

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

**PROVISIONAL WASTEWATER
SYSTEM APPROVAL**

Provisional Wastewater System Approval Number: PWWS 2022-01-R3

Issued To: Cur-Tech LLC D.B.A. GoodFlow Solutions
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For: GoodFlow Solutions CTL 12 and CTL 18 Models

Approval Date: December 7, 2022
April 3, 2024 Addition of Installation under Paved Area
December 31, 2024 Renewed for 2025
December 31, 2025 Renewed for 2026

In accordance with G.S. 130A-343 and 15A NCAC 18E Section .1700, an application by GoodFlow Solutions for renewal of the approval for their wastewater system has been reviewed and found to meet the requirements of a Provisional system when the following conditions are met.

I. General

A. Scope of this Provisional Approval

1. Use, design, and installation requirements for CTL 12 and CTL 18 systems to meet TS-I effluent standards in accordance with 15A NCAC 18E .1201(a), Table XXV.
2. Use, design, and construction requirements for CTL 12 and CTL 18 systems under paved areas.
3. Operation, maintenance, and monitoring requirements for CTL 12 and CTL 18 systems to ensure compliance with effluent standards.
4. Proposal for evaluation of this Provisional System.

B. This Provisional Approval is only applicable to CTL 12 and CTL 18 systems receiving domestic strength effluent or pretreated influent, not exceeding the parameters in 15A NCAC 18E .0402(a), Table III, and with a design daily flow less than or equal to 1,500 gallons per day (gpd).

C. CTL 12 and CTL 18 systems may be proposed for facilities with high strength effluent, as defined in 15A NCAC 18E .0402(a), Table III or industrial process wastewater by a North Carolina

Professional Engineer (PE) and GoodFlow Solutions to the Department for review and approval on a case-by-case basis, prior to permitting by the local health department (LHD). The system design shall include the proposed untreated wastewater strength in BOD₅, COD, TN, TSS, and fats, oils, and grease, the expected organic loading rate in pounds of BOD or N, the hydraulic loading rate on the pretreatment system, and the calculations, references, and any other needed information to support the proposed design.

- D. Any site utilizing these systems shall have wastewater with sufficient alkalinity to facilitate biological treatment processes. The influent shall not have a pH or toxins that significantly inhibit microbial growth.
- E. This Provisional Approval is limited to 200 systems. The intent of this Provisional Approval is to gain sufficient field experience to qualify this system for Innovative Approval as a TS-I system pursuant to 15A NCAC 18E .1705.
- F. Use of CTL 12 and CTL 18 systems with a design daily flow exceeding 1,500 gpd may be permitted after review and approval by the State on a case-by-case basis in accordance with 15A NCAC 18E .0302(e).

II. System Description

The GoodFlow Solutions system consists of the following components: a State approved septic tank and a subsurface bed dispersal system utilizing CTL 12 or CTL 18. The effluent can flow by gravity or be pumped to the CTL 12 or CTL 18 system. Distribution methods can include pressure dispersal and timed dosing. Some GoodFlow Solutions systems may include advanced pretreatment meeting TS-II prior to discharge to the bed dispersal system.

- A. The State approved septic tank shall be sized in accordance with 15A NCAC 18E .0801. All tanks shall be leak tested in accordance with Section VII of this approval.
- B. The GoodFlow Solutions system consists of the following:
 - 1. Concrete chamber systems CTL 12 or CTL 18 consisting of precast chambers designed for H-10 or H-20 loadings. The standard chamber dimensions are eight feet long and four feet wide. All concrete components will be precast in an NPCA certified facility.
 - 2. The GoodFlow Solutions concrete chamber systems are attached to high strength ABS fins which are designed to withstand an H-20 loading with six inches of cover.
 - 3. The fins have an open bottom and perforations on the side walls. They are also upholstered with un-woven geotextile.
 - 4. Chambers are installed on six inches of ASTM C-33 sand which is also filled in-between the fins.
 - 5. The completed chamber assembly for both systems is 76 inches by 96 inches, and units have an inspection port with an opening of 18 inches.
 - 6. Minimum required number of chambers for any system is two (16 linear feet).
 - 7. The sampling devices shall either be provided by or constructed in accordance with designs specified by the Massachusetts Alternative Septic System Test Center.
 - 8. Chambers may be installed with a trench bottom depth between six inches to 36 inches.

