



Alternative and Experimental OWTS Technology Program

Vendor Information

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

Contacts:

David Potts
Phone: 860-510-0730
Fax: 860-510-0735
Web: <http://www.geomatrixsystems.com/>

Technology Name:

GeoMat 1200 (12-inch wide mat)
GeoMat 3900 (39-inch wide mat)

Technology Type:

Alternative Leachfield Component
Class II

Certification Date:

Issued: January 13, 2010
Revised: October 25, 2010
Renewed: July 20, 2015
Expires: July 20, 2020

CERTIFICATION

The Rhode Island Department of Environmental Management (RIDEM) has reviewed the Alternative/Experimental Component Technology renewal application submitted by Geomatrix Systems, LLC, hereafter referred to as the "Vendor", for GeoMat™ Low Profile leaching System and hereby renews the Class Two Component approval for GeoMat 1200 and GeoMat 3900, hereafter referred to as the Component. The Component is a leaching system comprised of a one-inch thick core of fused, entangled plastic filaments; it is installed on natural soil or a sand interlayer where specified in applicable design guidance. GeoMat 1200 is sleeved in geotextile fabric. A low-pressure distribution line (1-inch Schedule 40 PVC), with down-facing orifices set in clear plastic orifice shields, is inserted into the fabric sleeve, on top of the Component and then covered by soil to a depth between 6 and 12 inches. GeoMat 3900 is dosed by two low-pressure distribution lines (1-inch Schedule 40 PVC), with down-facing orifices set in clear plastic orifice shields. The GeoMat 3900 and its two dosing pipes are covered by geotextile fabric prior to backfilling. Cleanout/distal pressure monitoring ports are installed on the terminal end of the distribution lines in both GeoMat 1200 and GeoMat 3900. The Component is used in conjunction with a time-dosed pump apparatus and must be preceded by a RIDEM-approved treatment technology producing an effluent quality of at least 30 mg/l TSS and 30 mg/L BOD.

Design and installation of the Component shall be in accordance with the following terms and conditions:

I. Design Requirements

1. The Component shall be preceded by a RIDEM-approved A/E treatment technology that must achieve a minimum treated effluent quality of 30 mg/L TSS and 30 mg/L BOD.
2. Effluent delivered to the Component must not exceed a FOG concentration of 5 mg/l.
3. The Component shall be installed in trench configuration.
4. Design and installation shall be in strict conformance with the RIDEM-approved Component Design and Installation Manual. The design shall be prepared by a RIDEM-licensed Designer and the installation shall be performed by a RIDEM-licensed Installer each of whom has received training and is authorized by the Vendor to perform the applicable work.

5. The Vendor is responsible for making the RIDEM-approved Design, Installation and Operation and Maintenance Manual available to the public.
6. Each Component installation shall meet all other applicable OWTS standards and receive prior approval by the RIDEM pursuant to the Rules in effect at the time of application.

II. General Certification Requirements

1. Training
 - a) The Vendor shall hold a minimum of two training seminars for RIDEM Licensed Designers, Installers and Service Providers before the expiration or renewal of this certification.
 - b) The Vendor shall notify the RIDEM of the date and time of each training seminar and submit to the RIDEM a detailed agenda, material to be presented and distributed to attendees and a list of presenters specifying their credentials at least six weeks in advance of the date of the scheduled seminar. Please consult the RIDEM-issued A/E Technology Vendor Training Requirements available on the RIDEM website in the A/E technology section.
2. The Vendor shall make available to the public, a means of identifying the individuals, by name and category (Designer, Installer, Professional Service Providers), who have received training and are authorized in writing by the vendor to design, install and maintain the Component.
3. This Class II approval shall be effective until the expiration date of this Certification.
4. If the Vendor wishes to extend this Class II approval beyond its expiration date, they shall apply for and obtain a renewal of this approval. The Vendor shall submit a renewal application in accordance with the RIDEM Onsite Wastewater Treatment System Rules.
5. The Vendor shall notify the RIDEM at least thirty (30) days prior to any proposed transfer of ownership of the Component technology. Notification shall include the name and address of the new owner and a written agreement between the existing and new owner specifying a date for transfer of ownership, responsibility, and liability for the technology. All provisions of this approval shall be applicable to any new owners.
6. The Vendor shall provide any purchaser of the Component with a copy of this approval letter prior to the sale of the Component.

III. Operation and Maintenance (O&M)

1. The RIDEM-approved O&M Manual shall be provided to the Owner/Operator.
2. The Component shall be maintained according to the manufacturer's specifications.
3. The Vendor must offer for sale a minimum two-year service contract that must include, as an option, service to all A/E components of the treatment train in addition to the Component.
4. The Applicant/Owner shall record copies of the OWTS construction permit issued by RIDEM and the initially executed O&M contract(s) for the Component, and all other A/E components in the treatment train, in the land evidence records of the applicable city or town prior to the RIDEM issuing the Certificate of Conformance for each installation.
5.
 - a) The owner shall retain a public or private maintenance entity (Service Provider) for the life of the Component and all other A/E components of the treatment train.
 - b) Properly trained homeowners may perform O&M on their own Component; training must have been received for all components of the treatment train on which a homeowner wishes to perform O&M.

6. No O&M agreement with a maintenance entity shall be for less than 2 years.
7. The Service Provider or homeowner providing O&M on his or her own Component per number 5. b) above shall:
 - a) Receive training as approved by the Vendor
 - b) Be available to perform required preventative maintenance, perform repairs, respond to emergency situations or conduct performance monitoring.
 - c) Perform an inspection of the Component at least at least twice annually for systems with a design flow below 2,000 gpd and quarterly for systems with a design flow of 2,000 gpd or greater.
 - d) Report to the Vendor, all inspections and maintenance calls/activities conducted and all problems or failures observed with a summary of the cause and remedial measures taken.
8. The Vendor shall provide to the RIDEM a list of trained Service Providers as part of the annual reporting requirement. The names of at least two qualified Service Providers shall be maintained on the list at all times. A Service Provider who subcontracts service for the same technology shall not be considered meeting this requirement.

IV. Reporting

1. The Vendor shall submit an annual report to the RIDEM by the anniversary of this approval each year, containing the following information for the previous twelve-month period:
 - a) The names of all individuals that have been trained for design, installation and service, grouped by the activity for which they have been trained. A minimum of two Professional Service Providers must be on the list at all times.
 - b) The number of new installations in Rhode Island since the last report,
 - c) The address of each installation, the name of the owner and the RIDEM permit number,
 - d) For each installation, the date(s) of inspections/maintenance calls conducted and a brief comment regarding activities performed and observations,
 - e) All known problems or failures experienced with a brief summary of the cause and remedial measures taken.

Electronic submission is encouraged.
2. The Service Provider shall report any termination or non-renewal of maintenance agreements to the RIDEM, the Vendor and to the local wastewater management authority should one exist for that area. Electronic notification is encouraged.

V. Rights of the RIDEM

1. The RIDEM may suspend, modify or revoke this Certification for cause, including but not limited to: Non-compliance with any of the provisions or conditions of this approval, misrepresentation or failure to fully disclose all relevant data, or receipt of new information indicating the use of the Component is contrary to the public interest, public health or the environment.
2. This Certification does not represent an endorsement of the Component by the RIDEM. This Certification may be reproduced only in its entirety.


 Brian M. Moore, P.E.
 Chief of Groundwater and Wetlands Protection

Issuance Date: 7-20-15