



Cobram Water Reclamation Project

Official Opening 17th September 2004



MURRAY GOULBURN CO-OPERATIVE CO. LIMITED
Committed to Sustainable Environmental Management



MG Environmental Policy

Murray Goulburn is committed to sustainable business development, which recognises the need to properly manage the environment while achieving economic benefit for our co-operative owners. Such an approach strengthens the ability of the Company to gain the support of its staff and the community.

To fulfil our environmental obligations, Murray Goulburn is committed to:

- Minimising waste and maximising yield.*
- Continually improving our environmental performance and achieving legislative compliance in a sustainable manner.*
- Working at all levels to ensure that work practices incorporate appropriate environmental standards and integrating these standards into everyday operations by providing effective education and communication programs.*
- Promoting environmental awareness among our contractors and suppliers.*
- Being open and responsive to the community and government on our environmental performance.*
- Ensuring continued environmental improvement by integrating the management of identifiable environmental risks into Murray Goulburn's management systems.*

In keeping with the above policy, Murray Goulburn is proud to announce the official opening of the Cobram Water Reclamation project and in so doing, takes another positive step forward in the preservation of one of our most precious resources. Murray Goulburn pledges its continued commitment to the sustainable management of our environmental resources through the on-going implementation of similar projects.

• Reduce • Reuse • Recycle •



Cobram Water Reclamation Project

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Murray Goulburn's continuous growth in Cobram's production capacity has required an extensive review of all available options to cater for its preferred environmental solution for waste water being water reuse.

This project focused on the need for the most beneficial option for such water reuse, which was returning the water to dairy farms for further use in their farming operations. The solution not only delivers the benefits of water but also captures the valuable nutrients contained within it, delivering simultaneous benefits to the environment and dairy farmers.

A \$7 million project was conceived and implemented through the assistance of a State Government Regional Development Grant, to pipe 1000 mega litres of treated water down 37 km of purpose laid piping to a cluster of large farms in the East Cobram region. This water is mixed with channel water for the irrigation of dairy pastures. Water quality is constantly monitored through the application of purpose built electronic equipment involving surveillance and telemetry technologies to ensure compliance with EPA standards.



100x75 NEW REDGUM FRAME
INSIDE OPENING 350x350

300 MIN.

DISTANCE PIECE





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This project has involved extensive consultation and teamwork over three years, involving a number of stakeholders including relevant authoritative and legislative bodies at local, State and Federal levels. The completed scheme is the largest of its type for a private operator in Australia and has provided a multitude of benefits such as an immediate reduction on demand for irrigation water from traditional sources, enhanced on-farm productivity, local employment opportunities and subsequent broader contributions to the local economy. The success of the project is a tribute to teamwork and a template for future environmental initiatives.



PIPE CLAMPED TO POST.

45° BEND

1000

900 MIN.

PIPE SUPPORT STRAP

2/M16 8.8/S BOLT TYP. EACH CLAMP

100 x 5 SHS

SECTION

NOT TO SCALE

TYPE AV2



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Rochester Energy Management Team

This was a twelve-month project in partnership with the Department of Industry, Tourism and Resources which involved the creation of a purpose driven Energy Management Team to establish a continuous improvement approach towards identifying and acting on opportunities to reduce energy demand through heightened efficiencies.

The benefits of the project have included immediate and on-going energy and greenhouse gas emission reductions and also a heightened sense of awareness throughout the workforce.

Energy Management Teams have now been established at all of Murray Goulburn's dairy processing plants promoting the benefits of site specific operational improvement opportunities through staff training and the environmental benefits that can be gained through a team-base approach to problem solving.



Koroit Water Reclamation Project

In 2003, a major \$4 million redevelopment of waste water treatment infrastructure at Koroit was completed. The project is aimed at capturing and redirecting waste water discharges from the factory's operations away from environmental streams. All used-water from the Koroit facility is once again productively used through careful segregation, treatment and management of reuse water in a wide range of applications throughout the operation.

The success of this project has rendered Murray Goulburn's Koroit facility self sufficient for 80 percent of the year.



Maffra Water Reclamation Project

The facility to treat waste water at Maffra began operation in 2003 and was the first of its kind in the Australian Dairy Industry. This project involves Dissolved Air Flotation (DAF) technology that removes lipids from used-water prior to the application of a sequence of aerobic and anaerobic reactors followed by filtration treatment systems. This highly regarded process optimises the quality of water for reuse applications and has reduced water consumption at the Maffra site by 75 percent compared to water required using conventional technologies.



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