

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

Jewel Mullen, M.D., M.P.H., M.P.A.
Commissioner



Dannel P. Malloy
Governor
Nancy Wyman
Lt. Governor

May 16, 2014

David Potts
Geomatrix, LLC
114 Mill Rock Road East
Old Saybrook, CT 06475

Re: HydroAir Pump System & Sealed Distribution Box

Dear Mr. Potts:

This Department has reviewed the documentation submitted on a sealed distribution box that is engineered for use with Geomatrix SoilAir systems, and on a new Geomatrix HydroAir pump system. The sealed distribution box has an access port that includes company marking information and cautionary notes about service by authorized personnel only. The sealed distribution boxes are acceptable for use with SoilAir systems. The as-built drawing for a SoilAir system that utilizes a sealed distribution box should locate the box and identify it as a Geomatrix sealed distribution box.

The HydroAir pump system utilizes a fiberglass vessel and air pressure for lifting and/or pressure distribution of wastewater. Specifications for four different vessel size models were included in the submission. The air compressors for HydroAir pump systems are typically located in an above ground enclosure. Each fiberglass vessel will be equipped with a high level alarm and a riser to grade will be provided over the access port on the top of the vessel. The fiberglass vessels have company marking information, and access ports have cautionary notes that the system is pressurized and that the system needs to be turned off before the access port is opened.

This Department's *Technical Standards for Subsurface Sewage Disposal Systems* (Technical Standards) requires dual pumps for large (>2,000 GPD) sewage disposal systems that require dosing, and small pump systems can provide dual pumps or a single pump and 1-day emergency storage in the pump chamber. You noted dual air pumps would be provided for HydroAir systems in-lieu of emergency storage, which is acceptable. Electrical work for HydroAir systems requires the approval of the local building official. The documentation submitted show a hold down base beneath the HydroAir vessel for high water table applications. Geomatrix will need to authorize the anchoring arrangements between vessels and bases. When finalized, please provide this Department detailed anti-buoyancy provisions/arrangements for the vessels.

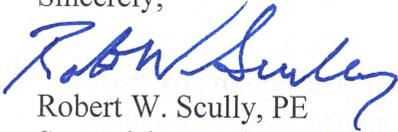


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Sealed distribution boxes and HydroAir vessels cannot be installed in vehicular travel areas unless authorized by Geomatrix, and the boxes and vessels and their corresponding access assemblies are designed for H-20 wheel loading applications. Please file supporting documentation and specifications with this Department if vehicular wheel loading applications are to be authorized.

This Department previously incorporated approval and operating conditions for SoilAir systems into the Technical Standards, and the next revision of the Technical Standards will note that Geomatrix HydroAir pump systems are acceptable dosing systems. This letter may be reproduced as a means of notifying local health officials, engineers, and installers that this Department concurs that the Geomatrix HydroAir system is an acceptable pump system for use with subsurface sewage disposal systems that are permitted by local health officials. This letter should not be construed to be an endorsement of the HydroAir pump system, nor does it convey intellectual property rights.

Sincerely,



Robert W. Scully, PE
Supervising Sanitary Engineer
Environmental Engineering Program

Cc: Code Advisory Committee
Local Health Officials

P/RWS/Geomatrix HydroAir System