DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT



This is to certify that SHEILA LOWRY DUNBAR

Located At 541 ISLAND AVE

Job ID: 2012-03-3579-SUBSRF

CBL: 090- R-005-001

has permission to Subsurface Complete Non-Engineered Replacement System.

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

04/20/2012

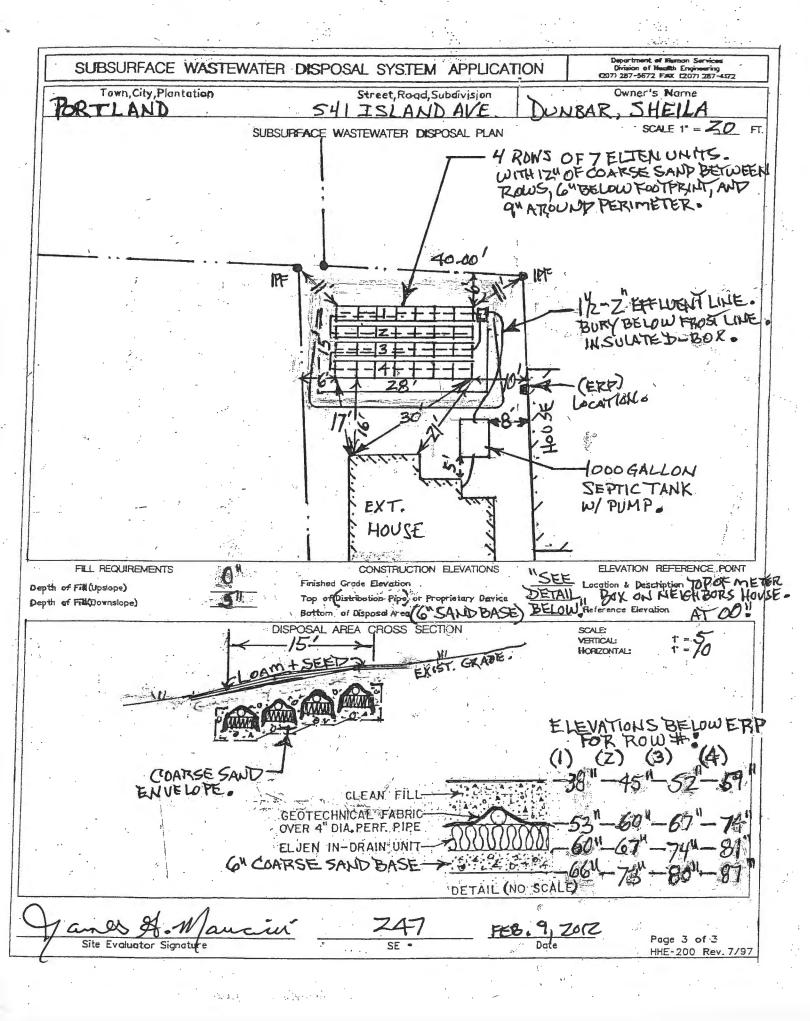
**Fire Prevention Officer** 

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET STOE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

Mother Sole Show 250.

