The background image shows a construction site for a septic system. A large circular area is covered with a white geotextile fabric, with sections of blue gravel visible. The site is surrounded by trees and residential buildings in the distance. A large, semi-transparent white circle is overlaid on the center of the image, containing the title and author information.

# Septic System Components: Understanding What is Allowed in Massachusetts

Paige Aldenberg and Daniel Ottenheimer, MassDEP

March 2026

# Presentation Roadmap

## Topics:

1. Introduction and Title 5
2. Components Within Title 5
  - A. Allowed
  - B. Prohibited
3. Components Outside Title 5
  - A. Approval categories
  - B. DEP Issued Documents
4. Questions



# DISCLAIMER

- This presentation pertains solely to Title 5 of the Massachusetts State Environmental Code and is for educational and informational purposes only.
- Any reference to a proprietary technology in the presentation is solely for illustrative purposes and does not constitute an endorsement of or comment upon said technology by the presenters or MassDEP. The same applies to any questions posed to the presenters and the accompanying answers.

# Introduction and Title 5

# Best Practices for an Onsite Wastewater System

To best protect public health and the environment, an onsite system needs to be properly:

- Designed
- Built
- Maintained
- Administered

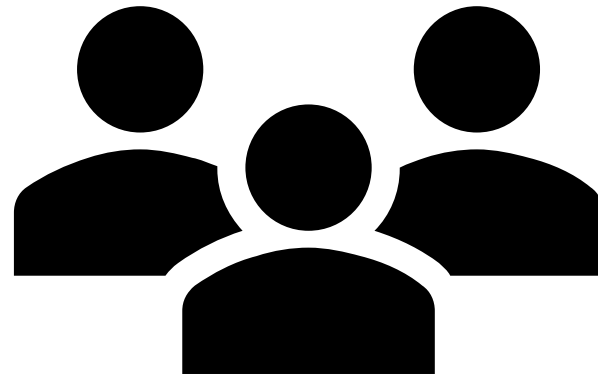


# Big Picture

- Onsite wastewater management in Massachusetts is governed by Title 5 of the Massachusetts Environmental Code

# Big Picture

- Implementation of Title 5 is handled largely by private parties
- Regulatory oversight of key aspects provided by local or regional health departments



# Parties Involved

## Design

Health Inspector

Property Owner

Designer

Product vendor

Attorney

Soil Evaluator

Backhoe Operator

Surveyor

## Construction

Health Inspector

Property Owner

Designer

Product vendor

Installer

Electrician

Plumber

Electrical inspector

Plumbing inspector

## Operation and Maintenance

Health inspector

Property Owner

System pumper

O&M service provider

System Inspector

## Administration of regulations

Health Inspector

Property Owner

Attorney

Pumper

Service provider

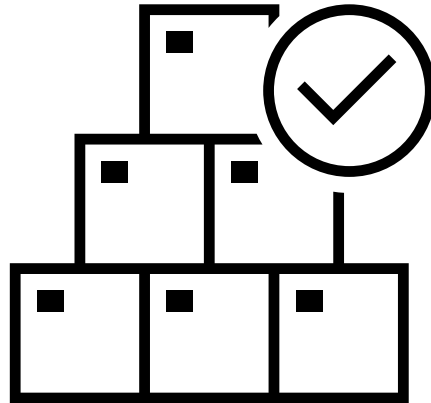
# Big Picture

- Title 5 is a prescriptive code
- This means: An onsite system which is designed, built and maintained in compliance with Title 5 is presumed to adequately protect the public's health and the environment

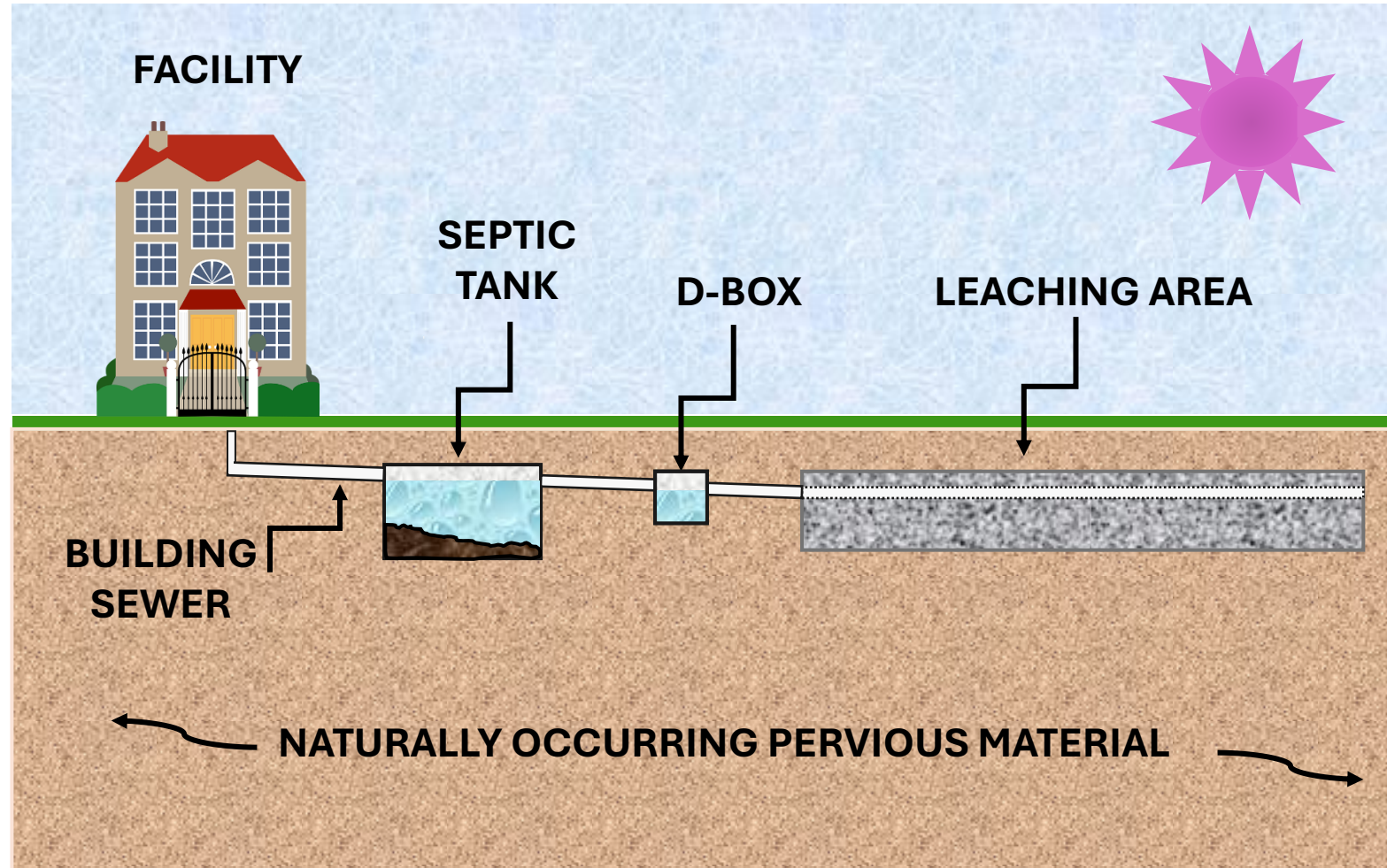


# Big Picture

- To use specific onsite components, the components must adhere to the Massachusetts Title 5 prescriptive code



