REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form must be attached to an application (HHE-200) for any replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-200 and may approve the Request if all of the following requirements are met.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 1906.0)

2. The replacement system is determined by the Site Evaluator to be the most practical method to treat and dispose of the wastewater.

3. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION		Town of	Portland (Peaks Island)
Permit No		Date Permit Is	sued
Property Owner's Name:	Joanne Maclsac		_Tel. No.: _ <u>(617)504-0303</u>
System's Location:	499 Island Avenue (Map 90, Lot Q-1)		
Property Owner's Address: _	22 Coolidge Road		
(if different from above)	Medford, Ma. 02155		

SPECIFIC INSTRUCTIONS TO THE:

LOCAL PLUMBING INSPECTOR (LPI):

If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

SITE EVALUATOR:

If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement Variance Request with your signature on reverse side of form.

PROPERTY OWNER:

If has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. The Site Evaluator has considered the site/soil restrictions and has concluded that a replacement system in total compliance with the Rules is not possible.

PROPERTY OWNER

I understand that the proposed system requires a variance to the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform and duties as may be necessary to evaluate the variance request.

LOCAL PLUMBING INSPECTOR

I, ______, the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement Variance Request, the Application, and my on-site investigation, I (approve, disapprove) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in **Comments** Section below and return to the applicant.

Comments:

LPI SIGNATURE

SIGNATURE OF OWNER

7 20, 2011

Replacement	System	Variance	Request

VARIANCE CATEGORY							VARIA REQUEST	
SOILS								
Soil Profile	Ground Wate	r Table						inches
Soil Condition	Restrictive Layer		,,			inches		
from HHE-200	Bedrock					inches		
SETBACK DISTANCES (in feet)	Disposal Fields		Septic Tanks			Disposal Fields	Septic Tanks	
From	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
Wells with water usage of 2000 or more gpd or public water system wells	300 ft	300 ft	300 ft	150 ft	150 ft	150 ft		
Private Potable Water Supply	100 ft [a]	200 ft	300 ft	50 ft	100 ft	100 ft		
Water supply line	10 ft	20 ft	25 ft [g]	10 ft	10 ft	10 ft [g]		
Water course, major -	100 ft [c]	200 ft [c]	300 ft [c]	100 ft	100 ft	100 ft		
Water course, minor	50 ft [d]	100 ft [d]	150 ft [d]	50 ft [d]	50 ft [d]	50 ft [d]		
Drainage ditches	25 ft	50 ft	75 ft	25 ft	25 ft	25 ft		
Edge of fill extension Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]		
Slopes greater than 3:1	10 ft [f]	18 ft [f]	25 ft [f]	N/A	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 ft	30 ft	40 ft	8 ft	14 ft	20 ft		
Full basement [below grade foundation]	20 ft	30 ft	40 ft	8 ft	i4 ft	20 ft	8'+-	5'+-
Property lines	10 ft [b]	18 ft [b]	20 ft [b]	10 ft [b]	15 ft [b]	20 ft [b]	6'	
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		

OTHER

3:1 slope required near property line, as necessary

2 3

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Footnotes: [a.] Private Potable water Supply setbacks may be reduced as prescribed in Chapter 7

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

[c.] Additional setbacks may be required by local Shoreland zoning.

[d.] Natural Resource Protection Act requires a 25 feet setback, on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.

[e] May not be any closer to a private potable water supply than the existing disposal field or septic tank. This setback may be reduced for single family houses with Department approval. See Section 702.3.

[f.] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field. [g.] See Section 1402.8 for special procedures when these minimum setbacks cannot be achieved.

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SITE EVALUATOR'S SIGNATURE

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (i does | does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

