

PERHAPS THE MOST NOBLE OF ALL RESCUE ANIMALS: THE LAVATORY RETRIEVER

LPI TRAINING SESSION PORTLAND – BANGOR HOULTON

BRENT LAWSON GLENN ANGELL

FALL - 2015



Maine Center for Disease Control and Prevention

An Office of the Department of Health and Human Services

Paul R. LePage, Governor

Mary C. Mayhew, Commissioner

HEALTH INSPECTION PROGRAM

PROGRAM THAT INSPECTS FOOD SERVICE LICENSES

WHEN THERE IS A SEPTIC REVIEW FOR A FOOD SERVICE LICENSE THAT REPORT WILL ALSO GO TO THE LPI THE REPORT WILL STATE ITEMS LIKE:

SEPTIC IS OK FOR THEM TO OPERATE

SEPTIC IS NOT OK FOR THEM TO OPERATE..

UNDERSIZED NO GREASE INTERCEPTOR NO PERMIT FOR EXISTING SYSTEM ETC..

ALSO #4 SECTION 6 APPROVED MATERIALS AND EQUIPMENT L. EXTERNAL GREASE INTERCEPTORS

1. **General:** Any new commercial or institutional food preparation facility, such as a restaurant, cafeteria, institutional kitchen, or other facility subject to Footnote 2 of Table 4C, served by a subsurface wastewater disposal system, must install an external grease interceptor.

TABLE 4C DESIGN FLOWS FOR OTHER FACILITIES

Type of facility	Design flow per user or unit	
Airports	5 gpd per passenger plus 12 gpd per employee [1]	
Assembly areas (Meeting hall, no seats)	2 gpd per person	
Auditoriums/Stadiums:	5 gpd per seat	
Bakery	100 gpd per bakery plus 12 gpd per employee [1, 2]	
Bar/Tavern/Cocktail lounge	add 12 gpd per employee to each	
w/ limited food	15 gpd per seat or 13 gpd per patron	
w/o food	10 gpd per seat or 7 gpd per patron	
Barber shop	50 gpd per chair	
Beauty salon	100 gpd per chair	
Bed and breakfast	90 gpd per bedroom per operator's quarters and 75 gpd per rental room	
Boarding houses with meals	180 gpd per house plus 40 gpd per boarder	
Bottle club	10 gpd per seat plus 12 gpd per employee	

NOTES:

4.

1. The design flow for employees is based on the total number of employees present in any 24-hour period.

2. Multiply the hydraulic loading rate by 1.8 for sizing the disposal field. The initial value taken from the table is used to size the septic tank and for minimum lot size determinations.

3. 22 M.R.S. §1672 requires a public rest room for shopping centers containing 6 or more separate retail establishments with an off street public parking area of not less than 2 acres.

Requires an external grease interceptor sized and installed pursuant to Section 6(L).

5. Requires outlet filter in septic tank.

	Disposal System Components	Fee	DWP %	DEP Surcharge	
1.	Complete Non-engineered System	\$250.00	\$62.50	\$15.00	
2.	Primitive System (graywater & alt toilet)	\$100.00	\$25.00		
3.	Alternative Toilet	\$50.00	\$12.50		
4.	Non-engineered Treatment Tank	\$150.00	\$37.50		
5.	Holding Tank	\$100.00	\$25.00		
6.	Non-engineered Disposal Field	\$150.00	\$37.50		
7.	Separated Laundry System	\$35.00	\$8.75		
8.	Complete Engineered System	\$200.00	\$50.00	\$15.00	
9.	Engineered Treatment Tank (only)	\$80.00	\$20.00		
10.	Engineered Disposal Field (only)	\$150.00	\$37.50		
12.	Miscellaneous Components	\$30.00	\$7.50		
Fire	st-Time System Variance	\$20.00	\$5.00		
Sea	sonal Conversion Permit	\$50.00	\$12.50		

Internal Plumbing Permits	Fee	DWP %
Minimum fee, includes up to 4 fixtures	\$40.00	\$10.00
Individual fixtures, each, above 4 total	\$10.00	\$2.50
Hook up to public sewer	\$10.00	\$2.50
Hook up to existing subsurface system	\$10.00	\$2.50
Piping relocation with no new fixtures	\$10.00	\$2.50
Permit transfer	\$10.00	\$2.50

Complete systems = \$15.00 surcharge

Components = no surcharge

2 separate checks – 1 for surcharge & 1 for 25% permit fees to the State

Both checks mailed in with permits to the same place

MANUFACTURED HOUSING

NEW HOOK UP FEE UNLESS OTHER FIXTURES ARE ADDED ON SITE

NOT NEW \$10.00 PER FIXTURE





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THE IMPORTANCE OF THE SHOULDER AND FILL EXTENSIONS











GREY WATER LINE CUT OFF & REROUTED

- and







SECTION 11 QUALITY ASSURANCE AND QUALITY CONTROL B. SITE PREPARATION

Scarify the site:

The area under the disposal area must be thoroughly roughened. The soil should be broken up to a depth of <u>6</u> to <u>8</u> inches. Alternatively, a rototiller or the teeth of a backhoe or frost tooth may be used.

Transitional horizon:

On sites where the backfill material is coarser than the original soil, a minimum of <u>4</u> inches of backfill material must be mixed into the original soil to form a transitional horizon beneath the disposal area.



SECTION 5

APPLICATION FOR DISPOSAL SYSTEM PERMIT

4. Page three of the HHE-200 form:

i. Original ground surface with notes for site preparation including scarification and transitional horizon;

SECTION 11 QUALITY ASSURANCE AND QUALITY CONTROL

The area under the disposal area should be thoroughly roughened and broken up to a depth of 6 to 8 inches.

A minimum of 4 inches of backfill material must be mixed into the original soil to form a transitional horizon.



SECTION 11 QUALITY ASSURANCE AND QUALITY CONTROL

D. CONSTRUCTION

1. **Construction:** The installer of the system must make certain that the system and all its component parts are installed in conformance with the requirements of these Rules, the plan prepared by the site evaluator, and with any special engineering design requirements approved or required by the Department, pursuant to an approved variance.

2. **Soil and backfill material:** The installer of the system must make certain that the construction and installation are performed without adversely affecting the capacity of the soil or backfill material to adequately absorb or treat the septic tank effluent.



POOPING FOR AN AVERAGE OF 10 MINUTES EACH WORK DAY

EQUALS 40 HOURS OF PAID VACATION EACH YEAR

HOMEOWNER SELLING THEIR HOUSE

HAS THE 2 YEAR OLD SEPTIC SYSTEM INSPECTED AND FAILED BECAUSE OF THE ROW OF INDRAINS THAT WAS INSPECTED HAD A LOT OF BIOMAT





WHAT IS A **BIOMAT?**

Biomat is a naturally occurring tar-like substance that forms on the bottoms and sides of the leaching bed trenches

It is made up of living anaerobic (without oxygen) organisms, which feed on organic matter in septic system wastewater

As the biomat ages it grows thicker slowing down the flow of wastewater to the surround soil.

As the wastewater passes through the biomat, pathogenic organisms and viruses are removed.

On the outside of the trench, beyond the biomat where the soil is not saturated, are living colonies of aerobic (with oxygen) bacteria.

These aerobic bacteria colonies feed on the biomat and keep it from becoming so thick that wastewater will no longer pass through.

When soil floods, these aerobic colonies will die off and no longer keep the biomat in check. The biomat will grow too thick and drainage will stop.

