



# Certificate of Accreditation

## Sewage Management Facility

### Wet Composting System

*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:** *WormSmart Wet Composting System*

**Manufacturer:** *Property Werx Pty Ltd t/a WormSmart*

**Of:** *34 Business Circuit, Wauchope, NSW, 2446  
PO Box 688, Port Macquarie, NSW 2444*

*The WormSmart Wet Composting System described in Schedule 1 is accredited as a sewage management facility for use in single domestic premises in NSW. This accreditation is subject to the conditions of accreditation and permitted uses specified in Schedule 2.*

*A/Director, Environmental Health  
for Secretary (delegation PH335)*

**Issued:** *29 / 10 / 2021*

**Certificate No:** *WCT027*

**Expires:** *31 December 2026*

## Schedule 1: Specification

### Description of the WormSmart Waste Treatment System

The WormSmart waste treatment system is assembled in an AS/NZS 1546.1 accredited Everhard and Central Coast Septics vessels. The WormSmart waste treatment system is available as models AWSP 1800 PF (All Waste Single Pipe) and TWP 1800 PF (Twin Waste Pipe).

The WormSmart model AWSP 1800 PF system is designed to treat the total waste stream and contains:

- A single wastewater inlet pipe;
- A raised platform consisting of layers of plastic mesh and geotextile bags filled with plastic media;
- A 4 metre high air vent pipe fitted with an insect proof mesh;
- An effluent storage chamber underneath the raised platform and central pump well fitted with a submersible pump.

The WormSmart model TWP 1800 PF system is designed to treat the toilet and kitchen wastewater and the greywater separately. The system contains:

- Two inlet pipes;
- A two-tiered raised platform consisting of layers of plastic mesh and geotextile bags filled with plastic media;
- A 4 metre high air vent pipe fitted with an insect proof mesh;
- An effluent storage chamber underneath the raised platforms and central pump well fitted with a submersible pump.

Wastewater enters the WormSmart system and flows onto an arched plastic mesh in the middle of the plastic and fabric filter platform. The solid organic material (bio solids) builds up on the platform and is aerobically decomposed by worms and micro-organisms. The effluent and worm casting particles flow through the filter media and are collected in the effluent storage chamber. The effluent flows into the pump well and is pumped to a land application system of a type approved by the Local Council. The submersible pump is controlled by a high and low level float switch.

The WormSmart waste treatment system, installed without a disinfection process, is classified as a wet composting closet primary treatment system. The WormSmart waste treatment system is suitable for installation on domestic premises for a maximum of 10 persons and subject to the approval of the Local Council.

## Schedule 2: Conditions of Accreditation

### 1. General

- 1.1 All applications for the installation of the WormSmart waste treatment system shall be made to the Local Council in accordance with the requirements of the *Local Government Act 1993 and Local Government (General) Regulation 2005*.
- 1.2 The WormSmart waste treatment system shall be supplied, constructed and installed in accordance with the design and specifications as submitted and accredited by the NSW Ministry of Health.
- 1.3 Tanks used in the assembly of the WormSmart waste treatment system shall be manufactured in accordance with the requirements of the Standard AS/NZS 1546.1-2008 and shall be subject to a Certificate of Accreditation issued by NSW Health. Where it is proposed to use

an existing tank to retrofit a WormSmart waste treatment system, the tank shall be of a sound condition and deemed to be suitable for a retrofit by the Local Council.

1.4 Each WormSmart waste treatment system shall be permanently and legibly marked on a non-corrosive metal plaque or equivalent, attached to the lid of the tank with the following information:

- The brand name of the system;
- The manufacturer's name or registered trademark;
- The month and year of manufacture.

1.5 When the WormSmart waste treatment system requires emptying, all composted matter and other solid materials shall be removed from the system by an employee of WormSmart or a service contractor acceptable to the Local Council.

1.6 Unless otherwise directed by the Local Council, the composted waste material is to be disposed of by burial within the confines of the premises in soil, which is not intended to be used for at least three (3) months for the cultivation of food for human consumption. The minimum cover of soil over the deposited compost must be 100 mm.

1.7 The manufacturer shall supply with each system or upload to the manufacturer's website an owner's manual, which sets out the care, operation, maintenance and on-going management requirements of the system.

## **2. Installation and Commissioning**

2.1 The Local Council should require that on completion of the installation of the WormSmart waste treatment system, the system is inspected and checked by the manufacturer or the manufacturer's agent. The manufacturer or the agent is to certify that the system has been installed and commissioned in accordance with its design, conditions of accreditation and any additional requirements of the Local Council.

