HILLS DISTRICT PLUMBING

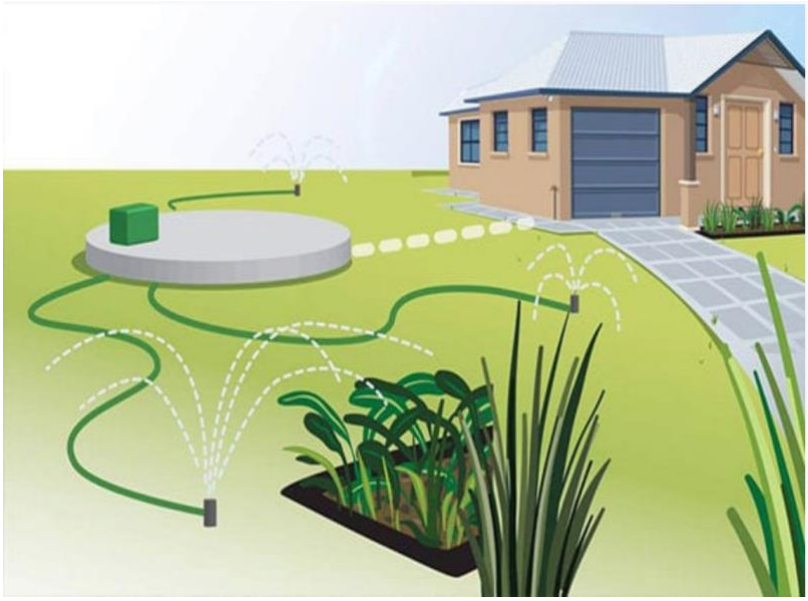
AWTS

(Aerated Wastewater Treatment Systems)

Stuart Williams
0403 222 928

AWTS
Aerated Wastewater Treatment System

If your property is in an area that is not connected to the sewer main, you may need an on-site wastewater treatment system.



The AWTS recycles the wastewater from your house and treats it in an environmentally sustainable way. The water goes through several processes until the water is clear, which then can be re-used for irrigation in your garden.

What is an AWTS?

An AWTS is a mini treatment plant for your house. All the water from your toilets, sinks, baths, showers and laundry goes into the AWTS. The tank is usually installed underground with just the lid and control panel visible.

How does the AWTS work?

The sewage and greywater will go through several processes. The first reservoir works like a traditional septic tank where the solids sink to the bottom with the wastewater on the top. The wastewater then flows into the next compartment where aeration takes place and bacteria digests the waste purifying the water leaving it odourless and colourless ready for recycling.

Advantages of an AWTS

The AWTS treats the water to a superior standard compared to a septic tank. Because of the natural process it is environmentally friendly, saves a considerable amounts of water and means gardens can be maintained during drought. The AWTS recycling system is a cost effective waste management system.

Your AWTS options can be quite varied and will depend on your site conditions and your level of requirement. Council will require a Wastewater Report to be submitted with your application.

We can guide you through the council approval process and work with them on your behalf.

Wastewater Report

We can recommend a wastewater industry consultant to do a wastewater management assessment on your property.

The consultant will visit your site, analyse the physical aspects of your property, look at the wastewater requirements of the development taking into consideration your requirements and then will design a solution for the disposal of wastewater on your site.

Once you have the Report you will have a clearer understanding of which treatment systems is suitable for your property. We can then recommend a reliable Australian made system to suit your specific conditions.

AWTS Servicing and Maintenance

AWTS require regular maintenance to make sure the system is operating to the highest possible standard. The water purity will need to be monitored to make sure it meets Health Authority requirements.

The service contractor will replenish the disinfection; replace chlorine tablets or clean/replace the UV lamp if required. The AWTS has internal filters that require maintenance each visit. When the system has an air pump the intake filter is checked, cleaned or replaced.

The overall condition of the entire system is inspected and noted down in the service records and kept in the history for future reference and problem solving.

