

## TREATMENT PLANT APPROVAL 08/2020

*Plumbing and Drainage Act 2018*

### Approval

1. The **Aqua-Nova model 10100Z** (“the system”) described in the Specifications and Drawings in the attached Schedule and manufactured by **Everhard Industries Pty Ltd** (ABN 41 009 690 859) (“the manufacturer”) has been assessed in accordance with the Queensland Plumbing and Wastewater Code (QPW Code) dated 26 October 2017.
2. Approval is granted for the advanced secondary quality wastewater treatment system, subject to compliance by the manufacturer with the requirements of the *Plumbing and Drainage Regulation 2018*, and the conditions of approval detailed below.
3. This approval, the conditions of approval and the Schedule comprise the entire Treatment Plant Approval document.
4. Any modification by the manufacturer to the design, drawings or specifications scheduled to this approval must be approved by the Chief Executive.

### Conditions of approval

5. The manufacture, installation, operation, service and maintenance of the systems must be in conformity with the conditions of this Treatment Plant Approval.
6. The advanced secondary quality wastewater treatment system, which is an example of the approved systems, may only be used on premises that generate per day:
  - (a) a maximum hydraulic loading of 2,000 litres; and
  - (b) a maximum organic loading of 700grams BOD<sup>5</sup>
7. The system must continue to meet the requirements of advanced secondary quality wastewater treatment system, producing the following effluent quality:
  - (a) 90% of the samples taken must have a BOD<sup>5</sup> less than or equal to 10 g/m<sup>3</sup> with no sample greater than 20g/m<sup>3</sup>.
  - (b) 90% of the samples taken must have total suspended solids less than or equal to 10g/m<sup>3</sup> with no sample greater than 20g/m<sup>3</sup>.
  - (c) 90% of the samples taken must have a thermotolerant coliform count not exceeding 10 organisms per 100 mL with no sample exceeding 200 organisms per 100 mL.
  - (d) Total chlorine concentration must be between 0.5g/m<sup>3</sup> and 2.0 g/m<sup>3</sup> in four out of five samples taken.
8. Each system must be serviced in accordance with the details supplied in the owner’s operation and maintenance manual.
9. This approval does not extend, apply to, or include the land application system used in conjunction with an approved system installed on premises.

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Delegated Authority  
Department of Housing & Public Works

10. Each system must be supplied with —

- (a) a copy of this Treatment Plant Approval document;
- (b) details of the system;
- (c) instructions for authorised persons for its installation;
- (d) a copy of the owner's manual to be given to the owner at the time of installation; and
- (e) detailed instructions for authorised service personal for its operation and maintenance.

11. At each anniversary of the Treatment Plant Approval date, the supplier must submit to the Chief Executive a list of all systems installed in Queensland during the previous 12 months. Where the Chief Executive is notified of any system failures the Chief Executive may randomly select a number of installed systems for audit. The Chief Executive will notify the supplier's nominated NATA accredited laboratory which systems are to be audited for BOD<sup>5</sup> and TSS. The sampling and testing of the selected systems, if required, is to be done at the supplier's expense. The following results must be reported to the Chief Executive;

- a)Address of premises;
- b)Date inspected and sampled;
- c)Sample identification number;
- d)BOD<sup>5</sup> for influent and effluent; and
- e)TSS for influent and effluent.

12. The Chief Executive may, by written notice, cancel this approval if the manufacturer/supplier fails —

- a)to comply with one or more of the conditions of approval; or
- b)within 30 days, to remedy a breach, for which a written notice been given by the Chief Executive.