SUBSURFACEMAS	STEWATER DISPOSALISY	STEW APPLIC	ATION :	Maine Dept.Health & Human Service Div of Environmental Health , 11 SH (207) 287-5672 Fax: (207) 287-417
	TY LOCATION	>> C/	UTION: LPI	APPROVAL REQUIRED <<
City, Town, or Plantation POR	TLAND	TOWN/City POF-	Hand !	Permit # 2012-03-35 X
Street or Road 54/	ISLAND AVE.	Date Permit Issued	A-1_1_ F	ee: \$ Double Fee Charged [ ].
Subdivision, Lot#	AKS IS LAND			LP.I.#
	CANT INFORMATION	Local Planting he	pecter Signature	
Name (last, first, MI) DUNBAR SH	EILA Deplicant	The Subsurface V	Vastewater Dispo	osal System shall not be installed until a
Mailing Address 1819	PATRICK HENRYAVE.	Permit is issued b	y the Local Plum	bing Inspector, The Smit shall
Owner/Applicant 121	JGTON. VA. 22705			nstall this imposal system in accordance Subsurface Wastewaten Disposal Rules
Daytime Tel # 90 10m	BLACKBURN 232-8134		Tax Map #	ORS 149 3 2012
. OWNER OR APPLIC	ANT STATEMENT	Above become		CTION REQUIRED
I state and acknowledge that the informing knowledge and understand that a and/or Local Plumbing Inspector to de	mation submitted is correct to the best of ny fatsification is reason for the Department	with the Subsu	uface Wastewater Dis	poinced above and found it to be in compliance posal Rules Application.  (1st) date approved
				City of City date approved
. Signature of Owner		IT INFORMATIO	l Plumbing Inspector.	Signature (2nd) date approved
TYPE OF APPLICATION	THIS APPLICATION REC		DISI	POSAL SYSTEM COMPONENTS
O 1. First Time System	D 1. No Rule Variance		92 1. Complete Non-engineered System  2. Primitive System (graywater & att. toilet)	
X2. Replacement System  Type replaced: CESSPOOL			3. Alternative Toilet, specify:     4. Non-engineered Treatment Tank (only)	
Year installed: PRE - 1974    a. Local Plumbing Inspector Apr   b. State & Local Plumbing Inspector Apr   b. State & Local Plumbing Inspector Apr   c. Local Plumbing Inspector Apr   b. State & Local Plumbing Inspector Apr   c. Local Plumbing In			□ 5. Hc	olding Tank, gallons
☐ 3. Expanded System ☐ a. <25% Expansion ☐ b. ≥25% Expansion	ed System		6. Non-engineered Disposal Field (only)     7. Separated Laundry System	
E 4 Empiroratel State		scioi Ampiovai	8. Complete Engineered System (2000 gpd or more)     9. Engineered Treatment Tank (only)	
□ 4. Experimental System □ 5. Seasonal Conversion □ 5. Seasonal Conversion Permit			□ 10. Er	ngineered Disposal Field (only)
SIZE OF PROPERTY	DISPOSAL SYSTEM TO SERVE			e-treatment, specify: iscellaneous Components
9832 XSQ.FT.	In 1. Single Family Dwelling Unit, No. □ 2. Multiple Family Dwelling, No. of Unit.		TYPE OF WATER SUPPLY	
SHORELAND ZONING	0 3. Other:		D 1. Drilled	Well D 2 Dug Well D 3. Private
□Yes KNo.	(specify) Current Use D Seasonal D Year Ro			5. Other
	DESIGN DETAILS (SYST	1	IOWN ON PAC	GE 3)
TREATMENT TANK  1. Concrete	DISPOSAL FIELD TYPE & SIZ	GARBAGE DE		DESIGN FLOW
Ka. Regular □ b. Low Profile	3. Proprietary Device	If Yes or Maybe, s	specify one below:	360 gallons per day BASED ON:
7 2. Plastic	Ba. cluster array □ c. Linear     b. regular load □ d. H-20 load	· · · · · · · · · · · · · · · · · · ·		1. Table 4A (dwelling unit(s))     2. Table 4C(other facilities)
CAPACITY: GAL	. 0 4. Other:	C. increase in ta	nk capacity	SHOW CALCULATIONS for other facilities
SOIL DATA & DESIGN CLASS	SIZE: 134 sq. ft. 1 lin. ft.			☐ 3. Section 4G (meter readings)
PROFILE CONDITION	DID COAL FILLD ORDING	LI 1. Not Required	OK PUMP	ATTACH WATER METER DATA
at Observation Hole # TPI	☐ 1. Medium—2.6 sq. ft. / gpd	☐ 2. May Be Required	٠	LATITUDE AND LONGITUDE
Depth <u>&gt;48</u> .	2. Medium—Large 3.3 sq. f.t/gpd □ 3. Large—4.1 sq. ft/gpd	X3. Required Specify only for engine	ered systems:	Lat. 43 d 40 m 07.3s
f Most Limiting Soil Factor	☐ 4. Extra Large—5.0 sq. ft. / gpd		gallons if g.p.s, state margin of error: 10'	
/	SITE EVALUA	TOR STATEMEN	VT	-
ertify that on $2/9/12$	(date) I completed a site evalua	ation on this propert	y and state that	the data reported are accurate and
it the proposed system is in	compliance with the State of Maine	Subsurface Waster	1	
Site Evaluator Signature		2A	FE	B. 9. 7012
TAMES G. MANCINI		SE#	199	Date
Site Evaluator	Name Printed	Telephone N	lumber	E-mail Address
e : Changes to or deviations	s from the design should be confirm	ned with the Site Eva	aluator.	Page 1 of ?