# Big Picture



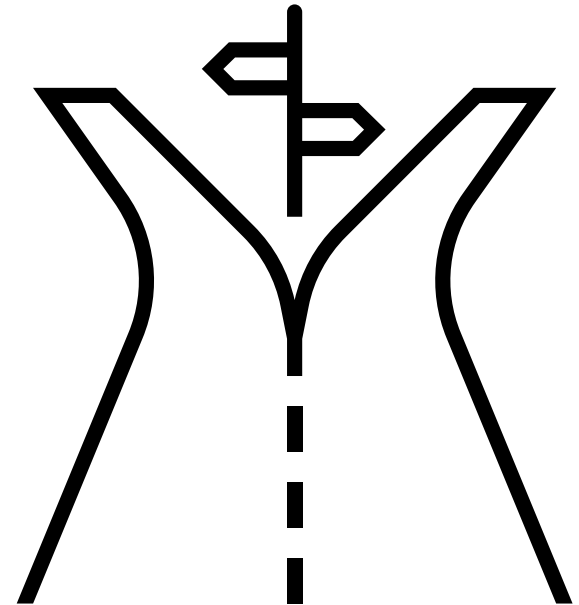
Each component must comply with Title 5

# Big Picture

- ***Most*** of the current version of Title 5 was written in 1994, effective in 1995
- Components which were deemed acceptable to be used as of 1995 were included in the regulation
- A provision to allow other components to be allowed for use was built into the regulation

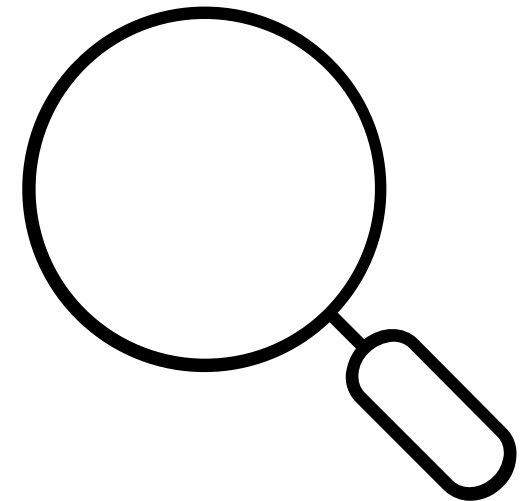
# Big Picture

- Today, there are two different ways an onsite system component is determined to be acceptable for use in Massachusetts:
  - Listed within Title 5
  - With a separate approval document  
(i.e. not listed in Title 5)



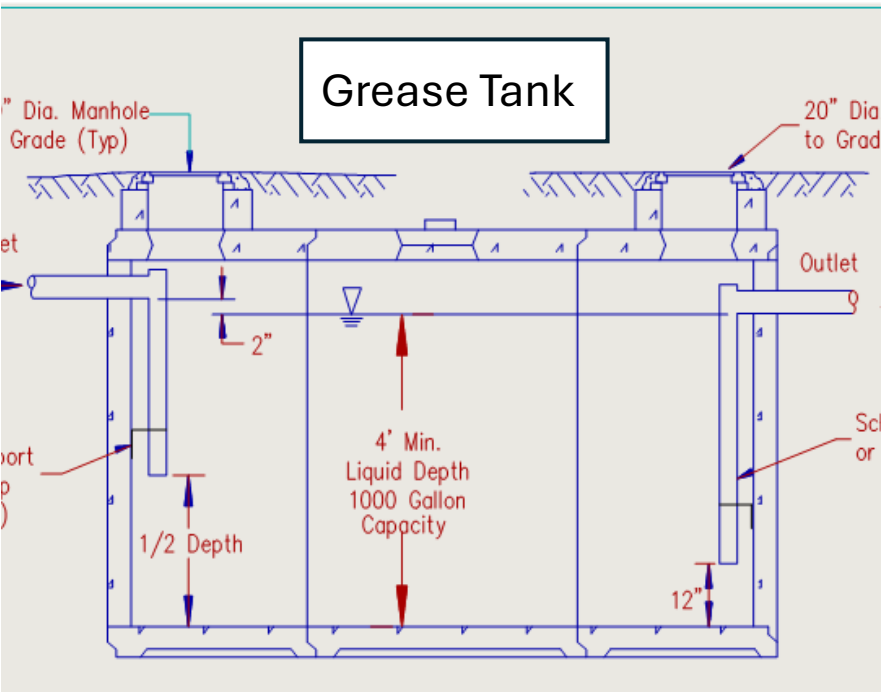
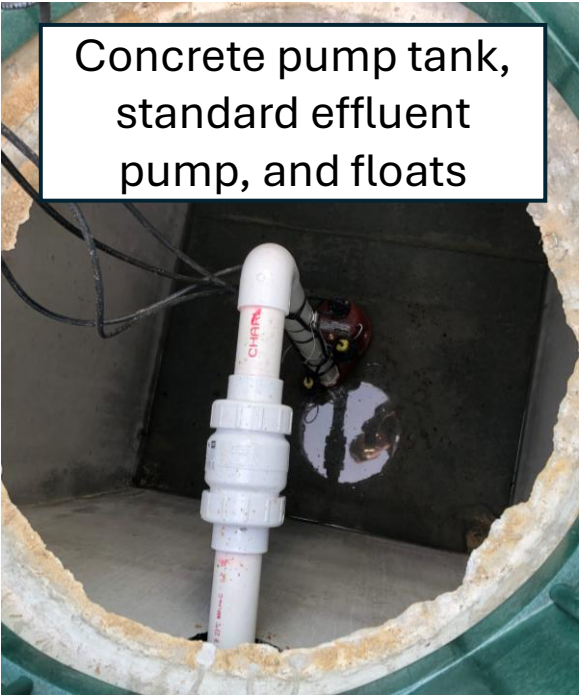
# Where does Title 5 reference acceptable Onsite System Components?

- Commonly used:
  - 15.221 - 15.232 – Pipes, tanks and d-boxes
  - 15.251 - 15.253 – Types of soil absorption systems
  - 15.247 & 255 – Soil absorption system aggregate and sand fill
- Very specific components:
  - 15.202 – Recirculating Sand Filters
  - 15.260 – Tight tanks
  - 15.262 – Graywater systems
  - 15.289 – Humus/Composting Toilets



