



Health

Certificate of Accreditation

Sewage Management Facility

Aerated Wastewater Treatment 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: Ozzi Kleen RP10 AWTS

Manufacturer: Suncoast Waste Water Management

Of: 59 Industrial Ave, Kunda Park, QLD, 4556

The Ozzi Kleen RP10 AWTS as described in Schedule 1, has been 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.

Director, Environmental Health
for Secretary (delegation PH335)

Issued: 28 August 2020

Certificate No: AWT5018

Expires: 31 December 2021

Schedule 1: Specification

Ozzi Kleen RP10 Aerated Wastewater Treatment System

The Ozzi Kleen RP10 Aerated Wastewater Treatment System (AWTS) is designed to treat the wastewater from a residential dwelling occupied by a maximum of 10 persons. The Ozzi Kleen RP10 AWTS is contained in a vertically aligned cylindrical roto moulded polyethylene collection well with a design capacity of 4150 litres. The operational water level in the system is 1600 mm. The system consists of:

- a stilling well within the aeration/sedimentation chamber that prevents the incoming wastewater from disturbing the still water conditions required for settling and decanting;
- An aerated/sedimentation chamber with a capacity of 4150 litres where the treatment of the wastewater occurs through a programmable cycle of three intermittent phases.
 - An aeration phase when an aerobic environment is provided for micro-organisms. These conditions enable the micro-organisms to feed and grow on the organic waste and establish an "activated sludge".
 - A settling phase when still conditions allow for settlement of the activated sludge to the bottom of the tank, leaving a layer of clear water at the top.
 - A decanting phase when still conditions are maintained but clear, treated water is drawn from near the surface of the tank for delivery to the chlorinator, basket strainer and chlorine contact tank.
- A combined 350 L chlorine contact chamber/irrigation pump chamber with a capacity of 300 litres for chlorine contact of the effluent. Flow to the chamber is from the main tank through a chlorinator and basket strainer.
- A 350 L waste sludge storage chamber that allows for settling and thickening of sludge for a period well in excess of 6 months before the need to pump out and dispose of the waste material.
- Air is supplied to the aeration chamber by a Rietschle Thomas LP-80HN air blower with an output of 77 litres / min. Air from the blower is also used to operate the decanter and to deliver waste sludge to the sludge storage chamber.
- An Ozzi Kleen submersible pump with level control and output of 100 litres / min @ 6 metres head supplies treated effluent for irrigation.

Schedule 2: Conditions of Accreditation

1.0 General

- 1.1 Prior to installation the owner/occupier of the premises shall make an application, in accordance with Clause 26 of the *Local Government (General) Regulation 2005*, to the local authority for approval to install and operate the Ozzi Kleen RP10 AWTS as a Sewage Management Facility in accordance with Section 68, Part C of the *Local Government Act 1993*.
- 1.2 The local authority shall apply those Conditions of Accreditation, appropriate to the owner / occupier, to any approval to operate the Ozzi Kleen RP10 AWTS issued under Clause 45(4), *Local Government (General) Regulation 2005*.
- 1.3 In accordance with Clause 36 of the *Local Government (General) Regulation 2005*, the Ozzi Kleen RP10 AWTS shall have an expected service life of 5 years in the case of mechanical and electrical components and 15 years in the case of other components.
- 1.4 The owner / occupier shall ensure that the Ozzi Kleen RP10 AWTS is installed or constructed:
 - in accordance with the accredited specifications of the type tested unit and in accordance with good trade practice, and
 - to allow ease of access for maintenance, and
 - regarding the health and safety of users, operators and persons maintaining the facility, and
 - must be installed or constructed to make appropriate provision for access to, and removal of, contents in a safe and sanitary manner, and
 - must, if it is intended to be a permanent fixture, be anchored to prevent movement.

- 1.5 The manufacturer / supplier shall ensure that the Ozzi Kleen RP10 AWTS is supplied, constructed and installed in accordance with the design (including the disinfection unit) as submitted and accredited by the NSW Ministry of Health. The Ozzi Kleen RP10 AWTS shall not be modified or altered except that alternate individual mechanical and electrical components such as pumps, PLCs, etc, may be substituted provided that the component meets the accredited design specification.
- 1.6 Any permanent modification or variations to the accredited design of the Ozzi Kleen RP10 AWTS shall not be permitted.
- 1.7 Each Ozzi Kleen RP10 AWTS shall be permanently and legibly marked by the manufacturer in accordance with section 3 of AS1546.3:2017.
- 1.8 The manufacturer shall supply with each Ozzi Kleen RP10 AWTS an owner's manual, which sets out the care, operation, maintenance and on-going management requirements of the system. The owner's manual prepared by the manufacturer shall specifically contain a plan for the on-going management of the Ozzi Kleen RP10 AWTS. The plan shall include details of:
 - the treatment process,
 - procedures to be followed in the event of a system failure,
 - emergency contact numbers,
 - maintenance requirements,
 - inspection and sampling procedures to be followed as part of any on-going monitoring program developed by the local authority.
- 1.9 The manufacturer shall provide the following information to each local authority where it is intended to install an Ozzi Kleen RP10 AWTS in their area once Ministry Accreditation has been obtained:

<ul style="list-style-type: none"> • Statement of warranty • Statement of service life • Quality Assurance Certification • Installation Manual • Service Manual • Owner's Manual 	<ul style="list-style-type: none"> • Manufacturer's Service Report Form • Engineering Drawings • Specifications • A4 Plans • Certificate of Accreditation documentation from NSW Health.
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The manufacturer need not provide the above information to the local council where the information or document is contained on the manufacturer's web site.

2. Installation and Commissioning

- 2.1 The owner / occupier shall have the Ozzi Kleen RP10 AWTS 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 authority.
- 2.2 The owner / occupier shall ensure that all electrical work is carried out on the Ozzi Kleen RP10 AWTS by a licensed electrician and in accordance with the relevant provisions of AS/NZS 3000.
- 2.3 The owner / occupier shall not commission the Ozzi Kleen RP10 AWTS unless the land application system has been completed.

3. Maintenance

- 3.1 The owner / occupier of the premises shall enter into a minimum 12-month contract or agreement with a service agent and ensure that the Ozzi Kleen RP10 AWTS is serviced:
 - in accordance with the manufacturer's / supplier's service manual and using the manufacturer's / supplier's service sheet; and
 - by a service agent who
 - has completed a course on the servicing and maintenance of STS; and has some supervised servicing experience or extensive un-supervised experience;

- is employed or authorised by the manufacturer / supplier of the Ozzi Kleen RP10 AWTS;
 - uses replacement parts which meet the minimum specification of the Ozzi Kleen RP10 AWTS;
 - has advised of their name, contact details and credentials to the local authority;
 - submits a completed NSW Health "Local Council Service Report" (template attached) to the local authority immediately after every service;
 - shall report to the local authority any instances where the owner / occupier refuses to authorise repairs, replacement of parts or maintenance; and
 - does not perform electrical work or enter confined spaces unless trained and is suitably qualified to do so.
- 3.2 The owner/occupier shall not service the Ozzi Kleen RP10 AWTS unless they are an authorised agent of the manufacturer.
- 3.3 The Ozzi Kleen RP10 AWTS once installed and commissioned shall be serviced at three (3) monthly intervals.
- 3.4 The manufacturer / supplier of the Ozzi Kleen RP10 AWTS shall place on its web site a copy of the service manual, service sheet or form and specifications for the Ozzi Kleen RP10 AWTS to facilitate servicing, maintenance and repairs. Commercial-in-confidence documents may be provided directly to the service agent without uploading to the web site.
- 3.5 Each three-monthly service shall, as a minimum where provided, include a check on all mechanical, electrical and functioning parts of the system including:
- The chlorinator and replenishment of the disinfectant,
 - Pump and air blower,
 - The alarm system,
 - Slime growth on the filter media,
 - Operation of the sludge return system,
 - The effluent irrigation area,
 - On-site testing for free residual chlorine, pH and dissolved oxygen at the appropriate check points.