13. This approval may only be assigned with the prior written consent of the Chief Executive.

14. This approval expires on 01 January 2024 unless cancelled earlier in accordance with paragraph 12 above.

Lindsay Walker

**Director**  
**Plumbing, Drainage and Special Projects**  
**Building Legislation and Policy**

Date approved: 26 May 2020

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**TREATMENT PLANT APPROVAL No. 08/2020**  
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**SCHEDULE**

**Attachment 1**

Drawings and Specifications for the

**Aqua-Nova model 10100Z**

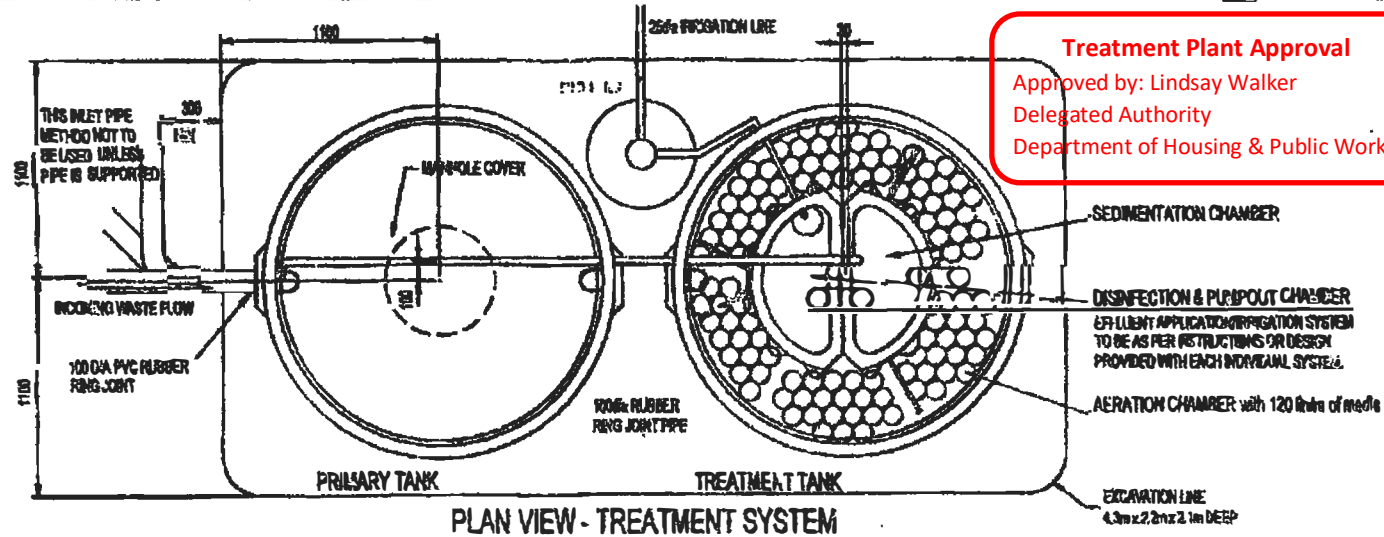
**Treatment Plant Approval**

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TANK INSTALLATION AND PIPING TO BE IN ACCORDANCE WITH PIPING INSTRUCTIONS PROVIDED WITH SYSTEM