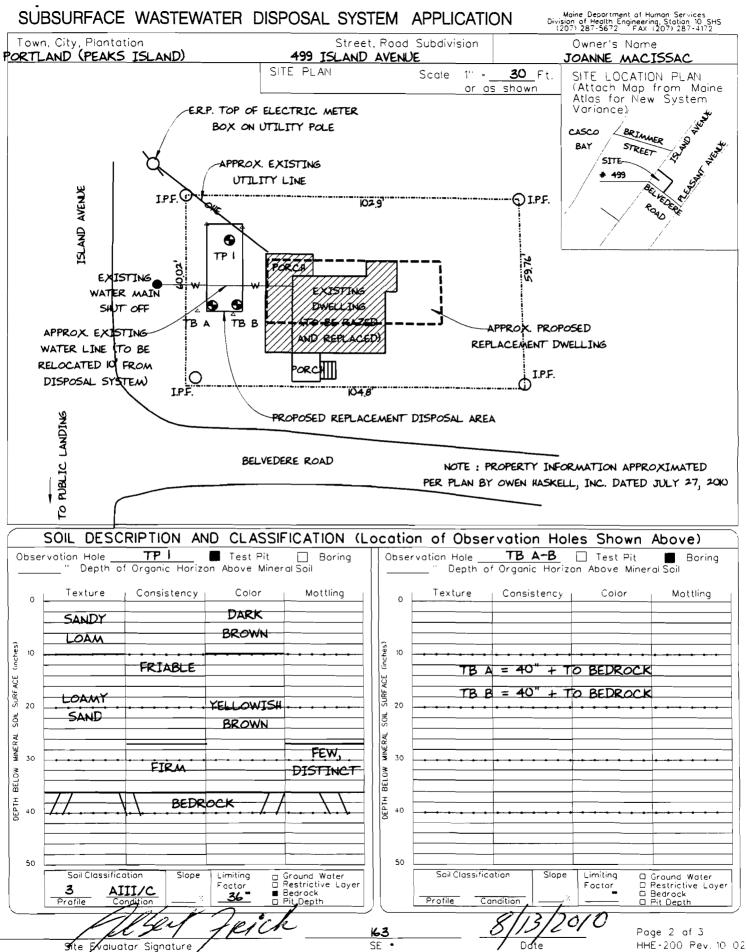
SIGNATURE OF THE DEPARTMENT

DATE

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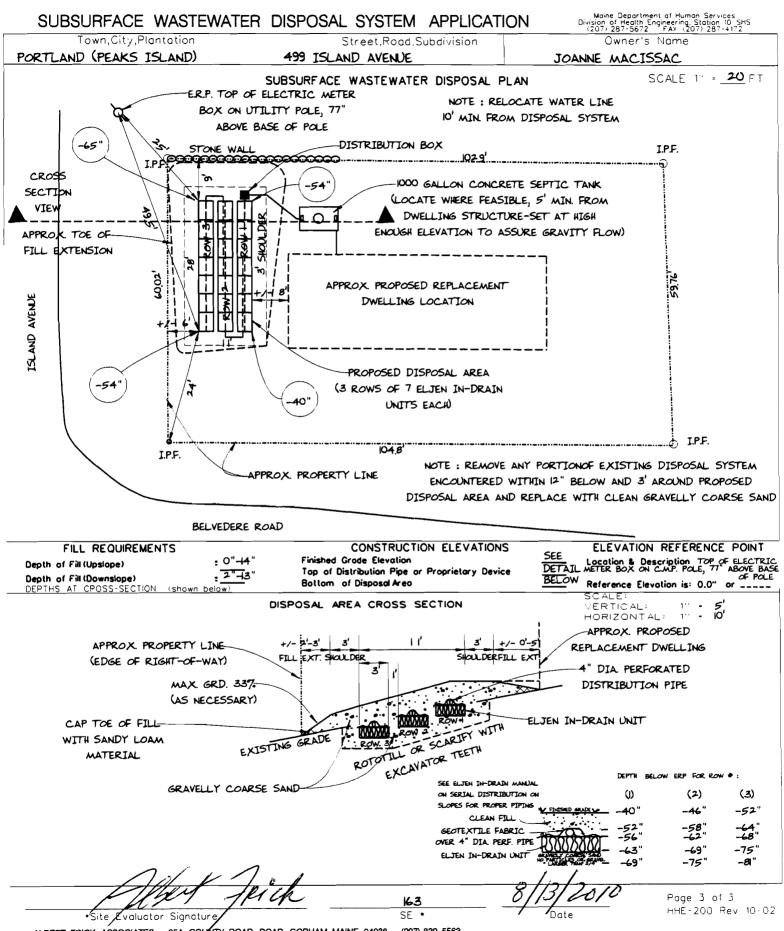
2010

