, though not limited to, sewage overflows, road runoff, industrial, commercial and residential discharges, waste sediments and gross pollutant contributions, and poor site controls. Education programs to run concurrently with the undertaking of catchment or sewerage system audits include encouraging the adoption and implementation of best management practices for the implementation of water pollution by industry, developers, residents and waterway users”.

Stormwater Pollution Mitigation (1.3.2 - 3)

“Continue to investigate and install stormwater pollution interception and treatment devices in high priority areas assessed via catchment studies”.

“Continue and/or reintroduce regular mechanical street sweeping as a means of improving receiving water quality”.

1.6 State Projects - NSW Environment Protection Authority

The New South Wales Environment Protection Authority has identified litter as a significant environmental threat and in response has developed a litter prevention program. The objectives of this program are to:

- Increase knowledge about the litter problem and its impacts.
- Support community action and community information programs.
- Translate general anti-littering messages to address specific audiences, littering behaviours and impacts.
- Develop partnerships with community groups, local government and waste boards on local/regional programs.

New South Wales councils have been encouraged to incorporate these initiatives into the own litter management programs.

1.7 Sources of Litter

Council has identified these sources of litter in Manly:

- Littering food/drink containers, cigarette butts, paper, plastic bags and similar deposited from cars, carelessly/intentionally deposited, left behind unawares.
- Illegal dumping in reserves, bushland and roadsides.
- Organic litter accumulating in roadside gutters.
- Advertising material not delivered correctly.
- Posters on poles.
- Unsecured loads.
- Building sites without adequate litter controls.
- Full bins allowing litter to blow away.
- Uncollected dog faeces.
- Bird droppings on outdoor furniture and paving.
- Washed onto the beaches from outside sources.
- Seaweed on the ocean and harbour beach (this is a natural process but the seaweed presents a management issue once it accumulates on the beach).

1.8 Litter Summit

Manly Council conducted a litter summit in August 2001. Members of the residential and business community were invited to attend a workshop with representatives from government agencies and Council to discuss issues relating to litter avoidance and management. The outcomes of the litter summit provided a framework on which to base this litter strategy.

Litter summit participants identified key reasons to address littering issues in Manly. These are summarised as:

- Public safety
- Impacts on the environment - pollution/amenity
- Showcase Council and community as a role model of sustainability
- Encourage respect of land and other people
- Promote better use of resources
- Increase the appeal of Manly as a residential, business and recreational community.

Participants also identified actions to address littering under the broad categories of education, compliance and infrastructure/management. These actions have been incorporated into section 2 of this strategy. Part of identifying the actions was to nominate appropriate indicators that would allow the outcomes to be quantified.

In addition, Council's recent "Who Cares about Manly's Environment" survey identified littering as being perceived as one of the major environmental problems by the community.

2.0 Litter Avoidance Strategies

The litter treatment train has three major focuses: avoiding litter being deposited, avoiding litter entering the drain and creek system and avoiding litter entering the

harbour and ocean. The strategies to address littering are identified according to this treatment train.

2.1 Avoidance - Preventing Litter from Being Deposited

2.1.1 Education

A litter study conducted by the Beverage Industry Environment Council (1997) highlighted that:

1. Litter prevention strategies must address littering behaviour of all age and social groups.
2. Special initiatives and campaigns need to be targeted to certain types of littering.

Research suggests that the majority of people are aware that littering is unacceptable yet this is not reflected in their behaviour. The goal of anti-littering education is to change people's behaviour. It should draw people's attention to the problems caused by litter and make an association between their littering behaviour and the overall problem.

Education strategies should be targeted at particular issues and address the major sources of litter. If the outcomes are quantifiable and improvements noticeable then it can provide incentive to reduce litter further and extend the change in behaviour into other less obvious areas of concern. The education strategy should promote community ownership of the issue and the outcomes thereby developing a sense of community pride.

