

INNOVATIVE/ALTERNATIVE SEPTIC SYSTEM REGULATION BOARD OF HEALTH TOWN OF BOURNE

Pursuant to Chapter I 11, Section 31 of the Massachusetts General Laws, the Bourne Board of Health, at its regular meeting on October 26, 2016, voted to amend their existing Alternative Technology System Regulation from May 10, 2006 with the following:

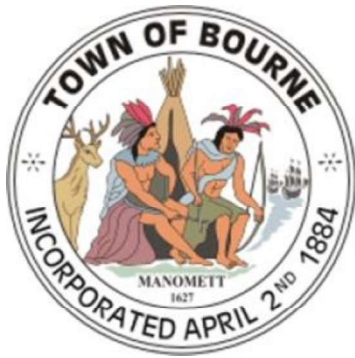
Whereas, the Bourne Board of Health may require any property with in the Town of Bourne to install an innovative/alternative sewage disposal system (I/A system) in order to protect the public health and environment.

These enhanced treatment systems may be in conjunction with waivers or variances from the Bourne Board of Health Septic Regulations and/or Title 5 of the State Environmental Code, 310 CMR 15.000, or to accommodate new construction, additions, renovations, or reconstruction of the referenced property.

Whereas, the Bourne Board of Health may impose additional conditions to I/ A systems approved for General Use which may be more stringent than MassDEP's requirements. Now, therefore, this Regulation is intended to ensure that the selected I/ A system will perform at least as well as, if not better than, a conventional septic system; and that the design and installation is done in accordance with the requirements of 310 CMR 15.287, MassDEP's Standard Conditions, any Special Conditions contained in the Technology Approval, Designer or Company specific requirements, and all local requirements herein.

Upon application for a Disposal System Construction (DSCP or septic permit), the applicant shall provide to the Bourne Board of Health, among other things:

- A certification, signed by the Owner of record for the property, stating that the Owner acknowledges their responsibilities and agrees to comply with all requirements applicable to the selected I/A system;
- Whether the system will be used year-round (facility occupied for more than 6 months per year) or seasonally (occupied less than 6 months per calendar year) and;
- Their contact information in case any issues arise with the system or its operation.



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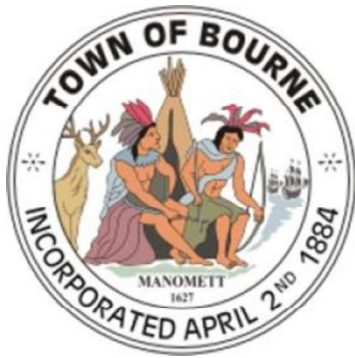
To ensure proper operation and maintenance (O&M.) of the I/A system, the system Owner shall enter into an O&M Agreement with a qualified Service Contractor who has been certified by the Board of Registration of Operators of Wastewater Treatment Facilities in accordance with 257 CMR 2.00. The owner shall be responsible for maintaining a valid O&M Agreement in perpetuity and providing a copy of this signed O&M Agreement to the Bourne Board of Health prior to the start of construction. All O&M must be reported to the Board of Health and the Barnstable County Department of Health and Environment. If required, a Disclosure Notice and Bedroom Restriction will need to be recorded in the Deed of the Property prior to the start of construction. In no instance will a Certificate of Compliance be issued until the Design Engineer, Board of Health, and Wastewater Operator have inspected the installation of this system and the successful start-up of the system has been documented in writing by the Wastewater Operator. Additionally, all other paperwork as a condition of the approval shall be in the possession of the Board of Health prior to the issuance of a Certificate of Compliance.

TESTING AND SAMPLING REQUIREMENTS:

Both year-round and seasonal residential systems with design flows less than 2,000 gpd (excluding those within Nitrogen Sensitive Areas), shall be required to have a field test and effluent sample conducted twice per year for the first two years as follows:

Year-round residential systems shall be tested and sampled every six months, once between January and March and once between July and October

Seasonal systems shall be required to have a field test and effluent sample conducted within 45 days of the system startup and again 30-60 days thereafter unless otherwise indicated. *Example: I/ A system started up for seasonal occupancy around Memorial Day Holiday -- Field test & effluent sample conducted after Independence Day -- Second field test & effluent sample conducted around Labor Day*



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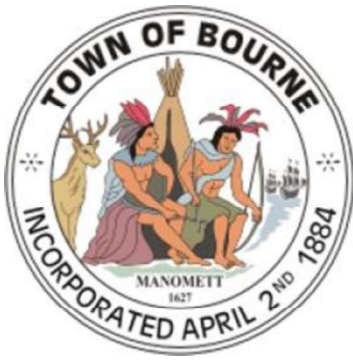
Please note that the above inspection and sampling requirements excludes service visits that may be necessary for the startup and shut down of systems, alarm responses, or other maintenance visits specified by the Service Contractor and/ or technology supplier. Inspections and field tests shall include the following:

1. Document visual examination of the effluent for color, turbidity, and effluent solids;
2. Measure effluent pH to determine if the wastewater is between 6 and 9 standard units;
3. Measure dissolved oxygen, 2mg/L or more to ensure that the system is operating and;
4. Record turbidity, less than or equal to 40 NTU.

Effluent sampling and laboratory tests should also include BODs and TSS, less than or equal to 30 mg/L, pH and Total Nitrogen measured as the total of TKN, $\text{NO}_2\text{-N}$, and $\text{NO}_3\text{-N} \leq 19\text{mg/L}$.

It is the designer's responsibility to indicate on the septic plan where the sampling ports are located and ensure that the design includes risers at finished grade.

After two years of good performance and compliance with these requirements, the O&M Agreement may be modified at the recommendation of the Service Contractor and Bourne Board of Health, resulting in a reduction in testing and sampling requirements. The I/A system must still comply with 310 CMR 15.287, MassDEP's Standard Conditions, any Special Conditions contained in the Technology Approval, Designer or Company specific requirements, and any other local regulations. At a minimum, all I/ A systems shall be inspected with a field test once per year. Effluent samples and laboratory tests will only be required for General Use systems which do not pass field tests, and follow-up inspections must be conducted within no more than 30 days. All findings must be reported to the Bourne Board of Health and BCDHE in reporting which details the problems and includes recommendation for repairing the system.



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Any I/A system located in a designated Nitrogen Sensitive Area (Zone I, II, or IWPA of a public water supply, or subject to nitrogen loading restrictions due to the proximity to private drinking water supply wells) shall be subject to more stringent testing and sampling requirements established by MassDEP specific to the approved Technology.

EFFECTIVE DATE:

This regulation shall take effect immediately upon publication of a summary in a newspaper of general circulation in the Town of Bourne, which date shall be posted on the front page of this regulation.