



# STATE OF CONNECTICUT

## DEPARTMENT OF PUBLIC HEALTH

March 24, 2011

James Donlin, Vice President  
Eljen Corporation  
125 McKee Street  
East Hartford, CT 06108

Re: Eljen Mantis 536-8 & 536-8 LowPro Proprietary Leaching System Approvals

Dear Mr. Donlin:

This Department has reviewed the documentation you submitted on Eljen Corporation's Mantis 536-8 and 536-8 LowPro proprietary leaching systems. The products are similar to the previously approved Mantis 430-10 series products. The products consist of 5 foot long "units" that can be connected end to end. Both products have eight independent "modules" that are equally spaced along an internal 4-inch diameter perforated distribution pipe that has an invert elevation that is either 12 inches above the unit base (536-8) or 6 inches above the unit base (536-8 LowPro). This distribution pipe provides effluent to each individual module via 1-inch diameter holes located at the 5, 7 & 12 o'clock positions (12 o'clock position is for increased product venting). The modules have internal plastic cusped material that is wrapped with filter fabric on the sides and top. The modules for the Mantis 536-8 are 36 inches wide and 18 inches high. The modules for the Mantis 536-8 LowPro are 36 inches wide and 12 inches high.

Although the new Mantis products are similar to the Mantis 430-10 series products, Eljen Corporation states that the new Mantis 536-8 products have significant improvements to streamline installation and provide better distribution of effluent within the trench. This program has been advised that it is Eljen Corporation's intention to ultimately phase out the usage of the Mantis 430-10 series products (both internal and top distribution) in favor of the new Mantis 536-8 products. Also, in accordance with Eljen Corporation's request, the Mantis 424-9 product series has been removed from the 2011 revision of the Technical Standards for Subsurface Sewage Disposal Systems (Technical Standards).

The installation procedures for the Mantis 536-8 products are similar to the Mantis 430-10 series products. The products are installed in a minimum 48-inch wide trench with a "specified sand" envelope placed around the units. The specified sand envelope includes 6 inches minimum underneath and on the sides of the units, 1-inch minimum on top of the units as well as 3 inches in between the modules. Eljen Corporation requires that only specified sand be used for this sand envelope unless specific approval is granted under certain conditions. The specified sand has a gradation that is slightly more stringent than the select fill specifications in the Technical Standards.



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