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PURSUANT TO

SECTION 53M(7) OF THE

ENVIRONMENT PROTECTION ACT 1970

CERTIFICATE OF APPROVAL

An approval is hereby issued by the Environment Protection Authority ("the Authority") under Section 53M(7) of the Environment Protection Act 1970 ("the Act")

FOR: SEPTTECH TURBOJET 2000, 2500, 3000, 3500, 4000, 4500 & 5000 WASTEWATER TREATMENT PLANTS

This is to certify that the above system ("the system") is a type of septic tank system approved by the Authority for the purposes of Part IXB of the Act, subject to the attached conditions.

A separate Permit ("the permit") is required from the relevant Council before installation. The permit shall govern the dispersal method and maintenance requirements.

Approval Number:

CA 71/06

Date of Issue:

19 December 2006

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MANAGER AUTHORITY DECISIONS

This Certificate of Approval is in force until 19 December 2011.

Definitions

Code of Practice means the current edition of EPA's Septic Tanks - Code of Practice.

Council means the local municipal council.

Act means the Environment Protection Act 1970.

Permit means a permit issued by a *Council* pursuant to Section 53M 5(b) of the Act.

CONDITIONS OF APPROVAL

1. This approval is valid for (5) five years from the date of this approval or unless withdrawn earlier by the Authority.
2. No modifications or variations to the system may be made unless approved by EPA.
3. The system is approved for domestic and/or commercial wastewater flow not exceeding 2000, 2500, 3000, 3500, 4000, 4500 & 5000 litres/day with a corresponding organic loading not exceeding 625, 750, 1200, 1500, 1700, 2100 & 2500 grams BOD/day.
4. A copy of the "Installation Manual", the "Operations Instruction Manual" as contained in the application and attached on the Certificate of Approval for the system and any other applicable permit conditions, must be supplied with every installation to the owner or occupier of the premises where the unit is installed.
5. A copy of the "Owners Manual" as attached on the Certificate of Approval must be supplied with every installation to the owner or occupier of the premises where the unit is installed.
6. A permanent, clear and indelible notice must be attached to the system in a prominent position that must include the manufacturers name and model number of the system.
7. Desludging of the system must be undertaken at least once every three (3) years, or as deemed necessary after inspection and maintenance as referred in condition 17.
8. An alarm system with suitable visual and/or audio with mute facility must be installed in an appropriate location to indicate a failure of any effluent pump or aeration component.
9. Prior to installation the manufacturer shall provide to the relevant Council a copy of the following information:
 - Statement of warranty and of service life
 - Quality assurance certification and/or quality installation plan

- Installation and servicing manuals
- Owner's or Occupier's Operation Instruction Manual
- Service report form
- Engineering drawings, detailed specifications and A4 installation plans
- A full description of major mechanical and electrical component parts
- Approval documentation as obtained from EPA.

10. The system must be installed by an accredited person with all inspection and access openings over all chambers being brought up to ground-surface level.

Waste Discharges

11. The dispersal of treated effluent must only be onto land if the relevant Council is satisfied that the effluent can be contained within the property boundary and the proposed dispersal system meet the following requirements:

- Code of Practice
- Certificate of Approval 35/93 (current version), and/or
- Certificate of Approval 1.2/03 (current version), and/or
- AS/NZS 1547 On-site domestic wastewater management
- AS/NZS 1546.3 Aerated wastewater treatment systems

12. The effluent from the treatment system must not exceed the following 90th percentiles:

For sub-surface irrigation:

Biochemical Oxygen Demand (BOD)	20 mg/L
Suspended Solids (SS)	30 mg/L

For surface irrigation

Biochemical Oxygen Demand (BOD)	20 mg/L
Suspended Solids (SS)	30 mg/L
<i>E.coli</i>	10 orgs/100ml
Free residual chlorine	0.2 mg/L (min.) and 2.0 mg/L (max.)*

*Applicable only to systems using a chlorination disinfection process.

Monitoring

13. If effluent from the system is dispersed by surface irrigation onto land, the owner is required to cause an **annual** sample of the effluent to be taken. The sample must be tested for the indicators biochemical oxygen demand (BOD), and suspended solids (SS), *E. coli* and free chlorine.

14. If effluent from the system is dispersed by subsurface irrigation, the owner is required to cause an **annual** sample of the effluent to be taken. The sample must be tested for the indicators biochemical oxygen demand (BOD), and suspended solids (SS).

