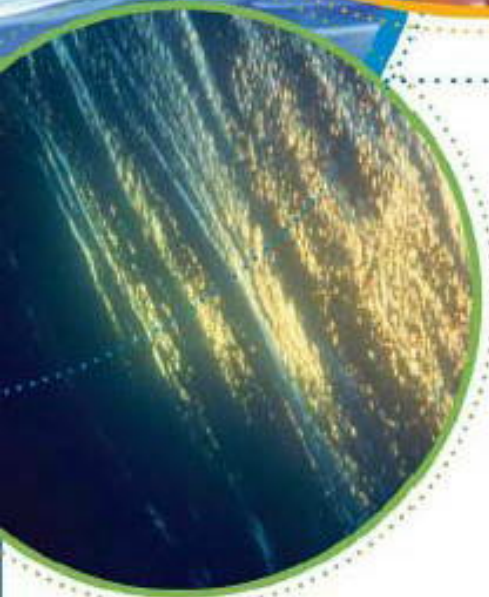


SIMPLY THE BEST









# Contents

pages two and three  
**THE BIOSEPTIC PROCESS**

page four  
**COMPANY PROFILE**

page five  
**FEATURES AND BENEFITS OF A BIOSEPTIC SYSTEM**

pages six, seven, eight and nine  
**WHY CHOOSE BIOSEPTIC?**

page ten  
**SERVICING THE BIOSEPTIC SYSTEM**

page eleven  
**THE SIMPLE 8 STEP BIOSEPTIC PROCESS**

page twelve  
**CORRECTING COMMON MYTHS**

page thirteen  
**CONTACT INFORMATION**



# The BioSeptic Process

The BioSeptic system is a compact sewage treatment plant that safely processes all household wastewater and recycles it as clear odourless water to irrigate the garden.

For the environmentally responsible person this means that the wastewater is treated and recycled on the property where it is produced rather than moving the waste problem to a town sewage treatment plant.

The BioSeptic process begins when all wastewater from the kitchen, toilets, bathroom and laundry drains into the septic tank. The solid waste settles in the septic tank and naturally occurring anaerobic bacteria slowly break it down.

The wastewater overflows into the aeration tank where air is diffused into two separate aeration chambers to create aerobic bacteria. These quick acting bacteria reduce the sewage to carbon dioxide and water. Because aerobic bacteria breathe oxygen there is no odour. Finally, a small amount of chlorine is added to kill any pathogens that have survived the aeration process. The treated water is then suitable to irrigate the garden.

Testing for Accreditation by the Department of Health, New South Wales, Australia, showed that the Performa removed:

- 97% of the organic waste (BOD<sub>5</sub>)
- 98% of the suspended solids and
- 99.99% of the faecal coliforms (indicators of pathogen removal)
- 80% of the ammonia

Plants are nature's best method to take up the nutrients that must be prevented from flowing into streams and rivers, so it is important to have plenty of trees and shrubs to transpire (soak up) the treated water.

