

## Greens General Foods Pty Limited

Market segment  
Food Processing

Commission date  
April 1999

Customer problem

This food processing waste stream contains large amounts of highly biodegradable organic matter (of high carbohydrate content) and is directed to an evaporation pond. Particularly, in the summer months, the waste material transferred to the evaporation pond produced strong odours, which were unacceptable to residents in the neighbourhood and the resulting water quality was unsuitable for disposal by newly imposed legislation.

Customer objective

To improve wastewater management by removing solids from the water and thereby eliminating odour problems associated with biodegradation of waste stream constituents during warmer months.

Conventional options available to the Customer

Traditional biodegradation methods involving costly aerobic and/or anaerobic treatments.

Outcomes achieved with BALEEN

With the installation of BALEEN, suspended solids reduction in the waste stream is in the order of 90% with a dramatic improvement in the quality of water discharged to the evaporation pond.

Odour problems have been eliminated, wastewater handling is now considerably simpler and treated water is re-used for irrigation.

Specifically:

- Water storage volumes reduced.
  - More effective land use.
  - Neighbour complaints alleviated.
  - Company expanding production due to environmentally sustainable development.
  - Simple and effective solution to odour and wastewater management.
  - Re-use of 60 – 80 kL/day of treated wastewater for irrigation purposes.
  - Approx. 90% of all solids removed from waste stream.
- Compliance to EPA legislative requirements.