Venting is required to systems installed under paved areas.

- C. Each chamber unit shall be permanently marked with stenciled markings showing GoodFlow Solutions and either CTL 12 or CTL 18.
- D. Each chamber unit is designed to be installed in series longitudinally or side by side with vents at the distal end of any chamber trench line where vents are proposed to be installed.

III. Siting Criteria

- A. The GoodFlow Solutions system shall be sited and sized in accordance with 15A NCAC 18E .1206 for TS-I and TS-II bed systems. GoodFlow Solutions systems shall have a design daily flow less than or equal to 1,500 gpd or 480 gpd for an existing fill site and shall meet the following requirements:
 - 1. Bed configurations where the soil is classified based on texture as Soil Group I or II, shall not have a design flow exceeding 1,500 gpd, and shall meet the siting requirements in 15A NCAC 18E .1206(c)(1) and (c)(4).
 - 2. Bed configurations where the soil is classified based on texture as Soil group III shall not have a design daily flow exceeding 600 gpd and shall not receive any further siting concessions than those granted to NSF/ANSI 40 systems in 15A NCAC 18E .1202.
 - 3. Bed configurations where the soil is classified based on texture as Soil Group I with a design flow not exceeding 1,500 gpd, shall meet the siting requirements in 15A NCAC 18E .1206(c)(1) and (c)(4).
 - 4. Vertical separation requirements to a limiting condition are measured from the bottom of the sand layer.
- B. The slope shall not exceed 10 percent. A hydraulic assessment completed pursuant to 15A NCAC 18E .1206(c)(3) is required on sites with slopes greater than two percent.
- C. The system shall be considered to be a fill system if any part of the GoodFlow Solutions chambers are located above the naturally occurring soil surface.

IV. System Sizing

- A. The GoodFlow Solutions system shall be sized in accordance with 15A NCAC 18E .1206 for TS-I or TS-II bed systems.
- B. GoodFlow Solutions systems designed to produce or receive TS-I effluent with a design flow less than or equal to 1,500 gpd shall be sized in accordance with 15A NCAC 18E .1206(c), with up to a maximum reduction of 50 percent in Group I or II soils when compared to the area required for a bed system receiving septic tank effluent with no additional pretreatment. The net result is a bed bottom area that is 75 percent of the bottom area required for a conventional trench system receiving septic tank effluent with no additional pretreatment. Two or more equally sized beds shall be utilized, with a minimum separation between beds of 20 feet (10 feet when three or more beds are used). Furthermore, effluent shall be distributed to the beds by a pump and timer control system to distribute flow evenly over a 24-hour period.

- C. GoodFlow Solutions systems designed to receive TS-II effluent with a design flow less than or equal to 1,500 gpd in Group I soil shall be sized in accordance with 15A NCAC 18E .1206(c), and to meet the design requirements specified in this Rule.
- D. In Group III soils, there is no bed size reduction. The bed bottom area for the GoodFlow Solutions system shall be 50 percent greater than the bottom area required for a trench system.

V. Special Site Evaluation

A special site evaluation may be required based on the proposed dispersal system. Refer to 15A NCAC 18E .0510 for when a special site evaluation is required.