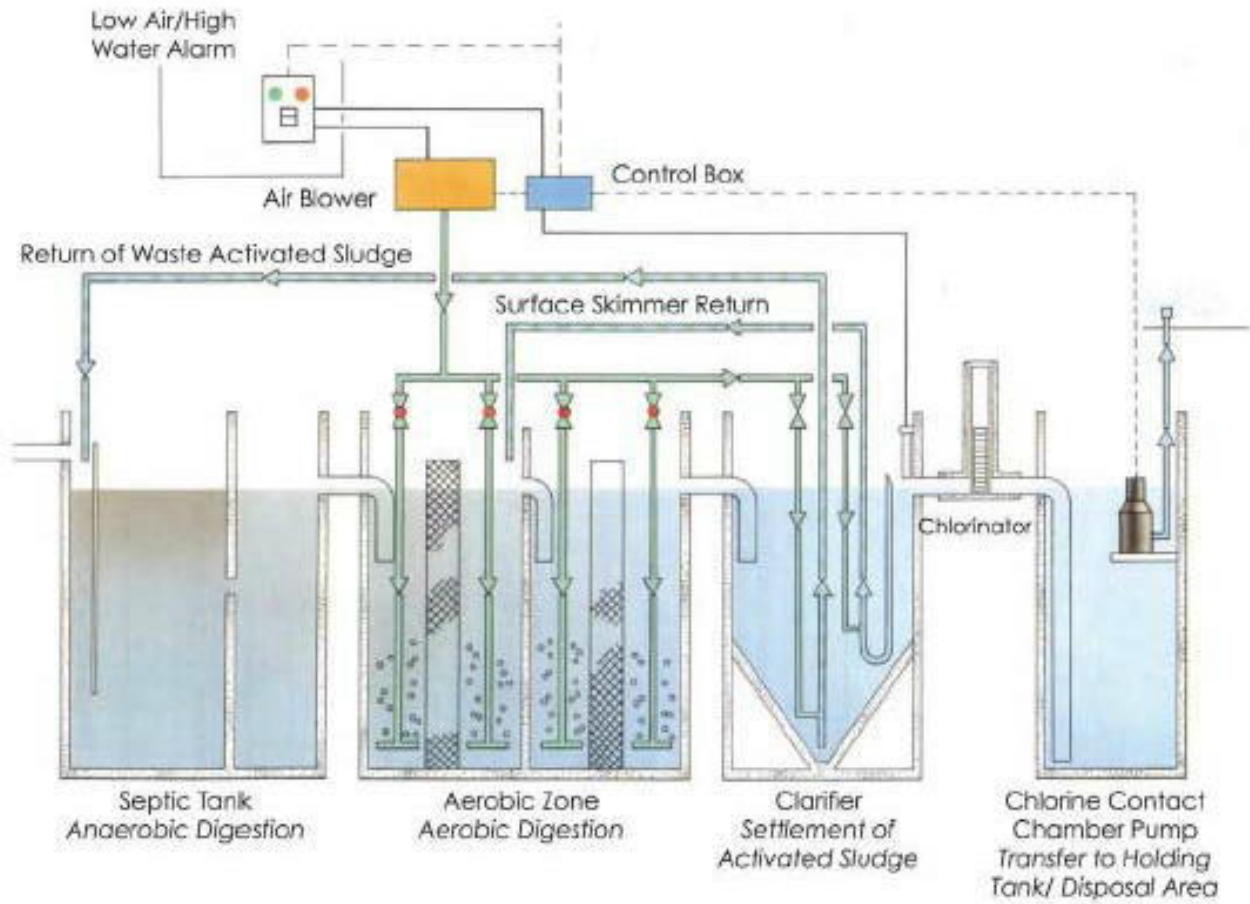
BioSeptic owners are able to enjoy a beautiful garden that is kept green and fertile throughout the year.





# BioSeptic Wastewater Treatment System

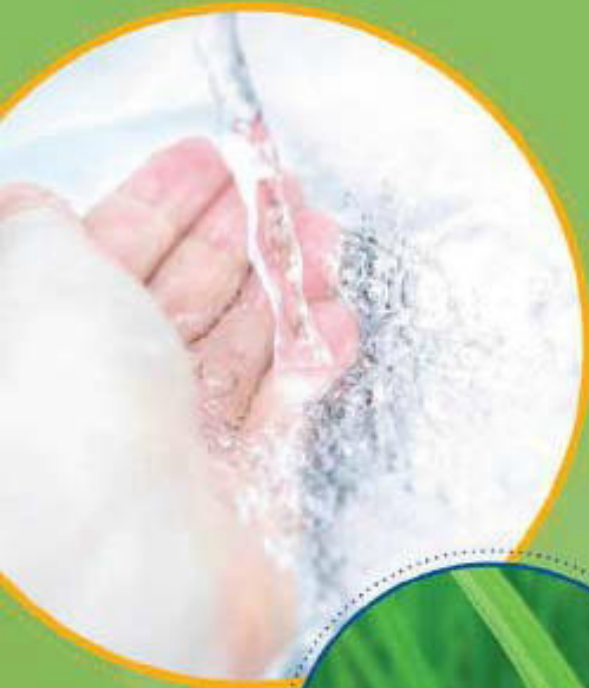
## Flow Diagram



## The BioSeptic ten person system



# Company Profile



BioSeptic has been manufacturing, supplying and servicing quality aerated wastewater treatment systems (AWTS) for thousands of households since 1992.

An Australian company situated in Narellan (southwest Sydney), BioSeptic is well known for providing home-grown, environmental and economical wastewater solutions.

Years of experience have made the BioSeptic name one of the most recognisable in the industry - a trusted name synonymous with high-quality products and services.

*"The BioSeptic aim is to produce the very best aerated wastewater treatment system and then support it with the very best service!"*

For more information about the history and development of BioSeptic, please visit [www.bioseptic.com.au](http://www.bioseptic.com.au)





# Features & Benefits

## FEATURES

BioSeptic is an Australian company, producing Australian made wastewater systems.