15. The sampling and analysis program referred to in condition 13 and 14 must be undertaken in accordance with the current edition of EPA Publication 441, *A Guide to Sampling and Analysis of Waters, Wastewaters, Soils and Wastes*, or other methods approved by the EPA.

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16. All effluent samples to be taken and analysed by a person or laboratory registered by the National Association of Testing Authorities (NATA) for those tests.

Maintenance

17. Maintenance of the system by a suitably qualified person or servicing agent must be carried out at least once every three (3) months in accordance with the manufacturer's specifications.

Reporting Results

18. An annual report shall be submitted to the relevant Council by the owner of the premises where the system is installed containing the following information:
- results of the performance evaluations referred to in Conditions 13 and 14;
 - copies of all laboratory analytical test reports;
 - copies of inspection and maintenance reports for the period.



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APPROVAL PURSUANT TO
SECTION 53M(7) OF THE
ENVIRONMENT PROTECTION ACT 1970

An approval is hereby issued by the Environment Protection Authority ("the Authority") under Section 53M(7) of the Environment Protection Act 1970 ("the Act")

This is to certify that the reuse of treated wastewater by **SURFACE IRRIGATION** onto land (the system") pursuant to Section 53M (7) *Environment Protection Act 1970* is approved by the Environment Protection Authority ("the Authority") subject to the following conditions -.

Approval Number: CA 035/93
Date of Issue: 27 April 1993

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Note: All previous approvals of this number are revoked or replaced by this document - CA035/93

CONDITIONS

Australian Standard

1. The requirements for irrigation systems in the Australian Standard ASS 1547 – *Disposal of Sullage and Septic Tank Effluent from Domestic Premises* (when published) apply where any conflict or inconsistency with these conditions occurs.

Quality of Recycled Water

2. The quality of recycled water used for surface irrigation must comply with the limits in the Table below:

Indicator	Unit	Maximum
Biochemical Oxygen Demand	mg/L	20
Suspended Solids	mg/L	30
Faecal Coliforms	organisms/100 mL	10
Free Residual Chlorine	mg/L – minimum 0.5	2

3. Permits issued pursuant to Section 53M of the Act, must require a sample of the recycled water being irrigated to be collected at least once every year. The sample must be taken and analysed by a person or laboratory registered by the National Association of Testing Authorities.
4. The recycled water sample must be analysed for the indicators in the Table above. This is necessary to demonstrate that the recycled water is receiving adequate treatment and disinfection. Copies of all reports must be sent to the Council as specified in the permit.
5. Recycled water is not to be used for growing fruit or vegetables.

Irrigation System

6. The irrigation area must be operated so as to prevent any spray drift or runoff of recycled water from the premises.
7. All storm or surface water is to be diverted away from the irrigation area.
8. All irrigation pipework and fittings in the system must comply with AS 2698 – *Plastic pipes and fittings for irrigation and rural applications*. (Standard household hose taps and garden fittings must not be used.)
9. Sprinklers, which produce coarse droplets and not a fine mist, must be used to minimise the risk of aerosol dispersion by wind drift. The spray plume must have a throw of less than two metres and a height of not more than 600 mm.
10. The irrigation system must be a permanently fixed system with distribution pipelines buried at a minimum depth of 100 mm. Drippers and sprinklers are to be spaced so that recycled water is evenly distributed over the irrigation area.

11. The irrigation area must be sized on the sub-soil's percolation rate from the Table below:

Parameter Soil Percolation	Unit	Design Rates per 1000 L/day				
		< 12	15	20	25	50
Irrigation rate	L/m ² d	2.3	2.5	2.8	3.3	5
Irrigation area	m ²	N.S	400	350	300	200

Note: N.S = Not suitable for surface irrigation

12. The irrigation area must be a permanent dedicated area within the premises.
13. The dedicated irrigation area must be cultivated to a depth of 100 mm, planted with grasses or salt tolerant plants and appropriately mulched.
14. A minimum of two (2) warning signs complying with AS 1319 and AS 1547 regarding the use of recycled water must be posted within each irrigation bed or area.
15. No sprays are to be located within 15 metres of any dwelling or source of water supply.
16. Before use of the irrigation system, the irrigation area must be landscaped to the satisfaction of the local Municipal Council.
17. The irrigation system is not to be altered or modified without approval.
18. This approval is valid until withdrawn by the Authority.

Date of Issue 27 April 1993

SECRETARY