VI. Design Criteria

- A. The GoodFlow Solutions system shall be designed in accordance with the following criteria.
 - 1. A septic tank sized as required in 15A NCAC 18E .0801 shall be provided. The access riser provided over the effluent filter at the outlet end of the septic tank shall extend to finished grade at a minimum and be designed and maintained to prevent surface water inflow.
 - 2. A state-approved pump tank shall be provided, if needed. The pump tank shall be sized in accordance with 15A NCAC 18E .0802. Dosing shall be demand or timed dosing.
 - 3. Components common to all GoodFlow Solutions systems:
 - a. septic tank;
 - b. distribution device, where applicable;
 - c. CTL 12 or CTL 18 units;
 - d. sampling device through the inspection ports;
 - e. ASTM C-33 sand; and
 - f. venting when required. Venting is required for all systems installed under paved areas. Venting shall be one of the two options listed below:
 - i. When a single row is installed, each chamber row will have two four-inch pipe openings fitted with a Polylok gasket, or approved equal, at the beginning wall of the first chamber and the end wall of the last chamber. Four-inch SDR 35 or Sch 40 pipe shall be installed at both ends of the trench. The pipe shall be run to an area chosen by the system designer. The vent pipe will be extended 18 inches above finished grade. The end of the exposed pipe shall be fitted with two four-inch 90-degree bends to create a 180-degree sweep. The open end of the sweep shall be fitted with screening to prevent rodent intrusion.
 - ii. When an installation has multiple rows of CTL chambers, the venting procedure for a single row shall be followed. The vent pipes for each row shall be connected together in a header style configuration and one four-inch pipe run to an area chosen by the system designer.
 - 4. Distribution of the effluent shall be to the first CTL chamber unit in each row unless pressure dispersal is utilized.
 - 5. System design criteria for systems not under paved areas:
 - a. The minimum sand depth below a chamber is six inches.
 - b. Chambers can be installed side by side in parallel or in series (one row).

- c. Parallel linear segments of CTL 12 and CTL 18 units placed side by side shall have a minimum required center-to-center spacing of 7.3 feet (12 inches between side-by-side segments from edge to edge).
 - d. Minimum cover over system is six inches for H-10 rated chambers.
 - e. Maximum bed length is 25 chambers.
 - f. Pressure dispersal shall be utilized for bed lengths exceeding 100 feet (more than 12 chambers).
 - g. Low pressure pipe systems shall use a 1 ½ inch lateral installed through the ports in the chambers. The lateral will not be sleeved. Orifice size and spacing will be in accordance with 15A NCAC 18E .0907(e)(5), (7), (8), (9), (10), (11), and (12).
 - h. The sampling and ponding measurement devices will be located in the center of each row, within the second or third chamber closest to the inlet end of the system.
 6. System design criteria for systems installed under paved areas:
 - a. The system shall be designed by a PE.
 - b. The design and installation criteria in Sections VI.A.5, VII.D, and VII.E shall be followed except as outlined here.
 - c. Minimum backfill depth shall be 10 inches of compacted gravel or ¾ inch process material.
 - d. The paved area shall be on top of the backfill.
 - e. The PE shall specify the proper H-20 loading subsurface preparation.
 7. The system design shall incorporate provisions for complying with a means for determining at least the daily, 7-day, and 30-day flow monitoring requirements of 15A NCAC 18E .1702(a)(2)(I). This information shall be stored in a data logging system which can be downloaded by the operator authorized in writing by GoodFlow Solutions (authorized operator).
 - a. If a pump is involved, a cycle counter and data logging system will be incorporated into the pump control panel. The cycle counter will be used to estimate daily flow.
 - b. If the system is gravity fed, the system design will either incorporate a siphon system with a cycle counter or a tipping D-box with a cycle counter. A data logging system will be used with the cycle counter to track the flow going to the system. Other methods for tracking the flow may be used when proposed by the manufacturer and approved by the State.
 - c. When none of the above options are feasible, a water meter can be placed on the incoming line to the house connected to a data logging system. Even though not all the water entering the house will enter the wastewater system, the water meter readings will be considered as the water use readings.
 8. For system designs requiring two or more side-by-side parallel linear segments to be used, effluent shall be distributed uniformly to each parallel linear segment separately using a suitable distribution device.
 9. GoodFlow Solutions systems sited and sized in accordance with TS-II performance standards shall be preceded by an approved advanced pretreatment system designed to produce TS-II quality effluent that will be delivered to the GoodFlow Solutions system.
- B. The GoodFlow Solutions systems shall be designed by a designer authorized in writing by GoodFlow Solutions (authorized designer) or a PE. Systems over 1,000 gpd or installed under

paved areas shall be designed by a PE.