SUBSURFA	ACE WAST	EWATER DISPOSAL S	SYSTEM	APPLICATION		Maine Department of Humon Services vision of Health Engineering, Station 10 SHS (207) 287-5672 FAX (207) 287-4172	
///////////////////////////////////////	PROPERTY L	OCÁTION////////////////////////////////////		> Caution: Permit Re		ach in Space Below <<	
City, Town, or Plantation		(PEAKS ISLAND)					
Street or Road	499 ISLAND) AVENI)E					
Subdivision, Lat •			The Subsu	urface Wastewater D	isposal Syst	em shall nat be installed until a	
777777777777777	ŃŃĖŔ⁄ÁPPĽIĆÁŇŤ		7			mbing inspector. The Permit shal the disposal system in accordanc	
lame (last, first, MI)		Owner JOANNE Applicant				rface Wastewater Disposal Rules.	
Address of							
Owner Applicant	22 COOLID MEDFORD,	GE ROAD					
aytime Tel. •	(617)504-03		<u> </u>	Municipal Tax Map	• 90 Lo		
Ŏ	wner or Applie					ns Required	
state and acknowledge by knowledge and unde		ted is correct to the best of	I have inspecte	d the installation outh	orized obove	ond found it to be in compliance	
ny knowledge and unde nd/ ir Local Plumbing Ir	stand that any spector to deny a p	perform is reason for the Department permit.	with the Subsu	rface Wastewater Disp	iosaiRules Ap	plication	
You /	ach	Fcb 20, 201				(1st) Date Appraved	
Signoture of C	wher/Applicant	Date	Loco	Plumbing Inspector Signal	ture	(2nd) Date Approve	
			AIT INFORMATI	<u>ON////////////////////////////////////</u>			
TYPE OF A	PPLICATION	THIS APPLIC	ATION REQUI	RES	DISP	OSAL SYSTEM COMPONENTS	
1. 🗍 First Tim		1. 🗌 No Rule Variance				1. ■ Complete Non-Engineered System	
2. 🗋 Replacen Type Replaced:_		2. 🗌 First Time Syste a. 🗋 Local Plumbing					
Yeor installed:		b. ☐ State & Local 3. Replacement System	Plumbing Inspector Approval 4. 🗆 Non-Engineered Treatment Tank (or				
3. ■ Expande a.■ Minor E	-	a. 🔳 Local Plumbing			ig Tank,Gallons Engineered Disposal Field (only)		
b. 🗌 Major E	•		Plumbing Inspector Approval 7 🗆 Separated Laundry System				
4. L Experime 5. Seasona	erimental System 4. 🗌 Minimum Lat Siz psonal Conversion 5. 🔲 Seasana: Conversion						
SIZE OF I	ROPERTY	DISPOSAL S'	STEM TO SE			neered Disposal Field (only) -treatment, specify:	
+/-6,80	■ sq. f	I I. Single Family Dwei	lling Unit, No.	of Bedrooms: <u>3</u>		llaneous components	
SHORELAN		2. Li Multiple Family Dw	•	Jnits:		TYPE OF WATER SUPPLY	
					1. □ Drilled Well 2. □ Dug Well 3. □ Prive 4. ■ Public 5. □ Other		
<u> </u>	■ No	Current Use ■ Seasonal					
TREATMEN	TANK	DISPOSAL FIELD TYPE &		GARBAGE DISPOSAL		DESIGN FLOW	
1, 🔳 Concrete		1. 🗌 Stone Bed 2. Stone Tr	ench 1.	No 3. 🗌 Mayt	be	270 gailons per da BASED ON:	
a.∎ Regula b.□ Low P		3. ■ Proprietory Device a.□Cluster array c.■Linea] Yes >> Specify o Multi-compartme		1. [] Toble 501.1 (dwelling unit(s)) 2. [] Toble 501.2 (other facilities	
2 🗋 Plastic	0.00	b.■Regular d.□H-20		□ matt compartme □tonks in		SHOW CALCULATIONS - for other facilities -	
3. DOther: CAPACITY_ K	())			□ Increase in tank □ Filter on tank o		EXISTING 2 BEDROOM	
CAPACITY_ N	00_gallons	SiZEOOB ■ sq. ft. 24 ELJEN IN-DRAIN UNITS		L FILER OF LUNK O		EXPANSION TO 3 BEDRO	
SOIL DATA & DE		DISPOSAL FIELD SIZING	EFFLUENT/EJECTOR PUMP		90 GALLONS PER DAY EACH		
PROFILE CONDIT		1. 🖾 Smoll · 2.0 sq.ft./gpd	1. Not required 3. Section 50			3. Section 503.0 (meter read ATTACH WATER-METER DATA	
AT Observation Ho		2. □ Medium - 2.6 sq.ft./gp 3. ■ Medium-Large - 3.3 sq	gpo 2. ■ May be required LATITUDE AND L sq.ft. gpd 3. □ Required at center af disc			LATITUDE AND LONGITUDE at center of disposal area	
Depth 36_ _'' Eler	vation_ -54 .''	4 🗌 Large - 4.1 sq.ft./gpd	d Specify only for engineered systems: Lat N.43 d 40			Lat N 43 d 40 m 50	
DF MOST LIMITING	SUIL FACTOR	5. 🗌 Extro-Lorge - 5.0 sq.f	-	DOSE: G	allons	if g.p.s., state margin of error	
Certify that on _ 5	//////////////////////////////////////	Completed a site evaluation	on this prope	erty and state tho	it the data	reported is accurate and tha	
roposed sytem is	in compliance	with the subsurface Wostewat	ter Disposal R	ules (10–144A CMR	741). 17	0/0	
	Moren	TRIVA	163 SE *	&			
	aluator Signatur	د /	SL "	/			
	RT FRICK		(207) 839-55		OMAINERR	C 044	