### 1.0 Basic System Design

- 1.1 Design and Installation: Design and installation of In-Drain systems shall comply with all state and local regulations and the requirements of this manual.
- 1.2 System sizing: In-Drain systems must be sized on the basis of Table 600,1 of the Maine Subsurface WasteWater Disposal Rules (Maine Rules). Disposal field sizing is based on an approved credit of 1 sq.ft. of In-Drain bottom area equal to 4 sq.ft. of stone bed. Use In-Drain sizing Table #1 to determine the number of Type B units for a given design flow and disposal field size group. The 4 to 1 credit applied for all systems, commercial and noncommercial. The number of In-Drains required is the same for trench or Eljen's spaced cluster configurations. Please refer to section 5 for additional design information on commercial systems. Increase septic tank size by 50% and system size by 30% when garbage disposal is used.
- 1.3 Trench Configurations: Trench configurations shall provide a minimum spacing of 6' center to center (3 feet between units) with 6" of sand (see section 1.7 for sand specifications) below the In-Drain and 9" of sand around the outer edge of Type B units. Trench configurations utilize the same number of In-Drains as clustered configurations. Most designs utilize cluster configurations unless the site designer feels that the site has some unusual hydraulic capacity characteristics.
- 1.4 Clustered Configurations: In-Drains may be installed in a clustered configuration with a minimum of 12" of sand (See section 1.7 for sand specification) between rows, 9" of sand around the outer edge of the In-Drains and 6" of sand below the In-Drain rows.
- 1.5 Experimental Systems: Use of In-Drains at a higher loading rate than the stated in Section 1.2 and or less that 12" of spacing between the rows of In-Drains, are considered experimental systems under Chapter 18 of the Maine Rules. Installations on some sites may result in reduced capacity due to mounding and /or the hydraulic capacity of the site. Special care must be given on sites with AI, AII, D or E conditions.
- 1.6 Depth to seasonal Ground Water Table: Maine rules require 12",18" or 24" from disposal bed bottom to MLF depending on Design Class and depth to ledge. Eljen's conservative leach field design specifies a receiving sand bed layer (level to within 1/2 inch) directly beneath the In-Drain assembly as shown in Figures 3,4, and 5. The bottom of the disposal area is the bottom of the In-Drain unit. The vertical separation from the bottom of the In-Drain unit to the MLF shall not be less than 18". In-Drain's low profile results in a system finished grade comparable to or lower than conventional disposal fields.
- 1.7 Sand and Fill Specifications:

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The first 6" directly beneath the In-Drains shall be a medium to coarse sand, with an effective size of 0.25 to 2.0 mm, no greater than 5% passing a #200 sieve, and no particles larger than 3/4 inch; or materials meeting the ASTM C-33 specifications. Washed concrete sand easily meets the above specification and is a reliable choice. Suitability of bank run sand must be verified.



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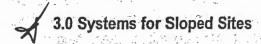
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FIGURE 5. RAISED BED ON SLOPE WITH SERIAL DISTRIBUTION

Typical design requires 24" of compacted and properly graded material. Distribution pipe with at least SDR35 rating is required. Systems can easily be engineered to handle H20 loading. Please consult with Eljen's Maine technical representative for design subject to vehicular traffic.

### 2.0 Systems for Level Sites

- 2.1 System Configuration: Level systems layout may employ all leach field configurations. Bottom of systems, In-Drains and distribution pipes are installed level at their design elevations. Flow equalizers are recommended in non-pumped systems using distribution boxes. Non perforated interconnecting pipes between rows of In-Drains at midpoints (in systems over 40' long) and at ends to form pipe loops to insure long term system capacity. Refer to Figures 2 & 3 for section and plan views of in-ground and raised bed designs.
- 2.2 In-Ground Systems: The First 6" of material directly under and 9" beside the In-Drains must conform to Section 1.7a of this manual.
- 2.3 Raised Systems: Fill material used in raised systems must conform to Section 1.7a and 1.7b of this manual.

