

197-H-001

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

State Department of Human Services  
Division of Environmental Health  
800-287-3472 FAX 207-287-3473

PROPERTY LOCATION		>> Caution: Permit Required - Attach In Space Below <<	
City, Town, or Plantation	PORTLAND		
Street or Road	93 HOBART ROAD		
Subdivision, Lot *			
OWNER/APPLICANT INFORMATION			
Name (last, first, MI)		Owner Applicant	
BARNARD CHARLES		<input checked="" type="checkbox"/> Double Fee	
Mailing Address of		Local Plumbing Inspector Signature	
93 HOBART ROAD		Date Permit Issued: 10/00/00	
PORTLAND, ME 04102		\$1100 FEE Charged	
Daytime Tel. *		L.P.I. # 0124	
879-2685		Municipal Tax Map * Lot *	
Owner or Applicant Statement			
I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.			
Signature of Owner/Applicant: Charles K. Barnard		Date: 10-9-00	
Local Plumbing Inspector Signature		Caution: Inspections Required	
(1st) Date Approved		(2nd) Date Approved	

PERMIT INFORMATION			
TYPE OF APPLICATION		THIS APPLICATION REQUIRES	
1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System ✓ Type Replaced: Year Installed: 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> One-time exempted b. <input type="checkbox"/> Non exempted 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion		1. <input type="checkbox"/> No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. <input checked="" type="checkbox"/> Replacement System Variance a. <input checked="" type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 4. <input type="checkbox"/> Minimum Lot Size Variance 5. <input type="checkbox"/> Seasonal Conversion Approval	
SIZE OF PROPERTY		DISPOSAL SYSTEM TO SERVE	
40,000 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> acres		1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: 4 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: 3. <input type="checkbox"/> Other: SPECIFY	
SHORELAND ZONING		DISPOSAL FIELD TYPE & SIZE	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. Cluster array b. Regular c. Linear 4. <input type="checkbox"/> Other: SIZE 2000 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft. 40 PLASTIC CHAMBERS	
DISPOSAL FIELD SIZING <i>Proprietary Own</i>			
1. <input type="checkbox"/> Small - 2.0 sq.ft./gpd 2. <input type="checkbox"/> Medium - 2.6 sq.ft./gpd 3. <input type="checkbox"/> Medium-Large - 3.3 sq.ft./gpd 4. <input type="checkbox"/> Large - 4.1 sq.ft./gpd 5. <input checked="" type="checkbox"/> Extra-Large - 5.0 sq.ft./gpd			
GARBAGE DISPOSAL UNIT			
1. <input checked="" type="checkbox"/> No 2. <input type="checkbox"/> Yes >> Specify one below: a. <input type="checkbox"/> Multi-compartment tank b. <input type="checkbox"/> Tank in series c. <input type="checkbox"/> Increase in tank capacity d. <input checked="" type="checkbox"/> Filter on tank outlet			
TYPE OF WATER SUPPLY			
1. <input type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input checked="" type="checkbox"/> Public 5. <input type="checkbox"/> Other			

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK		DISPOSAL FIELD TYPE & SIZE	
1. <input checked="" type="checkbox"/> Concrete a. <input checked="" type="checkbox"/> Regular b. <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: CAPACITY 1000 gallons		1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. Cluster array b. Regular c. Linear 4. <input type="checkbox"/> Other: SIZE 2000 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft. 40 PLASTIC CHAMBERS	
SOIL DATA & DESIGN CLASS		GARBAGE DISPOSAL UNIT	
PROFILE CONDITION DESIGN		DISPOSAL FIELD SIZING <i>Proprietary Own</i>	
9 / D / 3		1. <input type="checkbox"/> No 2. <input type="checkbox"/> Yes >> Specify one below: a. <input type="checkbox"/> Multi-compartment tank b. <input type="checkbox"/> Tank in series c. <input type="checkbox"/> Increase in tank capacity d. <input checked="" type="checkbox"/> Filter on tank outlet (RECOMMENDED)	
AT Observation Hole * TP 1		PUMPING	
Depth 9 " Elevation -39 "		1. <input type="checkbox"/> Not required 2. <input type="checkbox"/> May be required 3. <input checked="" type="checkbox"/> Required >> Specify only for engineered or experimental systems	
OF MOST LIMITING SOIL FACTOR		DOSE: GALLONS	
DESIGN FLOW 360 gallons per day BASED ON:			
1. <input checked="" type="checkbox"/> Table 501.1 (dwelling unit(s)) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS - for other facilities -			
4 BEDROOMS AT 90 GALLONS PER DAY EACH = 360			
3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA			

SITE EVALUATOR STATEMENT			
I certify that on 8/15/00 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241).			

