

**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: Hydro-Action
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For: Hydro-Action AP Model Series

Date: August 10, 2007
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</u> | <u>RWTS Number</u> |
|---------------------|-----------------------------------|--------------------|
| AP-500 | 500 gpd | RWTS-46 |
| AP-600 | 600 gpd | RWTS-47 |
| AP-750 | 750 gpd | RWTS-48 |
| AP-1000 | 1,000 gpd | RWTS-49 |
| AP-1500 | 1,500 gpd | RWTS-50 |

II. Approved Settling Tanks

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

| <u>Model Numbers</u> | <u>Approved Settling Tank</u> |
|----------------------|---|
| AP-500 | Separate Hydro-Action fiberglass 500 gallon settling tank |
| AP-600 | Separate Hydro-Action fiberglass 500 gallon settling tank |
| AP-750 | Separate Hydro-Action fiberglass 500 gallon settling tank |
| AP-1000 | Separate Hydro-Action fiberglass 500 gallon settling tank |
| AP-1500 | Separate Hydro-Action fiberglass 750 gallon settling tank |

III. Influent and Effluent Sampling

Influent samples shall be taken from the outlet end of the settling 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 operator 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, Hydro-Action shall provide for the ongoing operation and maintenance of their systems. Hydro-Action 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 Hydro-Action, be an authorized representative of Hydro-Action, or be authorized in writing by Hydro-Action 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.