



State of Delaware  
Department of Natural Resources & Environmental Control  
Division of Water Resources  
Ground Water Discharges Section

**Innovative and Alternative System Approval**

**ISSUED TO:** Jet Inc.  
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**FROM:** Hilary Moore – Environmental Engineer  
Ground Water Discharges Section

**FOR:** Jet Inc. Aerobic Treatment Units

**APPROVAL DATE:** September 12, 2005  
**AMENDED DATE:** May 30, 2006

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In accordance with the Regulations Governing the Design, Installation, and Operation of On-Site Wastewater Treatment and Disposal Systems (Regulations), an application dated April 11, 2006, has been submitted by Jet Inc., for approval of the Jet Inc. Aerobic Treatment Unit as an Innovative & Alternative On-Site Wastewater Treatment Unit.

Based on the review of the application, the Department hereby grants approval of the use of the following Jet Inc. Aerobic Treatment Unit models, as an Innovative & Alternative On-Site Wastewater Treatment Units: J-500, J-600, J-750, J-1000, J-1250, and J-1500. The following conditions, limitations, and requirements must be adhered to:

**1. Product Description**

The Jet Inc. Aerobic Treatment Unit utilizes an attached growth process to achieve treatment. The first compartment of the tank provides for pretreatment of

the wastewater by allowing for the removal of large settleable solids. This compartment also provides for anaerobic digestion of the accumulated solids. Biological treatment is achieved in an aerobic treatment compartment, where process media is located. An aerator is provided to introduce oxygen into the system and to provide mixing. The final compartment of the tank provides for separation of the solids sloughed from the process media from the treated wastewater. It is also designed to return the settled solids to the treatment compartment.

Below are the models with their associated treatment capacities:

<b>Model</b>	<b>Capacity (gallons per day - gpd)</b>
J-500	500
J-600	600
J-750	750
J-1000	1000
J-1250	1250
J-1500	1500

## 2. Claim

**Approval is based on information submitted by the Manufacturer indicating the specified model will routinely provide effluent quality not exceeding 30 mg/l of BOD<sub>5</sub>, and 30 mg/l of TSS.**

**This unit has been certified as NSF Standard 40.**

## 3. Use and Design Criteria

- a. The Jet Inc. Aerobic Treatment Unit may be installed for new and replacement systems with conventional and innovative and alternative disposal systems.
- b. The Jet Inc. Aerobic Treatment Unit shall be installed in a tank approved by DNREC.
- c. An on-site wastewater treatment and disposal system permit application incorporating a Jet Inc. Aerobic Treatment Unit shall be designed in accordance with the Regulations, and manufacturer's specifications. The design shall be completed by a DNREC Class C Design Engineer unless otherwise approved by the Department. The permit application shall include proper unit specifications.
- d. The designer must assure that the pretreatment zone, treatment zone, and settling zone all have above grade access. The design also must ensure that the control panel and blower are accessible.
- e. The Jet Inc. Aerobic Treatment Unit shall not be installed within areas subject to traffic loads unless specially designed

on a case by case basis in accordance with the Regulations and in accordance with manufacturer's specifications.

- f. The manufacturer is responsible for providing the Department a list of all local distributors and their associated contact information. This list must be kept current and shall be submitted to the Department on a yearly basis.

#### **4. Installation Procedures**

- a. The Jet Inc. Aerobic Treatment Unit shall be installed by a DNREC Class E System Contractor under the supervision of a manufacturer's representative, or by a DNREC Class E System Contractor who has been certified for unit installation. Proof of certification shall be provided in writing to the Department.
- b. Start up of the system and initial operational checks shall be conducted by the Class E System Contractor (trained by the manufacturer), Design Engineer, and a Ground Water Discharges Section (Large System Branch) representative. If the Class E System Contractor is not certified, a manufacturer's representative shall perform the operational checks of the system at start up. If the manufacturer's representative can not be on site at the time of start up, they must provide final start up approval to the Department in writing.

#### **5. Operation and Maintenance**

- a. The Jet Inc. Aerobic Treatment Unit shall be operated and maintained in accordance with the manufacturer's specifications.
- b. The manufacturer shall comply with all Department mandated requirements as specified in permit conditions. This shall include operation and maintenance requirements.

#### **6. Sampling and Approval**

The Department reserves the right to sample any unit at any time.

#### **7. General Conditions**

- a. Use of the system for wastes other than residential shall be on a case by case basis.
- b. In the event that the product fails to perform as claimed by the applicant, the use of the units for new installations shall cease. Use of the units shall not resume until such time the applicant and the Department have reached an acceptable agreement for resolving the situations.

- c. Any changes that deviate from the specifications as submitted with this approval shall be approved by the Department prior to use.