VII. Installation and Testing

- A. A preconstruction conference shall be required to be attended by the following, as applicable: authorized designer, Authorized On-Site Wastewater Evaluator (AOWE), PE, GoodFlow Solutions licensed distributor, installer authorized in writing by GoodFlow Solutions (authorized installer), authorized operator, and LHD prior to beginning installation of the CTL 12 or CTL 18 systems.
- B. All GoodFlow Solutions systems shall be installed according to directions provided by GoodFlow Solutions.
- C. All individuals or companies installing GoodFlow Solutions systems shall be in possession of all necessary permits and licenses before attempting any portion of a new or repair installation. The company or individual must be a Level IV installer and authorized in writing by GoodFlow Solutions.
- D. The GoodFlow Solutions systems shall be installed level on six inches of ASTM C-33 sand. The elevation shall be high enough to meet constraints established for the site by the final treatment and disposal system. When sited in accordance with the appropriate sections of this approval, the bottom of the sand for the GoodFlow Solutions systems may be installed up to but no deeper than five feet below finished grade, provided that the vertical separation requirements in 15A NCAC 18E, Section .1200 are met.
- E. ASTM C-33 sand shall be backfilled between the fins, six inches to the sides of the fins and two inches above the fins until level with the concrete chamber. Nonwoven filter fabric shall be placed over the concrete chamber and the sand on top of the fins. Minimum backfill depth shall be six inches above the chambers. At least the final four inches of backfill after settling shall have a finer texture, such as Group II or III, for the establishment of a vegetative cover. Systems installed under paved areas shall have 10 inches of compacted gravel or $\frac{3}{4}$ inch process material backfill.
- F. Watertightness of the tanks shall be tested by either a 24-hour hydrostatic test or a vacuum test in accordance with the following, as applicable:
 1. Hydrostatic Test^{1, 2}
 - a. Temporarily seal the inlet and outlet pipes.
 - b. Fill tank with clean water to a point at least two inches above the pipe connections or the seam between the tank and the riser, whichever is highest.
 - c. Measure the water level.
 - d. Allow the tank to sit for 24 hours.
 - e. Re-measure the water level.
 - f. If the water level change is $\frac{1}{2}$ -inch or less or one percent of the liquid tank capacity, the tank passes the leak test.

¹ Victor D'Amato and Ishwar Devkota, *Development of Prefabricated Septic and Pump Tank Construction and Installation Standards for North Carolina*.

² National Precast Concrete Association, *Best Practices Manual Precast Concrete On-Site Wastewater Tanks*, Second Edition, October 2005, 24.

- since last visit and troubleshooting actions;
5. Dispersal field pump delivery rate (drawdown test), determination of the average pump run time, and dispersal field dosing volume;
 6. Average and maximum 7-day and 30-day flowrates in gpd;
 7. Any structural damage, accessibility issues, adequate ventilation, excess odors, ponding of effluent, insect infestations, vegetative growth over the dispersal field, or surfacing of effluent on the dispersal field;
 8. Sample of GoodFlow Solutions system effluent collected from the sampling point to check for effluent clarity and odor.
 9. Readings from cycle counters, run time meters, and/or water meters; and
 10. Samples and laboratory analyses of GoodFlow Solutions systems influent and effluent as required.
- E. The authorized operator shall also conduct additional observations, measurements, monitoring, and maintenances activities as specified in the Operation Permit (OP) and as recommended by the manufacturer.
- F. Sampling
1. All sampling shall be done in accordance with 15A NCAC 18E .1302 and .1709. CTL 12 and CTL 18 systems shall be sampled annually when the design daily flow is less than or equal to 1,500 gpd. Systems with design daily flows greater than 1,500 gpd and less than or equal to 3,000 gpd shall be sampled twice a year.
 2. All systems shall be tested for effluent CBOD₅, TSS, NH₄-N, and fecal coliforms.
 3. Effluent samples shall be collected from the sampling device.
 4. Adjustments in the monitoring schedule and number of parameters sampled may be proposed by the manufacturer and approved by the State as a modification to this Provisional Approval.
- G. Notification and Performance of Maintenance and Repairs
1. The authorized operator shall alert GoodFlow Solutions, the LHD, and the system owner within 48 hours of needed maintenance or repair activities including but not limited to landscaping, tank sealing, tank pumping, pipe or control system repairs, and/or adjustments to any other system component.
 2. The authorized operator shall notify the system owner, GoodFlow Solutions, and the LHD whenever the pump delivery rate efficiency or average pump run times are not within 25 percent of initial measurements conducted prior to system start-up.
 3. System troubleshooting and needed maintenance shall be provided to maintain the pump delivery rate and average pump run time within 25 percent of initial measurements conducted during system start-up.
 4. Tank compartments will be pumped as needed upon recommendation of the authorized operator and in accordance with the O&M Manual instructions. However, at a minimum, the septic tank will be pumped whenever the depth of both the sludge and scum is found to be more than one-third of the liquid depth in any compartment.
 5. The tanks shall be pumped by a permitted septage management firm, and the septage handled in accordance with 15A NCAC 13B .0800.
 6. All maintenance activities shall be logged and recorded in the authorized reports provided to

the system owner, GoodFlow Solutions, and the LHD.

