



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING



PHILLIP D. ROOS
DIRECTOR

July 26, 2024

Jim King
Eljen Corporation
90 Meadow Road
Windsor, Connecticut 06095-4617

Dear Jim King:

SUBJECT: Notice of Proprietary Treatment Technology Design Manual Validation for the Michigan Department of Great Lakes, Environment, and Energy's (EGLE), Septic Replacement Loan Program (SRLP)

Manufacturer: Eljen Corporation
Product Name and Model: Eljen A42 and B43 Geotextile Sand Filter (GSF)

EGLE, Drinking Water and Environmental Health Division (DWEHD), Onsite Wastewater Management Unit (OWMU) has received on April 26, 2024, your proprietary treatment technology design manual submission for use of **Eljen A42** and **B43 Geotextile Sand Filters** within Michigan's SRLP under **Category 2, Class B** of the "Program Minimum Standards (PMS)."

EGLE's April 15, 2024, Invitation to Submit a Manufacture's Design and Management Manual outlined the following requirements for Proprietary Treatment Technology submissions:

- Manufacturers specification sheets with documentation of NSF/ANSI 40 certification for each specified model and associated intended use and flow rates.
- Design and Installation Manual.
- Certification requirements for designers, installers, and service providers.
- A homeowner Operation and Maintenance Manual including maintenance frequency and effluent testing requirements.
- A recommended field inspection and maintenance form.
- Responsible manufacturers contact name and information for questions regarding design, installation, troubleshooting, or other management concerns.

- A statement in the manual indicating its use if specific to the SRLP only.
- A statement that any changes in the manual will be submitted to EGLE for consideration.

OWMU has reviewed your documents submitted on April 26, 2024, and determined that your submission successfully met all the requirements outlined by EGLE for proprietary technology validation under the SRLP. This correspondence grants authorization for the use of Eljen A42 and B43 Geotextile Sand Filters, by local health departments, in permitting of replacement failing and near-failing onsite wastewater treatment systems under the EGLE SRLP in Michigan.

This authorization is granted with the following contingencies:

1. Systems utilizing this technology must be designed, permitted, and installed in accordance with the following documents:
 - a. "GSF Michigan Septic Replacement Loan Program Design Manual," April 26, 2024, and
 - b. The EGLE Septic Replacement Loan Program, "Program Minimum Standards."
2. To meet NSF/ANSI Standard 40 effluent quality standards, the Eljen A42 and B43 Geotextile Sand Filters modules in the dispersal system shall be designed with a **minimum 30-inch** separation between the infiltrative surface (bottom of modules) and the limiting layer (seasonal high water table, water table, greater than 50 percent [50%] rock material, or bedrock) to account for the 6-inch of required specified C33 or 2NS sand fill below the modules **plus** the 24-inch minimum vertical separation to the limiting layer.
3. System design and management plans in accordance with EGLE validated manufacturer's design manual for the SRLP are prepared by a qualified consultant in private practice for local health department review. This validated design manual contains specific requirements related to design, installation, operation, and maintenance of these technologies. The landowner where this technology is incorporated, must agree to specific requirements for ongoing operation and maintenance of the system.
4. Any revisions to the manual must be submitted and approved by EGLE prior to implementation. Failure to do so, may result in the revocation of approval for use within the SRLP.

5. This validation is valid for five years from the date of this letter unless revisions to the manual are submitted and approved by EGLE. This approval will be considered invalid once a revision has been submitted and approved by EGLE.
6. Should the product fail to meet current NSF/ANSI Standard 40 certification requirements in the future, this validation is thereby void.
7. Approval of the proprietary treatment product for use in accordance with the manufacturer's design manual is limited to replacement sites that do not meet the minimum standards set in the SRLP PMS for a Category 1 system. Approval of the design manual and use of the proprietary product in the SRLP should not be considered an endorsement by EGLE for local health department to apply less restrictive standards than the local code requirements, including when those requirements can be met.
 - a. As a passive treatment system, EGLE is aware that Eljen modules are used as an aggregate alternative in conventional soil absorption systems. EGLE does not conduct proprietary product review and/or provide product approvals for conventional systems. Eljen module use as an aggregate alternative is up the discretion of the local health department for permitting under Category 1, and system design shall meet local health department regulations and follow best practices as outlined in IX. Additional Standards (1.) of the PMS.
8. This validation does not represent an endorsement of the product by the Michigan Department of Environment, Great Lakes, and Energy for use other than under the SRLP.

Should you require further information, please feel free to contact Anne Mitchell, SRLP Program Manager at EGLE-DWEHD-SRLP@Michigan.gov or Tanya Rule, Environmental Manager, by Email at RuleT@Michigan.gov, or by phone at 906-458-3812.

Sincerely,



Tanya Rule, R.S.
Environmental Manager
Onsite Wastewater Management Unit
Drinking Water and Environmental Health Division
Department of Environment, Great Lakes, and Energy

cc: Anne Mitchell, SRLP Manager, EGLE
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