Indicators that your AWTS needs immediate service:

- Unusual smells around the tank or irrigation area
- Damp or soggy soil, or surface ponding
- Discoloured grass (dark green) around irrigation trenches
- Toilets or drains slow to drain or backing up
- Grease trap is full or blocked
- Blocked sprinklers and outlets
- Any audio or visual alarm warning on your system
- Overflow from the surcharge gully
- Gurgling from the house drains

Septic Tank

Servicing and Maintenance

Septic tanks require regular pumping out, depending on the amount of use, every three to five years is recommended. An inspection every few years, to check the scum and sludge levels, can extend this period to match system use and will save your trenches / irrigation area from the transfer of sludge from a 'solid' septic. This helps to keep trenches operating effectively also saving you the need to ask us to clean up and repair your existing trenches or sometimes needing to install brand new ones.

When the system has an anaerobic (septic) tank, the scum and sludge levels and the condition of the tank needs to be checked. If the septic tank is fitted with an outlet filter, it needs cleaning to ensure transfer to the secondary treatment chamber or tank.

AWTS
Information you need to know

- Familiarise yourself with your system, the location of the electrical panel and alarm

- Most systems rely on bacteria for the treatment of wastewater, therefore products that you use around the house that kill bacteria can be harmful to your system's biology. This can affect its ability to treat the wastewater which could result in being unsafe for the health of your family and the environment.

- The old-fashioned natural products are the safest to use, eg, baking soda, vinegar, borax, zero phosphate laundry detergents, products that are environmentally friendly and have natural ingredients.

- If you need to use chemical products this should be done separately in a bucket and disposed of directly onto the garden and not down the drain and into your system.

- Keep your daily water usage under the maximum flow rate of your system.

- Do not dispose of any trash or non-biodegradable material down your system as this may cause maintenance problems and increase the need for a pump out.

- Do not turn off the power to the system when you are away on holiday

- Don't drive over the irrigation area with any motorized vehicles, including ride on mowers, as this will damage the sprinkler system.

Costing

Included in my quote:

1. Tank (including delivery)
2. Irrigation to Council requirements
3. Plumbing (installation of the tank, irrigation)
4. Excavation of hole (not including excavation of rock)
5. *On-site decommissioning of old tank
6. 12 months free servicing

Exclusions:

1. Council fees and submission
2. Excavation of rock
3. Wastewater Report
4. Electrical costs
5. Riser if required
6. Any special conditions required by Council
7. Pump Upgrade
8. Removal of old tank
9. Reuse of old tank

* Hills Shire Council no longer allow on-site crushing and burial of the old tank.

Your options are:

-reuse as a storm water storage and Irrigation tank

-removal of tank to an approved waste facility

Payment Terms

50% required to order the tank

50% on completion

Certificate of Accreditation

Sewage Management Facility
Aerated Wastewater Treatment System
Advanced Secondary Effluent

This Certificate of Accreditation is issued by the Secretary of the NSW Ministry of Health pursuant to Clause 41(1) of the Local Government (General) Regulation 2005.

System: *Eco-septic Eco Pro AWTS*

Manufacturer: *Eco-septic Pty Ltd t/a Econocycle*

Address: *67 Warradale Road, Warragamba, NSW, 2752*

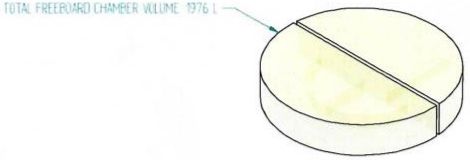
The Eco-septic Eco Pro AWTS as described in Schedule A, has been Accredited as a sewage management facility in accordance with the Secondary Treatment System Accreditation Guideline 2018 for use in single domestic premises in NSW. This Accreditation is subject to the conditions and permitted uses specified in Schedule B.

