



The State of New Hampshire  
**DEPARTMENT OF ENVIRONMENTAL SERVICES**



**Thomas S. Burack, Commissioner**

June 10, 2020

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

Subject: Application for Innovative/Alternative (I/A) Technology Approval for the GST™  
Leaching System & GST™ New Hampshire Design Manual dated May 28, 2020

Dear Mr. Potts:

The New Hampshire Department of Environmental Services (DES) has reviewed the innovative/ alternative (I/A) technology application submitted by Geomatrix Systems, LLC (Geomatrix) for its GST™ Leaching System on March 30, 2018 and the New Hampshire GST™ Design Manual dated May 28, 2020. DES hereby approves Geomatrix's request for I/A technology general approval for this system, subject to the terms and conditions listed below. This approval is granted pursuant to RSA 485-A:29, I and NH Code Admin. Rules Env-Wq 1024.

The GST™ Leaching System may be used in New Hampshire under the following terms and conditions:

1. All GST™ Leaching System installations in New Hampshire must be installed on a sand bed consisting of 12-inches of ASTM C-33 or other approved sand. Sand that does not meet the ASTM C-33 standard must be approved by Geomatrix.
2. Distance above Impermeable Substratum - Env-Wq 1014.07. *Except as allowed by Env-Wq 1014.07(c)(2)*, vertical separation distance from bedrock or any other impermeable substratum may be reduced to 30 inches measured from the bottom of the GST™ Leaching System (or 18 inches measured from the bottom of the required 12 inches of ASTM C-33 or other approved sand).
3. Distance above Seasonal High Water Table - Env-Wq 1014.08. *Except as allowed by Env-Wq 1014.08(c)(2)*, vertical separation distance from seasonal high water table may be reduced to 30 inches measured from the bottom of the GST™ Leaching System (or 18 inches measured from the bottom of the required 12 inches of ASTM C-33 or other approved sand).
4. Bed Sizing - Env-Wq 1016.01. Bed size shall be in accordance with Table 1 and Table 2 of the version of the GST™ Leaching System dated May 28, 2020.

This I/A Technology general approval is subject to all installations of GST™ Leaching System complying with all applicable provisions of the GST™ Leaching System Design Manual dated May 28, 2020. Any modifications or updates to the GST™ Leaching System Design Manual dated May 28, 2020 must be approved by DES to be effective in the State of New Hampshire. DES reserves the right to modify or revoke this approval if it is determined that it is in the best interest of the environment or public health.

DES Web Site: [www.des.nh.gov](http://www.des.nh.gov)

P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095

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If you have any questions, please contact me at 603-271-2904 or at [robert.tardif@des.nh.gov](mailto:robert.tardif@des.nh.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Robert A. Tardif". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Robert A. Tardif, P.E.  
Administrator  
Subsurface Systems Bureau

Cc: file  
ITA Committee