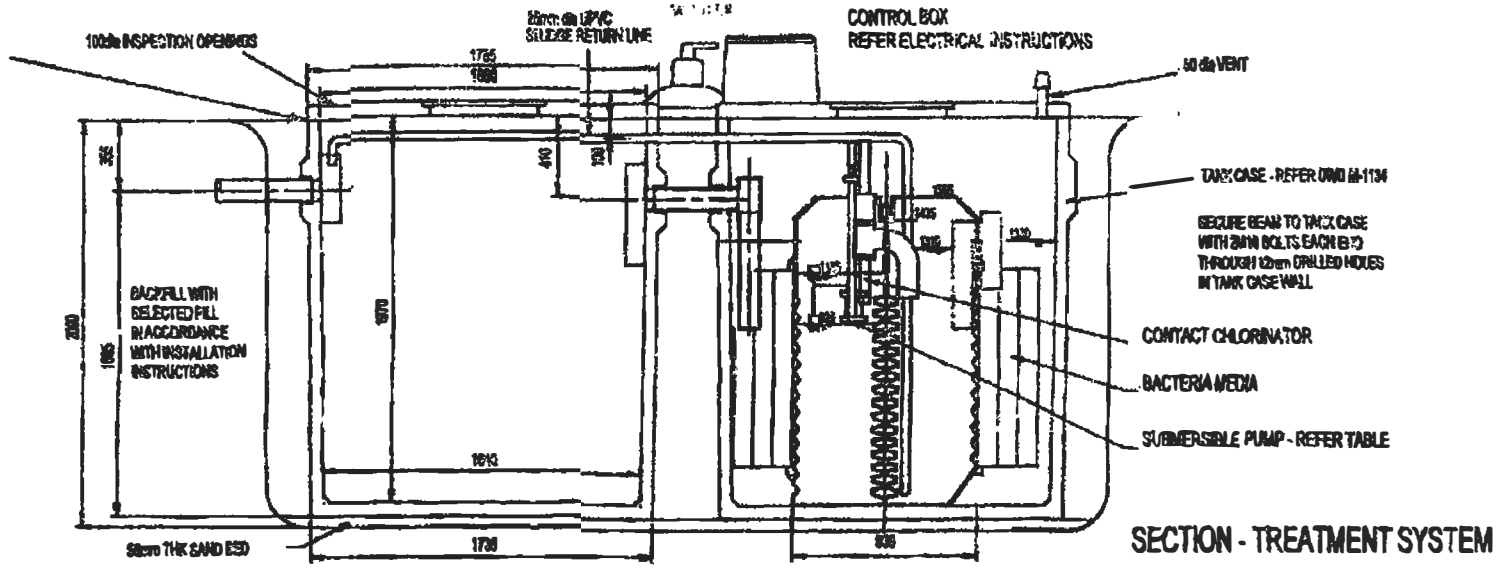


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PLAN VIEW - TREATMENT SYSTEM