As these colonies die off they leave behind sulfides, which over time will clog soil passages stopping the flow of water, when the biomat grows too thick a waterproof barrier develops and absorption stops.





What happens when you mistake a pump station cleanout for an oil fill pipe ?














The New Subsurface Rules

The new Subsurface Wastewater Disposal Rules, 10-144 CMR 241 became effective on August 5, 2015. The following is a summary of the significant changes you should be aware of.

This section was edited and "cleaned up "to make it easier to understand when faced with a system being proposed for reuse that has been unused for a period of time.

THE RULES DO NOT INCLUDE ANY TIME LIMIT FOR REUSE.

A SYSTEM CURRENTLY NOT IN USE THAT IS **COMPLETE** AND WOULD LIKELY FUNCTION PROPERLY IF REUSED CAN BE REUSED

MUST BE LEGALLY EXISTING (TOWNS CALL)

MUST BE LEGALLY EXISTING (TOWNS CALL)

INSTALLED WITHOUT A PERMIT? DOESN'T LEGALLY EXIST

HOW TO PROCEED

"AFTER THE FACT PERMIT" OR THE SYSTEM MUST BE REMOVED

THAT'S THE RISK SOMEONE TAKES WHEN INSTALLING WITHOUT A PERMIT

TO BE REUSED, THE DESIGN FLOW PROPOSED MUST NOT EXCEED THE SYSTEMS CAPACITY

EXCEPT AS ALLOWED IN SEC. 9 - EXPANSIONS

SECTION 9 – EXPANSIONS

IF IT REQUIRES ADDITIONAL CAPACITY, MUST BE APPLIED TO THE EXISTING SYSTEM

QUESTION; CAN YOU MIX DIFFERENT TYPES OF SYSTEMS? FOPR INSTANCE...

CAN YOU EXPAND A STONE BED WITH CONCRETE CHAMBERS?

THE EXISTING SYSTEM CAN NOT BE MALFUNCTIONING



RULES THAT DETERMINE IF A SYSTEM IS COMPLETE AND LIKELY TO FUNCTION

VALID PERMIT

THE SYSTEM IS COMPLETE BY MEANS OF INSPECTION.. SE - THIRD PARTY - LPI

AFTER THE FACT PERMIT

DESIGN RECORDED WITH THE REGISTRY OF DEEDS

DESIGN RECORDED WITH THE REGISTRY OF DEEDS

NO EXPIRATION DATE

MUST BE INSTALLED IF THE EXISTING SYSTEM FAILS

NEW WELLS ON ABUTTING PROPERTIES THAT PREVENT THE SYSTEM TO BE INSTALLED ARE PROHIBITED

NOTIFICATION TO ABUTTERS IS REQUIRED

EXPANSION CRITERIA FORMERLY FOUND IN SEC. 2 HAVE BEEN RELOCATED TO SEC. 9 - EXPANSIONS

SEC. 4(E) DESIGN FLOWS FOR DWELLING UNITS

IN-LAW APARTMENTS



120 GALLONS PER DAY DESIGN FLOW

ONE BEDROOM FOR EXPANSION PURPOSES IN SEC. 9 MUST BE ATTACHED TO THE PRIMARY STRUCTURE

NEW RULES = "IN LAW APARTMENT" 1 BDRM w/kitch = 120GPD ATTACHED



2 SEPARATE STRUCTURES = 180 GPD PER STRUCTURE

SEC. 4(I) PRIMITIVE AND LIMITED DISPOSAL SYSTEMS

LANGUAGE CLARIFYING THAT A PORT-A-POTTY IS NOT AN ALTERNATIVE TOILET AND IS NOT ALLOWED AS A PERMANENT ALTERNATIVE TOILET

PORT-A-POTTY COMPANY NAMES





te disposal eld

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quired.

Upgrades for primitive systems:

Upgrading a primitive subsurface wastewater disposal to a full size, conventional system and a pressurized water supply requires compliance with the first-time system criteria.

Backup system reserve area required:

The site evaluator must delineate on the application (HHE-200 Form) a reserve area where a full-size subsurface wastewater disposal area can be installed in compliance with first-time system criteria. The owner may not take or allow any action which would prevent the use of the reserve area for a disposal area installation.



System upgrades:

Upgrading a limited system to a full size, conventional system must meet first-time system criteria.

TABLE 4(F) MINIMUM PERMITTING CONDITIONS CORRECTED ERRORS/ LANGUAGE ADDED TO FOOTNOTES FOR CLARIFICATION

SEC. 7(C) CRITERIA FOR APPROVAL DEPARTMENTS REVIEW CLARIFICATION OF FIRST TIME SYSTEMS FOCUS WILL BE ON GROUNDWATER IMPACT – NATURAL RECOURSES -WELLS

FORMERLY IN SEC. 2 MOVED TO SEC. 9 SWITCHED TO MAJOR AND MINOR EXPANSIONS

1. Outside the shoreland area:

a. **Minor Expansion:** For the addition of one of the following - One bedroom, maximum wastewater flow increase of 25 percent for non-residential structures, pressurized water introduced to structure, replacement of an alternative toilet with a water closet, or an upgrade of the holding tank to a complete system, then the expansion must meet replacement system criteria, as described in Section 8;

b. **Major Expansion:** If there is an addition of more than one of the items listed above, or there is an increase of wastewater flow greater than 25 percent for non-residential structures, then the expanded system must meet first-time system criteria, as described in Section 7.

2. Within the shoreland area:

a. **Minor Expansion:** For the addition of one of the following - One bedroom, maximum wastewater flow increase of 25 percent for non-residential structures, replacement of an alternative toilet with a water closet, or an upgrading of the holding tank to complete the system, then the expansion must meet replacement system criteria to the LPI limits of approval only;

b. Major Expansion: If the addition of more than one of the items listed above occurs, and/or the addition of pressurized water to the structure, or an increase of wastewater flow is greater than 25 percent for non-residential structures, then the expanded system must meet first-time system criteria as described in Section 7.

c. **In-law apartments:** For the purpose of determining the appropriate design criteria in Sections 9(C)(1)(a) and (b) above, in-law apartments, as defined in these Rules, are considered one-bedroom and a minor expansion. The resulting system design must use the design flow of 120 gpd, as required by Table 4A.

Section 12 Wetlands and Waterbodies:

This section is totally new. The intent was to move all of the criteria for working adjacent to a wetland or waterbody into one section, and to edit the requirements to be compliant with DEP requirements.

It is highly recommended that Site Evaluators familiarize themselves with this section.

- Subsection 12 (A) details and clarifies permit requirements and responsibilities.
- Subsection 12 (B) details the standards for working with different types of wetlands and waterbodies. It is organized differently than in the past. Recourses that require a 75 foot disturbance free buffer are listed first, then those that require a 25 foot disturbance free buffer, followed by those with no buffer required, and finally how to handle stream crossings when required.
- Section 12 (C) details erosion control requirements.

To summarize, this section is organized to help lead a Site Evaluator through the process of identifying and then dealing with protected natural resources and to ensure compliance with applicable DEP regulations. The first subsection explains permit requirements, the second identifies resources and the standards that are applicable, and last sections details erosion control requirements. Taken together the section leads the designer from the permits required, the criteria for design, and the requirements for proper installation.