4. Verification

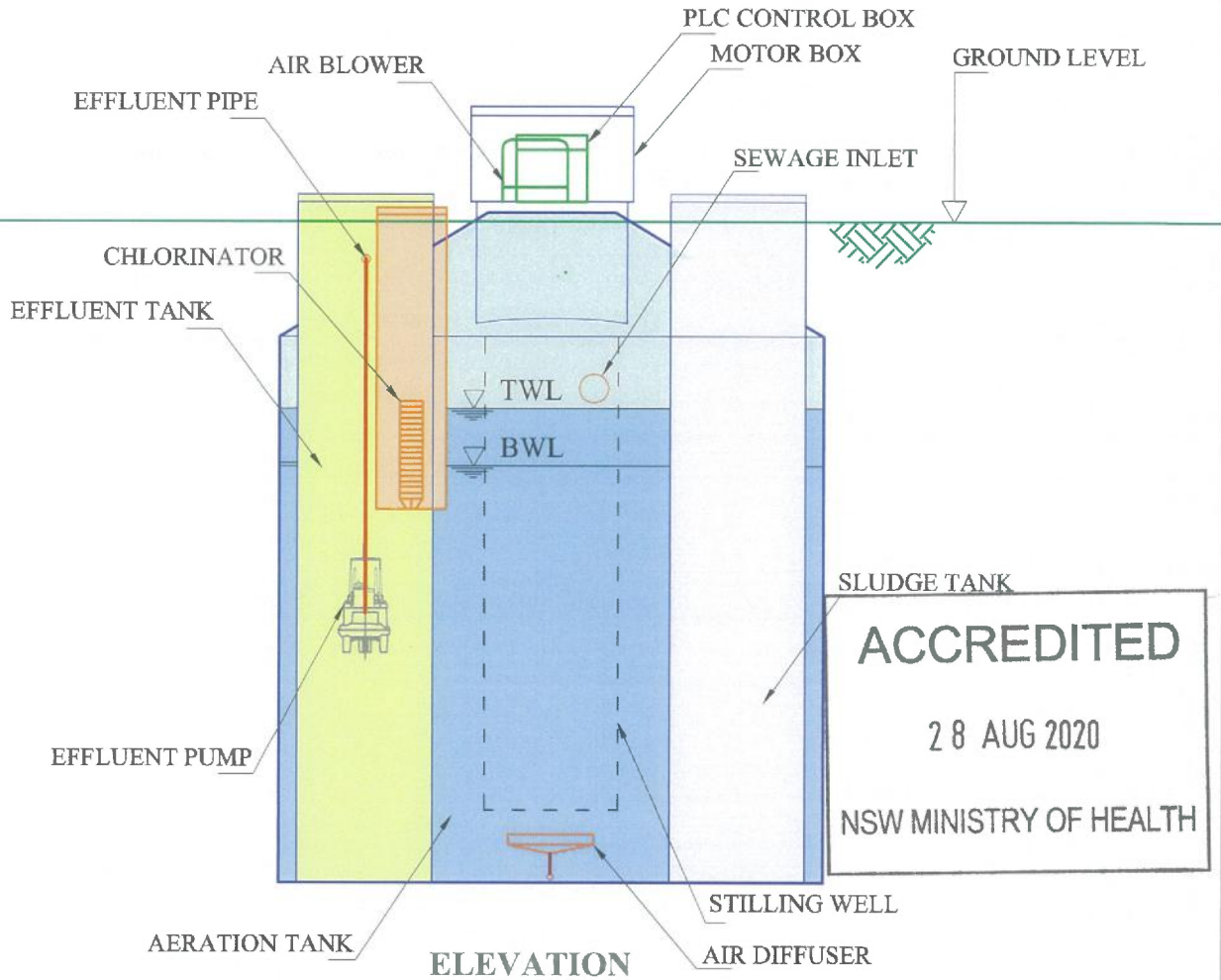
- 4.1 Effluent from the Ozzi Kleen RP10 AWTS taken in any random grab sample shall comply with the following standard:
- BOD⁵ less than 30 mg/L
 - TSS less than 45 mg/L
 - E. coli less than 100 cfu/100 ml
 - Free residual chlorine greater than 0.2 and less than 2.0 mg/L