H. Reporting

1. The authorized operator shall provide a completed written report to the system owner, GoodFlow Solutions, and the LHD within 30 days of each inspection. At a minimum, this report shall specify:
 - a. The date and time of inspection;
 - b. System operating conditions measured and observed according to VIII.D and VIII.E;
 - c. Results from any laboratory analyses of any influent and effluent samples;
 - d. Maintenance activities performed since the last inspection report;
 - e. An assessment of overall system performance;
 - f. A list of any improvements or maintenance needed;
 - g. A summary of the flow data retrieved from the data logging devices, the daily, 7-day, and 30-day flows, flow variances, and other operating conditions;
 - h. A determination of whether the system is malfunctioning, and the specific nature of the malfunction; and
 - i. Any changes made in system settings based on recommendations of the manufacturer.
2. Proposal for Evaluation and Reporting
 - a. The manufacturer shall maintain a contract for evaluation of the performance of the provisional wastewater system with an independent third-party laboratory, consultant, or other entity that has expertise in the evaluation of wastewater systems and that is approved by the State.
 - b. An annual report is due with the approval renewal by November 30th every year. The reports shall include the following information at a minimum:
 - i. list of all systems currently installed under Provisional Approval;
 - ii. results of all effluent quality samples collected, including a table summarizing all the effluent quality results;
 - iii. flow monitoring information;
 - iv. copies of all ORC inspection reports;
 - v. assessment of system performance in relation to effluent quality standards and showing compliance with 15A NCAC 18E .1709 and .1710;
 - vi. assessment of physical and chemical properties of the materials used to construct the system in terms of strength, durability, and chemical resistance to loads and conditions experienced and showing compliance with 15A NCAC 18E .1705(a)(2);
 - vii. recommended areas of applicability for the system; and
 - viii. conditions and limitations related to the use of the system.
 - c. Upon completion of the research and testing protocol, the third-party shall submit a final report to the State. This report shall be submitted in conjunction with GoodFlow Solutions completing an application for Innovative Approval.
 - d. The final report shall contain the following information at a minimum:
 - i. list of all systems currently installed during the Provisional Approval period;
 - ii. results of all effluent quality samples collected, including a table summarizing all the effluent quality results;
 - iii. flow monitoring information;
 - iv. copies of all authorized operator inspection reports;
 - v. assessment of system performance in relation to effluent quality standards and

- showing compliance with 15A NCAC 18E .1709 and .1710;
- vi. assessment of physical and chemical properties of the materials used to construct the system in terms of strength, durability, and chemical resistance to loads and conditions experienced and showing compliance with 15A NCAC 18E .1705(a)(2);
 - vii. recommended areas of applicability for the system; and
 - viii. conditions and limitations related to the use of the system.
- e. The Final Report shall be in electronic format and may be published on the On-Site Water Protection Branch's website without confidentiality. The contents of the reports shall not be altered from the original document without approval from GoodFlow Solutions.
 - f. The research and testing protocol shall be managed by Anlauf Engineering or other approved third-party evaluator and includes the following minimum activities outlined in a detailed protocol provided in the submittal:
 - i. A minimum of 50 complete data sets shall be collected from a minimum of 15 sites each, for TS-I systems.
 - ii. A complete data set includes the following information: influent BOD and TKN; and effluent CBOD and TSS, and fecal coliform and NH₃. There must be at least 30 days between samples collected from any one site.
 - iii. Samples shall be collected from all sites. A site may be excluded if adequate justification is provided that the site is unsuitable as a test site. The samples from that site must be provided but will not be used as part of the data evaluation.
 - iv. Each site shall produce a minimum of two complete data sets collected over at least a 12-month period.
 - v. For coastal resort communities, two samples shall take place between June 1 and September 8 of each year. The samples must be taken at least six weeks apart.
 - vi. Other seasonal homes shall be inspected by the ORC and sampled during the projected times of peak use and/or occupancy. Samples shall not be collected during periods with limited or no occupancy.
 - vii. The samples will be collected during a scheduled visit by the ORC.
 - viii. A copy of the sample results will be provided to the On-Site Wastewater Branch after the analyses.
 - ix. Hydraulic performance shall be assessed based upon ponding conditions and will be done at the time the influent and effluent samples are drawn. The ponding level for the system passing shall be to the bottom of the distribution pipe. Observation data can be discarded if a one inch or greater rainfall occurred in the last 24 hours. Failed observation data can also be discarded if the port is re-inspected from no more than three days afterwards and found to pass upon re-inspection.
 - x. At least one measurement for each site used for the hydraulic performance assessment shall be taken during a typical wet-weather period (January through March) and no more than two measurements taken at a single site shall be used for the overall hydraulic performance assessment.
 - g. In order to meet the effluent monitoring and hydraulic performance criteria in this Paragraph, data may be presented that has been collected as part of a comparable third-party evaluation in another State or Canada.
 - h. Compliance of each site and the system shall be in accordance with requirements set forth in 15A NCAC 18E .1710.