Particular littering issues can be identified by reviewing of information relating to litter complaints and observations from the community and staff and by undertaking audits to establish a litter profile for particular areas. This will allow educational strategies to be targeted where they will be most effective.

It is important that Council seek existing and future funding options to support litter education.

Note: In the priority column high refers to 1-2 years, medium 2-3 years and low 3-4 years.

Table A: Litter Avoidance Education Actions

Reference	Action	Responsibility	Priority	Corporate Plan Reference
A1	Include an anti-littering message on Council stationery.	CCS/PDE	Medium	5.3
A2	Promote Council's anti-litter slogan "Keeping the Scene Clean".	PDE/W&C	High	5.3
A3	Include particular anti-	PDE/W&C	High	5.3

Litter Avoidance Strategy

	littering messages with other waste education materials.			
A4	Undertake a program to label drains with anti-littering messages.	PDE/AMC	High	5.3
A5	Include anti-littering messages in addresses to schools, community groups and other organisations already undertaken by Council officers, particularly Waste and Environment Education Officers.	MEC/ Rangers/ W&C	Medium	5.3
A6	Develop and promote <i>Drainwatch/Streamwatch</i> as an education program for community, schools and industry to highlight impacts of littering. This may include some financial assistance with initial costs.	MEC/	Medium	5.3
A7	Use local events and other opportunities to promote anti-littering in the local media.	PDE	High	5.3
A8	Include an anti-littering aspect to the waste avoidance message of the Manly Food and Wine Festival.	CICS/ MEC/ PDE/ CCS	Medium	5.3
A9	Develop and install anti-littering promotional signage on all Council waste collection vehicles.	CCS/ W&C	High	5.3
A10	Develop plans to target specific littering issues on a 6 monthly basis. This may include following up on Waste Committee initiatives.	PDE	High	5.3
A11	Participate in cross regional and state litter education programs.	PDE/W&C/ Rangers	High	5.3
A12	Work with Sydney Ferries to promote anti-littering message to tourists.	PDE/W&C	High	5.3
A13	Put up signs near all	AMC	Medium	5.3

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	pollution control devices explaining what they are and why they are needed.			
A14	Support and assist precinct/community programmes to address littering issues	PDE/W & C/AMC	High	5.3
A15	Seek cooperation of businesses to ensure employees and patrons are aware of the anti-littering message. • Promote litter free packaging • Provide disposal facilities • Facility lease agreements	PDE/W&C/ CCS	High	5.3
A16	Condition lease agreements for Outdoor Eating Premises to prohibit the use of paper napkins/serviettes, the use of disposable single serve sachets for sugar, salt, pepper etc.	PDE/CCS	High	5.3
A17	Continue to lobby for Container Deposit Legislation	PDE/W&C	Medium	5.3
A18	Develop programs and provide support for initiatives aimed at reducing the number of plastic bags going to landfill.	PDE/W&C/C CS	High	5.3

2.1.2 Compliance

Littering laws are designed as a deterrent and the compliance of these laws is also a form of education.

Traditionally enforcement of littering laws has been difficult since it is often viewed as a minor offence. Changes to the littering laws were introduced on 1 July 2000. These changes were intended to address some of the inadequacies of the previous legislation.

The authority to issue infringement notices for littering is delegated to Council's rangers and environmental health officers.

The penalties are:

On-the-spot fines

- Littering with a small item - \$60
- Littering with unlit cigarette or extinguished cigarette butt (excluding littering from a vehicle) - \$60
- Littering with a lit cigarette butt (excluding littering from a vehicle) - \$200
- Littering from a vehicle (any type of litter) - \$200 individuals/\$400 corporations
- General littering (excluding cigarettes and littering from a vehicle) - \$200 individuals/\$400 corporations
- Aggravated littering - \$375 individuals/\$750 corporations
- Depositing advertising material in a public place or on vehicle - \$200 individuals/\$400 corporations
- Causing or asking person to deposit advertising material contrary to Act - \$200 individuals/\$400 corporations

Court Hearings

- Littering (including from vehicles) - \$1100 individuals or corporations
- Aggravated littering - \$3300 individuals/\$5500 corporations
- Depositing advertising material illegally – \$550 individuals or corporations
- Causing someone to deposit advertising material illegally - \$770 individuals/\$3300 corporations.

