



**Queensland Government**

Department of Local Government, Planning,  
Sport and Recreation

**CHIEF EXECUTIVE APPROVAL No 22/2006**

*Plumbing & Drainage Act 2002, Part 5, Division 1, Section 93*

**Approval**

1. The **Oasis Greywater Treatment System**, (the “**system**”) described in the Specification 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 1 March 2006.
2. Approval is granted for the system subject to compliance by the facility builder with the requirements of the *Plumbing & Drainage Act 2002*, Part 5, Division 1, Section 91 and the conditions of approval below.
3. This approval, the conditions of approval and the schedule comprise the entire chief executive approval document.
4. Any modification by the facility builder to the design, drawings or specifications in the chief executive approval for the system must be approved by the chief executive.
5. The approval does not affect the operation of the *Trade Practices Act 1974*, the *Fair Trading Act 1989* and the *Sale of Goods Act 1896* or any other law.

Glen Brumby  
**Director**  
**Building Codes Queensland**

Date Approved: 13 December 2006

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ABN 61 331 950 314



### Conditions of Approval

1. The manufacture, installation, operation, service and maintenance of the system must be in conformity with the conditions of the Chief Executive approval.
2. A system, which is an example of the approved system, 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 188g BOD<sub>5</sub>.
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 20 mg/L; and
  - (b) Total Suspended Solids – less than or equal to 20 mg/L; and
  - (c) Thermotolerant Coliforms – not exceeding 10 organisms/100mL.
4. Each system must be supplied with-
  - a copy of the chief executive approval document; and
  - details of the system; and
  - instructions for authorised persons for its installation; and
  - a copy of the owner's manual (to be given to the owner at the time of installation); and
  - detailed instructions for authorised serviced 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 which case the service interval is 6 months, in accordance with the details in the Service Manual.

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6. The approval does not extend, apply to, or include the land application system used in conjunction with an approved system when installed on premises.
7. This approval may only be assigned with the prior written consent of the chief executive.
8. The chief executive, by written notice, may cancel this approval if the manufacturer fails-
  - (a) to comply with one or more approval conditions; or
  - (b) within 30 days, to remedy a breach, written notice for which has been given by the chief executive to the manufacturer.
9. This approval expires on 31 December 2011 unless cancelled earlier or in accordance with paragraph 8 above.

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**Director**  
**Building Codes Queensland**

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## **SCHEDULE**

|                     |                |
|---------------------|----------------|
| <b>Attachment 1</b> | Specifications |
| <b>Attachment 2</b> | Drawings       |



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**SCHEDULE**

**Attachment 1**

Nubian Water Systems Pty Ltd - System Specifications for the *Oasis Greywater Treatment System*:

1. Nubian Water Systems Pty Ltd *Oasis Greywater Treatment System* –  
Technical Specifications for the *Oasis Greywater Treatment System*.

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**Director**  
**Building Codes Queensland**

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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/day <sup>1</sup>

#### 3.1.3 Mechanical Equipments <sup>2</sup>

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

|   |                    |
|---|--------------------|
| Dept of Local Govt, Planning, Sport<br>and Recreation, Queensland |                    |
| <b>Chief Executive Approval</b>                                   |                    |
| Approval No.:   | <u>22/2006</u>     |
| Date of Issue:  | <u>13/12/2006</u>  |
| Director:   | <u>[Signature]</u> |
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<sup>1</sup> Power consumption varies depending daily treatment rates.

<sup>2</sup> Values represent the maximum power output from the unit. Actual power consumption is lower.



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**SCHEDULE**

**Attachment 2**

Nubian Water Systems Pty Ltd - System Drawings for the *Oasis Greywater Treatment System*:

1. *Nubian Oasis G1 Greywater Treatment System* – Schematic Layout.

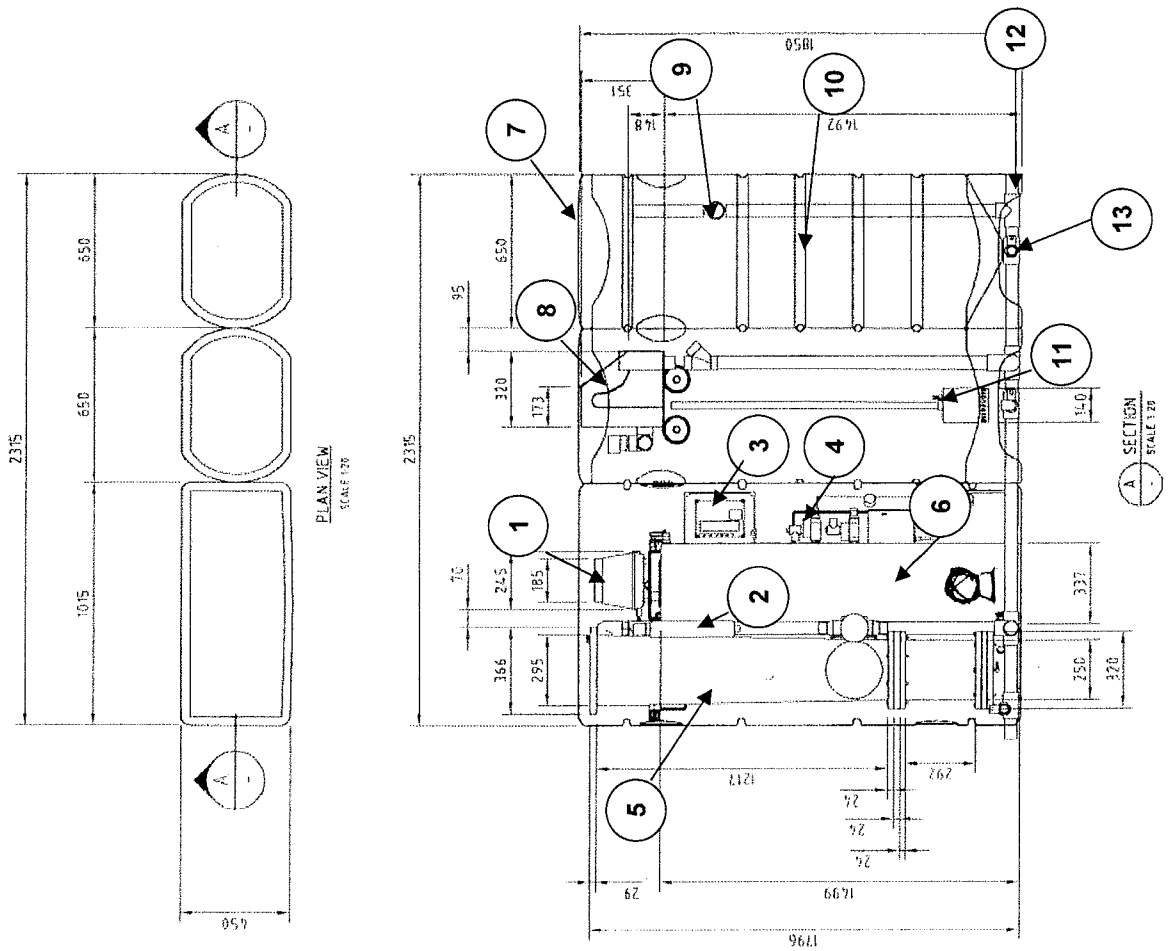
Glen Brumby  
**Director**  
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**Nubian Oasis G1 Greywater Treatment System Schematic Layout**

| 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               |



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