



# Oregon

John A. Kitzhaber, MD, Governor

Department of Environmental Quality  
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TTY 711

August 2, 2011

Donald Bach  
Norweco, Inc.  
Norwalk Wastewater Equipment Company  
220 Republic Street  
Norwalk, OH 44857

RE: Singulair Green Model TNT-500  
NSF Standard 40 Certified Onsite Wastewater Treatment System

Dear Mr. Bach,

We received your Alternative Treatment Technology (ATT) application and the plans, specifications, and other required exhibits for the Singulair Green Model TNT-500 system rated at 500gpd for Treatment Standard 1 approval. Norweco<sup>®</sup>, Inc. and NSF have certified that the ATT's comply with all applicable rules and regulations. We have reviewed these materials for compatibility with the standards and criteria found in Oregon Administrative Rule (OAR) 340-071-0345. I am pleased to advise you that the following ATT systems manufactured by Noweco,<sup>®</sup> Inc. have been found to meet the approval criteria for **Treatment Standard 1** when used as part of an onsite wastewater treatment system in Oregon:

- Norweco<sup>®</sup> Singulair<sup>®</sup> Green Model TNT-500 (500 gpd)

Norweco, Inc. is authorized to manufacture, market, and distribute these ATT's for use in Oregon provided the following conditions are met:

1. The ATT must be manufactured in compliance with the Department's rules and the plans and design specifications approved by the Department. Alteration of the ATT system design that might affect system performance must be authorized by NSF International and the Department. Product modification approval from NSF International must be copied to the Department.
2. The plans, referenced as drawing number PC-5-9982, were approved by the Department on 7/29/2011.
3. The ATT system must be preceded by a properly sized septic tank approved for use in Oregon.
4. The ATT system must be followed by a properly sized dosing tank approved for use in Oregon.
5. In the event of aerator failure, the control panel must lockout effluent pump operation to prevent untreated or partially treated effluent from discharging to the absorption area. An audible and visual alarm must activate in the event of either a pump or aerator failure.
6. Your company must provide training for, and maintain a list of certified installers and maintenance providers authorized to work on these ATT's and provide certificates to those individuals. Individuals installing your systems, and regulators in the County of installation, must be trained prior to installation of your products in Oregon. Please provide the Department with a

plan for training installers, maintenance providers, and regulators within 90 days of the date of this letter.

7. As the Manufacturer of these products, it is your responsibility to assure that each assembled ATT delivered to the construction site is water-tight. Assurance must be achieved by periodic testing of the ATT products for water-tightness at the manufacturing facility.
8. Service contract, and inspection and service visits must meet or exceed the requirements of OAR 340-071-0345(14). The current rules state that a two-year service contract, including a minimum of four (4) service visits scheduled every six months, to inspect, adjust and service the ATT is required until the system is decommissioned. The initial service contract must be included in the purchase price of the ATT.
9. Each ATT system must maintain NSF Standard 40 Class I Certification.
10. Systems less than 10 years old may not exceed a failure rate of 10 percent.
11. The ATT must be installed in accordance with the manufacturer's installation manual.
12. Each ATT is only acceptable for use at locations where the top loading will not exceed the engineering design parameters. ATT's proposed for use at other locations requires an engineering analysis of the potential top loading, and may require the preparation of site-specific plans and specifications.
13. All other applicable rules and requirements within OAR 340-071 and 73 must be followed.

This determination should not be construed in any way as our endorsement of the product or any advertising. Moreover, we are not responsible for any situation which may result from use or mis-application of your product.

If you have any questions regarding this letter, please contact Dan Wiltse at (541) 687-7436 or by email at [wiltse.daniel@deq.state.or.us](mailto:wiltse.daniel@deq.state.or.us).

Sincerely,



Michael E. Kucinski, Manager  
WQ/Onsite

EC: All Contract County Offices  
All DEQ Direct Service Offices