BioSeptic systems will efficiently recycle all wastewater as clear, odourless water to irrigate the garden.

All tanks and internal chambers are constructed of concrete to AS 1546.1. BioSeptic does not use plastic tanks or chambers.

BioSeptic systems have a conditional 30 year warranty.

One of the largest capacity systems available at 8000 litres.

A BioSeptic system is so strongly built that it can be filled by turning on a tap in the house immediately upon installation.

BioSeptic's concrete tanks can be backfilled with whatever material is excavated from the hole (except very large rocks).

## BENEFITS

BioSeptic understands your needs, and builds systems suitable for Australian conditions.

A BioSeptic system allows you to pay for your water once and use it twice, allowing you to be environmentally friendly while saving you money.

Concrete strengthens with age and is an ideal material for bush fire prone areas. It also maintains a stable temperature, creating a good environment for bacterial activity.

BioSeptic guarantees you a quality product for over three decades.

A large capacity provides a long retention time to ensure better treatment. Caters for parties and long term visitors.

Your plumber does not have to spend hours filling each separate chamber to avoid chambers imploding as is the case with plastic systems.

There is no need to purchase costly soft backfill material.



# Why choose BioSeptic?

- **BioSeptic cares about Water Quality**

The BioSeptic system is designed to pump out clear, odourless water, suitable for irrigating your garden. Test results indicate that the BioSeptic system produces a water quality that is among the best in the industry. See opposite page for our test results.

- **Sales & Service**

Before you make your decision to install an AWTs, a BioSeptic sales team member is available at no obligation, to meet you on site to discuss your wastewater treatment requirements.

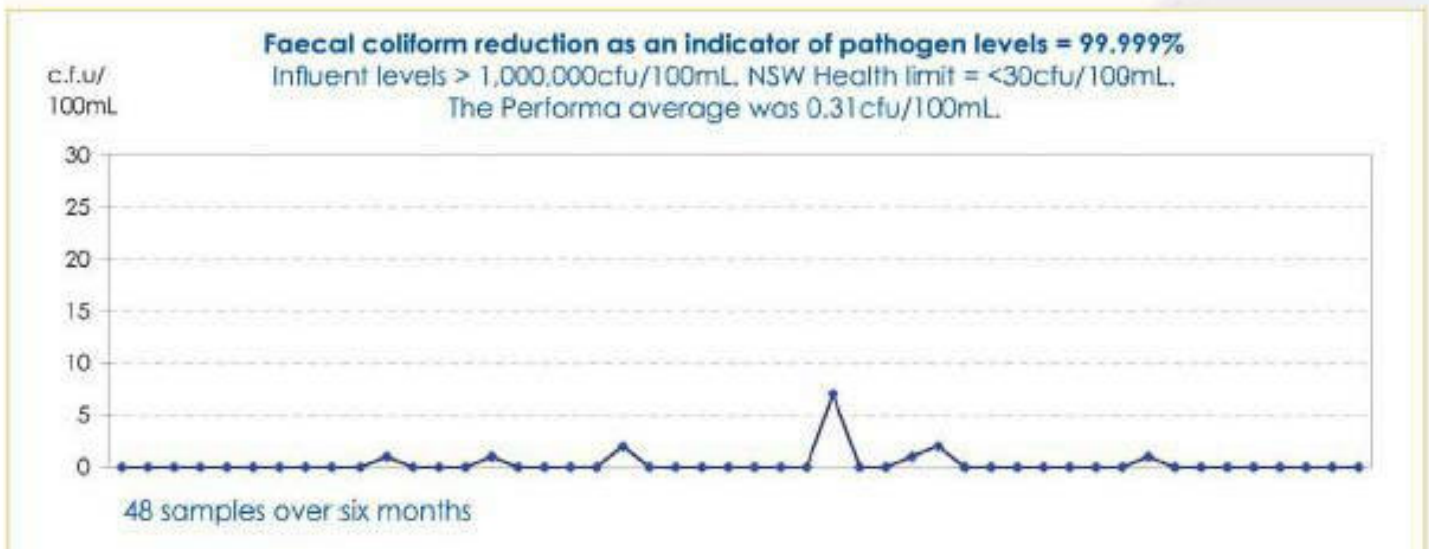
BioSeptic's in house drafting department will prepare the Council Septic Tank Application. If required by your council, BioSeptic's own Geo-technical Environmental Scientist is available to provide advice and prepare soil analysis reports. BioSeptic provides a 24/7 central service hotline to provide service advice and respond to breakdowns.

