



Oregon

John A. Kitzhaber, MD, Governor

Department of Environmental Quality

Western Region Eugene Office

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TTY 711

March 6, 2013

Doug Dilley
Willamette Graystone, Inc.
P.O. Box 7816
Springfield, OR 97475

Dear Mr. Dilley:

The Oregon Department of Environmental Quality (DEQ) has received the plans, specifications and other associated materials you provided for a proposed septic tank configuration to be manufactured by Willamette Graystone, Inc. This letter is to inform you that the following tank can be installed in the State of Oregon, based on your certification that the tank complies with all applicable Department rules and regulations:

- 1000 gallon partitioned dosing septic tank

Boeger & Associates, LLC was the engineering firm for all plans submitted. These plans were stamped by Dennis Boeger, P.E., CWE. A copy of the Department approved plans and installation manual dated March 5, 2013, are attached to this letter. Willamette Graystone, Inc. is authorized to manufacture and distribute the above mentioned tank for use in onsite wastewater treatment systems in Oregon until further notice, provided the following conditions are met:

1. The tanks must be manufactured in compliance with the Department's rules and the plans and design specifications provided. Any deviations from the plans and specifications are not permitted unless authorized in writing by the Department.
2. The concrete mix must be in accordance with the mix description on the plans prepared by your engineer. A twenty-eight day (28) compressive strength of 3,000 PSI, as specified in the plans provided by the engineer must be achieved. Samples must be tested for compressive strength. Three (3) concrete sample cylinders must be taken and tested for each tank manufactured until the minimum compressive strength is obtained. Thereafter, at least one (1) concrete sample cylinder for each five (5) tanks produced must be taken. Samples must be alternately broken at twenty-eight (28) days. All tanks must be field cured were the tanks are stored. Laboratory curing of additional samples may be done at the discretion of Willamette Graystone, Inc. Upon request, all test results must be made available to the Department for review.
3. Tanks shall not be removed from the manufacturing site to the job site until the tanks have cured for seven (7) days, or have reached two-thirds of the design strength. Proper curing techniques must be used to ensure watertight tanks.

4. Your business is responsible to ensure that each assembled tank delivered to a construction site is water-tight. It is expected that Willamette Graystone, Inc. will pre-test some percentage of the tanks at the plant to verify they are water-tight.
5. The riser and lid are to be constructed of ribbed Poly Vinyl Chloride (PVC).
6. Each tank must be installed with a minimum twenty four (24) inch diameter water-tight riser, at the inlet side and outlet side of the tank, extending to the ground surface when burial depths do not exceed thirty-six (36) inches. Burial depths thirty-six (36) to forty-eight (48) inches require a thirty (30) inch riser on the inlet and outlet side of the tank extending to the ground surface. All risers must be installed in accordance with Oregon Administrative Rule (OAR) 340-071-220(3)(b)(C).
7. Each tank must be delivered with an installation guide. The guide must be printed on water proof paper or an equivalent method of keeping the guide legible in adverse weather conditions.
8. Each tank is only acceptable for use at locations where the top loading will not exceed the engineering design parameters. Tanks proposed for use at other locations require engineering analysis of the potential top loading, and may require the preparation of site-specific plans and specifications.
9. Each tank must be marked on the upper most tank surface over the outlet with the liquid capacity, date of manufacture, burial depth limit and either the full business name or the assigned number 310.

This determination should not be construed in any way as the Department's endorsement of this product or any advertising. Moreover, the Department is not responsible for any situation which may result from use or misapplication of your product.

If you have any questions about this letter, please feel free to contact Daniel Wiltse at (541) 687-7436, toll free in Oregon at (800) 844-8467, or by email at wiltse.daniel@deq.state.or.us.

Sincerely,



Michael E. Kucinski, Manager
Water Quality/ Onsite

Enc: Approved Plans
Installation Manual

Ec: All Contract County Offices (w/enclosures)
DEQ Direct Service Offices (w/enclosures)
Dennis Boeger P.E., Boeger & Associates, LLC (w/enclosures)