IX. Responsibilities and Permitting Procedures

- A. Prior to the installation of a GoodFlow Solutions system at a site, the owner shall submit an application or Notice of Intent (NOI) to the LHD for the proposed use of this system. Improvement Permits (IP) or Construction Authorizations (CA) issued by the LHD shall have a soil and site evaluation conducted either by the LHD, LSS, or Authorized On-Site Wastewater Evaluator (AOWE). The NOI shall include a soil and site evaluation conducted by an LSS.
- B. The IP, CA, and NOI shall contain all the conditions the site approval is based upon, including the proposed use of the Innovative system. The OP will include all conditions specified in the IP and CA. The Authorization to Operate (ATO) should include all the conditions specified in the NOI.
- C. When a special site evaluation is required pursuant to 15A NCAC 18E .0510, an evaluation and written, sealed report from a Licensed Soil Scientist (LSS) regarding the site shall be provided to the LHD. The report shall contain the information as specified in 15A NCAC 18E .0510(d). The LHD may request the assistance of their Regional Soil Scientist in evaluating this report prior to permit issuance.
- D. GoodFlow Solutions systems shall be designed by either an authorized designer, AOWE, or a PE. Systems over 1,000 gpd, or as required in accordance with 15A NCA C18E .0303(a) shall be designed by a PE.
- E. Prior to the LHD issuing a CA for a CTL 12 and CTL 18 system, a design submittal prepared by an authorized designer, AOWE, or PE shall be submitted. The design submittal shall include the information required in 15A NCAC 18E .0305.
- F. It is recommended that local authorized environmental health practitioners attend a design training session offered by the manufacturer or authorized representative prior to permitting the system. Also, at the request of the LHD, a Regional Engineer will review designs.
- G. For sites required to be evaluated by an LSS or Licensed Geologist (LG), see Section V and IX.C, the LHD, AOWE, or PE may specify as a condition of the IP and CA that an LSS or LG oversee critical phases of the dispersal field installation and certify in writing that the installation was in accordance with their specified site and installation requirements prior to the OP or ATO issuance.
- H. The authorized operator shall be present during the final inspection of the system prior to the issuance of the OP or ATO.
- I. The LHD shall issue the OP after the following:
 - 1. Field verification of installation completion;
 - 2. Receipt of written documentation from the authorized designer, AOWE, or PE that the system has been designed, installed, and is operating in accordance with the approved plans; and
 - 3. All necessary legal documents have been completed, including the contract between the system owner and the authorized operator.

The LHD shall issue the OP for an (a2) and (a5) application after all necessary legal documents have been completed, including the contract between the system owner and the authorized operator.

The ATO shall be submitted to the LHD in accordance with G.S. 130A-336.1 and G.S. 130A-336.2.

X. Repair of Systems

The provisions of 15A NCAC 18E .1306 shall govern the use of the GoodFlow Solutions systems for repairs to existing malfunctioning wastewater systems.

Approved By: _____ Date: _____