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## Case Study: Casino Golf Club 2010

### Casino Golf Club

Casino Golf Club is located on West St, Casino and is open 7 days of the week. The Club was established in 1905 and includes an 18 hole course, a restaurant, a bar and a pro shop. The Club holds weekly competitions and hosts annual tournaments for both amateurs and experienced golfers.

At the commencement of the project, Casino Golf Club contracted Richmond Waste for the removal of cardboard and paper and waste. The cardboard was collected in a 1.5m<sup>3</sup> skip on a fortnightly basis. The waste was collected in a 1.5m<sup>3</sup> skip twice a week. At times, organics were separated by the staff in the restaurant and taken home to feed stock.



*Casino Golf Course fairway*

A waste audit was conducted on site in February 2010. The results formed the basis of the Waste Reduction Action Plan developed in collaboration with the manager.

### The Challenge

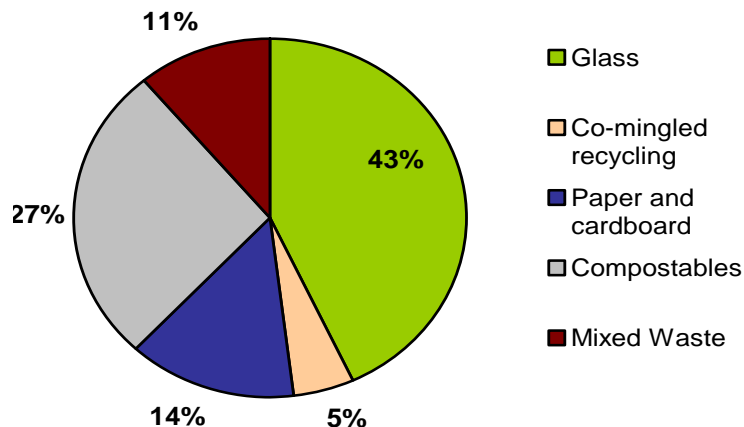
The lack of services in the area for recycling inhibited this business from recycling. Over the period of the project Richmond Waste initiated a co-mingled recycling service for businesses which enabled the business to separate recycling.

### Waste Characterisation

Casino Golf Club produces 3m<sup>3</sup> (or 3000L) of waste per week. Of this waste, 75% of the materials being disposed of are able to be recycled. The largest components include glass (17%), plastics (28%) and paper (13%). The glass and plastics are primarily from drink containers which could be easily separated behind the bar. The paper is mainly produced from the TAB betting area and in the office.

An additional 7% of cardboard could be directed into the existing cardboard skip, as could the paper and paper towel if separate bins were located in the club for paper collection.

The graph below outlines the different materials found in the waste bins.



#### Cardboard Skip

A full 1.5m<sup>3</sup> skip of cardboard is collected each fortnight. The skip contained minimum contamination of plastic packaging of less than 1%. A small amount of cardboard was present in the waste skip, potentially due to capacity reached in the cardboard skip at the end of the fortnight. Some cardboard packaging related to goods from the Pro Shop was also being placed in the waste skip.

#### Other wastes

The club separates oil and batteries in the workshop and transports them for recycling at the transfer station.

## The Results and Opportunities

The following recommendations were made to the golf club:

### 1. Introduce co-mingled recycling collection.

Up to 75% of the current waste collection is comprised of materials that could be diverted from landfill towards recycling. This would require the introduction of a co-mingled recycling pick up on a weekly basis. The club was given prices for the two contractors who were establishing services in the area during the coming months and encouraged to make their own enquiries.

Considering, at the time, the volume of plastic, glass and aluminium comprised 48% of the waste, the club would require up to 6 x 240L recycling bins to separate the recycling. This service would reduce the need for the collection of waste to one waste skip per week. This change in the clubs waste collection actually represented a saving in waste disposal charges, whilst also diverting up to 50% of their waste from landfill.

### 2. Separate plastics, glass and aluminium for recycling.

To separate glass, aluminum and plastic the club would need to implement separate collection bins both in the club and around the golf course. This would require the following steps:

- a) Purchase bins for behind the bar and the kitchen for separating glass, aluminium and plastic;
- b) Source and position bins adjacent to current waste bins around the golf course;
- c) Position a 240L recycling bin beside the waste bin at the BBQ area for collecting glass, aluminium and plastics;
- d) Position signage on all recycling bins around the club;
- e) Decide on contractor and arrangements for collection of recycling;
- f) Train staff to separate and use recycling facilities correctly.

## Savings and Improvements

### Environmental Practices at the Club.

The club is already undertaking some initiatives to reduce its environmental impact. These include:

- Recycling all grass clippings around the rough;
- Re-using fertilizer bags in the shed;
- Recycling batteries;
- Recycling oil from machinery;
- Use of recycled water on greens.

Further steps the club could consider to reduce its environmental impact would include:

- Chipping prunings from gardens and placing back on the soil as mulch;
- Utilising the services of drumMUSTER for the collection and recycling of fertiliser containers;
- Engage a horticulturist to develop a fertilizer and Integrated Pest Management Program for the golf course. The strategy would identify ways to reduce chemical and fertilizer use on the course while maximizing the value of what you currently put out on the course;
- Consider involving Landcare or similar local, native regeneration group on the golf course to maximize native vegetation and wildlife protection and management;
- Consider water conservation strategies for irrigation of the course, to maximize the retention of water on the course and reduce impact of chemical run off into the dams.

### Organics Separation

Organics only comprised 7% of the club waste, however, avoiding organics in landfill plays a vital role in reducing methane emissions. The club has the space to locate a worm farm or compost bin on site for the food scraps. Other food sources for the worms include grass clippings which are readily available on the greens.

### Contacts

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### Background

The North East Waste Forum (NEWF) is a collective of local councils in the Northern Rivers region of NSW who take a regional approach to waste management. The Business Waste Reduction Project (BWRP) works with local businesses to assist them in developing waste management strategies that promote waste reduction and resource recovery. The project began in April 2005 and has collaborated with a wide variety of businesses and institutions. For further information visit on particular businesses, visit our website

[www.northeastwasteforum.org.au](http://www.northeastwasteforum.org.au)