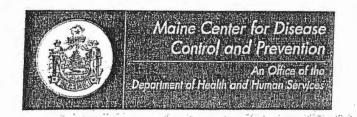


- 3.1 System Configuration: Sloping sites are best served by serial distribution with In-Drain cluster or trench layouts. Field sizing is the same as for level systems. A securely anchored distribution box is recommend between the septic tank and the leach areas as an access port and for flow velocity reduction.
- 3.2 Cluster Row Spacing: Minimum spacing between adjacent rows of In-Drains is 12" for sites with 0 to 15% slope. Sites with over 15% slope should have minimum spacing of 24" between rows.
- 3.3 Distribution piping: The distribution pipe is capped at the end of each row of In-Drains Overflow in achieved by placing an end-capped length of perforated pipe (minimum of 10' or 50% of the In-Drain row length which ever is longer) at the end of each row next to the distribution pipe and connecting it with solid pipe to the next lower elevation row of In-Drains as shown in the Eljen Installation Instruction sheet. This procedure continues until the end of the last row of In-Drains. Refer to Figure 5 for sloped field design and section detail of over flow pipe.
- 3.4 Sand and Fill Specifications: Fill material, sand bed bottom and backfill are the same as in level systems.

# 4.0 Combination Systems

4.1 Dosing: Use an appropriate dosing device to assure proper effluent distribution to each field. If standard distribution boxes are used, anchor them adequately on stable compacted fill or place on a concrete pad not subject to frost heaving. The use of flow equalizers are





Department of Health and Human Services
Maine Center for Disease Control and Prevention
286 Water Street
# 11 State House Station
Augusta, Maine 04333-0011
Tel: (207) 287-5672

Fax: (207) 287-4172; TTY: 1-800-606-0215

## SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200 Form) for any subsurface wastewater disposal system which requires a variance to provisions of the Subsurface Wastewater Disposal Rules. The Local Plumbing Inspector must not issue a permit for the installation of a subsurface wastewater disposal system requiring a variance from the Department of Health and Human Services until approval has been received from the Department.

GENERAL INFORMATION TOWN OF PORTLAND
Property Owner's Name: SHELLA DULBAR Tel. No.: 737-9134
System's Location: 541 IS LAND AVE. (PEAKS ISL.)
Property Owner's Address: 1819 PATRICK HENRY AVE , ARUNGON VA. Zip Code 22705
e-mail address:
The subsurface wastewater disposal system design for the subject property requires at replacement system variance $\Box$ first time system variance to the Subsurface Wastewater Disposal Rules. This variance requires a local approval $\Box$ local and state approval.
SPECIFIC VARIANCE REQUESTED (To be filled in by Site Evaluator. Use additional sheets if needed.)  1. IC FROM OWNERS POUNDATION, O FROM HEIGHPORS FOUNDATION (FIELD).  2. O FROM PROPERTY LINES (FIELD).  3. SEPTIL TANK 5 TROM FOUNDATION, & FROM PROPERTY LINE.  SITE EVALUATOR  SECTION OF RULE  TABLE 7.B.  SITE EVALUATOR
When a property is found to be unsuitable for subsurface wastewater disposal by a licensed Site Evaluator, the Evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a variance to the Rules, and the Evaluator in his professional opinion feels the variance request is justified and the site limitations can be overcome, he shall document the soil and site conditions on the Application. The Evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The Evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department. Attach a separate sheet if necessary.
S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements. In my judgment, the proposed system design on the attached Application is the best alternative available; enhances the potential of the site for subsurface wastewater disposal; and that the system should function properly.
SIGNATURE OF SITE EVALUATOR / DATE
PROPERTY OWNER
am the Nowner Days agent for the owner of the subject property. I understand that the installation on the Application is not in total compliance with 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 dequired by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property of perform such duties as may be necessary to evaluate the variance request.
Sheela Dunbar 2/27/12
SIGNATURE OF OWNER DATE  AGENT FOR THE OWNER

SUBSURFACE WASTEWATER	DISPOSAL SYSTEM APPLICATION	Maine Dept.Health & Human Services Division of Environmental Health (207) 287-5672 Fax: (207) 287-3165
Town, City, Plantation	Street, Road, Subdivision	Owner's Name
PORTLAND	DUNBAR, SHEILA	
SITE PLAN Scale	TPI O	SITE LOCATION PLAN (map from Maine Atlas recommended)  PRINCE THE
HOUSE	THE IGHEORING DIDENLIG CLASSIFICATION (Location of Observ	PROPOSED DISPOSAL FALLO PALLO
servation Hole TP( \ Test Pit	Boring Observation Hole " Depth of	☐ Test Pit ☐ Boring  Organic Horizon Above Mineral Soil
Factor [] Restr	ATION  Optitud  Soil Classification  Soil Classification  Soil Classification  Soil Classification  Soil Classification	Consistency Color Mottling
file Condition 7% 18 [ ] Bedn	ock ·	% [] Bedrock [] Pit Depth

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