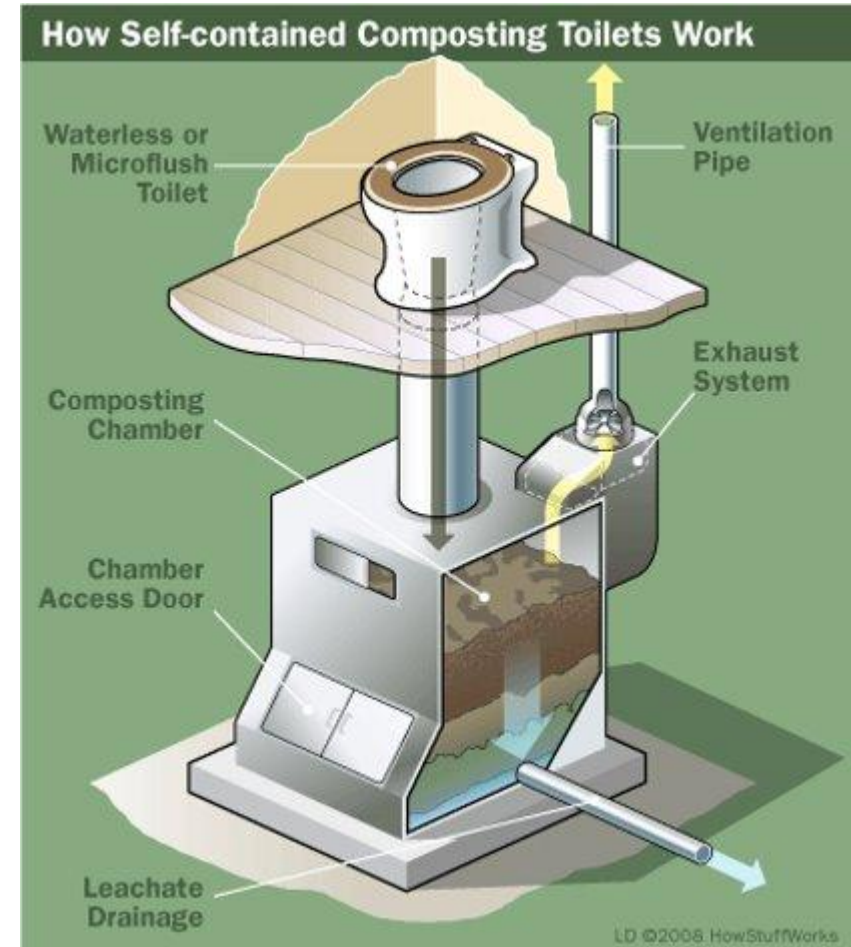
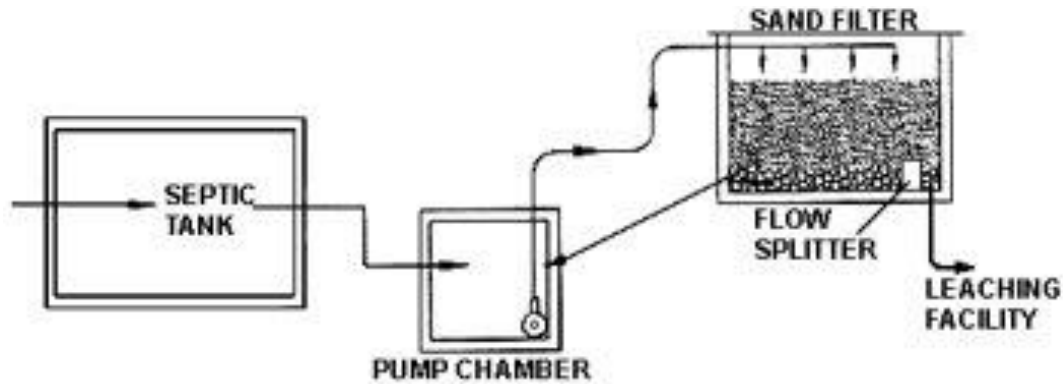
# What Are the Components Allowed and Prohibited within Title 5

# Title 5 Components – Allowed Tanks

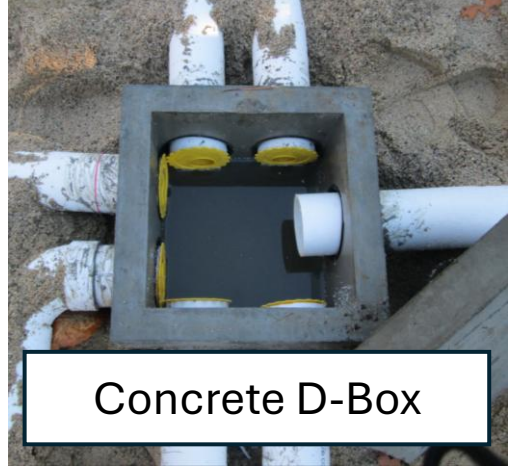


# Title 5 Components – Allowed Treatment Units

- Recirculating sand filter
- Compost toilet



# Title 5 Components – Allowed Soil Absorption Systems



# Prohibited Title 5 Components

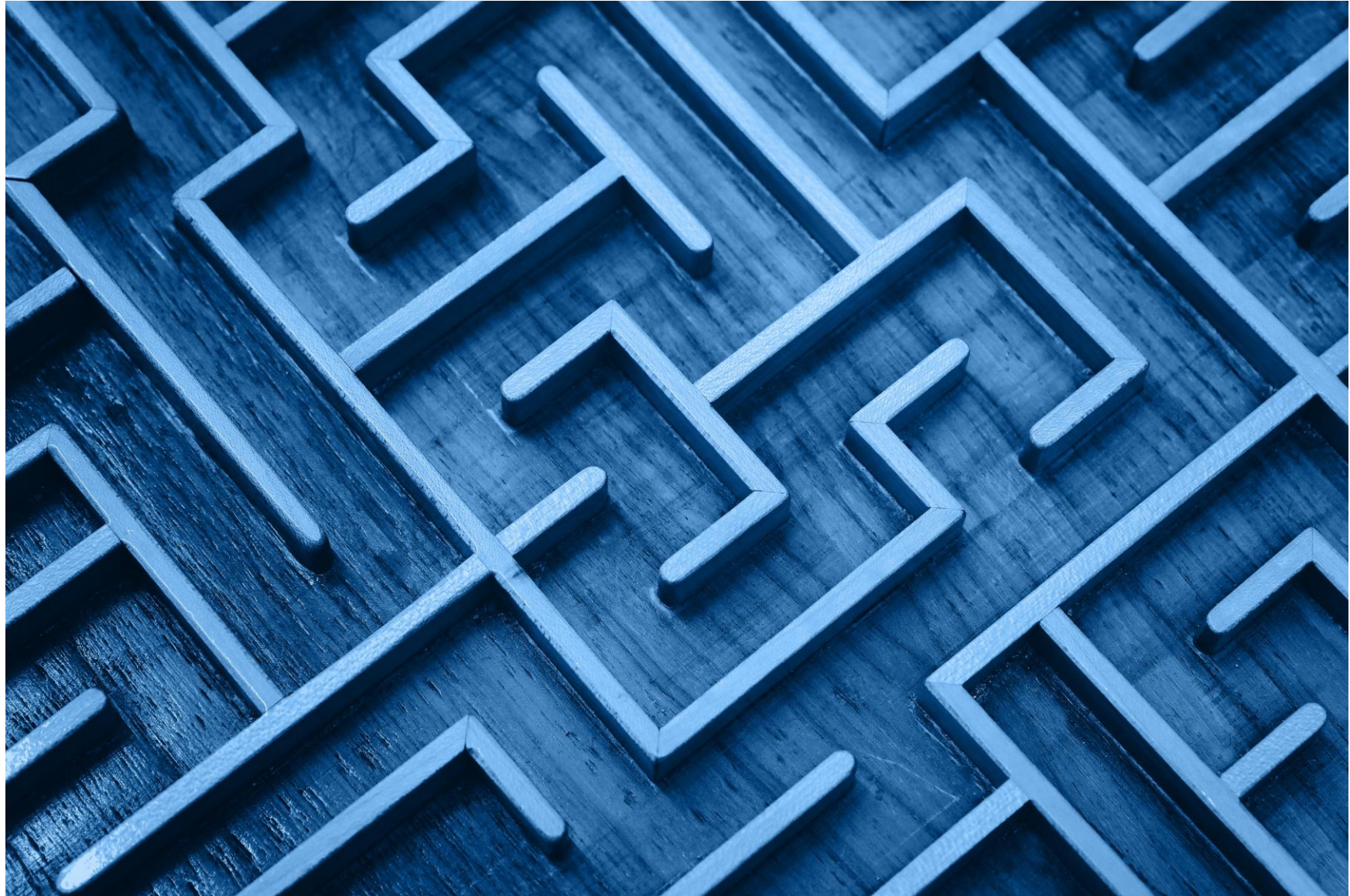
- Unapproved Additives – 15.027
- Unapproved Restoration of soil absorption system – 15.028
- Siphons – 15.233



System Renovation Using Hydrogen Peroxide

Siphon

# What Are the Components Approved Outside Title 5



# What is meant by “Outside Title 5”

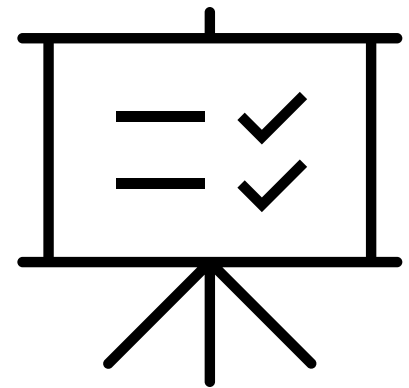
- A component :
  - Not mentioned in Title 5
  - Title 5 indicates needs to be approved
  - Authorized through alternative component process in sections 15.281-288



What Components Are We Discussing?

