



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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MODIFIED REMEDIAL USE APPROVAL

Pursuant to Title 5, 310 CMR 15.00

Name and Address of Applicant

Eljen Corporation
90 Meadow Road
Windsor, CT 06095

Trade name of technology and model number: Eljen GSF System, models B43 and A42 (hereinafter the "System"). "The Geotextile Sand Filter (GSF), Design & Installation Manual", including calculations and schematic drawings of typical Systems, an inspection checklist, and a System Installation Form are part of this Approval.

Transmittal Number: X280580

Date of Issuance: Revised September 26, 2014, Modified September 19, 2018,
Modified September 3, 2021, Modified March 30, 2022

Authority for Issuance

Pursuant to Title 5 of the State Environmental Code, 310 CMR 15.000, the Department of Environmental Protection hereby issues this Certification for Remedial Use to: Eljen Corporation 90 Meadow Road, Windsor, CT 06095 (hereinafter "the Company"), certifying the System described herein for Remedial Use in the Commonwealth of Massachusetts. The sale, design, installation, and use of the System are conditioned on compliance by the Company, the Designer, the Installer and the System Owner with the terms and conditions set forth below. Any noncompliance with the terms or conditions of this Certification constitutes a violation of 310 CMR 15.000.

/s/ Marybeth Chubb
Marybeth Chubb, Section Chief
Wastewater Management Program
Bureau of Resource Protection

March 30 2022
Date

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.
TTY# MassRelay Service 1-800-439-2370
MassDEP Website: www.mass.gov/dep

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Technology Description

The System is an alternative subsurface Soil Absorption System that replaces a conventional soil absorption system (SAS) designed in accordance with 310 CMR 15.000. The System is a modular absorption system constructed with Geotextile fabric and cusped plastic cores bedded on a six (6) inch layer and surrounded by at least six (6) inches of Specified Sand (ASTM C-33 or System sand). The System is installed without aggregate. A four-inch perforated distribution pipe is installed on top of the System to distribute wastewater over the entire absorption system. A geotextile cover of non-woven polypropylene fabric is placed over the System to prevent the intrusion of fines from backfill.

Conditions of Approval

The term “System” refers to the Alternative Soil Absorption System in combination with the other components of an on-site treatment and disposal system that may be required to serve a facility in accordance with 310 CMR 15.000.

The term “Approval” refers to the technology-specific Special Conditions, the Standard Conditions for General and Remedial Use Approval of Alternative Soil Absorption Systems (the ‘Standard Conditions’) the General Conditions of 310 CMR 15.287, and any Attachments.

For Alternative Soil Absorption Systems that have been issued Remedial Use Approval for the installation of Systems to serve facilities where the site meets the requirements for new construction, the Department authorizes reductions in the effective leaching area (310 CMR 15.242), subject to the applicable portion of the Standard Conditions, and subject to the below Special Conditions to this Technology.

Special Conditions

1. The System is an approved Patented Sand Filter System for use as an Alternative Soil Absorption System. In addition to the Special Conditions contained in this Approval, the System shall comply with all Standard Conditions for Alternative Soil Absorption Systems, except where stated otherwise in these Special Conditions.
2. This Approval applies to the Installation of a System for the upgrade or replacement of an existing failed or nonconforming system, provided that the facility meets the siting requirements for upgrades, as provided in II(7) and II(9) of the Standard Conditions. For the upgrade or replacement of an existing failed or nonconforming system, all installed Systems shall also comply with the Notice Requirement of paragraph II(23) and the transferee notification requirements of paragraph IV(1) of the Standard Conditions. The proposed use of the System shall also comply with any other Standard Conditions which pertain wholly or in part to upgrades of existing systems.

3. Alternative Design Standards = Provided that the Designer demonstrates that the impact of the proposed Alternative System has been considered and the design requirements of 310 CMR 15.000 have been varied to the least degree necessary so as to allow for both the best feasible upgrade within the borders of the lot and the least effect on public health, safety, welfare and the environment, the local approving authority may allow any combination of the following alternative design standards without the need for granting a variance under 310 CMR 15.400 or obtaining Department approval:

4. System can be installed in trench or bed or field configuration, as defined in 310 CMR 15.251 and 15.252. The effective leaching area shall be as presented in the Company's "Geotextile Sand Filter", (GSF) Design & Installation Manual.

5. System does not require a five foot over dig as indicated at 310 CMR 15.255(5).

6. Systems with greater than 18 inches of soil depth over the GSF modules shall be installed with differential venting for aeration and inspection access at end of each run of pipe, section or serial bed and whenever the System is installed under impervious surfaces.

7. Serial distribution laterals shall be limited to no more than 500 gpd with each lateral a maximum of 100 feet and must be laid level. Multi-level systems shall not be allowed.

8. System component material specifications for the pipe, plastic components, fabric and sand shall comply with the specifications identified in the initial I/A technology approval. Prior approval from the Department for any change from these specifications shall be requested in writing.

9. Any changes to the approved plans must receive prior Local Approving Authority (LAA) approval. Before a Certificate of Compliance can be issued by the LAA the System Designer must include any changes to the approved plan into the as-built plans.