So	theal distan	TABLE 7B	timo system			
Site features vs. disposal system	idack uistai	Disposal Fiel	lds	15	Treatment Ta	nks
components of various sizes	(total design flow)			(total design flow)		
A	Less	1,000	2,000	Less	1,000	2,000
	than	to less	gpd	than	to less	gpd or
	1,000 and	,000 than	or	1,000	than	more
	gpa	2,000	more	gpa	2,000 and	
Wells with water usage of 2000 or	300	<u>gpu</u> 300	300	150	<u>gpu</u> 150	
more gpd or public water system wells	feet	feet	feet	feet	feet	150 feet
more gpd of public water system wens	100	200	300	50	100	
Potable Water Supply	feet	feet	feet	feet	feet	100 feet
***	10.0	20	25	10	10.0	10.0
Water supply line	10 feet	feet	feet	feet	10 feet	10 feet
<u> </u>	100	200	300	100	100	100.0
Water body/course, major [f] [h]	100 feat [a]	feet	feet	feet	feet	100 feet
$\mathbf{\vee}$	ieet [C]	[c]	[c]	[d]	[d]	լսյ
\frown	50 feet	100	150	50		
Water body/course, minor[e]	[e]	feet	feet	feet	50 feet	50 feet
–	[•]	[e]				
Drainage ditches	25 feet	50	75	25	25 feet	25 feet
5		feet	feet	feet		
Clance another than 2.1	10 feet	18 faat	25 faat	NI/A	NT/A	NT/A
Slopes greater than 5.1	[f]	Ieet	f	IN/A	N/A N/A	1N/A
No full basement [e.g. slab, columns		28	40			
nosts]	15 feet	feet	feet	8 feet	14 feet	20 feet
Full basement [below grade	20 feet	30	40			
foundation, frost walls]	[g]	feet	feet	8 feet	14 feet	20 feet
	10	18	20	10		
Property lines	feet	feet	feet	10	15 feet	20 feet
· ·	[b]	[b]	[b]	reet		
Burial sites or graveyard boundaries,	25	25	25	25		25 feet
measured from the toe of the fill	feet	feet	feet	feet	25 feet	
extension	Iter	icet	icet	Icet		
Stormwater infiltration systems	100	200	300	100	100	100 feet
	feet	feet	feet	feet	feet	
wetponds, retention ponds, and	50	100	150	50		
aredo): Soil filters, underdreined	50 faat	foot	150 faat	50 foot	50 feet	50 feet
grade, soli inters, underdrained	rieet	ri	ri	ri	<u>[i]</u>	<u>[i]</u>
similar structures	ш	ш	111	111		
Stormwater detention basins (basin		50	75			
bottom at or above predevelopment	25	feet	feet	25	25 feet	25 feet
and a)	feet	[]	r;i	feet	20 1000	25 1001

(E) ADDED

(a) 18'-20' (H) ADDED D) taken away

(i) ADDED

[a.] Potable water supply setbacks may be reduced, as prescribed in Section $7(\underline{A})(2)$. (A) ADDED

[b.] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.

[c.] All ground disturbance or clearing of woody vegetation necessary for the installation of a subsurface wastewater disposal system that occurs within 100 feet of the normal high water mark of a major water body/course must maintain a minimum setback of 75 feet from the normal high water mark of the major water body/course and also must comply with these Rules pertaining to work adjacent to or within wetlands and water bodies (for more details see Section 12).

[d.] May be reduced by Site Evaluator to 50 feet, pursuant to water tightness standards found in Section 6(H)(8) or tanks of monolithic construction.

[e.] All ground disturbance or clearing of woody vegetation necessary for the installation of a subsurface wastewater disposal system that occurs within 100 feet of the normal high water mark of a minor water body/course must maintain a minimum setback of 25 feet from the normal high water mark of the minor water body/course, except minor water courses located inside the Shoreland Zone which require a minimum setback for disturbance of 75 feet, and also must comply with these Rules pertaining to work adjacent to or within wetlands and water bodies (for more details see Section 12).

[f.] For sites with sustained slopes steeper than 3 feet horizontal to 1 foot vertical (33%) within 25 feet from a protected natural resource. If a sustained slope of 33% or greater exists less than 25 feet from a protected natural resource, it does not count toward the 25 foot setback. Sustained slopes greater than 3:1 may be part of the 75 foot setback but cannot be counted as part of the 25 foot setback (for more details see Section 12). **DELETED**

[g] May be reduced to 15 feet, if the disposal area would be located down slope from the lowest point of the foundation footings.

[h] All ground disturbance or clearing of woody vegetation necessary for the installation of a subsurface wastewater disposal system that occurs within 100 feet of the normal high water mark of a perennial stream must maintain a minimum setback of 25 feet from the normal high water mark of the perennial stream except those perennial streams which have a Shoreland Zone or those located inside the Shoreland Zone of another major waterbody/course which require a minimum setback for disturbance of 75 feet, and also must comply with these Rules pertaining to work adjacent to or within wetlands and water bodies (for more details see Section 12).

[i] The setback may be reduced to 25 feet if the stormwater structure has an impervious liner and the fill extensions do not encroach onto the stormwater structure.

ADDED

TABLE 8A								
Setback Distances for Replacement System, Limits of LPI Authority								
Site features vs. disposal system	Ι	Disposal Fields			Septic Tanks and Holding Tanks			
components of various sizes	(to	(total design flow)			(total design flow)			
	Less than	1,000 to	Over 2,000	Less than	1,000 to	Over 2,000		
	1,000 gpd	2,000 gpd	gpd	1,000 gpd	2,000 gpd	gpd		
wells with water usage of 2,000 or more gpd or public water supply wells	300 feet	300 feet	300 feet	150 feet	150 feet	150 feet		
Potable supply well	100 down to 60 feet	200 down to 100 feet	300 down to 150 feet	50 down to 25 feet [a]	100 down to 50 feet [a]	100 down to 50 feet		
Water supply line	10 feet	20 feet	25 feet	10 feet	10 feet	10 feet		
Water course, major [c]	100 down to 50 feet	200 down to 120 feet	300 down to 180 feet	100 down to 25 feet [a]	100 down to 50 feet	100 down to 50 feet		
Water course, minor [c]	50 down to 25 feet	100 down to 50 feet	150 down to 75 feet	50 down to 25 feet	50 down to 25 feet	50 down to 25 feet		
Drainage ditches	25 down to 12 feet	50 down to 25 feet	75 down to 35 feet	25 down to 12 feet	25 down to 12 feet	25 down to 12 feet		
Slopes greater than 3:1	10 feet	18 feet	25 feet	N/A	N/A	N/A		
No full basement	15 down to	30 down to	40 down to	8 down to	14 down to	20 down to		
[e.g. slab, columns, posts]	7 feet	15 feet	20 feet	5 feet	7 feet	10 feet		
Full basement [below grade	20 down to	30 down to	40 down to	8 down to	14 down to	20 down to		
foundation, frost wall]	10 feet	15 feet	20 feet	5 feet	7 feet	10 feet		
Property lines	10 down to 5 feet [b]	18 down to 9 feet [b]	20 ft down to 10 ft [b]	10 down to 4 feet [b]	15 down to 7 feet [b]	20 down to 10 feet [b]		
Burial sites or graveyard s boundaries, measured from the toe of the fill extension	25 feet	25 feet	25 feet	25 feet	25 feet	25 feet		
Stormwater infiltration systems	100 down to 60 feet	200 down to 120 feet	300 down to 180 feet	100 down to 50 feet	100 down to 50 feet	100 down to 50 feet		
Wetponds, retention ponds, and detention basins (excavated below grade); Soil filters, underdrained swales, underdrained outlets, and similar structures	50 down to 25 feet [d]	100 down to 50 feet [d]	150 down to 75 feet [d]	50 down to 25 feet [d]	50 down to 25 feet [d]	50 down to 25 feet [d]		
Stormwater detention basins (basin bottom at, or above, predevelopment grade)	25 down to 12 feet	50 down to 25 feet [d]	75 down to 35 feet [d]	25 down to 12 feet	25 down to 12 feet	25 down to 12 feet		

20'-25'

a

Notes:

[a] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the LPI's presence and shown to be watertight pursuant to water tightness standards found in Section 6(H)(8) or of monolithic construction.

