

**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: Clearstream Wastewater Systems, Inc
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Contact Name: Jim Morris
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For: Clearstream N Models, NC Models, 600-NU, Models, and 600-NC3T Models

Date: January 18, 2001
May 16, 2006 600-NU and 600-NC3T Models
December 31, 2024 Updated for 15A NCAC 18E and renewed for 2025
December 31, 2025 Renewed for 2026

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:

N Models

<u>Model Number</u>	<u>Approved Daily Design Flow Rate</u>	<u>RWTS Number</u>
500-N	500 gpd	RWTS-14
600-N	600 gpd	RWTS-15
750-N	750 gpd	RWTS-16
1000-N	1,000 gpd	RWTS-17
1500-N	1,500 gpd	RWTS-18

NC Models

<u>Model Number</u>	<u>Approved Daily Design Flow Rate</u>	<u>RWTS Number</u>
500-NC	500 gpd	RWTS-19
600-NC	600 gpd	RWTS-20
750-NC	750 gpd	RWTS-21
1000-NC	1,000 gpd	RWTS-22
1500-NC	1,500 gpd	RWTS-23

Northeastern Ready Mix is approved to manufacture the concrete tanks for the above approved models under the following approval numbers:

<u>Model Number</u>	<u>Approval Number</u>
500-NC	NRM/CWS RWTS-19 500
600-NC	NRM/CWS RWTS-20 600

NU Models

<u>Model Number</u>	<u>Approved Daily Design Flow Rate</u>	<u>RWTS Number</u>
600-NU	600 gpd	RWTS-44

NC3T Models

<u>Model Number</u>	<u>Approved Daily Design Flow Rate</u>	<u>RWTS Number</u>
600-NC3T	600 gpd	RWTS-45

II. Approved Settling Tanks

The approved settling tanks for each of the model numbers are as specified below:

<u>Model Number</u>	<u>Approved Settling Tank</u>
500-N and 500-NC models	Separate state approved 250 gallon septic tank
600-N and 600-NC models	Separate state approved 300 gallon septic tank
750-N and 750-NC models	Separate state approved 375 gallon septic tank
1000-N and 1000-NC models	Separate state approved 500 gallon septic tank
1500-N and 1500-NC models	Separate state approved 750 gallon septic tank
600-NU model	Integral part of tank, minimum capacity of 300 gallons as per approved plans
600-NC3T model	Integral part of tank, minimum capacity of 400 gallons as per approved plans

III. Effluent Sampling

Effluent samples shall be taken from the dosing tank for systems with a final pump tank. For systems with gravity fall to the soil absorption system, the effluent sample shall be taken from a sampling port located between the treatment unit and the soil absorption system.

Effluent samples shall be tested for CBOD and TSS.

If needed, influent samples shall be taken the outlet tee of the trash tank that is integral to the Clearstream unit or from the outlet end of the septic tank preceding the Clearstream unit.

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. The Clearstream control panel with the RMS308C autodialer shall take the flow readings for all Clearstream models. The readings are stored in the master unit in the control panel for 15 days and then sent to the main server for storage.

V. Operation, maintenance and monitoring requirements

The operator must be a licensed subsurface operator.

For all systems, Clearstream Wastewater Systems, Inc shall provide for the ongoing operation and maintenance of their systems. Clearstream Wastewater Systems, 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 Clearstream Wastewater Systems, Inc, be an authorized representative of Clearstream Wastewater Systems, Inc, or be authorized in writing by Clearstream Wastewater Systems, 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.