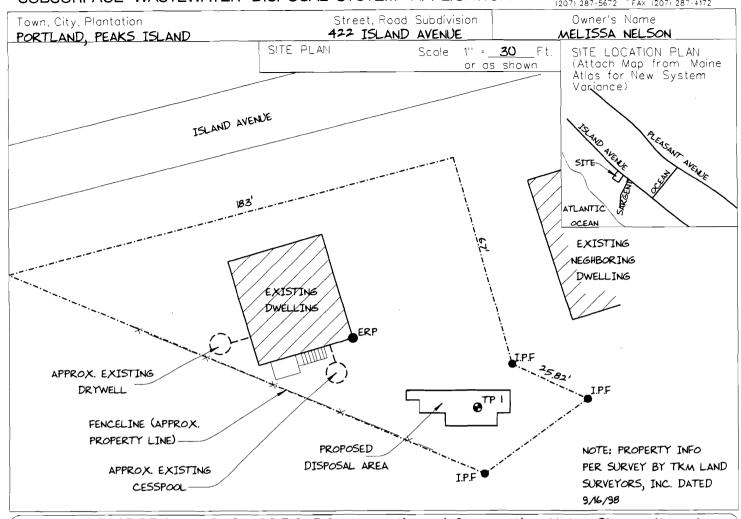
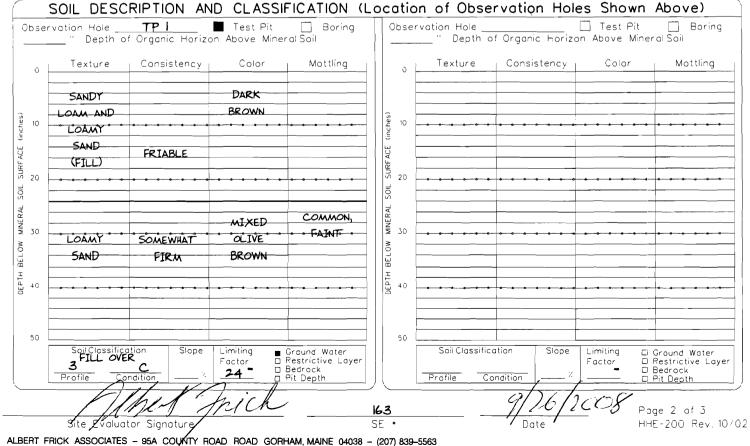
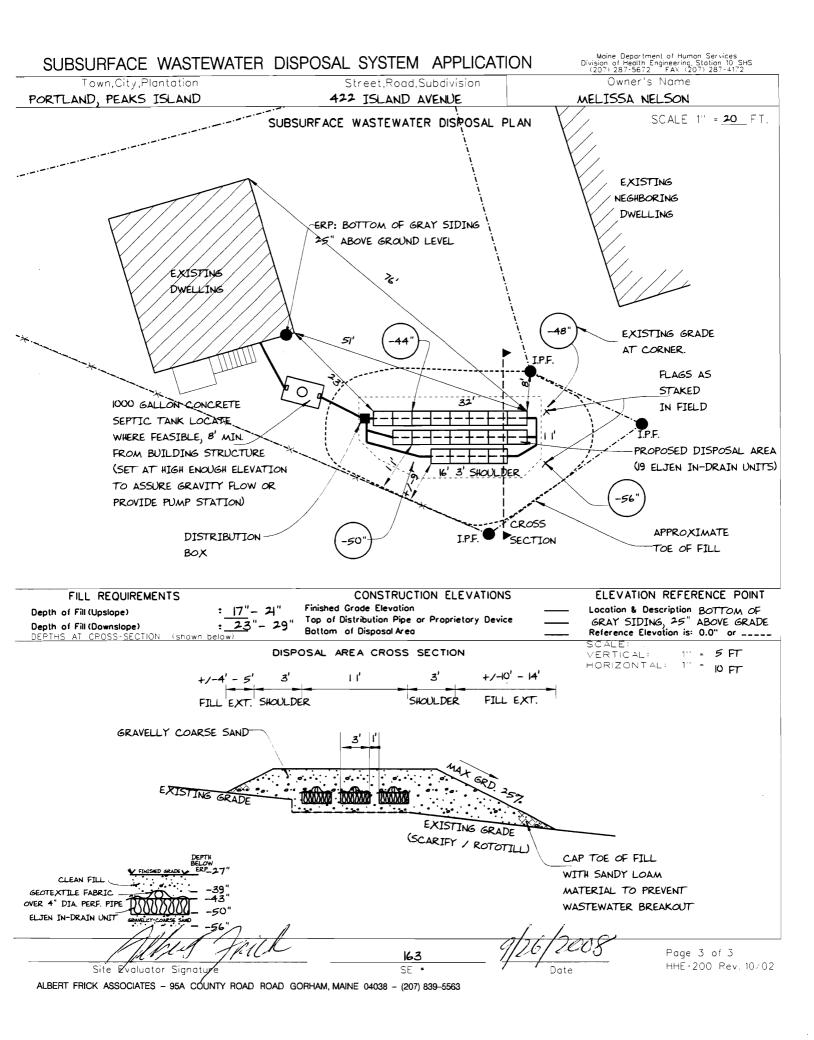
Maine Department of Human Services Division of Health Engineering, Station 10 SHS (207) 287-5672 FAX (207) 287-4172 SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Caution: Permit Required - Attach In Space Below PROPERTY LOCATION// or Plantation PORTLAND, PEAKS ISLAND Street or Road 422 ISLAND AVENUE **PORTLAND PFRMIT # 10777 TOWN COPY** Subdivision Lot * OWNER/APPLICANT INFORMATION/ Name (last, first, MI) Owner NELSON Mailing Address of Applicant 90, BLOCK D Daytime Tel. * 13 N 43 40' 3" Lon. W 70 11 30" Municipal Tax Map or Applicant Statement Caution: Inspections Required have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. he information submitted is correct to the best of that any falsification is reason for the Department Istate and acknowle my knowledge and and/or Local Plumb (1st) Date Approved Local Plumbing Inspector Signature (2nd) Date Approved PÉRMITANFORMATION TYPE OF APPLICATION THIS APPLICATION REQUIRES DISPOSAL SYSTEM COMPONENTS 1. No Rule Variance 1. Complete Non-Engineered System 1. First Time System 2. Replacement System 2. 🗌 First Time System Variance 2. ☐ Primitive System(graywater & alt toilet) Type Replaced: <u>CESSPOOL</u> o. Local Plumbing Inspector Approval 3. Alternative Toilet, specify: b. State & Lacal Plumbing Inspector Approval Year Installed: PRE-1974 4. □ Non-Engineered Treatment Tank (only ☐ Expanded System 3. Replacement System Variance 5. Holding Tank,___ __Gallons a. Local Plumbing Inspector Approval 6. Non-Engineered Disposal Field (only) a. ☐ Minor Expansion b. State & Local Plumbing Inspector Approval b. ☐ Major Expansion 7. 