[b] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.

[c] All ground disturbance or clearing of woody vegetation necessary for the installation of a subsurface wastewater disposal system that occurs within 100 feet of the normal high water mark of a major or minor water body/course must comply with these Rules portaining to work adjacent to or within watends and water bodies (for more dataile, see Section 12)

[d] The reduced setback distance may be further reduced down to 12 feet if the stormwater structure has an impervious liner and the fill extensions do not encroach onto the stormwater structure.

ADDED

D

D

HHE-200 PRE	PERMIT CHECKLIST					
OWNER/APPLICANT: SI	TE EVALUATOR:	<u>SE#</u>				
<u> </u>	PAGE 1					
Property Location, Owner/Applicant Information	filled out with signature and date.					
All sections are filled out						
System to serve matches design flow-90 GPD/Bec	lroom or other					
Does it require a "STATE" variance? (not able to permit until approved by the State) -Proceed submittal of a						
Copy of the HHE-200 form to the State with all signatures on variance form.						
Does it require a local variance? Proceed reviewing at the local level.						
Site Evaluator has signed and dated HHE-200 form.						
<u> </u>	<u>PAGE 2</u>					
Locations showing proper setbacks fro	om the disposal field and treatment tanks to:					
Existing and proposed structures Roadways	Potable water supplies Public water supply	(if applicable)				
Water supply line Water bodies 🛛 We	tlands 🔲 Property lines 🗌 Drainag	e ditches				
LOCA	TIONS OF:					
Pump/dosing tanks (if required.)	holes Site location map North arr	ow				
Existing and proposed water diversions	g piping Proposed system Treatment to	ank				
Ground slope	Soil logs					
Р	AGE 3					
 	G _{Fill extension with shoulders}	nt tanks				
Elevation of all 4 corners of the disposal field	System ties Backfill requirements					
Elevation Reference Point set at 0	elevation reference point above the original g	rade in inches				
Construction elevations	Disposal field cross section					

SEPTIC SYSTEM INSPECTION FORM
NAME: Permit #
ADDRESS:
FULL SYSTEM FIELD ONLY TANK ONLY PIPING PUMP STATION
OTHER:
FIRST INSPECTION DATE:
Elevation reference point in the correct location/correct height above ground per HHE-200.
Disposal field is in the correct location according to the HHE-200 form/ERP.
Vegetation has been cut and removed in the disposal field area. (footprint & fill extensions)
Disposal field and backfill extensions has been roughened.
Transitional horizon has been established. (footprint & fill extensions)
Bottom of the disposal field at the correct elevation.
Erosion and sedimentation control measures are in place.
SECOND INSPECTION DATE:
Disposal field is in the correct location according to the HHE-200 form/ERP.
Stone is correct size, clean.
Pipes, correct # of proprietary devices are in place, level and at the correct elevation according
to the HHE-200.
2 " of compressed hay or filter fabric overlapped 6" in place.
Backfill material correct according to HHE-200/Rules/manufacturers specs.
Septic tank level, baffles in place, filter if required, risers, inlet pipe ½ per foot,
outlet pipe 1/8 per foot, all piping cemented.
Pump tanks/holding tanks have visible-audible alarm, separate circuits, working float switches.
Curtain drains, diversion ditches, berms outlined on the design in correct location.
LPI SIGNATURE: DATE: DATE:

6

MINIMUM LOT SIZE

MINIMUM LOT SIZE RULES

144 CMR 243

SUMMARY

These rules describe the requirements for minimum lot sizes and for waivers to the Minimum Lot Size Law, 12 MRSA § 4807.

BASIS STATEMENT: These Rules provide minimum State requirements for minimum lot sizes for developments using onsite subsurface wastewater disposal to assure environmental sanitation and safety. These Rules are intended to complement municipal planning, zoning, and land use control.

EFFECTIVE DATE: August 1, 2005 AUTHORITY: Title 12 MRSA § 4807

Department of Health and Human Services Maine Center for Disease Control and Prevention Division of Environmental Health 11 State House Station Augusta, Maine 04333-0011 Telephone (207) 287-5689

Appropriation 014-10A-2426-012-2658

Nondiscrimination Notice

In accordance with Title VI of the Civil Rights Act of 1964, as amended by the civil Rights Restoration Act of 1991 (42 U.S.C. 1981, 2000e et seq.) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), the Age Discrimination Act of 1975, as amended (42 U.S.C. 6101 et seq.), Title II of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.), and Title IX of the Education Amendments of 1972, the Maine Department of Human Services does not discriminate on the basis of sex, color, national origin, disability or age in admission or access to or treatment or employment in its programs and activities



1000.1.1 Local Plumbing Inspector Approval: "A lot of less than the size required in §4807-A may be used for subsurface wastewater disposal if approved in writing by the duly appointed Local Plumbing Inspector for that municipality or unorganized territory, providing that the lot in question:

- has a current Application for Subsurface Wastewater Disposal (HHE-200) form, or equal, pursuant to rules of the Department, and
- can meet the provisions of a "First Time" subsurface wastewater disposal system, requiring no variances, and
- the system is not an engineered disposal system.

1000.4 Single family lots of record: This Code shall not apply to any lot which prior to January 1, 1970, was specifically described as an identifiable and separate lot either in the instrument conveying such lot to the then owner or in a valid and enforceable agreement for purchase and sale or was shown on a plan recorded in accordance with law, prior to January 1, 1970; provided that contiguous undeveloped lots in the same ownership on or after October 3, 1973 shall be considered as one lot for purposes hereof. **1000.6 Existing structures:** This Code does not apply to any **structure** in existence and in place on or before October 3, 1973, which then or theretofore disposed of wastes by means of subsurface wastewater disposal; except that no person shall reduce the size of the lot upon which such structure is located to a size or frontage less than that allowed in Section 1001.1. The division of a lot upon which a number of such structures existed on or before October 3, 1973, into a number of lots not exceeding the number of structures, with one or more structures on each new lot is not subject to this Code, if the size of the lot, and/or the frontage has not been reduced since October 3, 1973. **1001.1.1 Single-family dwelling units:** A lot on which a single-family dwelling unit is located shall contain at least 20,000 square feet. If the lot abuts a lake, pond, stream, river, or tidal area, it shall have a minimum frontage of 100 feet on the water body and any greater frontage required by local zoning. For purposes of this Code, <u>a single-family residential unit shall be</u> <u>determined to be 300 gallons per day of wastewater</u>.</u>

LAKE TITICACA


NO WAIVER TO THE MINIMUM LOT SIZE IS NEEDED

MINIMUM LOT SIZE STATES: 300 GALLONS AND 100 FEET FRONTAGE PER RESIDENTIAL STRUCTURE IRREGARDLESS OF THE NUMBER OF BEDROOMS



5 BEDROOM = 450 GPD , DLS (U/ TEFELT PEF 30 CLLCLS and FELT OF TRONTAGE TOR EVENT 300 CD

LOT = 20,000 SQUARE FEET

ON A 6.5 ACRE LOT CREATED AND RECORDED IN 1955

LOT HAS 430 FEET OF LAKE FRONTAGE DIMENSIONS ARE 430 FEET WIDE X 658.465 FEET DEEP

10 ROOM MOTEL WITH PRIVATE BATHS

30 SEAT RESTAURANT SERVING 3 MEALS PER DAY – FULL SERVICE

6 EMPLOYEES AND NO SHOWERS

(EMPLOYEES WILL BE STINKING AFTER THE FIRST DAY, THEY REALLY SHOULD HAVE A SHOWER)

QUESTIONS

1) IS THIS LOT EXEMPT FROM THE MINIMUM LOT SIZE LAW?

