

# Ties this to all 20,000sq ft lots (even those not in GWPO)

## 11.11 Advanced Wastewater disposal system operations and Maintenance Agreements

11.11.a Purpose and applicability: Applicable to uses in LUO table 7.2 requiring the use of advanced wastewater system

### 11.11.b standards and requirements

#### a. Nitrogen removal

i. Advanced wastewater treatment systems shall employ a denitrification process and a nitrogen removal capacity that meets the standards of NSF 245.

#### b. Form HHE-300

i. Owners of a dwelling unit constructed, expanded, enlarged, rebuilt, or replaced on or after the effective date of this amendment that is served by an advanced wastewater system shall prepare, execute, and record in the Cumberland County Registry of Deeds a Pre-treatment Maintenance Agreement form (Form HHE-300, prepared by Maine Department of Health and Human Services, Maine Center for Disease Control and Prevention).

ii. The owner shall provide a copy of the recorded HHE-300 with recording information to the CEO prior to receiving a certificate of occupancy for the dwelling unit.

#### c. Maintenance agreement

i. Owners of a dwelling unit constructed, expanded, enlarged, rebuilt, or replaced on or after the effective date of this amendment that is served by an advanced wastewater treatment system also shall provide a copy of an executed maintenance agreement for maintenance and repair of the advanced wastewater treatment system in accordance with the requirements of that system's manufacturer to the CEO prior to receiving a certificate of occupancy for the dwelling unit and they shall enter into replacement or extension maintenance agreements for the duration of the lifetime of that advanced wastewater treatment system, copies of which shall be provide to the CEO.

ii. Maintenance agreements shall specify the manufacturer's maintenance and repair requirements for the advanced wastewater treatment system, and shall require annual sampling and testing of the system's effluent, the results of which shall be provided to the CEO and to the Yarmouth Water District.

iii. Effluent testing shall include, but not be limited to: Total Suspended Solids (TSS), Five Day Biological Oxygen Demand (BOD5), and total nitrogen concentration.

iiii. Systems will be required to operate within manufacturer specifications.

d. Replacement of an advanced wastewater treatment system shall require the owners of the dwelling unit to complete and record a new Form HHE-300, and to submit a copy of the recorded Form and a copy of new and replacement or extension maintenance agreements as provided above to the CEO within 14 days from the date of installation of the replacement advanced wastewater treatment system.

e. The heirs, successors, and assigns of an owner of a dwelling unit subject to this subsection H. 10. also shall be bound by this maintenance agreement requirement.

f. Failure or neglect of an owner subject to this subsection H. 10. or of its heirs, successors, and assigns to comply with the requirements of this subsection H. 10 shall be a violation of this ordinance.

How is this administered?

YWD Educate public-Postcard to all system owners that the expectation is that all systems are expected to perform within mfr specs  
(Attempts to capture those systems on small lots in place before the ordinance)

Need a spreadsheet of advanced wastewater systems falling under this  
YWD has one that these systems can be added to.

YWD shares data, CEO enforces the LUO  
Memorandum of understanding between YWD and CEO. Info is shared, Ben enforces ordinance

Ben has an ordinance violation template  
Postcard reminder testing is due by 9/1  
No info by 12/31 violation notices sent

Test range spelled out in O&M Agreement

## Section 3a. System Components and Specifications - Summary

FUJI CLEAN USA RESIDENTIAL SYSTEM SPECIFICATION TABLE	CE Series BOD, TSS, TN*				CEN Series BOD, TSS, Enhanced TN		
	Model	CE5	CE7	CE10	CE14	CEN5	CEN7
Load Hydraulic** (GPD)	500	700	900	1000	500	700	900
Effluent*** (assumes domestic strength influent)							
BOD (mg/L)	10-20	10-20	10-20	10	10	10	10
TSS (mg/L)	10-20	10-20	10-20	10	10	10	10
TN (mg/L)	10-20	10-20	10-20	10	10	10	10
Blower Model / CFM (Standard)	FujiMAC 80RII 2.8 CFM	FujiMAC 80RII 2.8 CFM	FujiMAC 100RII 3.5 CFM	FujiMAC 100RII 3.5 CFM	FujiMAC 80RII 2.8 CFM	FujiMAC 100RII 2.8 CFM	FujiMAC 100RII 3.5 CFM
Power Use (kWh/day)	1.2	1.2	1.7	1.7	1.2	1.7	1.7
Tank Detail:							
Material	Fibre-reinforced plastic				Fibre-reinforced plastic		
Height (Inches)	61.8	65.4	73.2	77.4	65.4	73.2	77.4
Length (Inches)	85	95.7	98.8	118.9	95.7	98.8	118.9
Width (Inches)	43.7	49.2	56.7	68.9	49.2	56.7	68.9
Weight (lbs.)	397	463	705	926	463	705	926
Inlet Invert (Inches, to 1/8")	49	53	61	62	53	61	62
Outlet Invert (Inches to 1/8")	47	51	59	59.5	51	59	59.5
Access Ports (number)	3	3	3	3	3	3	3
Access Port Diameter (Inches)	3@20"	2@20" 1@24"	2@20" 1@24"	2@20" 1@24"	2@20" 1@24"	2@20" 1@24"	2@20" 1@24"
Volume Total (gallons)	540	749	1069	1498	749	1069	1498
Volume Chamber 1, Sedimentation (gal)	198	277	397	558	277	397	558
Vol Chamber 2, Anaerobic (gal)	198	278	396	556	278	396	556
Vol Chamber 3, Aeration (gal)	95	127	181	248	127	181	248
Vol Chamber 3a, Storage (gal)	44	63	90	124	63	90	124
Volume Chamber 3b, Disinfection (gal)	4	4	6	12	4	6	12

\* TN data was obtained during CE testing, but not to NSF245 testing protocol. CEN testing was to NSF245 protocol.

\*\* Please consult with distributor or Fuji Clean USA for commercial models designed to treat hydraulic flows above those listed in this table.

\*\*\* Please consult with distributor or Fuji Clean USA for system specification and sizing in cases where influent biologic strength is greater than domestic strength.

**HOLDING TANK DEED COVENANT FORM**

**Property Owner:** Complete and record this form with your County Registry of Deeds. Then forward a copy of the recorded deed covenant to the your municipality's Local Plumbing Inspector.

**County Registrar:** Please cross-reference this document with book and page no.

**Property Owner Statement:** I(we), \_\_\_\_\_ are the  
owner(s) of the property located at \_\_\_\_\_ (street)  
\_\_\_\_\_ (town).

The property's deed is recorded in book no. \_\_\_\_\_, page no. \_\_\_\_\_ .

We state that the holding tank installation for the aforementioned property received approval by the town of \_\_\_\_\_ and its officials.

**Stipulations of Covenant:**

The holding tank shall be installed and maintained in accordance with the following conditions:  
*(Conditions to be specified by the approving authority.)*

**Municipal Approval Conditions:** This approval has been granted subject to the implementation of the above conditions and said approval will become null and void if the required and stated conditions of approval are violated.

**Property Owner** signature(s) \_\_\_\_\_  
\_\_\_\_\_

State of Maine

County \_\_\_\_\_, ss Date \_\_\_\_\_

Then personally appeared the above named \_\_\_\_\_ (and)  
\_\_\_\_\_ and (severally) acknowledged the foregoing instrument to be his (or their) free act  
and deed.

Before me \_\_\_\_\_  
Justice of the Peace or Notary Public