

**DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH**

North Carolina Residential Wastewater Treatment System Approval

Issued To: BioMicrobics Inc
16002 W 110th St
Lenexa, KS 66219

Contact Name: Daniel Westrich
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For: MicroFast Model 0.5 (500 gallons/day)

Date: September 17, 1997 Shoaf Septic Tank Approval
November 14, 2002 Premium Tanks and Stone Approval
May 1, 2003 Gamewell Septic Tank Service Approval
May 24, 2005 Premium Tanks and Stone Approval
December 31, 2024 Updated for 15A NCAC 18E and renewed for 2025

I. Approved Models

Residential wastewater treatment systems shall be manufactured as per the approved drawings, specifications and testing results, and in concurrence with 15A NCAC 18E Section .1500.

Approved models, corresponding daily design flow rates, and approved RWTS numbers are as follows:

<u>Model Number</u>	<u>Approved Design Daily Flow Rate</u>	<u>RWTS Number</u>
MicroFast 0.5 - Shoaf	500 gpd	RWTS-5
MicroFast 0.5 – Premium Tanks	500 gpd	RWTS-26
MicroFast 0.5 – Gamewell	500 gpd	RWTS-27
MicroFast 0.5 – Premium Tanks	500 gpd	RWTS-36

II. Approved Settling Tanks

The approved settling tank for each of the model numbers is a Branch approved 1,000 gallon septic tank.

III. Influent and Effluent Sampling

Influent samples shall be taken from the outlet end of the septic tank. The sample shall be taken from the clear zone beneath any scum layer using a sludge judge or similar device.

Effluent samples shall be taken from the dosing tank for systems with a final pump tank. Systems with gravity fall to the dispersal field shall have a sampling port located between the treatment unit and the dispersal field.

Effluent samples shall be tested for CBOD and TSS.

Systems shall be sampled annually for design flows less than 1,500 gallons per day.

All sampling shall be done in accordance with Rule 15A NCAC 18E .1302.

IV. Flow Monitoring

Flow monitoring shall include a determination of the 7-day and 30-day flow for the corresponding time period preceding each ORC inspection/sample collection.

When a drip distribution system is proposed, the drip manufacturer shall provide the necessary flow monitoring capability with their separate drip system control panel.

V. Operation, maintenance and monitoring requirements

The operator must be a licensed subsurface operator.

For all systems, BioMicrobics, Inc shall provide for the ongoing operation and maintenance of their systems. BioMicrobics, Inc shall make available to the owner an operation and maintenance contract that meets the requirements of 15A NCAC 18E .1303(b). The contract shall be renewable, and the contract term shall be for a minimum of one year.

The operator must either work for BioMicrobics, Inc, be an authorized representative of BioMicrobics, Inc, or be authorized in writing by BioMicrobics, Inc, or their authorized representative to operate the system.

The State may modify, suspend, or revoke the approval of a system as follows:

- a. The system approval shall be modified as necessary to comply with subsequent changes in the laws or rules which affect their approval.
- b. The approval of a system may be modified, suspended, or revoked upon a finding that:
 1. the system or component fails to perform in compliance with performance standards established for the system; or
 2. the system, component, or the system applicant fails to comply with wastewater system laws, rules, or conditions of the approval.