2) IF NOT, CAN THE INTENDED USE BE DONE WITHOUT A WAIVER?

3) WHAT IS THE DESIGN FLOW?

4) WHAT WOULD THE SQUARE FOOTAGE OF THE DISPOSAL AREA BE?

CALCULATIONS

MOTEL : 10 ROOMS @ 100 GPD PER ROOM = 1000GPD

RESTAURANT: 30 SEATS @ 30 GPD PER SEAT = 900 GPD

STAFF: 6 EMPLOYEES @ 12 GPD PER EMPLOYEE = 72 GPD

TOTAL: 1,972 GPD



MINIMUM LOT SIZE

1,972 **DIVIDED BY** 300 = 6.573

6.573 X 100 = 657.3 FEET OF SHORELINE

6.573 X 20,000 = 131,460 SQUARE FEET OF LOT AREA OR 131,460 DIVIDED BY 43,560 = 3.018 ACRES

THE LOT LACKS SHORELINE LENGTH BUT IT'S LARGE ENOUGH

SEPTIC DISPOSAL FIELD

1 C SOILS ---- 4.1

1000 GPD X 4.1 = 4,100 SQUARE FEET

900 GPD X 1.8 = 1,620 X 4.1 = 6,642 SQUARE FEET

72 GPD X 4.1 = 295.2 SQUARE FEET

TOTAL: 11,037.2 SQUARE FEET

PERCENT SLOPE VS DEGREES OF SLOPE (DEGREES OF SLOPE IN RED)

PERCENT SLOPE = AMOUNT OF VERTICAL RISE OR FALL OF THE LAND SURFACE PER 100 ' OF HORIZONTAL DISTANCE

FORMULA: (RISE OVER RUN) X 100 = % SLOPE

DEGREE OF SLOPE IS BASED ON THE 360 DEGREE CIRCLE

FLAT GROUND SURFACE = 0%





SEASONAL CONVERSION



AND YOU....

10-144

Chapter 241

STATE OF MAINE

SUBSURFACE WASTEWATER DISPOSAL RULES



DEPARTMENT OF HEALTH & HUMAN SERVICES MAINE CENTER FOR DISEASE CONTROL & PREVENTION DIVISION OF ENVIRONMENTAL HEALTH 11 STATE HOUSE STATION AUGUSTA, MAINE 04333

EFFECTIVE DATE: January 18, 2011

Appropriation 014-10A-2426-012-2658



Chapter 241

STATE OF MAINE

SUBSURFACE WASTEWATER DISPOSAL RULES



DEPARTMENT OF HEALTH & HUMAN SERVICES MAINE CENTER FOR DISEASE CONTROL & PREVENTION DIVISION OF ENVIRONMENTAL HEALTH 11 STATE HOUSE STATION AUGUSTA, MAINE 04333

EFFECTIVE DATE: August 3, 2015

Appropriation 014-10A-2426-012-2658

10-144

Chapter 241

STATE OF MAINE

SUBSURFACE WASTEWATER DISPOSAL RULES



DEPARTMENT OF HEALTH & HUMAN SERVICES MAINE CENTER FOR DISEASE CONTROL & PREVENTION DIVISION OF ENVIRONMENTAL HEALTH 11 STATE HOUSE STATION AUGUSTA, MAINE 04333

EFFECTIVE DATE: August 3, 2015

10-144

Chapter 242

STATE OF MAINE RULES FOR CONVERSION OF SEASONAL DWELLING UNITS INTO YEAR-ROUND RESIDENCES IN THE SHORELAND ZONE



DEPARTMENT OF HEALTH & HUMAN SERVICES MAINE CENTER FOR DISEASE CONTROL & PREVENTION DIVISION OF ENVIRONMENTAL HEALTH 11 STATE HOUSE STATION AUGUSTA, MAINE 04333

EFFECTIVE DATE: JANUARY 7, 2011

Appropriation 014-10A-2426-012-2658

Requires 2 separate permits



SUBSURFA	CE WAST	EWATER DISPOSAL ST	STEWAFFLICA	HON	(207) 287-5672 Fax: (207) 287-4172	
	PROPERTY	LOCATION	>> CAU	TION: LPI AP	PROVAL REQUIRED <<	
City, Town, or Plantation	Windham		Tours (City		Decenii #	
Street or Road	15 Lake Ro	bad	Date Permit Issued	/ / Fee:	S Double Fee Charged []	
Subdivision, Lot #	n/a	1	·		LPI #	
OWNE	R/APPLICA	NT INFORMATION	Local Plumbing Insp	ector Signature	- Owner - Town - State	
Name (last, first, M	11)	Owner	The Contraction M	Discourse and the second		
Mailing Address	James Smith	Applicant	Permit is issued by	the Local Plumbir	in System shall not be installed until a ing Inspector. The Permit shall	
of .	Acma Realty Br		authorize the owne	r or installer to inst	tall the disposal system in accordance	
Deutine Tel #	(207) 122 A	E 67	with this application	Tay Man #	ubsurface Wastewater Disposal Rules.	
Daytime Tel. #	(207) 123-4	007	Mullicipal			
I state and acknowled my knowledge and u and/or Local Plumbin	dge that the inform nderstand that any ig Inspector to den	NI STATEMENT iation submitted is correct to the best of falsification is reason for the Department y a Permit.	I have inspecte with the Subsur	d the installation author face Wastewater Dispo	sal Rules Application. (1st) date approved	
Sig	nature of Owner or	r Applicant Date	Local	Plumbing Inspector Sig	gnature (2nd) date approved	
		PER	MIT INFORMATION	1		
TYPE OF AP	PLICATION	THIS APPLICATION R	EQUIRES	DISPO	DSAL SYSTEM COMPONENTS mplete Non-engineered System	
2. Replacement	nt System	12. First Time System Variance		2. Prin	nitive System (graywater & alt. toilet)	
Type replaced: 1	rench	a. Local Plumbing Inspector	Approval	3. Alte	ernative Toilet, specify:	
Year installed: _	/- 1965	D. State & Local Plumbing In: State & Local Plumbing	spector Approval	5. Hol	ding Tank, gallons	
3. Expanded S	System	a. Local Plumbing Inspector	Approval	☐ 6. Nor ☐ 7. Sep	n-engineered Disposal Field (only) parated Laundry System	
D. ≥25% Exp	ansion al System		speciol Apploval	mplete Engineered System (2000 gpd or more)		
5. Seasonal C	onversion	4. Minimum Lot Size Variance	nit			
SIZE OF PF	ROPERTY	DISPOSAL SYSTEM TO S	SERVE			
	SQ. FT.	1. Single Family Dwelling Unit, N	, No. of Bedrooms: 3 TYPE OF WATER SUPPLY			
0.65	ACRES	3. Other:	of Units:	Well 2. Dug Well 3. Private		
		(specify)	- Constant A Public 5 Other			
		DESIGN DETAILS (S)	STEM LAYOUT SH	HOWN ON PAC	GE 3)	
TREATMEN	NT TANK	DISPOSAL FIELD TYPE &	SIZE GARBAGE D	SPOSAL UNIT	DESIGN FLOW	
✓ 1. Concrete		1. Stone Bed 2. Stone Tren	nch 🔽 1. No 🗖 2.	Yes 3. Maybe	270 college per day	
b. Low Profile		3. Proprietary Device	If Yes or Maybe,	specify one below:	BASED ON:	
2. Plastic		b. regular load d. H-20 lo	ad b tanks in	☐ 1. Table 4A (dwelling unit(s)) ☐ 2. Table 4C (other facilities)		
CAPACITY: 100	0 GAL.	4. Other:	c. increase in t	ank capacity	SHOW CALCULATIONS for other facilite	
	SIGN CLASS		n. ft. d. Filter on Tar	nk Outlet	3 BR SFD	
PROFILE COND	ITION	DISPOSAL FIELD SIZING	EFFLUENT/EJEC	CTOR PUMP	ATTACH WATER METER DATA	
5 / C		1. Medium2.6 sq. ft. / gpd	. May Be Require	d	LATITUDE AND LONGITUDE	
Depth 42	ole #	2. MediumLarge 3.3 sq. f.t /	gpd . Required		at center of disposal area	
of Most Limiting S	oil Factor	3. Large4.1 sq. ft. / gpd	Specify only for engineered systems:		Lon. <u>d</u> <u>m</u> s	
-					in g.p.s, state margin of error.	
		SITE EVA	LUATUR STATEME			
I certify that on _	06/15/11 _	(date) I completed a site en	valuation on this prope	rty and state that	the data reported are accurate and	
ulat the propose	a system is in	compliance with the state of M	900		Nues (10-144A OWR 241). 3/16/11	
5	Site Evaluator	r Signature	SEI	#	Date	
John Doe			(207) 765-43	21 jdo	be@isp.com	
5	Site Evaluator	r Name Printed	Telephone	Number	E-mail Address	
Note : Changes	to or deviatio	ns from the design should be co	onfirmed with the Site E	Evaluator.	Page 1 of 3 HHE-200 Rev. 08/2011	