5. Permitted uses

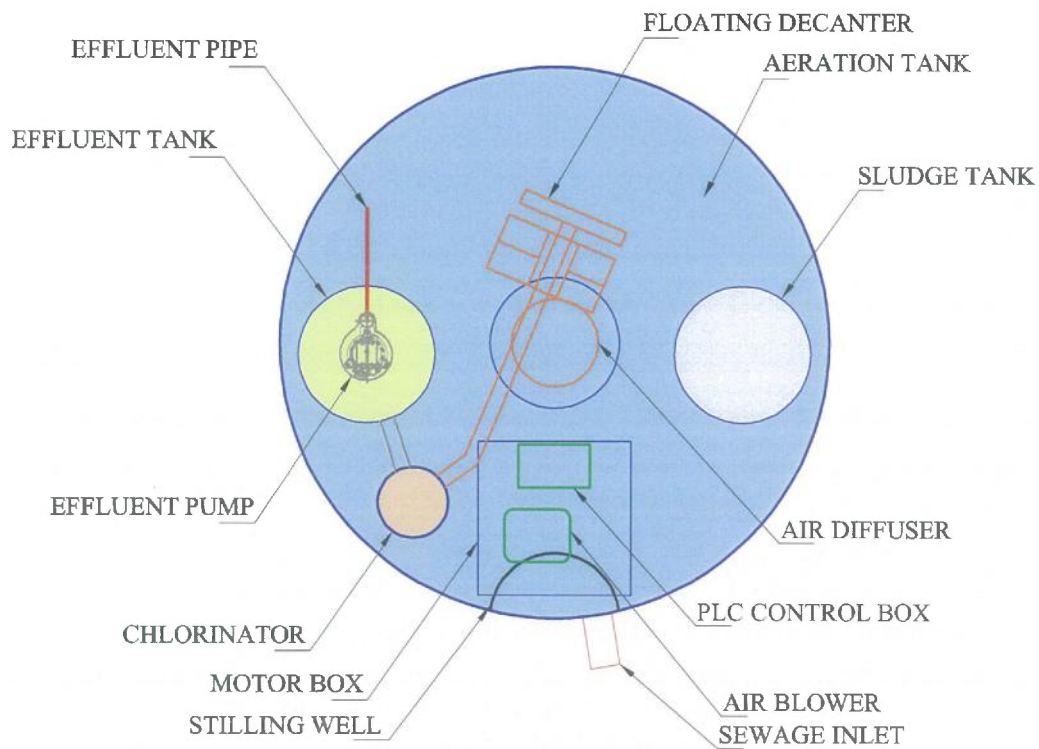
- 5.1 The effluent is suitable for re-use for garden purposes by way of any of the forms of irrigation as described in AS/NZS 1547:2012:
- above ground spray irrigation; and/or
 - surface drip irrigation covered by mulch; and/or
 - sub-surface drip irrigation installed at around 100 mm depth; and or
 - any form of sub-soil application.
- Each of the forms of irrigation or application is subject to the approval of the local authority.

Local Council STS (DGTS) Service Report: February 2018		
Owner's Name:		Local Council:
Installation Address:		
System Brand & Model:	<input type="checkbox"/> Domestic	<input type="checkbox"/> Commercial
Date of this service: / /	Date of last Service: / /	Next service due: / /
Has the STS/DGTS been serviced in accordance with the manufacturer's / supplier's requirements and using the service sheet? <input type="checkbox"/> Yes <input type="checkbox"/> No If "No" why not?		
STS/DGTS functioning correctly? <input type="checkbox"/> Yes <input type="checkbox"/> No If "No" why not?		
According to sludge-judge or other methodology is de-sludging needed? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" what action is recommended?		
Offensive odours? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" what action is recommended?		
Alarms tested and functional? <input type="checkbox"/> Yes <input type="checkbox"/> No If not "functional" what action is recommended?		
Final Effluent Quality		
Tested? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Chlorine tablets remaining? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Quality? <input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory		
On what evidence is this judgement made? If "Unsatisfactory" what action was recommended?		
Land Application Area		
Surface ponding? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Run off? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Excess plant growth? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Effluent leaving premises. <input type="checkbox"/> Yes <input type="checkbox"/> No		
High risk areas contaminated? * <input type="checkbox"/> Yes <input type="checkbox"/> No * Patio, play areas, BBQ, etc		
Operating satisfactorily? <input type="checkbox"/> Yes <input type="checkbox"/> No		
If "Not operating satisfactorily" what action was recommended?		
Overall Condition of STS? <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor		
Comments / Action Recommended / Repairs Needed / Repairs Performed:		
Has the owner / occupier taken recommended actions? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Service Agent:		Contact Details:
Signature:		Date:

Source: Adapted from "Checklist 4.2: Operational AWTS inspection report for use by service providers and Council inspectors" in *Designing and Installing On-Site Wastewater Systems*, Sydney Catchment Authority, May 2012



ELEVATION



PLAN VIEW

				<p>59 INDUSTRIAL AVE KUNDA PARK QLD 4556 PH +61 7 5459 4900 FAX +61 7 5456 4677 www.ozziclean.com</p>	CLIENT	GENERAL	DESIGN	AP
02/09/13	AIR DIFFUSER LOCATION UPDATED	2	SB		PROJECT	Ozzi Kleen RP10 PACKAGE STP	DRAWN	SB
28/08/08	GENERAL REVISION	1	DC		TITLE	SYSTEM DIAGRAM	CHKD	AP
DATE	DESCRIPTION	REV.	BY		DWG NO.	GD-RP10-H10.D	DATE	02/09/13
Suncoast Waste Water Management					SCALE	NTS		

