

Australian Environmental Wastewater Solutions Pty Ltd.

**On-Site Wastewater Treatment
Advanced Wastewater Treatment for Domestic
Commercial and Communal Applications**

**Go with the
flow
naturally!**



Australian Environmental
Wastewater Solutions



Is Yours a Ecomax?

Ecomax is the environmentally friendly and cost-efficient wastewater system of choice.

Developed in Australia for Australian conditions, the Ecomax is an advanced alternative tertiary wastewater effluent system (ATU). Its high performance offers an alternative to standard or mechanical high maintenance wastewater effluent options. Since 1985 the Ecomax has proven itself to be the most reliable advanced effluent treatment system available in Australia.

The Ecomax system is a biological system so it requires little to no maintenance. In most cases it requires no pumps and is non-mechanical, driven by gravity reducing the risks of mechanical failure.

The key to its success is: *No ongoing maintenance costs, smallest foot print, Non-mechanical, No ongoing servicing*

Advantage	Ecomax
Filter Medium	Filter medium expected to last 20 years in domestic & commercial-strength applications, and will likely last much longer
Energy Efficient	Provides anaerobic treatment passively, requiring up to 100% less power than competing mechanical wastewater technologies (gravity fed options only)
Low Maintenance	No moving parts, no high energy and high maintenance air compressors or air diffusers, maintenance is reduced to a simple diversion of the drains every six months and does not require a skilled operator or servicing contracts
Treatment Consistency	Maintains high levels of treatment during surge flows, low flows, and seasonal use, preventing solids from escaping and potentially clogging the disposal bed
Lowest Long Term Operating Costs	With a permanent filter medium and very low to no power consumption, Ecomax Effluent systems cost you less to operate than any other advanced treatment unit
Nitrogen Removal	Over summer nitrogen removal is better than 90% in the final effluent
Cold Weather Performance	Developed for the Australian climate! Proven performance in cold climates,
No Aerobic Sludge Management	No activated sludge to manage, competing aerated sludge technologies typically require annual pumping to maintain treatment levels
Small Footprint	Compact nature requires less area for installation minimizes mounding and tree removal, allows you to increase the use of your property
No Short Circuiting	Provides a physical barrier between raw sewage and the environment, even during power outages no untreated sewage enters the environment
Wide Product Selection	Available in many configurations, with one suitable for your preferences, your property, and your application.

***Engineered & Manufactured
in Australia!***

Ecomax Effluent Systems are known in the onsite wastewater industry for their outstanding treatment consistency, longevity, no to low power consumption, and Nitrogen removal capabilities.

Design and Installation of the Ecomax Wastewater system



1: Excavation / preparation of base of mound



2: Scarified to a depth of 400 mm



3: Sand dressed under blanket



4: Construction Membrane



5: Lining with an impervious liner



6: Construction of Ecomax Reo Drains



7: Backfilling with amended soil



8: Final Shaping of Ecomax Sand Filter Mound



9: Finished amended soil mound

How the Ecomax works

The Ecomax Nutrient (Phosphate) Removal system treats black and grey water combined.

The first stage of the process involves septic tanks which are used to break down the solid waste and aid in the reduction of bacteria.

Septic tanks, twin or dual or twin chamber will be utilized where pre-treatment (sedimentation, floatation, anaerobic digestion) of wastewater from the premises occurs.