Albert Frick		163 SE * 9/5/2000 Date	
Site Evaluator Signature		Page 1 of 3 HHE-200 Rev. 1/99	
ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04088 - (207) 839-6563			

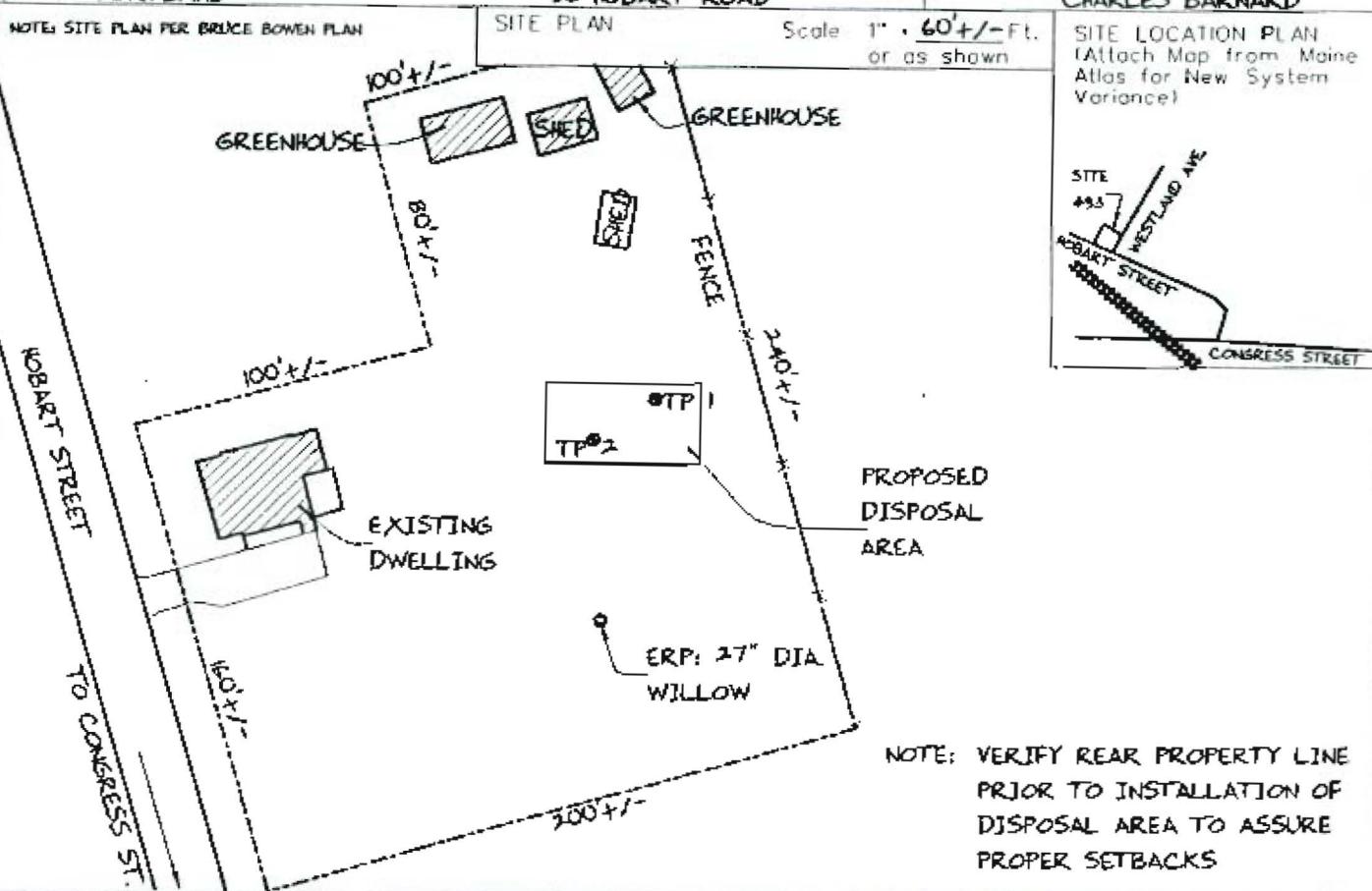
# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