Table B. Litter Avoidance Compliance Actions

<i>Reference</i>	<i>Action</i>	<i>Responsibility</i>	<i>Priority</i>	<i>Corporate Plan Reference</i>
B1	Provide ongoing training for compliance officers in appropriate enforcement of the Protection of the Environment Operations Act with a commitment of time and resources to litter infringement enforcement.	CCS	Ongoing	
B2	Consider authorising other Council staff, such as beach patrol staff, to issue infringement notices.	CCS/ SDB	Medium	
B3	Promote penalties for littering offences.	CCS/PDE/ W&C	High	
B4	Continue to maintain accurate records of	CCS	High	

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	number and type of infringements issued. This will include a half-yearly report from the Rangers Co-ordinator detailing any difficulties encountered and specific issues for possible action.			
B5	Conduct regular enforcement campaigns targeted at specific issues at locations where problems are known to occur and at times when problems are known to occur.	PDE/CCS/W&C	High	
B6	Consider implementing an anti-rubbish dumping campaign with SHOROC.	PDE	Medium	
B7	Coordinate enforcement blitzes to coincide with educational activities.	CCS/W&C/PDE	High	
B8	Ensure commercial premises provide suitable facilities for disposal of litter.	W&C/ PDE	Medium	
B9	Provide ongoing training for Honorary Rangers to assist with litter avoidance compliance	PDE/CCS	Medium	

2.2 Avoidance - Preventing Litter from Entering the Drain and Creek System

Once litter has entered the waste stream there are a number of control mechanisms that can be used to reduce the impact of litter on the environment. Council has implemented such initiatives in the past. Outlined below are strategies to increase the effectiveness of the existing litter control techniques and outlined new possibilities.

Table C. Public Place Litter Bins

<i>Reference</i>	<i>Action</i>	<i>Responsibility</i>	<i>Priority</i>	<i>Corporate Plan Reference</i>
C1	Conduct an audit of bin placement	PDE	High	

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C2	Develop a best practice criteria for bin placement	PDE	High	
C3	Ensure be tidy bin servicing is maintained to a standard where bins are always able to be used - i.e. not overflowing	W&C/AMC/ PDE	High	
C4	Investigate bin infrastructure that minimises the capacity for dumping of commercial and residential waste.	AMC/PDE	Medium	
C5	Provide a bin maintenance programme.	AMC/PDE	High	

Table D. Street Sweeping

<i>Reference</i>	<i>Action</i>	<i>Responsibility</i>	<i>Priority</i>	<i>Corporate Plan Reference</i>
D1	Review street sweeping program to take into consideration schedule, sweeping frequency and methodology.	W&C/AMC	High	
D2	Support mechanical street sweeping with manual resource assistance as required.	W&C	High	
D3	Broaden street sweeping focus to include start of line stormwater pollution.	W&C/AMC	Medium	
D4	Maintain a daily sweeping programme in The Corso and Ocean Beach Front.	W&C/AMC	High	

Table E. Public Place Cleaning

<i>Reference</i>	<i>Action</i>	<i>Responsibility</i>	<i>Priority</i>	<i>Corporate Plan Reference</i>
E1	Enhance servicing to carpark and bus shelters	W&C/AMC	Medium	

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	through both mechanical and manual means.			
E2	Maintain and enhance cleaning of public plazas and other high use areas.	W&C/AMC	Medium	

Table F. Building Site Control

<i>Reference</i>	<i>Action</i>	<i>Responsibility</i>	<i>Priority</i>	<i>Corporate Plan Reference</i>
F1	Ensure building site litter control measures comply with legislation.	PDE/LUM	Medium	
F2	Include a reference to litter control in the Development Application conditions and on the pollution awareness sign specified in the Residential DCP.	PDE/LUM	Medium	