2.2 The Local Council should require that all electrical work must be carried out by a licensed electrician and in accordance with the relevant provisions of AS/NZS 3000.

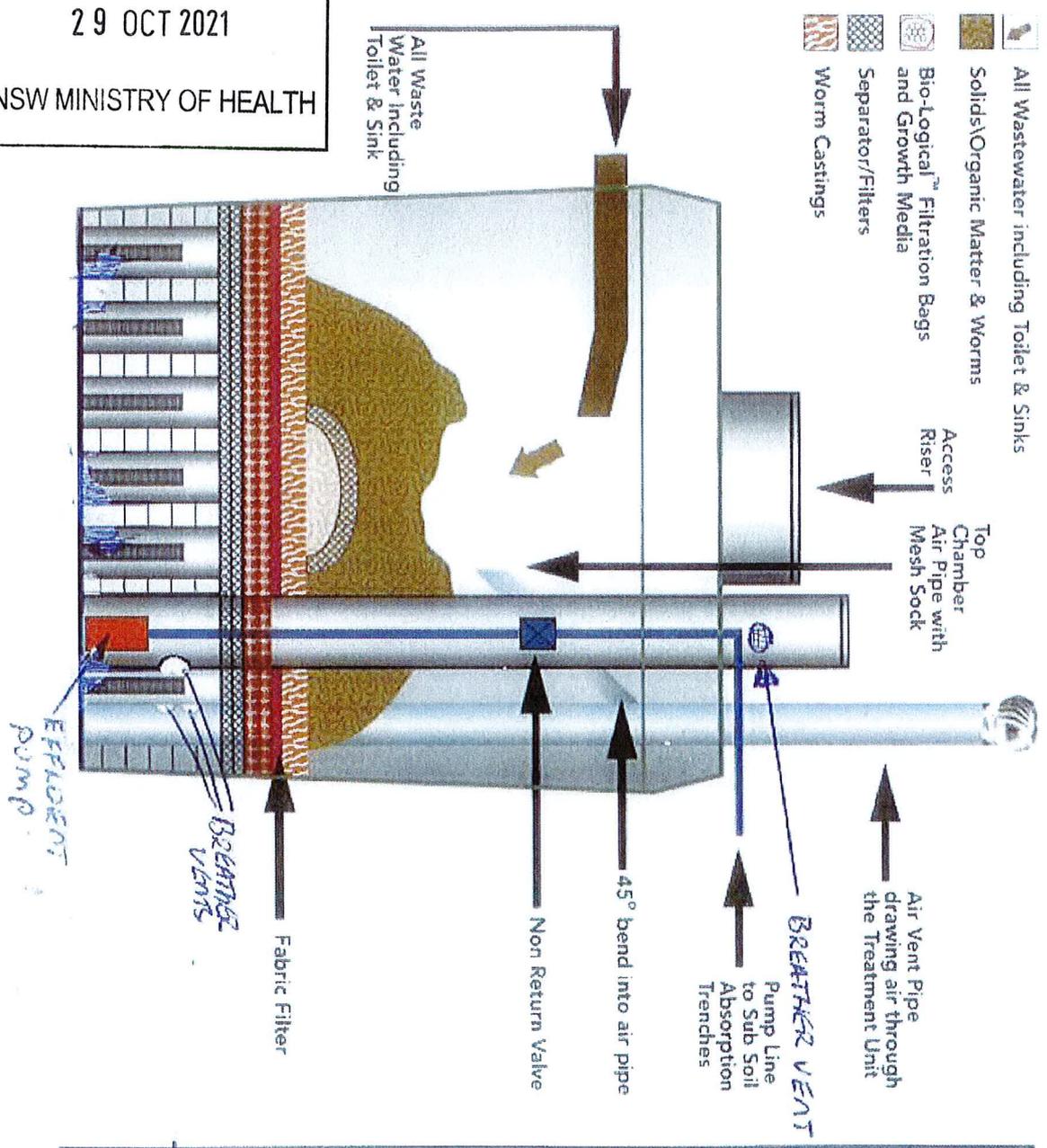
2.3 The WormSmart waste treatment system shall be fitted with an alarm system to indicate an electrical or mechanical malfunction. The alarm system is either an onsite audio/visual alarm system or connected remotely by telephone to the office of WormSmart or its nominated representative in NSW ensuring a direct response to a malfunction of the system.