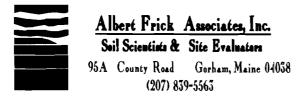


ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563

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PORTLAND (PEAKS ISLAND)

499 ISLAND AVENUE

JOANNE MACISSAC

TOWN

LOCATION

APPLICANT'S NAME

1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system Installer should contact Albert Frick Associates, Inc. 839-5563, if there are any questions concerning materials, procedures or designs. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems.

2) This application is intended to represent facts pertinent to the Rules only. It shall be the responsibility of the owner/applicant, system Installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and minimum lot size laws) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations. Prior to the commencement of construction/installation, the local plumbing inspector or Code Enforcement Officer shall inform the owner/applicant and Albert Frick Associates, Inc of any local ordinances which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Albert Frick Associates, Inc.'s liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations in effect at the time of preparation of this application.

3) All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based solely upon information provided by the owner/applicant and has been relied upon by Albert Frick Associates, Inc. in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties but not readily visible above grade should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.

4) Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter shall be connected in series to the proposed septic tank. Risers and covers should be installed over the septic tank outlet to allow for easy maintenance.

5) The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life.

6) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than every three years. All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion.

PORTLAND (PEAKS ISLAND)	499 ISLAND AVENUE	JOANNE MACISSAC
TOWN	LOCATION	APPLICANT'S NAME

7) The actual water flow or number of bedrooms shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed. If the system is supplied by public water or a private service with a water meter, the water consumption per period should be divided by the number of days to calculate the average daily water consumption [water usage (cu. ft.) x 7.48 cu. ft. (gallons per cu. ft.) \div (# of days in period) = gals per day].

8) The general minimum setbacks between a well and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.

9) <u>When a gravity system is proposed</u>: BEFORE CONSTRUCTION/INSTALLATION BEGINS, the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum slope requirement. In gravity systems, the invert of the septic tank(s) outlet(s) shall be at least 4 inches above the invert of the distribution box outlet at the disposal area.

10) <u>When an effluent pump is required</u>: Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and lid at or above grade. An alarm device warning of a pump failure shall be installed. Also, when pumping is required of a chamber system, install a "T" connection in the distribution box and place 3 inches of stone or a splash plate in the first chamber. Insulate gravity pipes, pump lines and the distribution box as necessary to prevent freezing.

11) On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. On sites where the proposed system is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal and fill extension area to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper that 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or differential setting). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off proprietary devices. Divert the surface water away from the disposal area by ditching or shallow landscape swales.

12) Unless noted otherwise, fill shall be gravely coarse sand which contains no more that 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process.

13) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.

14) Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover system. Woody trees or shrubs are not permitted on the disposal area or fill extensions.

15) If an advanced wastewater treatment unit is part of the design, the system shall be operated and maintained per manufacturer's specifications.



<u>Albert Frick Associates, Inc.</u> Soil Scientists & Site Evaluators 95A County Road Gorham, Maine 04058 (207) 839-5565