🗆 Separated Laundry System ☐ Minimum Lot Size Variance ☐ Experimental System 8. Complete Engineered System(2000gpd+ 9. ☐ Engineered Treatment Tank (only) Seasonal Conversion Approval □ Seasonal Conversion 10. Engineered Disposal Field (only) SIZE OF PROPERTY DISPOSAL SYSTEM TO SERVE 11. ☐ Pre-treatment, specify: □ sq. ft. \blacksquare Single Family Dwelling Unit, No. of Bedrooms: $\underline{3}$ 12. Miscellaneous components acres ☐ Multiple Family Dwelling, No of Units: _ TYPE OF WATER SUPPLY □ Other: __ SHORELAND ZONING SPECIEY 1. 🗌 Drilled Well 2. 🗌 Dug Well 3. 🗌 Private 4. Public 5. 🗌 Other ■ No Current Use 🗌 Seasonal 🔳 Year Round 🗍 Undeveloped □ Yes DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3) // TREATMENT TANK DISPOSAL FIELD TYPE & SIZE GARBAGE DISPOSAL UNIT DESIGN FLOW 3. ☐ Maybe 270 galians per day Concrete 1. Stone Bed 2. Stone Trench 1. Na BASED ON: a. Regular 3. Proprietary Device 2. ☐ Yes >> Specify one below: 1. Table 501.1 (dwelling unit(s)) b. Low Profile c.□Cluster array c.■Linear a. Multi-compartment tank 2. Table 501.2 (other facilities) 2. 🗆 Plastic b. Regular d.□H-20 loaded $b.\Box$ ____tanks in series SHOW CALCULATIONS Other: 4. □ Other: c.□ Increase in tank capacity - for other facilities -CAPACITY _ 1000 SIZE 912 ■ sq. ft. □ lin. ft d. Filter on tank outlet 19 ELJEN IN-DRAIN UNITS 3 BEDROOMS AT SOIL DATA & DESIGN CLASS DISPOSAL FIELD SIZING EFFLUENTÆJECTOR PUMP 90 GALLONS PER PROFILE CONDITION DESIGN 1. ☐ Small - 2.0 sq.ft./gpd 1. Not required DAY EACH 2. ☐ Medium - 2.6 sq.ft./qpd 2. May be required TP 1 3. ■ Medium-Large - 3.3 sq.ft./gpd 3. ☐ Required >>Specify only for AT Observation Hale * 4. ☐ Lorge - 4.1 sq.ft./gpd engineered or experimental systems Depth_**24** 3. Section 503.0 (meter readings) 5. 🗆 Extra-Large - 5.0 sq.ft./gpd OF MOST LIMITING SOIL FACTOR DOSE: Gallons ATTACH WATER-METER DATA Certify that on 6/24/2003 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed sytem sompliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241). SEP 2 3 2003 Evaluator/Signatu SF * ALBERT FRICK (207) 839-5563 AFACMAINERR.COM Site Evaluator Name Printed Telephone Number F-mail Address ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563