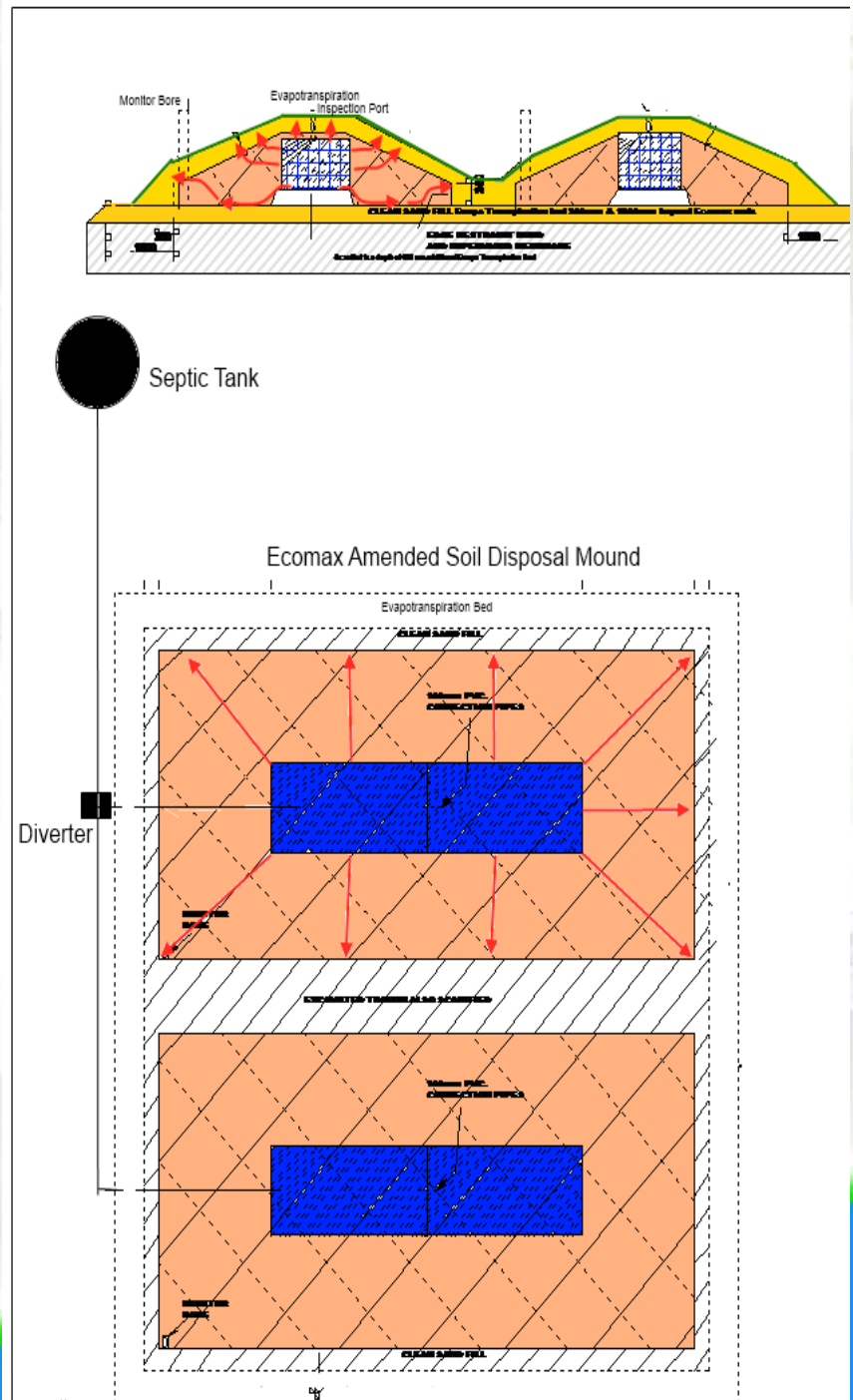
The wastewater then travels by gravity or pump into one of the two cells via a diversion valve. Two Ecomax cells used in rotation each comprising a storage and leaching vessel in each leach drain underlain by an impervious membrane, strategically shaped in reaction to the geometry of the leach drain by extension of a perimeter bund to cause effluent to “pool” within a porous treatment medium and flow through and out of the process.

The Ecomax Nutrient (Phosphate) Removal system is an alternating system with a diverter box which can change the flow of effluent allowing on half to be shut off. This allows the unused half to dry out which rejuvenates the soil’s ability to receive effluent.

Grass cover will assist gas exchange, evapotranspirative losses and conceal system within a passive recreation or garden area.

Quality Guaranteed

Significant technical undertaking has gone into the design of the Ecomax, development and testing of the Ecomax Nutrient (Phosphate) removal system. This has resulted in a high quality product which is simple, cost effective, low maintenance and energy efficient.



Make your wastewater treatment a success with Ecomax

Ecomax® provides a permanent combination of biological treatment and physical filtration of wastewater not matched by any other treatment technology. Our unique and patented process uses a filter medium that is highly resistant to clogging, has the highest surface area-to-volume ratio in the industry

AEWS has extensive experience treating domestic, commercial and communal wastewaters for applications such as golf courses, resorts, campgrounds, projects, condominiums, truck stops, churches, schools, grocery stores, eco-lodges, and many more.

Ecomax Systems work like a low-pressure membrane, providing a physical barrier that wastewater must pass through for treatment before entering the environment. Even when the power supply is interrupted, the Ecomax design ensures no untreated sewage enters the environment, so you can feel confident you are protecting your clients, your property, and your water supplies from contamination.

Time-Proven Technology

The Ecomax has been proven in many thousands of installations across Australia since 1985. No other technology can match the Ecomax performance:

- Very low energy usage
- Few moving parts & low maintenance requirements
- Tertiary quality treatment even in very cold climates
- High level of Nitrogen removal
- Aesthetically pleasing impact on your property

We will work with your project engineer to provide a solution that is cost-effective, easily maintained, has minimal impact on your property, and consistently exceeds your effluent requirements. A number of Ecomax system add-ons are available to provide advanced system functionality such as:

- Reuse for toilet flushing or irrigation
- Phosphorus removal
- Remote monitoring service
- UV disinfection or chlorination

The Choice is Clear
Is Yours a Ecomax?

**Australian Environmental Wastewater
Solutions Pty Ltd & Ecomax Australia**

**Level 3, 478 George Street
Sydney NSW 2000**

T: 02 83152189

Mob: 0418 942 669

Email: sales@ecomaxaustralia.com.au

Web site: www.aews.com.au