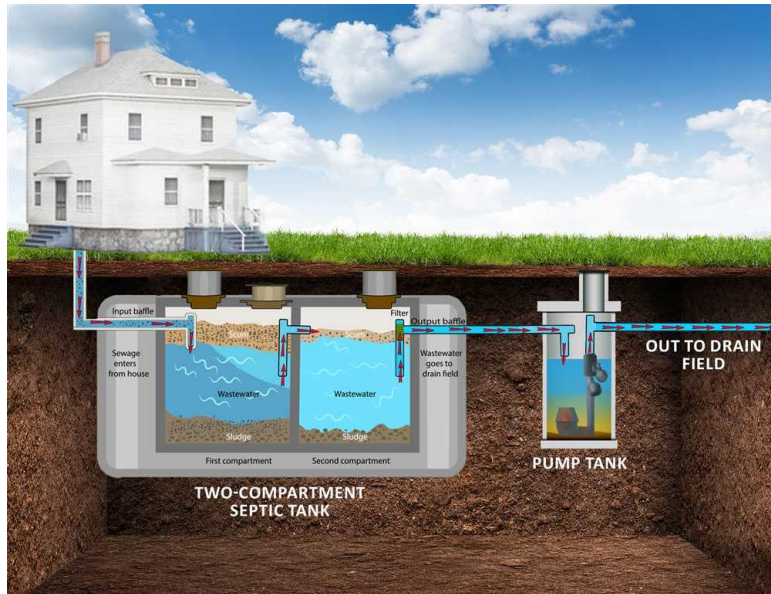
# DEP-Approved Components

- For today's presentation we are calling these "DEP-approved" components
- These can be:
  - A component in an onsite wastewater system which Title 5 specifically says must be approved for use
    - i.e., soil absorption system rejuvenation system
  - A new component that is not at all referenced in Title 5
    - i.e. a Bottomless Sand Filter soil absorption system



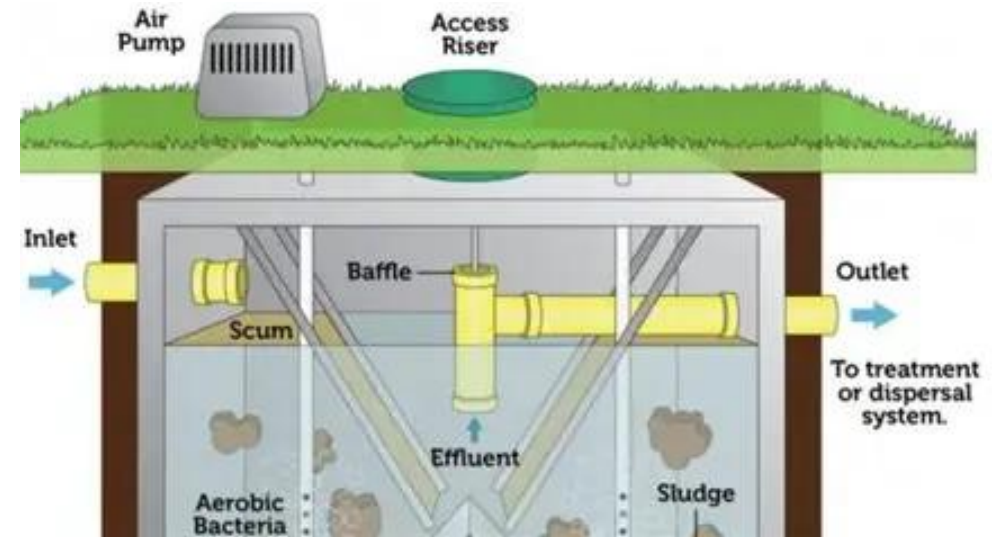
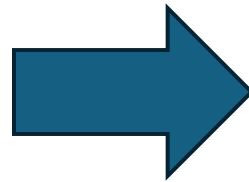
# DEP-Approved Components

- DEP-approved components can be:
  - A replacement for a traditional component
    - i.e. an effluent pump inside of a pump tank replaced by an effluent pump inside of a septic tank




# DEP-Approved Components

- DEP-approved components can be:
  - Augmentation of traditional components
    - i.e. a standard septic tank replaced by a tank containing a secondary treatment unit



# DEP-Approved Components

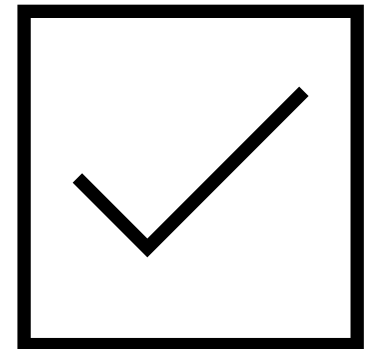
- All “DEP-Approved” components have a letter of approval for use

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<hr/>	
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TIMOTHY P. MURRAY Lieutenant Governor	KENNETH L. KIMMELL Commissioner
<p style="text-align: center;"><b>GENERAL USE CERTIFICATION</b> Pursuant to Title 5, 310 CMR 15.00</p>	
Name and Address of Applicant:	
Busse Green Technologies Inc. 1101 South Euclid Avenue Oak Park, IL 60304	
Trade name of technology and models: BUSSE-MF, Models: MF-250, MF-500, MF-750, MF-1000, MF-1500, MF-2000 (hereinafter called the “System”). Schematic Drawings illustrating each System, a design and installation manual, an owner’s manual, an operation and maintenance manual, and an inspection checklist are part of this Approval.	
Transmittal Number:	X227578
Date of Issuance:	February 19, 2013