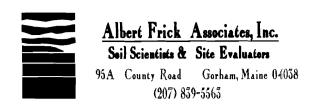
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services Division of Health Engineering Station 10 SHS (207) 287-5672 FAX (207) 287-4172









PORTLAND, PEAKS ISLAND

422 ISLAND AVENUE

MELISSA NELSON

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.
- 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.
- 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	422 ISLAND AVENUE	MELISSA NELSON
TOWN	LOCATION	APPLICANT'S NAME

- 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.) \times 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) When a gravity system is proposed: 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.
- When an effluent pump is required: 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.
- 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 gravelly 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.



REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for the proposed 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 can be met, and the variance(s) requested fall within the limits of LPI's authority.

- 1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 2006)
- 2. There will be no change in use of the structure except as authorized for minor expansions outside the shoreland zone of major waterbodies/courses.
- 3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
- 4. 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 Issued
Property Owner's Name: Melissa Nelson	Tel. No.:
System's Location: 422 Island Avenue	
Property Owner's Address:	
(if different from above)	
then you are to send this Replacement System Variance Request consideration before issuing a Permit. (See reverse side for Com- <u>SITE EVALUATOR:</u> If after completing the Application, you find that a variance for the Variance Request with your signature on reverse side of form. <u>PROPERTY OWNER:</u> If has been determined by the Site Evaluator that a variance to the request is due to physical limitations of the site and/or soil conditions.	e proposed replacement system is needed, complete the Replacement ne Rules is required for the proposed replacement system. This variance ions. Both the Site Evaluator and the LPI have considered the site/soil
restrictions and have concluded that a replacement system in total	al compliance with the Rules is not possible.
concerned provided they have performed their duties in a Plumbing Inspector and make any corrections required by	e to the Rules. Should the proposed system malfunction, I release all reasonable and proper manner, and I will promptly notify the Local vithe Rules. By signing the variance request form, I acknowledge onto the property to perform such duties as may be necessary to
knowledge that it cannot be installed in compliance with the Rules Application, and my on-site investigation, I (check and complete &a. (capprove,) disapprove) the variance request based on n he shall list his reasons for denial in Comments Section below aOR b. find that one or more of the requested Variances exceeds respectively.	ny authority to grant this variance. Note: If the LPI does not give his approval, and return to the applicant. my approval authority as LPI. I (□ recommend, □ do not recommend) the ot recommend the Department's approval, she shall state his reasons in
Comments:	
Thomas h M LPI SIGNATUR	ally SEP 23 203 10/8/08 RE 1 DATE
	Page 1, HHE-204 Rev 10/01/02

Page 1, HHE-204 Rev 10/01/02

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
SOILS								
Soil Profile	Ground Water Table				inches			
Soil Condition	Restrictive Layer				inches			
from HIIE-200	Bedrock				inches			
SETBACK DISTANCES (in feet)	Disposal Fields			S	Disposal Fields	Septle Tanks		
	Less than	1000 to	Over 2000	Less than	1000 to	Over		1
From	1000 gpd	2000 gpd	gpd	1000 gpd	2000 gpd	2000 gpd	To	To
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft [a]	300 ft [a]	300 ft [a]	100 ft [a]	100 ft [a]	100 ft [a]		
Owner's wells	100 down to 60 ft	200 down to 100 ft	300 down to 150 ft	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 down to 60 ft [b]	200 down to 120 ft [b]	300 down to 180 ft [b]	100 down to 50 ft [b]	100 down to 75 ft [b]	100 down to 75 ft [b]		
Water supply line	10 ft [a]	20 ft [a]	25 ft [a]	10 ft [a]	10 ft [a]	10 ft [a]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft	200 down to 120 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to . 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		
Edge of fill extension Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams	25 N [d]	25 N [d]	25 N [d]	25 N [d]	25 ft [d]	25 N [d]		
Slopes greater than 3:1	10 N	18 ft	25 ft	N/A	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5	14 down to 7 ft	20 down to 10 ft		
Full basement [below grade foundation]	20 down to 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5	14 down to 7 ft	20 down to 10 ft		
Property lines	10 down to 5 ft [c]	18 down to 9 ft [c]	20 down to 10 ft [c]	10 down to 4 ft [c]	15 down to 7 ft [c]	20 down to 10 ft [c]	8'	
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 N	25 ft	25 ft	25 ft	25 ft		

Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 R	25 ft			
OTHER O. Fill extension Grade - to 3:1) NE	AR PRO	PERTY L	INES, A	s neces	SSARY			-	
3. This stand distance		-1111 DI	1			State week		-	
Footnotes: a. This setback distance ca b. May not be any closer to is granted by the neighbor. Sufficient distance shall	o neighbor's v or.	vell than the e	existing dispos	al field or sep	tic tank unles	s written per	rmission		
property line. d. Natural Resources Prote disturbance and 100 fee	on slopes gre	ater than 20%		•				a/2/2	008
system when no practica		W/X1	TOR'S SIGN	L		7/11/2	003 	8/21/20 ju	res
FOR USE BY THE DEPARTMENT	CONLY		/				DATE	9/26/	708
The Department has reviewed the vari recommendations, or reasons for the V					dditional requ	irements,		1/20/2	
	SIGN	ATURE OF	THE DEPART	MENT			DATE		