



CHIEF EXECUTIVE APPROVAL No. 03/2008

Plumbing and Drainage Act 2002, part 5, division 1, section 93

Approval

1. The **Oasis Greywater Treatment System** ("the **system**") described in the Specifications and Drawings in the attached Schedule and manufactured by **Nubian Water Systems Pty. Ltd** (ABN: 48 113 793 641) ("the **manufacturer**") has been assessed in accordance with the Queensland Plumbing and Wastewater Code dated 23 November 2007.
2. Approval is granted for the systems subject to compliance by the manufacturer with the requirements of the *Plumbing and Drainage Act 2002*, part 5, division 1, section 91 and the conditions of approval detailed below.
3. This approval, the conditions of approval and the Schedule comprise the entire chief executive approval document.
4. Any modification by the manufacturer to the design, drawings or specifications scheduled to this chief executive approval must be approved by the chief executive.

Glen Brumby

**Director
Building Codes Queensland**

Date approved: 19 February 2008



Conditions of approval

1. The manufacture, installation, operation, service and maintenance of the systems must be in conformity with the conditions of this chief executive approval.
2. A 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 720 litres; and
 - (b) a maximum organic loading of 188 grams BOD₅.
3. An approved system, when installed on premises, must continue producing effluent that meets the following standard—
 - (a) Biochemical Oxygen Demand – less than or equal to 10mg/L; and
 - (b) Suspended Solids – less than or equal to 10mg/L;
 - (c) Thermotolerant Coliforms – not exceeding 10 Organisms / 100ml;
4. Each system must be supplied with—
 - (a) a copy of this chief executive approval document; and
 - (b) details of the system; and
 - (c) instructions for authorised persons for its installation; and
 - (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 personnel for its operation and maintenance.
5. Each Oasis Greywater Treatment System must be maintained at four (4) monthly intervals, unless a remote monitoring system has been installed, in accordance with the details in the Service Manual.
6. This approval does not extend, apply to, or include the land application system used in conjunction with an approved system installed on premises.

Glen Brumby

**Director
Building Codes Queensland**

Date approved: 19 February 2008

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ABN 61 331 950 314



Queensland Government

Department of Infrastructure and Planning

7. This approval may only be assigned with the prior written consent of the chief executive.
8. The chief executive may, by written notice, cancel this approval if the manufacturer 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.
9. This approval expires on 30 February 2012 unless cancelled earlier in accordance with paragraph 8 above.

Glen Brumby

**Director
Building Codes Queensland**

Date approved: 19 February 2008

SCHEDULE

Attachment 1: Specifications

Attachment 2: Drawings

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Attachment 1

Specifications for the
Oasis Greywater Treatment System

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3 Technical Specifications

3.1.1 Capacity

Balance tank: 300L

Treatment column total: 93.9 L

Backwash Tank: 137.4 L

Treated water tank: 300L

3.1.2 Electrical Supply

Mains connection: 240V/50Hz

Power Consumption: 0.82 – 1.27 kWh/day¹

3.1.3 Mechanical Equipments²

Feed Pump: 71 W

Treated Water Storage Pump: 250 W

Aeration blower: 80 W

Solenoid Valves: 18.5 W

UV Lamp: 20 W

3.1.4 Weight of System

Column cabinet: 40 kg

Feed/Treated water tanks: 31 kg

Feed/Treated water tanks (flooded): 331 kg

Backwash tank: 9 kg

Pre-screen: 10 kg

Treatment column: 40 kg

Components: 35 kg

Unladen weight of system: 165 kg

System in operation (when flooded): 859 kg

¹ Power consumption varies depending daily treatment rates.

² Values represent the maximum power output from the unit. Actual power



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Attachment 2

Drawings for the

Oasis Greywater treatment system

Glen Brumby

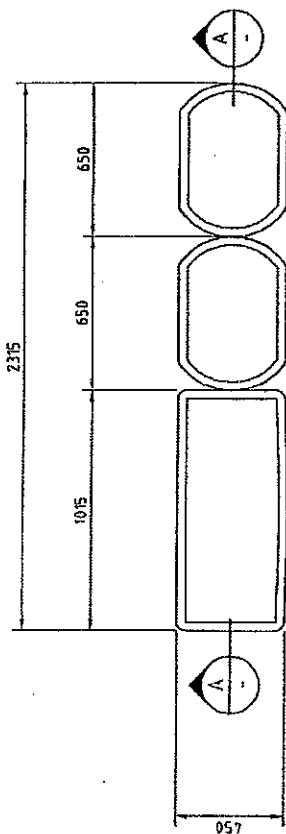
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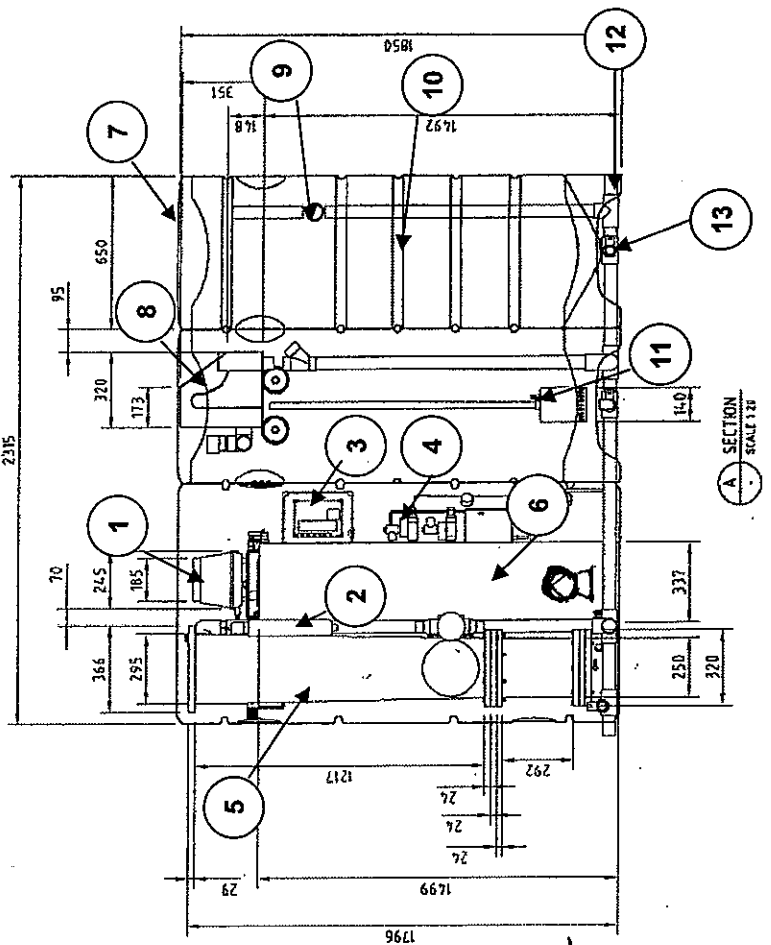
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John
 Director BCO
 18/12/09



PLAN VIEW
 SCALE 1:20



A SECTION
 SCALE 1:20

Nubian Oasis G1 Greywater Treatment System Schematic Layout		
No	Schematic	Description
1	BR-002	Aeration blower
2	UV-001	UV disinfection unit
3	PCB-001	PCB controller
4	25V-302	Solenoid valves
5	TU-001	Treatment column
6	TK002-PF002	Backwash tank & pump
7		Tank lid
8	SC-001	Pre-screen
9		Overflow point
10	TK001/003	Feed and treated water tanks
11	PF-001	Feed pump
12		Tank stand
13		Drainage valve