Table G. Domestic/Commercial/Industrial Waste Collection

<i>Reference</i>	<i>Action</i>	<i>Responsibility</i>	<i>Priority</i>	<i>Corporate Plan Reference</i>
G1	Offer lockable bins to trade waste customers	W&C	Low	
G2	Maintain work protocols that prevent littering during bin servicing.	W&C	High	
G3	Consider providing only lidded containers for paper collections.	PDE/W&C	Medium	

Table H. Bushland Management

<i>Reference</i>	<i>Action</i>	<i>Responsibility</i>	<i>Priority</i>	<i>Corporate Plan Reference</i>
H1	Include litter management as an issue to be	PDE/AMC	Medium	

Litter Avoidance Strategy

	addressed when preparing plans of management for parks and reserves.			
H2	Maintain and enhance resources to address littering hotspots and illegal dumping in bushland	AMC/PDE	Medium	

2.3 Avoidance - Preventing Litter from Entering the Harbour and Ocean

If litter has entered creeks and drainage systems controls need to be put in place to prevent it reaching the Harbour and the Ocean. This is considered an 'end of pipe' solution but is an important method of reducing the impact of litter on the marine environment.

Table I. Creek Management

<i>Reference</i>	<i>Action</i>	<i>Responsibility</i>	<i>Priority</i>	<i>Corporate Plan Reference</i>
I1	Continue to improve creek environments through restoration and revegetation including removal of litter.	AMC/PDE/MEC	Medium	
I2	Support clean-up programmes in local waterways.	AMC/PDE/MEC/W&C	Medium	

Table J. In-stream Pollution Control Devices/ Pit Cleaning

<i>Reference</i>	<i>Action</i>	<i>Responsibility</i>	<i>Priority</i>	<i>Corporate Plan Reference</i>
J1	Maintain cleaning/emptying schedule of pollution control devices.	AMC	High	

Table K. Foreshore Cleaning

<i>Reference</i>	<i>Action</i>	<i>Responsibility</i>	<i>Priority</i>	<i>Corporate Plan Reference</i>
K1	Maintain and enhance beach raking service and	W&C/AMC	High	

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	supplement with manual resources where required			
K2	Investigate options for new/ innovative equipment for foreshore cleaning.	W&C/AMC	Low	

3.0 Implementation

3.1 Responsibility

The strategies outlined in this plan are to be implemented over the next three years. Some actions are currently undertaken by Council and are intended as reoccurring programs. Generally the strategies coincide with the existing responsibilities of officers or groups within Council.

Council's Waste Policy Officer is responsible for monitoring progress and facilitating implementation of the actions outlined in this strategy. Included with each of the actions is the officers/groups that have responsibility for implementation.

3.2 Budget

Each of the actions outlined in the plan is funded through Council's general budget allocations, Council's environment levy and/or grants.

4.0 Evaluation and Review

4.1 Evaluation

The progress and outcomes of this strategy will be reported to the Waste Management Committee. The outcomes will also be reported to the community through the State of the Environment Report.

Evaluation will be based on the progress of specific projects related to the strategies identified in this document.

Council will also examine the feasibility of conducting litter audits. Future audits will then be used to provide an indicator of the effectiveness of the litter avoidance and management strategies.

A periodic survey will be undertaken in conjunction with sections within Council to ascertain community knowledge and understanding of specific litter avoidance and management issues. This information will also provide as a basis for directing future litter avoidance and management projects.

4.2 Review

This three-year strategy is to be reviewed at the end of the financial year 2004/2005 to ensure the key areas identified. As part of the review consideration should be giving to the outcomes achieved and the emerging trends in litter management.

4.3 Associated Strategies/Management Plans

- Manly Council Corporate Plan
- Manly Sustainability Strategy