Maine Dept.Health & Human Services

SECTION 1. DEFINITIONS

H. Seasonal dwelling:

A dwelling that existed on December 31, 1981, and which was not used as a principal or year-round residence during the period from 1977 to 1981. (30-A M.R.S. § 4201).

F. <u>Principal dwelling or year-round residence:</u>

G.

A dwelling that existed on December 31, 1981, and that was used as a principal or yearround residence during the period from 1977 to 1981.

Evidence of use as principal or year round residence includes, but is not limited to, (i) the listing of that residence as an occupant's legal residence for the purpose of either voting, filing a state tax return, or automobile registration; or (ii) occupancy of that dwelling for a period exceeding 7 months in any calendar year. (30-A M.R.S. §4201).

SECTION 3. SEASONAL CONVERSION PERMIT

C. Holding tanks prohibited:

A seasonal conversion permit may not be approved if a holding tank is used as a means of waste water disposal or storage. (30-A M.R.S. §4215 (2)).

D. <u>Permit for seasonal conversion</u>:

The LPI must issue a permit for conversion of a seasonal dwelling to a year-round or principal dwelling if one of the following requirements is met:

(1) Existing legal system:

A subsurface waste water disposal application, dated after July 1, 1974, exists, showing that the dwelling's system substantially complies with the Maine Subsurface Wastewater Disposal Rules (10-144 CMR 241) in effect at the time of application, and applicable municipal ordinances. The system must have been installed with the required permit and a certificate of approval must have been issued;

(2) Legal replacement system:

A replacement for an existing onsite wastewater disposal system has been installed, so that it complies with Section C of the e Rules and applicable municipal ordinances; or

SECTION 4

(3) <u>Public sewer available:</u>

The dwelling unit's waste water is connected to an approved sanitary sewer system.

SECTION 4. SUBSTANTIAL COMPLIANCE

A. General:

A system is deemed to be in substantial compliance with these rules, providing the requirements in this section are met.

B. Municipal ordinances: The system meets applicable municipal ordinances;

C. Disposal field: The disposal field meets the requirements of Table A;

- D. Septic tank: The septic tank meets the sizing requirements of Table B;
- E. Site conditions: The site meets the siting requirements in Table C; and

F. Setbacks: The setbacks meet or exceeds the minimum horizontal setback distances in Table D.

TABLE A

MINIMUM PERMITTING CONDITIONS AND MINIMUM DESIGN REQUIREMENTS NOTE: "NOT ALLOWED" INDICATES THAT A SEASONAL CONVERSION IS NOT ALLOWED.

Limiting Factors							
Soil Profiles [b]	AI	AII	AIII	В	С	D	Е
1, 2, 3, 4, 7, 8, 9	Not Allowed	Not Allowed	24 [a]	12 [a]	12 [a]	Not Allowed	Not Allowed
5.6	Not Allowed	Not Allowed	24 [a]	24 [a]	24 [a]	Not Allowed	Not Allowed

SOIL DATA & DESIGN CLASS PROFILE CONDITION
At Observation Hole # Depth" Of Most Limiting Factor