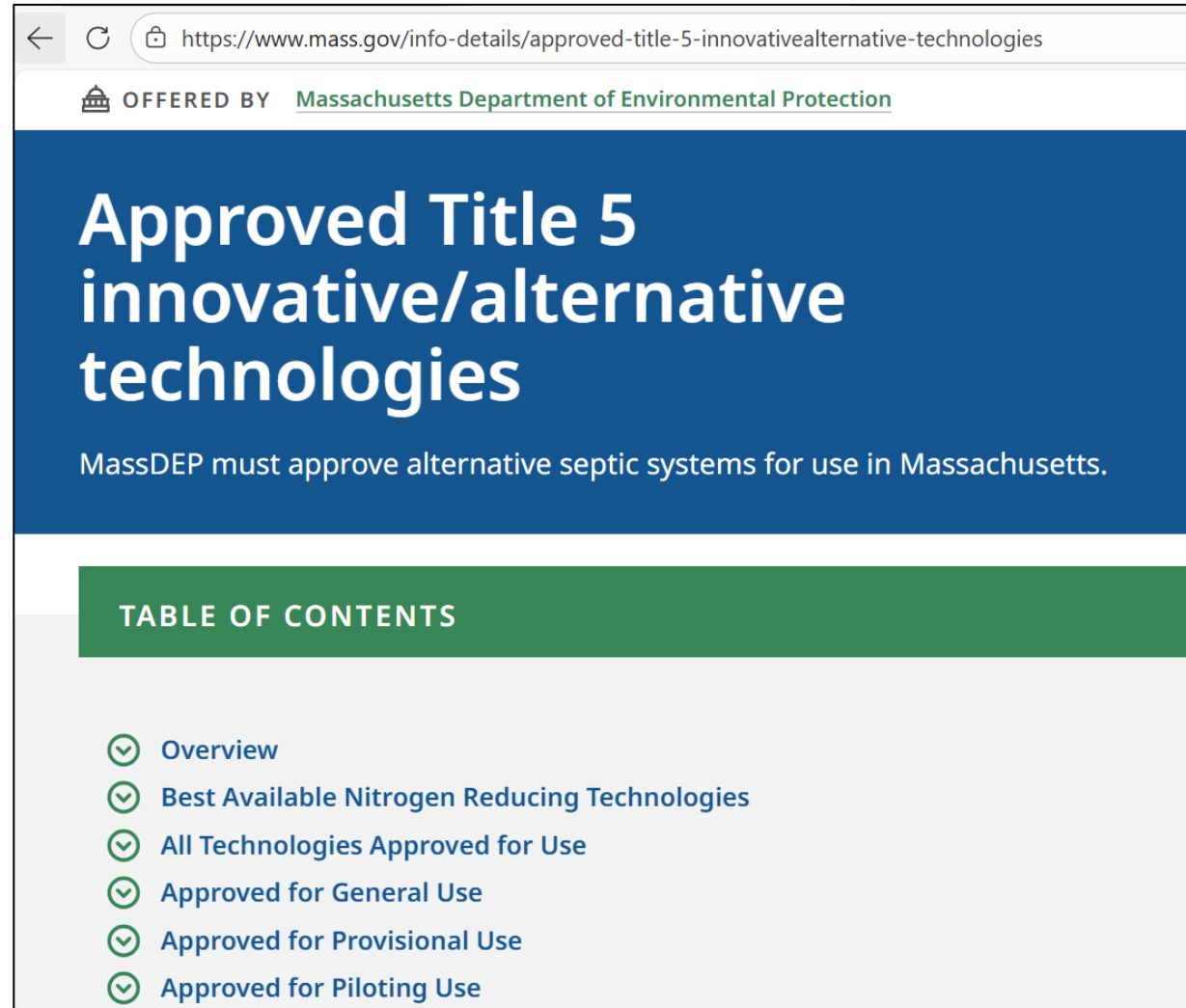
How Can These Components Be Used?

# DEP - Approved Components

- 15.284 – 15.286, 15.288 – Provides four types of component approvals:
  - General Use – Proven component, can be used for New Construction wherever a conventional onsite system could be used
  - Piloting and Provisional Use – New component, tested at limited number of sites
  - Remedial Use – Component can be used only at an Upgrade, often allows design flexibility
- In Title 5 since 1995
- Each approved component is in one of these four categories and has a distinct approval issued by DEP



# DEP - Approved Components



The screenshot shows a web browser window with the URL <https://www.mass.gov/info-details/approved-title-5-innovativealternative-technologies>. The page is offered by the Massachusetts Department of Environmental Protection. The main heading is "Approved Title 5 innovative/alternative technologies" in white text on a blue background. Below the heading, it states "MassDEP must approve alternative septic systems for use in Massachusetts." A green bar contains the text "TABLE OF CONTENTS". Below this, a list of links is provided, each preceded by a green checkmark icon.

← <https://www.mass.gov/info-details/approved-title-5-innovativealternative-technologies>

OFFERED BY [Massachusetts Department of Environmental Protection](#)

## Approved Title 5 innovative/alternative technologies

MassDEP must approve alternative septic systems for use in Massachusetts.

### TABLE OF CONTENTS

- ✓ [Overview](#)
- ✓ [Best Available Nitrogen Reducing Technologies](#)
- ✓ [All Technologies Approved for Use](#)
- ✓ [Approved for General Use](#)
- ✓ [Approved for Provisional Use](#)
- ✓ [Approved for Piloting Use](#)

# DEP - Approved Components



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**GENERAL USE CERTIFICATION**  
Pursuant to Title 5, 310 CMR 15.00



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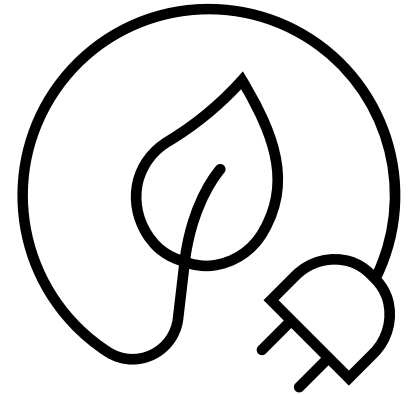
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**RENEWAL OF APPROVAL FOR REMEDIAL USE**  
Pursuant to Title, 310 CMR 15.000

# DEP - Approved Component

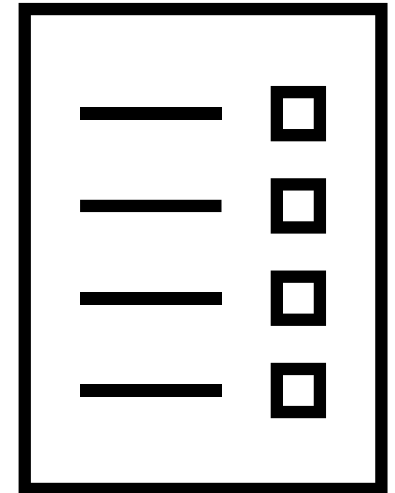
- 15.215 – Provides for creation of “Best Available Nitrogen Reducing Technology”
  - BANRT have a specific target of achieving total nitrogen in the effluent below 10 mg/L:
    - General Use – 2 approved
    - Provisional Use – 7 approved
- Intended for poorly flushed embayments on Cape Cod
- In Title 5 since 2023
- Each brand and model has a distinct approval issued by DEP specific to nitrogen removal



What Categories of Components Can Be Used?

# DEP - Approved Component Types

- DEP has approved products which provide:
  - Sewage Treatment
  - Soil Absorption System
  - Soil Absorption System with Effluent Treatment
  - Other Misc Operational Components



# DEP - Approved Component Types

- **Sewage Treatment**

- Secondary Treatment Units (STUs) including Recirculating Sand Filters\*
- Nutrient Reducing Treatment Units
- Restorative Treatment Processes

- **Effluent Disposal**

- Plastic Chambers\*
- Drip Dispersal Systems
- Bottomless Sand Filter

\* Has a Standard Conditions blanket guidance document in addition to specific brand and model approval

# DEP - Approved Component Types

- **Effluent Treatment and Disposal Combined**
  - **Patented Sand Filter SASs\***
- **Miscellaneous Operational Components**
  - Plastic tanks
  - Alternative leaching stone aggregate
  - Effluent tee filters
  - Effluent pump systems

\* Has a Standard Conditions blanket guidance document in addition to specific brand and model approval

What Types of Components Can Be Used and  
How Can I Learn More?