Town, City, Plantation  
**PORTLAND**

Street, Road Subdivision  
**93 HOBART ROAD**

Owner's Name  
**CHARLES BARNARD**



## SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole <b>TP 1</b>			
■ Test Pit <input type="checkbox"/> Boring			
" Depth of Organic Horizon Above Mineral Soil			
0	Texture	Consistency	Color
	SILT ✓	DARK	
	LOAM ✓	BROWN	
10		FRIABLE //	FEW, DISTINCT
	VERY FINE ✓	OLIVE	
	SANDY LOAM	BROWN	COMMON, DISTINCT
20	SILT ✓	FIRM	
24		LIMIT OF EXCAVATION	
30			
40			
50			
Soil Classification			
9	D	Slope	Limiting Factor
Profile	Condition	X	9
			■ Ground Water □ Restrictive Layer □ Bedrock □ Pit Depth

*Albert Frick*  
Site Evaluator Signature

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

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SE \*

9/5/2000  
Date

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# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

Town,City,Plantation

PORTLAND

Street,Road,Subdivision

93 HOBART ROAD

Owner's Name

CHARLES BARNARD

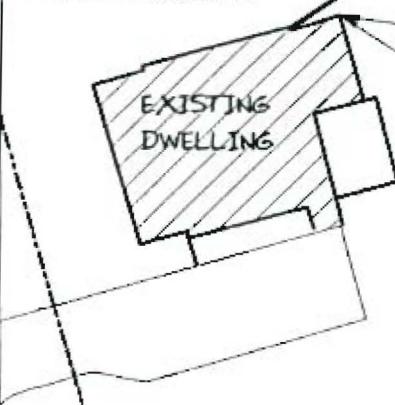
NOTE: THOROUGHLY ROTOTILL ENTIRE  
SODDED AREA UNDER DISPOSAL FIELD  
& FILL EXTENSIONS PRIOR TO FILL  
PLACEMENT, THEN TILL FIRST 6" LIFT  
OF FILL INTO EXISTING SOIL SURFACE  
TO PROMOTE MIXING

REMOVE ALL PORTIONS OF UNCONTROLLED  
FILL TO A MINIMUM  
DEPTH OF 2' UNDERNEATH AND 5'  
ALONGSIDE DISPOSAL AREA AND REPLACE  
WITH CLEAN GRAVELLY COARSE SAND FILL

NEW 1000 GALLON SEPTIC TANK  
LOCATE WHERE FEASIBLE  
8' MIN. FROM DWELLING

## SUBSURFACE WASTEWATER DISPOSAL PLAN

1 1/2" TO 2" DIA.  
EFFLUENT LINE BURIED  
BELOW FROST OR INSULATED  
TO PROTECT FROM FREEZING



PUMP STATION

DISTRIBUTION BOX

PROPOSED  
DISPOSAL  
AREA (5 ROWS  
OF 8 PLASTIC  
CHAMBERS)

ERP: 27" DIA.  
WILLOW

EXISTING GRADE  
AT CORNER

CROSS  
SECTION

5' SHOULDER

20'

APPROXIMATE  
TOE OF FILL

SCALE: 1" = 30 FT

X

PROPERTY LINE (C2233)  
PASTED OUT BY  
CAMPER VEHICLE  
ROUTE TO INSTALLATION

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ALBERT FRICK ASSOCIATES, INC.  
Soil Scientists & Site Evaluators  
75A County Road - Gorham, Maine 04038  
(207) 839-5563

Portland  
TOWN

93 Hobart Road  
LOCATION

Charles Barnard  
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 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.

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 should be connected in series to the proposed septic tank.

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) and controlled or hazardous substances shall not be disposed of in this system.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

Portland

TOWN

13 Hobart Road

LOCATION

Charles Barnard

APPLICANT'S NAME

- 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 once every three years.
- 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.) / # of days in period).
- 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 invert for compatibility to minimum slope requirements. 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 ground water does not enter the septic tank or pump station. An alarm device warning of a pump failure shall be installed. Also, when pumping is required to 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.
- 10) 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 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 than 8 inches and compact thoroughly before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off the chambers. Divert the surface water away from the disposal area by ditching or shallow swales.
- 11) Unless noted otherwise, fill shall be gravelly coarse sand which contains no more than 5% fines (silt and clay).
- 12) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.
- 13) Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion.



Albert Erick Associates, Inc.  
Soil Scientists & Site Evaluators  
25A County Road - Andover, Maine 04016  
207-785-2555