SUBSURFA	CE MASI	EWATER DISPOSAL S	1012		ION		207) 287-5672 Fax: (207) 287-417	
	PROPERTY	LOCATION		>> CAU	TION: LPI A	PPROVAL RE	QUIRED <<	
or Plantation	Windham		Tow	n/City		Permit #	Double Fee Charged []	
Street or Road	15 Lake R	oad	Dat	Date Permit Issued/_/ Fee: \$			Double Fee Charged []	
Subdivision, Lot #	n/a						LP.L #	
OWNE	R/APPLICA	NT INFORMATION	1 4	ocal Plumbing Inspe	ctor Signature		Owner Town State	
Name (last, first, N	6)	Owner Owner	-	the state of the late	and the second second	and Rootston alkald	and the local allocation of the	
Mallon Address	terror Barrie	L Applicant	1 1	ermit is issued by	the Local Plumi	and inspector T	he Permit shall	
of	James omer	1	- m	sthorize the owner	or installer to in	stall the disposa	system in accordance	
Owner/Applicant	Acme Realty 8	ox 77 Windham ME 04092	wi	th this application	and the Maine	Subsurface Was	lewater Disposal Rules.	
Daytime Tel. #	(207) 123-4	567		Municipal 1	Tax Map #	Lot #		
OWN I state and acknowle my knowledge and u and/or Local Plumbic	ER OR APPLICA dge that the inform indenstand that any inspector to der	NT STATEMENT vation submitted is correct to the best of y talafication is reason for the Department ny a Permit.	-	I have inspected with the Subsurf	CAUTION: INSPE The installation auth ace Wastewater Dis	CTION REQUIRED lorized above and fou posal Rules Application	nd it to be in compliance in. (1st) date approved	
59	nature of Owner of	r Applicant Date		Local	Flumbing Inspective	Signature	(Ztud) date approved	
THE OF T	NO IN A TUDO	PE	RMITI	NFORMATION		BORAL EVENING	COMPONENTE	
TTPE OF AF	PLICATION	THIS APPLICATION	REQUIR	Eð	DIS	omplete Non-engl	neered System	
2. Replaceme	nt System	2. First Time System Variano			2.P	rimitive System (g	raywater & alt. toilet)	
Type replaced	rench	a Local Plumbing Inspecto	or Approv	(P)		4. Non-engineered Treatment Tank (only)		
Year installed:	- 1965	3. Replacement System Varia	ance	getons Approval				
A System A System A System B State & Local Plumbing Inspector B State & Local Plumbing Inspector B State & Local Plumbing Inspector			Approv	Approval spector Approval Bector Approval Approval Bector Approval Bector Approval Be				
4. Experiment	al System	4. Minimum Lot Size Variance	e	9. Engineered Treatment Tank (only)				
5. Seasonal Conversion 5. Seasonal Conversion Permit			nt	at 10. Engineered Disposal Field (only)				
SIZE OF PROPERTY DISPOSAL SYSTEM TO S			SERVE	2 12 Miscellaneous Components				
0.85	SQ. FT.	1. Single Family Dwelling Unit 2. Multiple Family Dwelling, N	l, No. of E lo. of Unit	No. of Bedrooms: 3 of Units: 1. Drilled V		YPE OF WATER	UPPLY	
SHORELAN	ND ZONING	(specify)				nd Well 2 Dug	ig Well D. Private	
✓ Yes	No .	Current Use Seasonal Ye	ar Round	Undeveloped	4. Publ	ic 5. Other		
		DESIGN DETAILS (S	SYSTE	M LAYOUT SH	IOWN ON PA	(GE 3)		
TREATMEN	NT TANK	DISPOSAL FIELD TYPE	& SIZE rench		SPOSAL UNIT	1	DESIGN FLOW	
a. Regular		3. Proprietary Device		If Yes or Maybe, specify one below:		N. 270	gallons per day	
2. Plastic		a. cluster array C. Linear	f load			1. Table 4	ile 4A (dwelling unit(s))	
		ther.		C increase in ta	ank capacity	SHOW C	(other facilities) ALCULATIONS for other faci	
		SI	lin.ft.	d. Filter on Tan	k Outlet	3 BR SFD		
SOIL DATA & DE	SIGN CLASS	DISPOSAL FIELD SIZING	, ,		TOR PUMP	3. Section ATTACH V	4G (meter readings) (ATER METER DATA	
5 / C	60	Medium-2 6 sq. ft. / gpd	1.4	May the Required		LATI	UDE AND LONGITUDE	
aLObservation H	olé #	Medium-Large 3.3 sq. f1	t/gpd	Required		int - at	center of disposal area	
of Most Limiting S	al Factor	Large4.1 sq. ft. / gpd		Specity only for engine	eered systems:	Lon.	dms	
Extra Large-5.0 sq. ft. / gpd DOSE palons		if g.p.s. state margin of error						
		SITE EV	ALUAT	OR STATEME	NT			
that the propose	d system is i	ate) I completed a site n compliance with the State of	evaluati Maine S	ion on this proper Subsurface Wast	ty and state th water Disposa	at the data repo I Rules (10-144	rted are accurate and A CMR 241).	
	te Euchaste	Clonature	9	00 85 a		/0/16/11	- a	
Site Evaluator Signature				SE # Date		Date		
John Dec	John Doe				24	loo Dian any	10	

TABLE A

MINIMUM PERMITTING CONDITIONS AND MINIMUM DESIGN REQUIREMENTS NOTE: "NOT ALLOWED" INDICATES THAT A SEASONAL CONVERSION IS NOT ALLOWED.

			Limiting Factors	-			
Soil Profiles [b]	AI	AII	AIII	В	С	D	E
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5,6	Not Allowed	Not Allowed	24 [a]	24 [a]	24 [a]	Not Allowed	Not Allowed

SOIL DATA & DESIGN CLASS PROFILE CONDITION	
At Observation Hole # Depth" Of Most Limiting Factor	

2 9	DRODERTY	LOCATION	PP CALL	TION: LOLAD	DDOVAL DE		
City Town	PROPERTY	LOCATION	>> CAU	TION: LPI AP	PROVAL RE	QUIRED <<	
or Plantation	Windham		Town/Thy Dennit				
Street or Road	15 Lake R	oad	Date Permit Issued/_/ Fee: \$			Double Fee Charged []	
Subdivision, Lot # n/a						LPL	
OWNE	R/APPLICA	NT INFORMATION	Local Plumbing Inspi	octor Signature			
Vame (last, first, M	1)	Owner -				Owner Town State	
Jones, Robert A.		Applicant	The Subsurface W	astewater Dispos	al System shall	not be installed until a	
Mailing Address	James Smith	15. Jan 19	Permit is issued by	the Local Prumbs	tal the discose	ne Permit enall	
Owner/Applicant	Acree Realty 8	ox 77 Windham ME 04092	with this application	and the Maine S	ubsurface Wash	lewater Disposal Rules.	
Davtime Tel #	(207) 123-4	567	Municipal	Tax Map #	Lot #		
		LT STATUMENT		CAUTION: INSPECT	TON REQUIRED		
I state and acknowler my knowledge and u and/or Local Plumbin	ge that the inform identiand that any g inspector to der	valion submitted is correct to the best of tabification is reason for the Department by a Permit.	I have inspected with the Subsur	I the installation author lace Wastewater Dispo	rzed above and fou osal Rules Applicatio	nd it to be in compliance on. (1st) date approved	
59	nature of Owner of	r Appicant Date	Local	Plumbing Inspector Se	postura	(Zrud) date approved	
		PERN	IT INFORMATION		10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		
TYPE OF AP	PLICATION	THIS APPLICATION RE	QUIRES	DISP	OSAL SYSTEM	COMPONENTS	
1. First Time S	ystem	1. No Rule Variance		2. Priz	mitive System (g	rigineered oysiem (graywater & alt. toilet)	
Z. Replacement	nt System	2. Pirst Time System Variance	Invoval	3. AM	ernative Toilet, sp	pecify.	
Year installed	4. 1965	 B. State & Local Plumbing Inst 	spector Approval 4. Non-engineered Treatment Tank (onl				
3. Expanded S	vstem	3. Replacement System Variance		sposal Field (only)			
B. State & Local Plumbing in			ector Approval	7. Set	parated Laundry	System ad System (2000 and or mo	
4. Experimenta	al System	4. Minimum Lot Size Variance	9. Engineered Treatment Tank (only)				
5. Seasonal C	onversion	5. Seasonal Conversion Permit	at 10. Engineered Disposal Field (only)				
SIZE OF PF	IOPERTY	DISPOSAL SYSTEM TO SE	RVE	112 Mi	scellaneous Con	nponents	
	SO. FT.	1. Single Family Dwelling Unit, No	o. of Bedrooms: 3	TY	PE OF WATER S	SUPPLY	
0.85	ACRES	- 3. Other	Units.			West Dr. Drivete	
SHORELAN	D ZONING	(specify)					
Yes Yes	L No	Current Use Seasonal Year P	tound Undeveloped	4. Public	5. Other	er	
		DESIGN DETAILS (SY	STEM LAYOUT SH	IOWN ON PAG	SE 3)		
TREATMEN	IT TANK	1 Stope Bed 2 Stope Trend	GARBAGE DI	SPOSAL UNIT		DESIGN FLOW	
a. Regular		3. Proprietary Device	If Yes or Maybe, specify one belo		270	gallons per day	
12. Plastic		a. cluster array C. Linear	a. multi-compa	rtment tank	EI 1 Table 44	ED ON: 5 (dwelling unit(s))	
		b. regular load 🔲 d. H-20 loa	ad btanks in series		2 Table 40	2. Table 4C(other facilities)	
	the second se	S Die t Oin	f. I d Elter on Tar	ank capacity ik Outlet	3 BR SED		
SOIL DATA & DE	SIGN CLASS	DISPOSAL FIELD SIZING			D 3 Section	AC (mater readings)	
PROFILE COND	TION			TOR FORF	ATTACH WATER METER DATA		
5 /C	6.0	Medium2.6 sq. ft. / gpd	May Be Required		LATIT	TUDE AND LONGITUDE	
aLObservation Hi	lé # *	Medium-Large 3.3 sq. ft / g	pd 🗹 Required		at at a	center of disposal area	
of Most Limiting Soil Factor Extra Large5.0 sq. ft. / gpd		Large4.1 sq. ft. / gpd	Specify only for engin	seered systems:	Lon.	_dms	
		Extra Large5.0 sq. ft. / gpd	gpd DOSEgalona			margin of error:	
		SITE EVAL	UATOR STATEME	INT			
_	_	ate) I completed a site eva	luation on this prope	rty and state that	the data repo	rted are accurate and	
hat the propose	d system is i	n compliance with the State of Mai	ne Subsurface Wast	ewater Disposal	Rules (10-144	A CMR 241).	
			900	06	5/16/11		
S	lite Evaluato	r Signature	SE I		Date		
John Doe			(207) 765-43	21 jdo	e@isp.cor	n	
	the Propherster	Alarma Delated	Teleshees	Al with the	F	- 1 A delate a c	