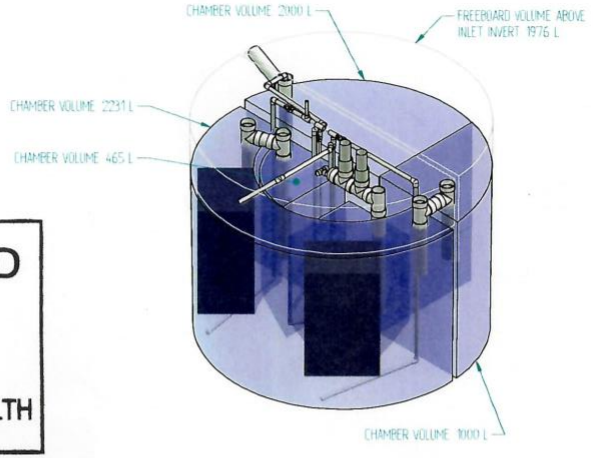
P. Byleveld

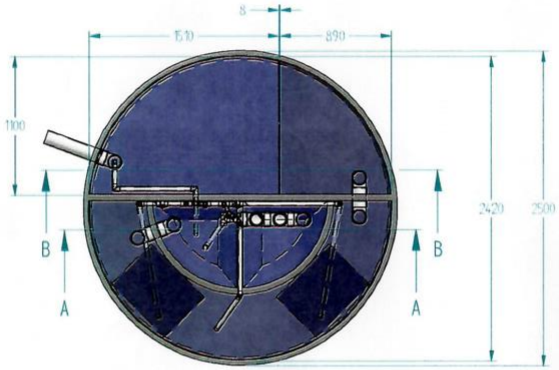
Director, Environmental Health
for Secretary (delegation PH335)

Issued: *29 January 2020*
Certificate No: *STS-AWTS041*
Expires: *31 December 2024*

TITLE	VOLUME
FREEBOARD VOLUME	1976 L
TREATMENT CHAMBER 1 VOLUME	2000 L
TREATMENT CHAMBER 2 VOLUME	1000 L
TREATMENT CHAMBER 3 VOLUME	2231 L
TREATMENT CHAMBER 4 VOLUME	465 L
TREATMENT CHAMBER 5 VOLUME	370 L



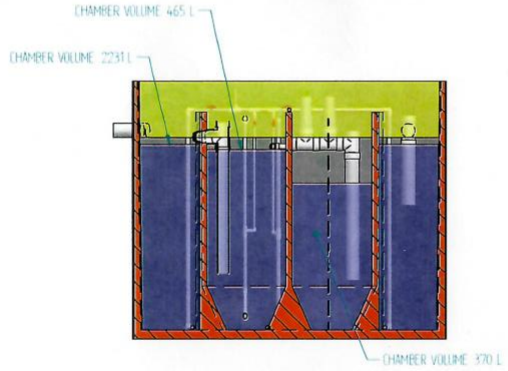




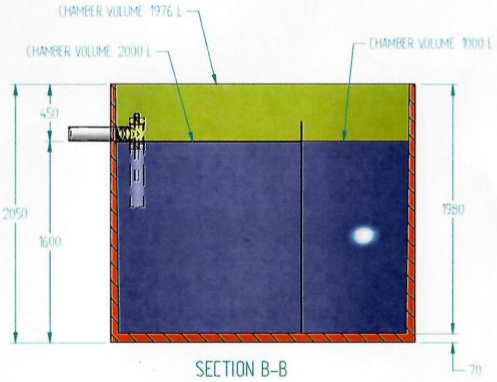
ACCREDITED

29 JAN 2020

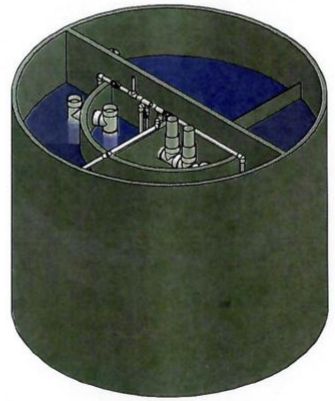
NSW MINISTRY OF HEALTH



SECTION A-A



SECTION B-B



PM	22/12/2019	LOGO CHANGE	5
PM	30/10/2019	ANNOTATION CHANGE	4
PM	16/10/2019	RELEASED	3
PM	01/05/2019	ISSUED FOR REVIEW	2
BY	DATE	REVISION DETAIL	REV

ECO-SEPTIC

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM

DWG PLOTTED 21/12/2019

SCALE DO NOT SCALE

DRAWING LAST MODIFIED BY Peter McKay

PROJECT ECO PRO AWTS

TITLE TREATMENT TANK

EQUIT./TREAT NONE

SHEET SIZE A3

PART # 2500x2050-TT

VERSION 5

SHEET No 1 OF 1