# DEP – Component Approval Documents

- DEP provides technical materials and standards
  - **“Standard Conditions”** apply to commonly used components (how and when the components can be used)
  - **“Approval letters”** outline usage rules for all components (how and when the components can be used)
  - **“Guidance Documents”** provide technical information about two generic (non-branded) components

# Standard Conditions Can Be Found Here

← ↻ <https://www.mass.gov/info-details/approved-title-5-innovativealternative-technologies>

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## Approved Title 5 innovative/alternative technologies

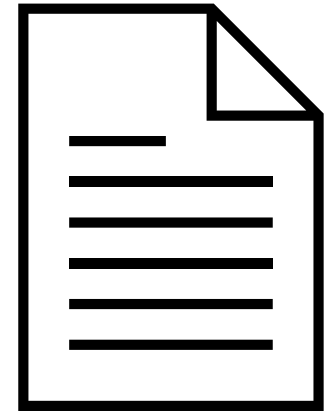
MassDEP must approve alternative septic systems for use in Massachusetts.

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  - [Approved for Provisional Use](#)
  - [Approved for Piloting Use](#)

# DEP – Component Approval Documents

- DEP has established usage standards for 3 most commonly used component groupings
- “Standard Conditions” for
  - Secondary Treatment Units for General Use
  - Secondary Treatment Units for Remedial Use
  - Alternative soil absorption systems and Treatment in soil absorption systems for general and remedial use



# Standard Conditions #1 and #2



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**Standard Conditions for Secondary Treatment Units**  
**Approved for Remedial Use**  
Last Revision Date: November 30, 2016



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**Standard Conditions for Secondary Treatment Units**  
**Certified for General Use**  
Last Revised: March 20, 2015

# Key Points in Secondary Treatment Unit Standard Conditions

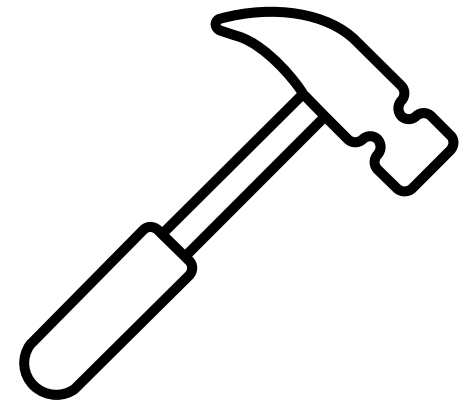
## Design

- Allows for reduced size and soil standards of soil absorption system in some instances
- Requires designer to certify compliance of design
- Requires an undisturbed MFU to be depicted
- Requires onsite system owner to confirm they know of component being proposed
- Indicates if specific designer training is required
- Indicates when component manufacturer must approve the usage
- Check DEP website to confirm the component still has a valid approval letter prior to approval of Application for DSCP

# Key Points in Secondary Treatment Unit Standard Conditions

## Installation

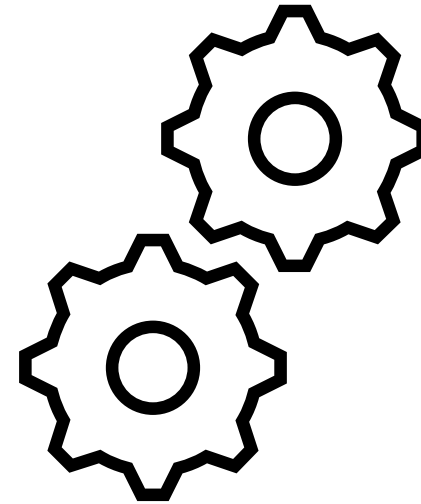
- Requires supplemental certification of installation by designer and installer prior to issuance of C of C
- States when a deed notice is required (for future owner awareness) before issuance of a C of C
- Indicates if specific installer training is required



# Key Points in Secondary Treatment Unit Standard Conditions

## Maintenance

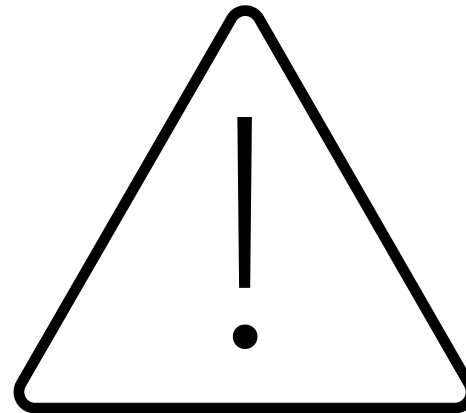
- Indicates required preventative maintenance service
- Requires written notice to new owner of component at time of sale



# Key Points in Secondary Treatment Unit Standard Conditions

## Administration

- Enhanced notification requirements in event of failure



# Standard Conditions #3



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## Standard Conditions for Alternative Soil Absorption Systems with General Use Certification and/or Approved for Remedial Use

Revised: March 5, 2018

These Standard Conditions apply to Alternative Soil Absorption System (Alt. SAS) technologies for disposal-only as well as for technologies providing both treatment and disposal. Currently these approved alternative technologies include the following,

Alt. SAS Disposal-Only,

- **Contactor, Field Drain Contactor, and Recharger Chambers**, by Cultec, Inc.
- **Biodiffuser & ARC Chambers**, by Infiltrator Systems, Inc.
- **Infiltrator Chambers**, by Infiltrator Systems, Inc.
- **Eljen Mantis M5**, by Eljen Corp.

Alt. SAS Treatment with Disposal - Patented Sand Filters,

- **Eljen GSF Geotextile Sand Filter System**, by Eljen Corp.
- **Enviro-Septic Wastewater Treatment System**, by Presby Environmental, Inc.
- **Advanced Enviro-Septic System**, by Presby Environmental, Inc.
- **Simple-Septic Wastewater Treatment System**, by Presby Environmental, Inc.
- **Infiltrator ATL system**, by Infiltrator Systems, Inc.
- **GeoMat Leaching System**, by Geomatrix Systems, LLC.

# Key Points in Alternative SAS Standard Conditions

## Design

- Gives conditions for use of a disposal-only soil absorption system and a disposal with treatment soil absorption system
- Requires designer to certify compliance of design
- Requires onsite system owner to confirm they are aware of component being proposed
- Indicates if designer training is required
- Requires demonstration of a full-sized conventional soil absorption system (new construction)

# Key Points in Alternative SAS Standard Conditions

## Design (cont.)

- Requires depiction of maximum area available for a conventional system and location of best feasible replacement system (upgrade)
- Indicates when component manufacturer must approve the usage
- Indicates what can be used in a NSA and what reductions or adjustments might be allowed to size or location of SAS
- Check DEP website to confirm the component still has a valid approval letter prior to approval of Application for DSCP

# Key Points in Alternative SAS Standard Conditions

## Installation

- Requires supplemental certification of installation by designer and installer prior to issuance of C of C
- States when a deed notice is required (for future owner awareness) before issuance of a C of C
- Indicates if specific installer training is required

# Key Points in Alternative SAS Standard Conditions

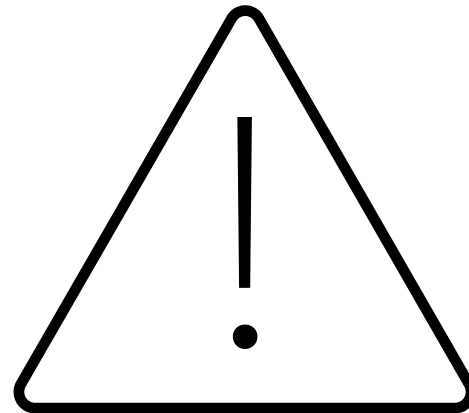
## Maintenance

- Indicates need for annual examination of water level in inspection port in some instances
- Requires written notice to new owner of component at time of sale in some instances
- Enhanced requirements for System Inspection

# Key Points in Alternative SAS Standard Conditions

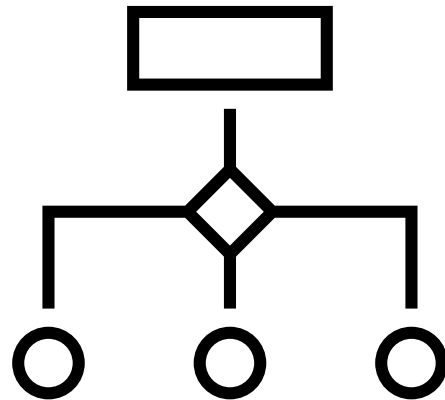
## Administration

- Enhanced notification requirements in event of failure




# DEP – Component Approval Documents

- For the components with Standard Conditions, most important to follow standards in the Standard Conditions documents
- For the components without Standard Conditions, must follow the standards in the component's Approval Letter



# Individual Component Approval Letters Can Be Found Here

← ↻ 🔒 <https://www.mass.gov/info-details/approved-title-5-innovativealternative-technologies>

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## Approved Title 5 innovative/alternative technologies

MassDEP must approve alternative septic systems for use in Massachusetts.