Ongoing servicing of a BioSeptic system is an extensive process of checks and tests performed by trained BioSeptic technicians to ensure each BioSeptic system is operating correctly after every service. See page ten for more information about the BioSeptic servicing process.



**BioSeptic Performa Sewage System**





• **BioSeptic's Construction and Quality Assurance Methods**

BioSeptic is accredited to **AS1546.1** to manufacture septic tanks and also to **AS1546.3** to manufacture aerated wastewater treatment systems. All BioSeptic systems are manufactured at our state of the art production facility at Narellan, south west Sydney.



• **Warranty**



**Tanks & Internal Chambers**

**30 years**



**Internal pipe work**

**5 years**



**Standard irrigation system**

**2 years**



**Original Electrical Components**  
(Air Blower, Water Pump, Control Box & Alarm)

**2 years**

All warranties are honoured by BioSeptic and not sub-agents. Warranty is conditional upon a continuous Service Agreement being maintained with BioSeptic Pty. Ltd. to ensure that the system is operating correctly.

• **Larger treatment systems**

We are also able to supply larger systems for schools, factories and multi unit dwellings. We offer a full design, wastewater disposal consultation and project management service.



## • BioSeptic Has Been Chosen by Many

Some of our prestigious clients are:

- Allworth Homes, Parramatta NSW
- Beechwood Homes, Liverpool, NSW
- Clarendon Homes, Baulkham Hills NSW
- Domaine Homes, Baulkham Hills NSW
- Wincrest Homes, Parramatta NSW
- Stoneleigh Homes, Penrith NSW
- Hotondo Southern Highlands
- Bazdaric Homes, Camden NSW
- Broughton Anglican College, Menangle NSW (private school of 1600 students)
- C.S.I.R.O - Parkes Radio Telescope, Parkes
- Many outback NSW Police Stations as far as Menindee and Boomi
- Roads & Traffic Authority, Lake George Rest Areas
- NSW Department of Agriculture

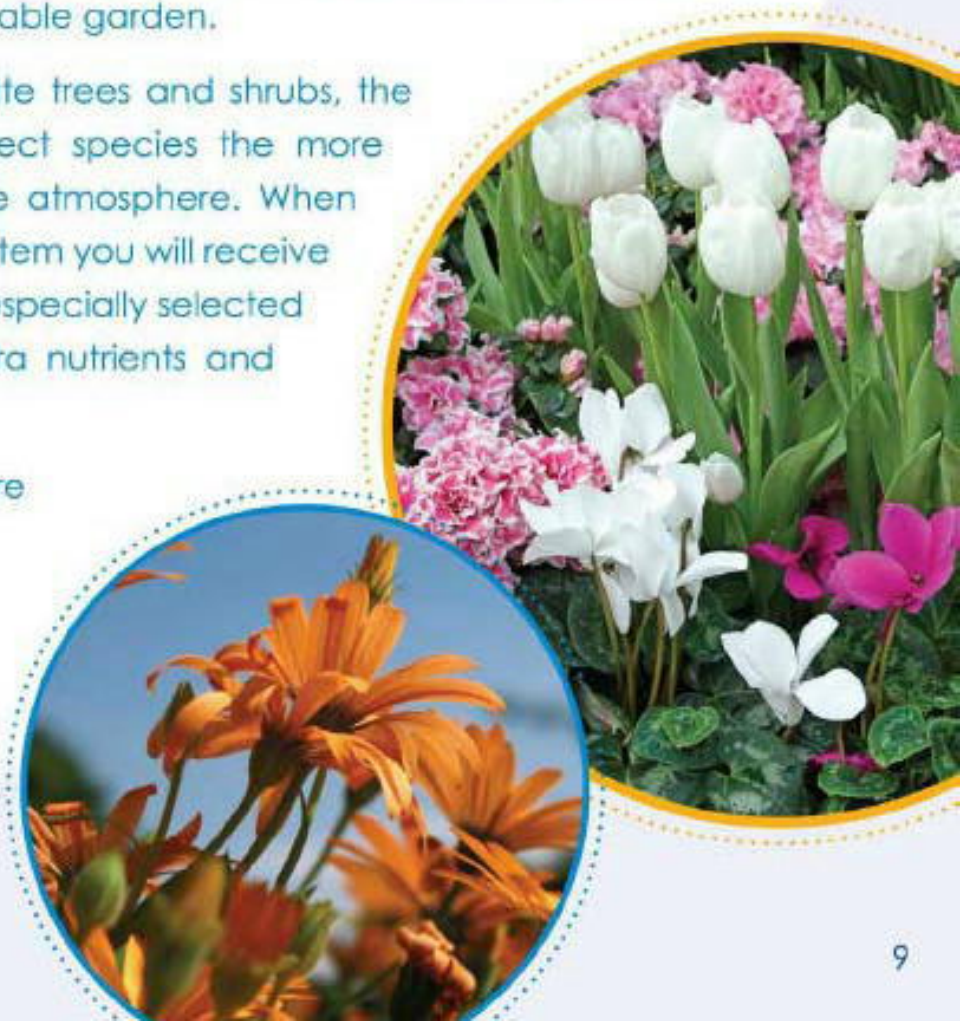
## • BioSeptic Systems Create Beautiful Gardens