RISERS TO A MAXIMUM HEIGHT OF 900mm MAY BE ADDED TO THE TANK TO INCREASE DEPTH TO INVERT WHERE NECESSARY



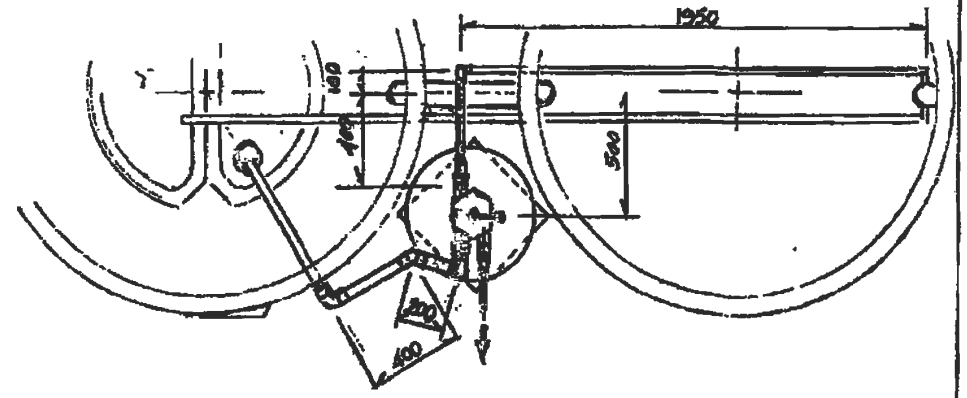
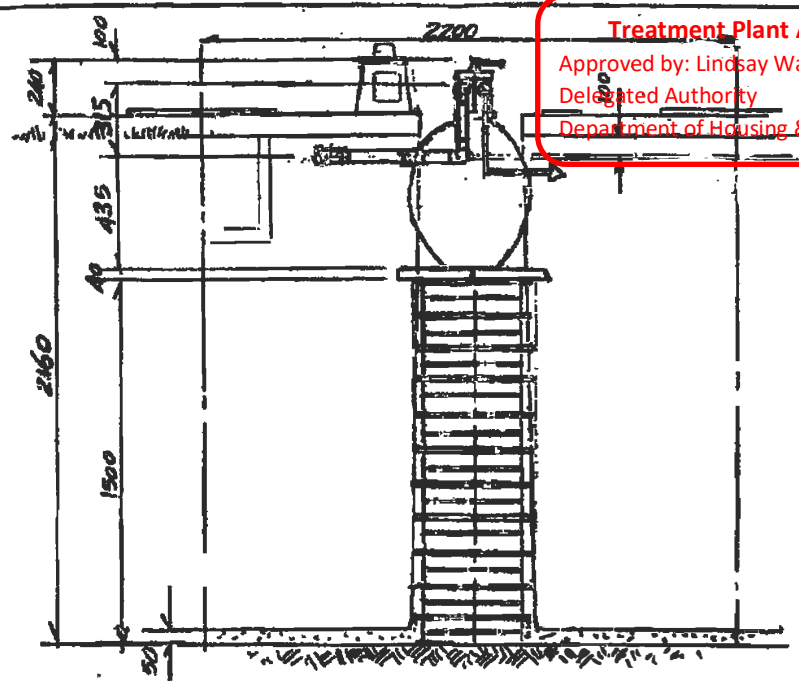
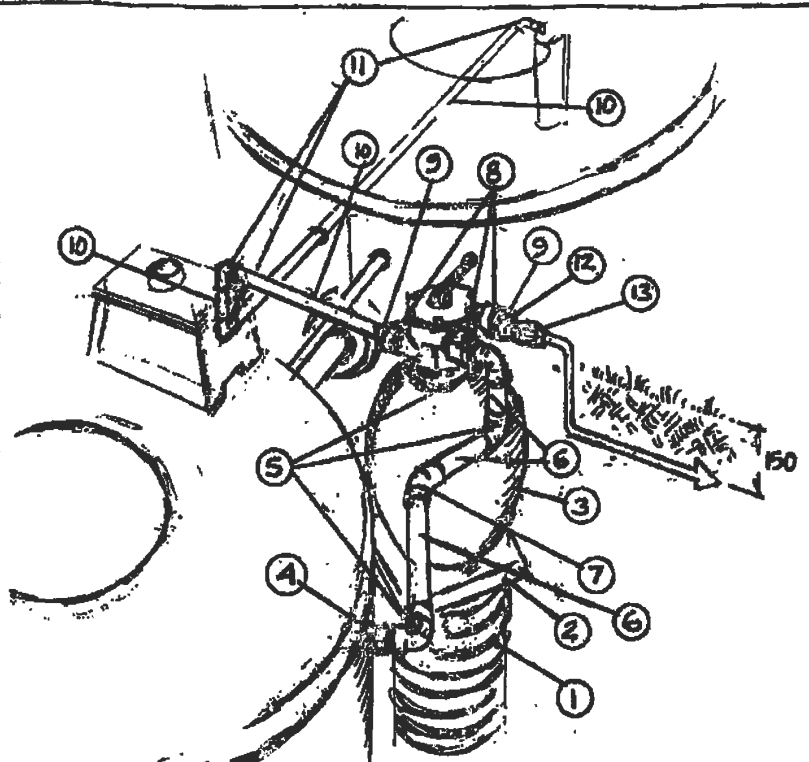
SECTION - TREATMENT SYSTEM

PRODUCT CODE No.	DETAILS / DESCRIPTION
10100Z	DAVEY 25 PUMP FITTED
10100CZ	CLAYTONS BLUE OIVER 30 PUMP FITTED
10100DZ	DAVEY 42 PUMP FITTED

AMENDMENT 2		TITLE: DAVEY AMENDED		BLD	10/5/10
DATE	1/1/2010	DATE	1/1/2010	SCALE	1:25
MATERIAL: CONCRETE - 2 x 300mm		EVERHARD INDUSTRIES PTY LTD		100 WINDMILL ROAD, WINDMILL, QLD 4070	
TANK PARTS ADVISED SECONDARY SYSTEM		PROJECT NO.	MP - 6638	DATE	10/5/10



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13	1" BSP M X 25 TUBE WREN	1	POLY - SUPPLIED WITH TANK KIT
12	25 SLIP 1" BSP ADAPTER	1	UPVC
11	25mm SLIP 50° ELBOW	3	UPVC
10	25mm PIPE X 2500	1	420 + 260 + 1500 + 100
9	40 X 25 SLIP/SLIP REDUCER	2	UPVC
8	40 BSP M X 40 SLIP UNION	3	SUPPLIED WITH FILTER - ITEM 3
7	40mm SLIP 45° ELBOW	1	UPVC
6	40mm UPVC PIPE X 900	1	50 + 350 + 150 + 280 + 50
5	40mm SLIP 90° ELBOW	3	UPVC
4	1" BSP M X 40 SLIP TUBE ADAPTER	1	UPVC
3	DAVEY SF180 SAND FILTER	1	COMPLETE KIT
2	4 x 30 HAW CONCRETE SLABS	1	
1	375 RIBSTRUCT PIPE X 1500	1	1/2" GREEN GRID POLYMER
ITEM	DESCRIPTION	QTY	REMARKS