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  - ✔ [Approved for Piloting Use](#)

# DEP – Component Approval Documents

- DEP has provided specific approval letters for 117 brands and models allowed to be used, plus 2 non-proprietary components
  - Privately manufactured components
  - Recirculating Sand Filter STU
  - Bottomless Sand Filter SAS

# Specific approval for brand and model component

← ↻ 🔒 <https://www.mass.gov/info-details/approved-title-5-innovativealternative-technologies>

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MassDEP must approve alternative septic systems for use in Massachusetts.

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- Approved for Provisional Use
- Approved for Piloting Use

← ↻ 🔒 <https://www.mass.gov/info-details/approved-title-5-innovativealternative-technologies#all-technologies-approved-for-use>

### Approved for General Use

General Use			
Company	Technology	Design Flow	Technology Description
Generic	Composting Toilets  Composting toilets are approved for use under Title 5. See 310 CMR 15.289.	Compliant with Title 5	Composting Toilet
Generic	<a href="#">Recirculating Sand Filter Approval</a>  Other Documents: <a href="#">1</a>	Compliant with Title 5	Nitrogen Reduction for 550 gallons per day per acre: TN = 25mg/L Secondary treatment: BOD5 = 30mg/L, TSS = 30 mg/L
<a href="#">Orengo Systems, Inc.</a>	<a href="#">Advantex Treatment System, Nitrogen</a>	Residential <2,000 GPD	Nitrogen Reduction 660 GPD/acre w/ TN <19 mg/l



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### **CERTIFICATION FOR GENERAL USE** Pursuant to Title 5, 310 CMR 15.000

**Name and Address of Applicant:**

Oreco System, Inc.  
814 Airway Ave.  
Sutherlin, OR 97479

Trade name of technology and models: Advantex Wastewater Treatment System Models AX20, AX20RT, AX25RT and AX100 (all hereinafter the "System" or the "Technology") for facilities with design flows less than 2,000 gallons per day (GPD). Schematic drawings illustrating each of the models and an Inspection Checklist are attached and are part of this Certification.

Transmittal Number: X280570  
Date of Issuance: October 25, 2018; modified February 7, 2019 (numbering correction only)

#### **Authority for Issuance**

Pursuant to Title 5 of the State Environmental Code, 310 CMR 15.000, the Department of Environmental Protection (hereinafter "the Department") hereby issues this General Use Approval to: Oreco System, Inc., 814 Airway Ave., Sutherlin, OR 97479 (hereinafter "the Company"), approving the above referenced Advantex Wastewater Treatment System (herein after "the Technology" or "System") for use in the Commonwealth of Massachusetts. Sale and use of the Technology are subject to compliance by the Company, the Designer, the System Installer, the Operator, and the System Owner with the terms and conditions herein. Any noncompliance with the terms or conditions of this Certification constitutes a violation of 310 CMR 15.000

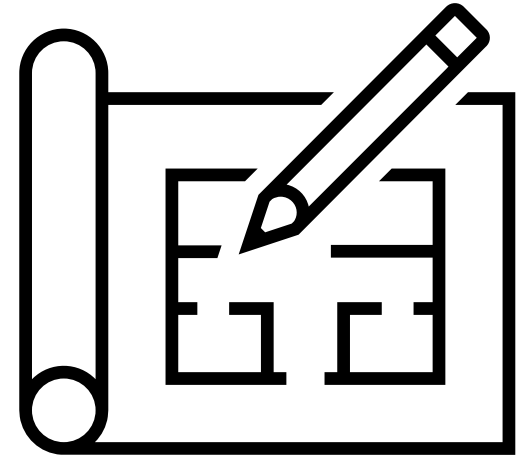
/signed/

\_\_\_\_\_  
Marybeth Chubb, Section Chief  
Bureau of Water Resources  
Wastewater Management Program

February 7, 2019  
Date

# DEP – Component Approval Documents

- DEP has guidance documents for three generic, non-proprietary components
  - Recirculating Sand Filter STUs
  - Bottomless Sand Filter SASs
  - Pressure Distribution SASs
- These components are typically custom engineered and then constructed at the site
- Explains the design, construction and maintenance



# Guidance Documents Can Be Found Here

An official website of the Commonwealth of Massachusetts [Here's how you know](#) ▼

Menu Select Language ▼ State Organizations

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[Home](#) > [MassDEP](#) > [Septic systems & Title 5](#)

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## Title 5/Septic Systems Policies & Guidance

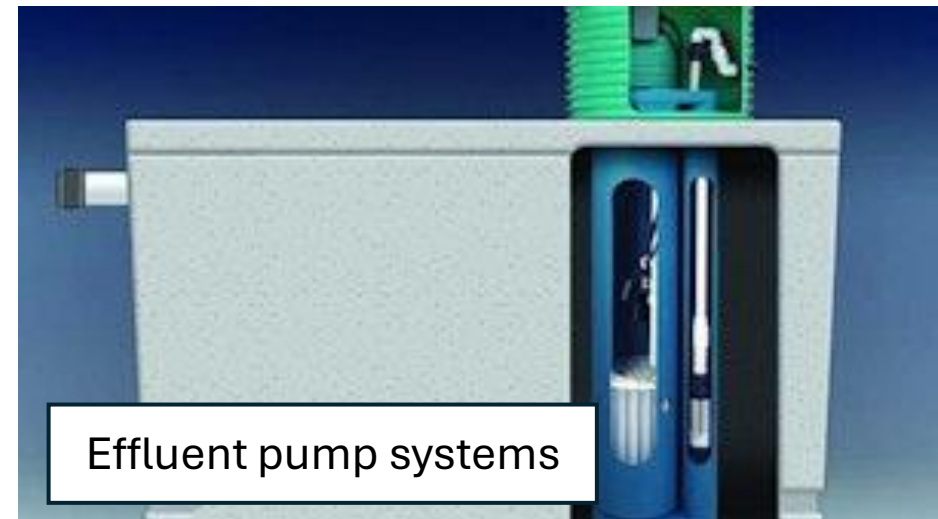
These documents govern how MassDEP administers the Title 5 program.

### Title 5 Guidance

Feedback

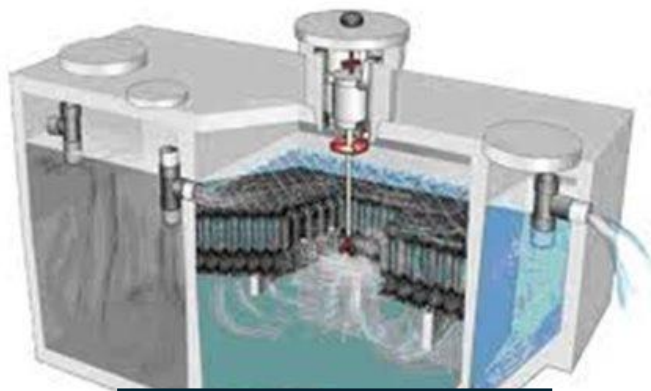
What Do Some of These Components Look Like?