## **3. Permitted uses**

3.1 The treated effluent from the WormSmart waste treatment system is suitable for disposal to:

- a LPED irrigation system installed strictly in accordance with the requirements set out in Appendix M of AS/NZS 1547:2012; or
- a sub-soil land application system of a type approved by the Local Council.

**ACCREDITED**  
 29 OCT 2021  
 NSW MINISTRY OF HEALTH

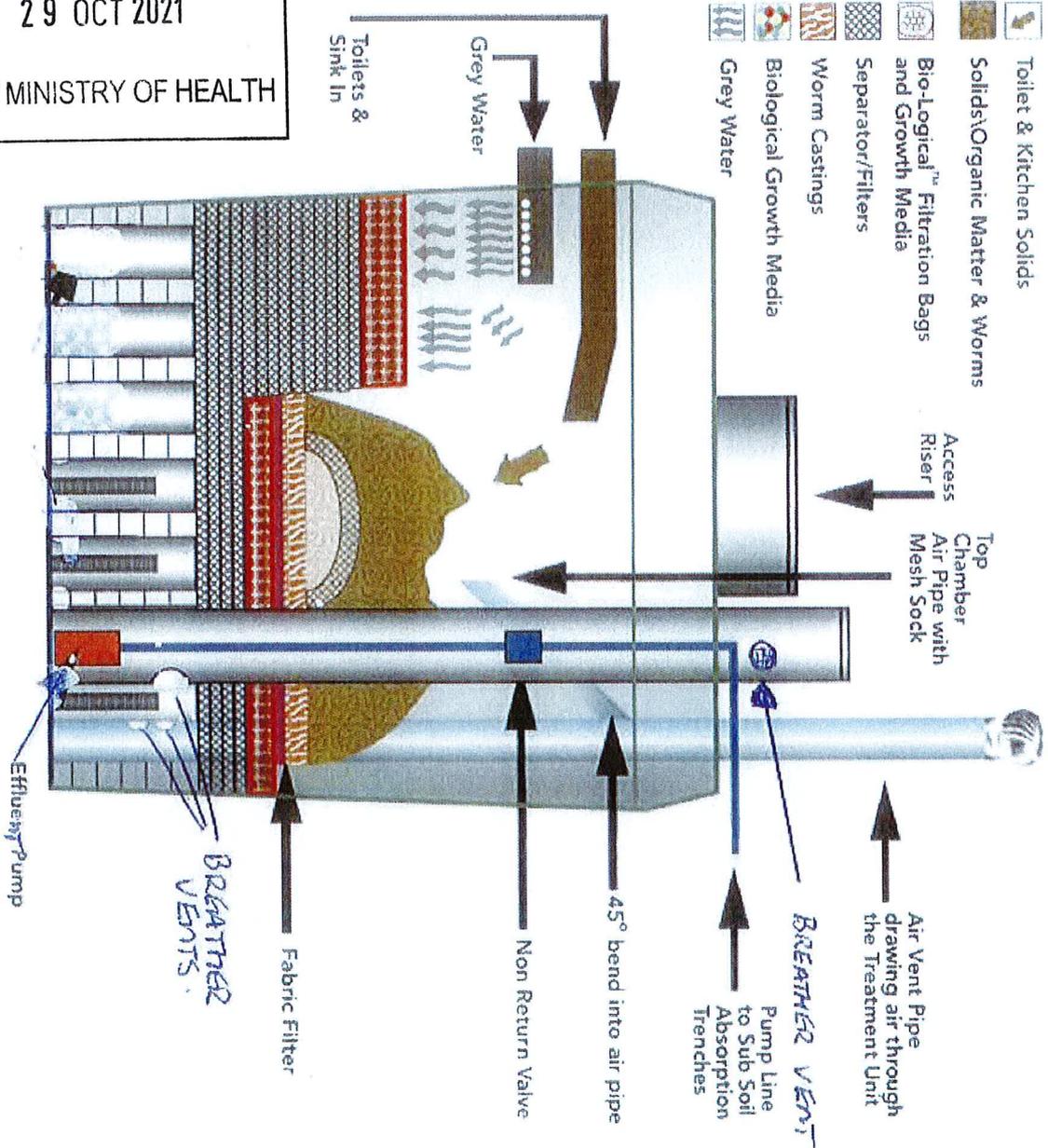


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<p>MODEL:          AWSP 1800 PF</p>	<p>This drawing is a graphical representation of the system only and is Not To Scale.</p>

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