TABLE A

MINIMUM PERMITTING CONDITIONS AND MINIMUM DESIGN REQUIREMENTS NOTE: "NOT ALLOWED" INDICATES THAT A SEASONAL CONVERSION IS NOT ALLOWED.

Limiting Factors							
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5,6	Not Allowed	Not Allowed	24 [a]	24 [a]	24 [a]	Not Allowed	Not Allowed

SOIL DATA & DESIGN CLASS PROFILE CONDITION 3 / AII			
At Observation Hole #			
Depth"			
Of Most Limiting Factor			
_			

TABLE A

MINIMUM PERMITTING CONDITIONS AND MINIMUM DESIGN REQUIREMENTS NOTE: "NOT ALLOWED" INDICATES THAT A SEASONAL CONVERSION IS NOT ALLOWED.

Limiting Factors							
Soil Profiles [b]	AI	AII	AIII	В	С	D	Е
1, 2, 3, 4, 7, 8, 9	Not Allowed	Not Allowed	.4 [a]	12 [a]	12 [a]	Not Allowed	Not Allowed
5,6	Not Allowed	Not Allowed	24 [a]	24 [a]	24 [a]	Not Allowed	Not Allowed

SOIL DATA & DESIGN CLASS	5		
PROFILE CONDITION			
<u> </u>			
At Observation Hole #			
Depth"			
Of Most Limiting Factor			
_			

[a.] Alternately, may meet substantial compliance criteria in Table C.

D. Septic tank: The septic tank meets the sizing requirements of Table B;

TABLE BSEPTIC TANK CAPACITY PER DWELLING UNIT

Number of bedrooms per dwelling	Minimum septic tank liquid capacity
unit	
1 Bedroom	750 gallons
2 Bedrooms	750 gallons
3 Bedrooms	1,000 gallons
4 Bedrooms	1,000 gallons
5 Bedrooms	1,250 gallons or greater
For each additional bedroom	250 gallons per bedroom

CORRECT SIZE TANK FOR # OF BEDROOMS

E. Site conditions: The site meets the siting requirements in Table C; and

TABLE C SUBSTANTIAL COMPLIANCE FOR SITE CONDITIONS

Depth to restrictive layer/bedrock	15 inches			
Depth to Seasonal High Groundwater Table	9 inches			
Maximum slope	25 % grade			
SOIL DATA & DECK PROFILE CONDITIO / At Observation Hole # Depth16" Of Most Limiting Factor	N CLASS DN <u>1</u> or			



E. Site conditions: The site meets the siting requirements in Table C; and

TABLE C SUBSTANTIAL COMPLIANCE FOR SITE CONDITIONS

Depth to restrictive layer/bedrock	15 inches			
Depth to Seasonal High Groundwater Table	9 inches			
Maximum slope	25 % grade			
SOIL DATA & DESIG PROFILE CONDITIO / At Observation Hole # Depth16" Of Most Limiting Factor	EN CLASS DN <u></u>			

[a.] Alternately, may meet substantial compliance criteria in Table C.

F. Setbacks: The setbacks meet or exceeds the minimum horizontal setback distances in Table D.

TABLE D ALLOWED SETBACKS FOR SEASONAL CONVERSIONS WITHIN THE SHORELAND ZONE

-							
ſ	Site features vs. disposal system	Disposal Fields			Treatment Tanks		
-	components of various sizes						
		Less 1,000 to Over			Less	2 000 and	
		than 4 000	2000 and	2,000	than 4 000	2,000	2,000 gpa
		1,000	gpa	gpa	1,000	gpa	
┝	Welle with water wears of 2000 ar	gpa	200 feet	200 fact	gpa 150 feet	150 faat	150 fact
	wells with water usage of 2000 or	300	300 leet	300 leet	150 leet	150 leet	150 leet
	more gpd or public water system wells		400 (040 (50 (50 ()	50 ()
-	Potable vvater Supply	80 feet	160 feet	240 feet	50 feet	50 feet	50 feet
_	Water supply line	10 feet	10 feet	10 feet	10 feet	10 feet	10 feet
	Water body/course, major	80 feet	160 feet	240 feet	40 feet	40 feet	40 feet
	Water body/course, minor	40 feet	80 feet	120 feet	40 feet	40 feet	40 feet
	Drainage ditches	20 feet	40feet	60 feet	20 feet	20 feet	20 feet
	Edge of fill extension Coastal	25 feet	25 feet	25 feet	25 feet	25 feet	25 feet
	wetlands, wetlands of special						
	significance, significant vernal pools						
	Slopes greater than 3:1	10 feet	14 feet	20 feet	N/A	N/A	N/A
	No full basement [e.g. slab, frost wall,	15 feet	28 feet	40 feet	8 feet	14 feet	20 feet
	columns]						
	Full basement [below grade	20 feet	30 feet	40 feet	8 feet	14 feet	20 feet
	foundation]						
ſ	Property lines	10 feet	14 feet	20 feet	8 feet	14 feet	20 feet
	Burial sites or graveyards, measured	25 feet	25 feet	25 feet	25 feet	25 feet	25 feet
	from the toe of the fill extension						
ſ	Stormwater infiltration systems	80 feet	160 feet	240 feet	50 feet	50 feet	50 feet
Ī	Wetponds, retention ponds, and	50 feet	100 feet	150 feet	50 feet	50 feet	50 feet
	detention basins (excavated below						
	grade); Soil filters, underdrained						
	swales, underdrained outlets, and						
	similar structures						
Ī	Stormwater detention basins (basin	20 feet	40 feet	60 feet	20 feet	20 feet	20 feet
	bottom at or above predevelopment						
	grade)						

THERE ARE NO PROVISIONS FOR VARIANCES IN THE **RULES FOR** SEASONAL **CONVERSION**

WATER BODY





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WATER BODY



WATER BODY



HAPPY HALLOWEEN





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