# Allowed Tanks and Internal Components

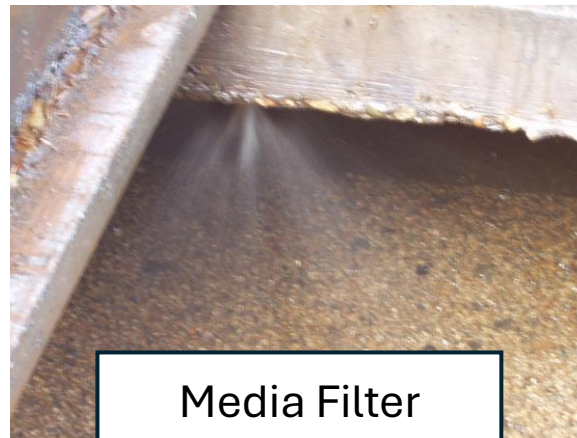


# Allowed Treatment Units

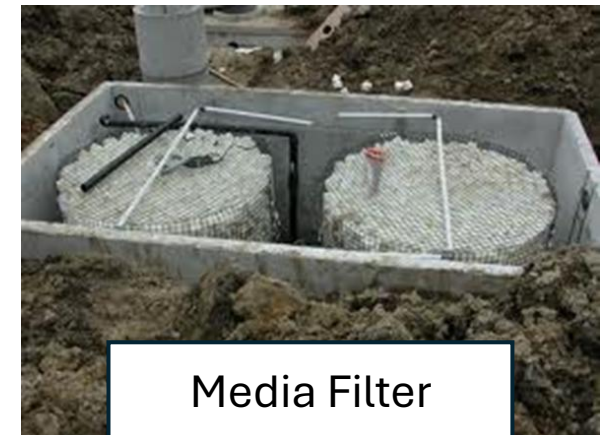
- General wastewater potency reducing systems and SAS remediation
- Pollutant specific removal
- Secondary Treatment Units (STUs)
  - Aerobic Treatment (ATUs) - Saturated with air introduced to effluent
  - Media Filters (Packed Bed Filters) - Unsaturated with air diffused in



Aerobic Treatment



Media Filter



Media Filter

# Allowed Soil Absorption Systems



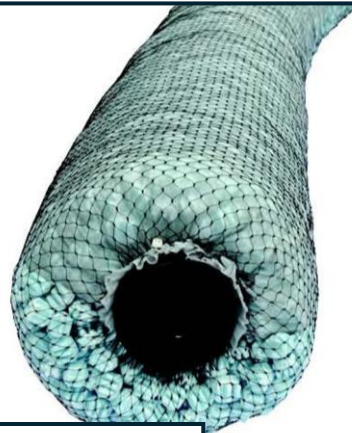
Drip Dispersal  
(allowed under specific approval documents)



Bottomless Sand Filter

(allowed under specific approval documents)

Alternative Aggregate



Plastic Chambers

(allowed under Standard Conditions)

# Allowed Combined Treatment and Soil Absorption Systems

- Patented Sand Filters



allowed under Standard Conditions

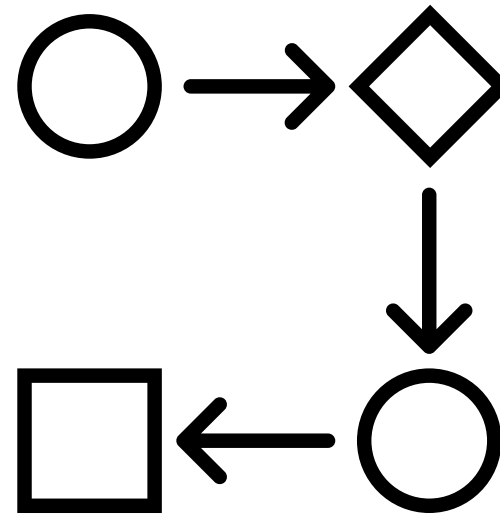


allowed under Standard Conditions

What Does a Local or Regional Health Inspector  
Need to Look for?

# What Does the Local Health Inspector Need to Do?

- Four aspects needed to assure proper onsite systems:
  - Design
  - Construction
  - Maintenance
  - Administration



# What Does the Local Health Inspector Need to Do?

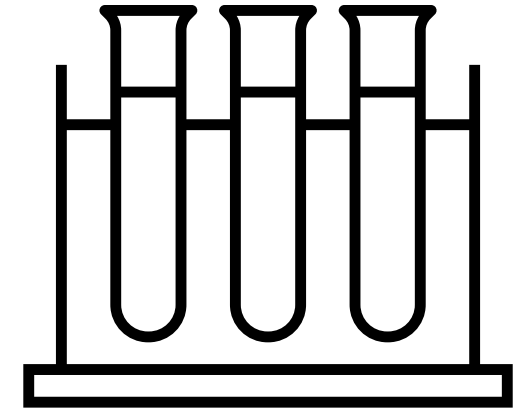
- Design:
  - Before approval of Application for DSCP (Form 1A), make sure all proposed components have been approved for use in Massachusetts and are being proposed in a compliant manner
  - Confirm designer certified compliance of DEP-approved components on plan (if required)
  - Confirm receipt of owner acknowledgement of use of component (if required)
  - Confirm receipt of manufacturer endorsement of component use (if required)

# What Does the Local Health Inspector Need to Do?

- Construction:
  - Ensure installer is certified to put in the proposed components (if required)
  - Confirm installed components match the approved DSCP application
  - Ensure a deed notice is recorded to inform future owners before issuance of a C of C (if required)
  - Ensure service agreement has been signed and is in effect before issuance of a C of C (if required)
  - Receive receipt of supplemental C of C by installer and designer confirming proper installation of component (if required)

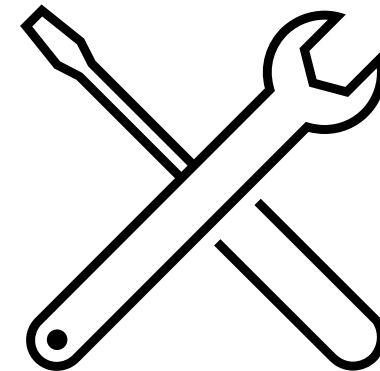
# What Does the Local Health Inspector Need to Do?

- Maintenance:
  - Ensure required preventative maintenance service contract is in place at time of C of C (if required)
  - Ensure required annual examination of effluent level in soil absorption system is completed (if required)



# What Does the Local Health Inspector Need to Do?

- Administration:
  - Track and ensure required routine O&M preventative service visits are occurring (if required)



How Can I Get More Assistance?

# DEP Regional Staff for Onsite Wastewater

- **WERO:** Alex White, 857-276-7462 [alex.white@mass.gov](mailto:alex.white@mass.gov)
- **CERO:** Dan Kurpaska, [daniel.j.kurpaska@mass.gov](mailto:daniel.j.kurpaska@mass.gov)
- **SERO (Mainland):** Martha Sullivan, 617-913-1218  
[martha.sullivan@mass.gov](mailto:martha.sullivan@mass.gov)
- **SERO (Cape Cod):** Ian Jarvis, 781-898-8636 [Ian.Jarvis@mass.gov](mailto:Ian.Jarvis@mass.gov)
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Areeg O’Roak, 857-292-3814 [Areeg.ORoak@mass.gov](mailto:Areeg.ORoak@mass.gov)

Questions?