With a BioSeptic system you are able to **pay for your water once and use it twice**. After the tap water has been used in the house it can be re-used to irrigate the garden.

To comply with Health Department and Council regulations the treated water has to be disposed of in a responsible way and the best way is to use it to create a beautiful and enjoyable garden.

The water is used best to irrigate trees and shrubs, the bigger the plants of the correct species the more water they will transpire to the atmosphere. When you purchase your BioSeptic system you will receive a list of plants that have been especially selected for their ability to tolerate extra nutrients and moist conditions.

We are also able to design more complex disposal systems, such as "Wasteflow" pressurised subsurface pipes, or alternating sprays to different areas of the property.





# Servicing the BioSeptic System

The Health Department and the local Council approval require that every aerated wastewater treatment system must be serviced every three months.

The first four services for your BioSeptic system are included in the purchase price and the first year's service starts from the day that the system is commissioned, which is usually just before the house is occupied, not the delivery day.

BioSeptic wishes to maintain its good name and performance record and we will ensure that your BioSeptic system is operating correctly after each service.

The following checks will be carried out at every three monthly service:

- Checking the operation of the chlorinator
- Topping up the chlorine tablets
- Testing the irrigation pump
- Cleaning the air blower filter
- Checking the operation of the blower
- Testing the high level water alarm
- Testing the low air pressure air alarm
- Checking the sludge return system
- Checking the condition of all pipes and hoses
- Checking the operation of the irrigation sprays

These tests will be performed at every service:

- a) Free residual chlorine
- b) pH (acidity or alkalinity of the water)
- c) Turbidity (clarity of the water)

After the initial year's service, you will be invited to renew your service agreement for a further year. BioSeptic's fee for this service, including chlorine, is always kept in line with the industry average.







# The Simple 8 Step

## BioSeptic Process

- 1 Phone BioSeptic** on 1300 658 111
- 2 A friendly BioSeptic team member visits the site** to answer any questions and provide a wastewater solution.
- 3 BioSeptic prepares the Council septic tank application.** A wastewater report if required is prepared at this time.
- 4 Council approves** the application.
- 5 The plumber or drainer excavates the tank hole.**
- 6 BioSeptic delivers the tanks.**
- 7 The BioSeptic system is commissioned and immediately begins treating the wastewater.**
- 8 Another quality system delivered to a happy BioSeptic customer.**

# Correcting Common Myths

**“An AWTs system uses a lot of electricity”**

**Correction:**

The BioSeptic system is very economical to operate. It only uses about 100 watts, which is about the same as a single light globe per hour.

**“A single tank system works better than a double tank system”**

**Correction:**

There is no advantage in a single tank system over a double tank system as the bacteria that treat the effluent are not able to see what type of tank they are in, so they just get on with the job. However, double tank systems such as BioSeptic are better at separating the aerobic and anaerobic bacteria.

**“You have to dig two holes for a double tank system”**

**Correction:**

Both of the BioSeptic tanks are placed in a single hole. In fact, the BioSeptic tank hole is shallower than a single tank hole so there is less chance of hitting rock.

**“A single tank system (or brand X) does not need to be pumped out so often”**

**Correction:**

The primary sludge that has to be pumped out after a number of years is produced by the household members and not by the system. It is deposited in the septic tank and the same amount of primary sludge will be produced by a particular size household, regardless of AWTs brand or type. The smaller the household, the longer between pump outs that could be five to ten years apart.



## The BioSeptic Group of Companies:



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**Fax: 02 4629 6655**

**Email: [sales@countrylimestone.com.au](mailto:sales@countrylimestone.com.au)**

**Web: [www.countrylimestone.com.au](http://www.countrylimestone.com.au)**

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**Phone: 02 4629 6688 - 1800 041 111**

**Fax: 02 4629 6677**

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