EVERHARD INDUSTRIES PTY. LTD. IS, AND ALWAYS SHALL BE, THE SOLE OWNER OF THIS DRAWING. NO DATA HEREIN MAY BE COPIED BY ANY MEANS, NOR ANY DEPICTED ITEM MADE, WITHOUT PRIOR APPROVAL IN WRITING FROM THE MANAGEMENT.

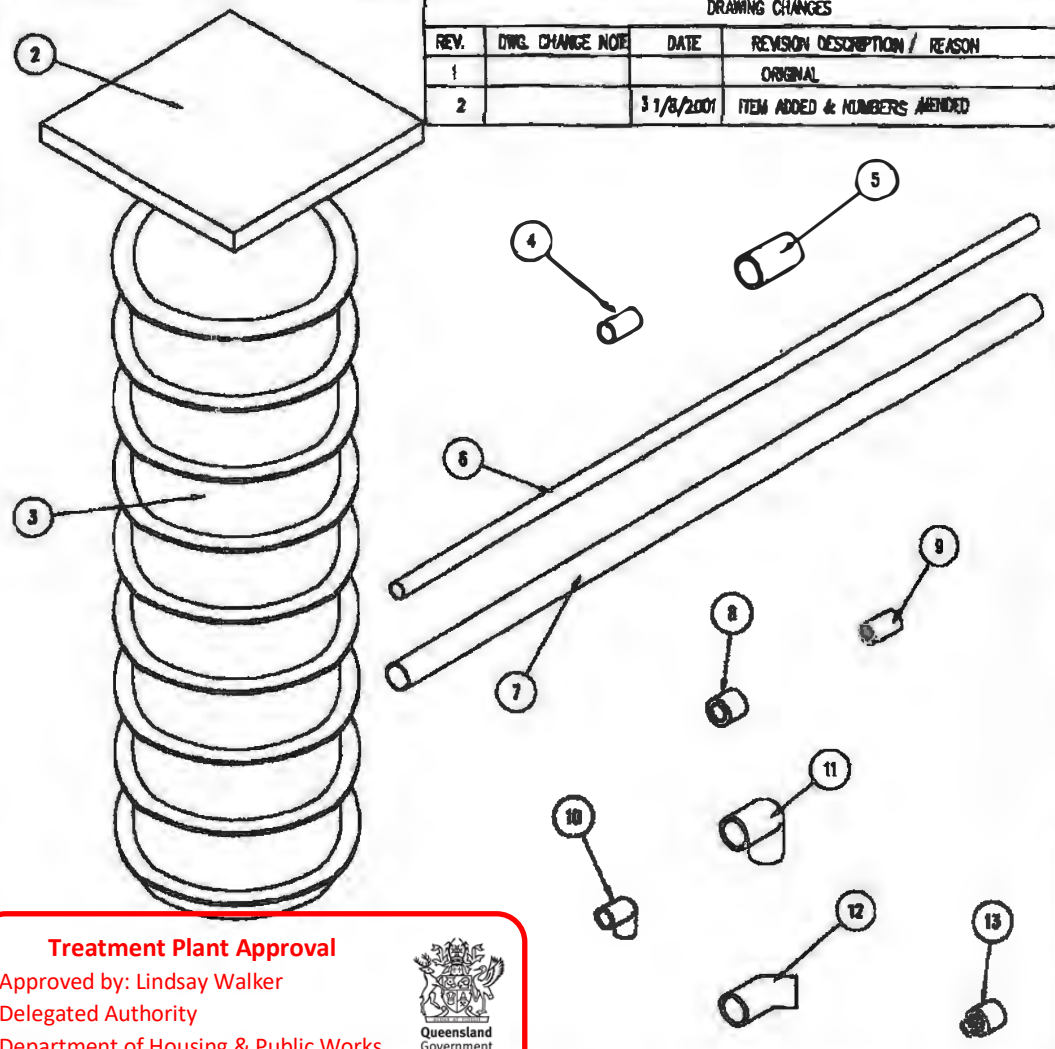
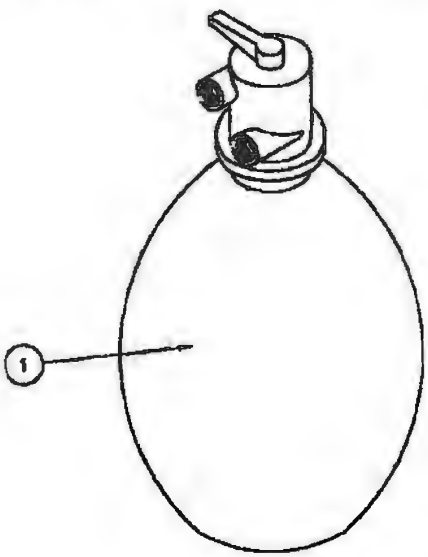
FIRST APPROVED FOR MANUFACTURE  
 ISSUE REVISION:  
 DATE:  
 APP'D BY:

**EVERHARD INDUSTRIES PTY. LTD**  
 PLASTICS & PRECAST CONCRETE  
 OLD CONCRETE ABU-VAWA SYSTEM SAND FILTER LAYOUT.

PLS: [ ] SCALE: [ ] QTY: [ ]  
 DATE: 22/6/2001  
 REF: RF 3464

ITEM	QUANTITY	PART No.	DESCRIPTION	SIZE	GRADE	MASS
1		85371	DAVEY SAND FILTER SF180 - COMPLETE KIT	SF180		
2		42512	PLAIN PAVING SLAB	650mm x 38		19.54
3		86720	375mm RIBSTRUCT FLAT FLANGE 1 END	1.2m	U/GROUND	9.8
4		90852	PVC SLIP-SLIP COUPLING	25mm		
5		90730	PVC SLIP-SLIP COUPLING	40mm		
6		80742	25mm PVC PIPE	1.5m	CLASS 12	
7		90743	40mm PVC PIPE	1.5m	CLASS 12	
8		80532	PVC REDUCING BUSH	40/25		
9		90720	FEMALE ADAPTOR 25 SLIP/1" BSP		CAT 18	
10		90719	PVC ELBOW SLIP-SLIP	25mm		
11		90728	PVC ELBOW SLIP-SLIP	40mm		
12		90728	PVC 45° SLIP - SLIP BEND	40mm		
13			PVC TAKE-OFF ADAPTOR PIPE x BSPM	40 x 1"		

DRAWING CHANGES			
REV.	DWG. CHANGE NO.	DATE	REVISION DESCRIPTION / REASON
1			ORIGINAL
2		31/8/2001	ITEM ADDED & NUMBERS AMENDED



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MANUFACTURING OPERATIONS	
Tolerance (Except where otherwise stated)	Over Up to Tolerance
ANGULAR TOLERANCE (U.N.O.)	
BEND RADIUS	
CORNERS AND FILLETS	
MARK PART No. IN REGION MARKED	<input checked="" type="checkbox"/>
ALL DIMENSIONS TO BE MET AFTER PLATING REMOVE ALL BURRS BREAK ALL SHARP EDGES	0.4mm-0.8mm
SURFACE FINISHES INCLUDING REAMED HOLES	<input checked="" type="checkbox"/>
SURFACE FINISHES FOR DRILLED HOLES CLASS	<input checked="" type="checkbox"/>
WELDING	

MATERIAL	DIMENSIONS IN mm	U.N.O.
INTERNAL AS LISTED	AS PER KIT	
TREATMENT		

DRW	NO	CHKD	EYERHARD INDUSTRIES PTY LTD	
DWG	37A/2001		No SAND FILTER INSTALLATION KIT FOR AQUANOVA QLD POLYMER TREATMENT SYSTEM PART No. 60008	
SCALE	NTS		Proj#	Rev#
CHECKED			Rev#	Rev#
APPROVED			Rev#	Rev#
			Order Number	Revision
			MP - 3002 3495	2

