

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, 10 SHS
(207) 287-5672 Fax (207) 287-3165

PROPERTY LOCATION		>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<	
City, Town, or Plantation	PORTLAND	PORTLAND PERMIT # 9914 TOWN COPY Date Permit Issued: <u>5/31/06</u> \$ <u>11010.00</u> FEE Charged <input type="checkbox"/> Double Fee Charged Local Plumbing Inspector Signature: <u>[Signature]</u> L.P.I. # <u>0640</u> Municipal Tax Map # _____ Lot # _____	
Street or Road	CLIFF ISLAND		
Subdivision, Lot #			
OWNER/APPLICANT INFORMATION			
Name (last, first, MI)	SWIFT, KATHLEEN <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant		
Mailing Address of Owner/Applicant	63 PINNACLE ROAD LYME, N.H. 03768	109 BF 008 Municipal Tax Map # _____ Lot # _____	
Daytime Tel. #	603-745-2908		
OWNER OR APPLICANT STATEMENT I state and acknowledge 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. <u>[Signature]</u> <u>5/31/06</u> Signature of Owner or Applicant Date		CAUTION: INSPECTION REQUIRED I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. # <u>20066008</u> _____ (1st) date approved _____ (2nd) date approved Local Plumbing Inspector Signature	

PERMIT INFORMATION		
TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: <u>ODD</u> Year installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <input type="checkbox"/> b. Major Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input checked="" type="checkbox"/> 3. Replacement System Variance <input checked="" type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENTS <input type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Disposal Area <input type="checkbox"/> 5. Holding Tank, _____ gallons <input checked="" type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components
SIZE OF PROPERTY <u>0.75±</u> SQ. FT. <input type="checkbox"/> ACRES <input checked="" type="checkbox"/>	DISPOSAL SYSTEM TO SERVE <input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: <u>10</u> <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK <input type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input checked="" type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: <u>EXISTING</u> CAPACITY: _____ GAL	DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input checked="" type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input checked="" type="checkbox"/> c. Linear <input checked="" type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: <u>3250</u> X sq. ft. <input type="checkbox"/> lin. ft	GARBAGE DISPOSAL UNIT <input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW <u>900</u> gallons per day BASED ON: <input checked="" type="checkbox"/> 1. Table 501.1 (dwelling unit(s)) <input type="checkbox"/> 2. Table 501.2 (other facilities) SHOW CALCULATIONS for other facilities
SOIL DATA & DESIGN CLASS PROFILE <u>2</u> / <u>AIII</u> / <u>I</u> at Observation Hole # <u>1</u> Depth <u>24</u> " of Most Limiting Soil Factor	DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Small--2.0 sq. ft. / gpd <input type="checkbox"/> 2. Medium--2.6 sq. ft. / gpd <input checked="" type="checkbox"/> 3. Medium--Large 3.3 sq. ft. / gpd <input type="checkbox"/> 4. Large--4.1 sq. ft. / gpd <input type="checkbox"/> 5. Extra Large--5.0 sq. ft. / gpd	EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input checked="" type="checkbox"/> 2. May Be Required <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	<input type="checkbox"/> 3. Section 503.0 (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. <u>43</u> d <u>41</u> m <u>38</u> s Lon. <u>70</u> d <u>06</u> m <u>25</u> s If g.p.s. state margin of error. <u>10±</u>

SITE EVALUATOR STATEMENT		
I certify that on <u>5/10/06</u> (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).		
<u>[Signature]</u> Site Evaluator Signature	<u>267</u> SE #	<u>5/23/06</u> Date
<u>ALAN L. BURNELL</u> Site Evaluator Name Printed	<u>781-5242</u> Telephone Number	<u>ABURNELL@PINKHAMANDGREER.COM</u> E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax. (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

PORTLAND

CLIFF ISLAND

KATHLEEN SWIFT

SITE PLAN

Scale 1" = 50 ft. or as shown

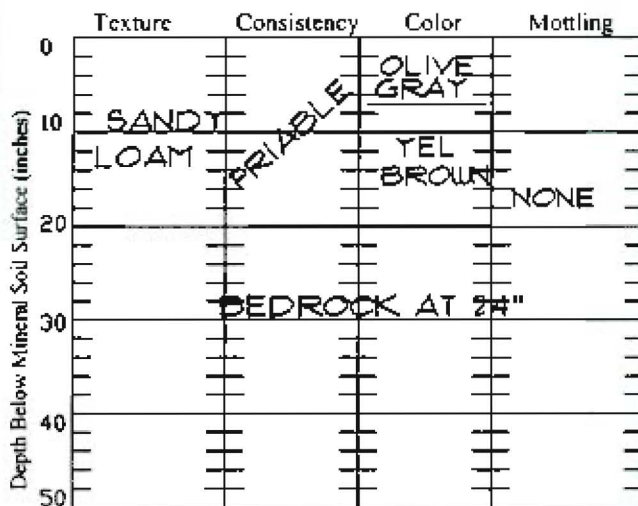
SITE LOCATION PLAN
 (map from Maine Atlas
 recommended)

SEE ATTACHED

SEE ATTACHED

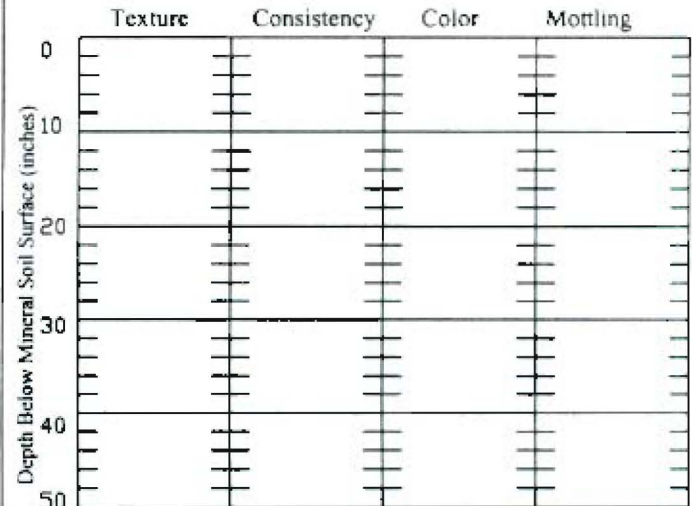
SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole #1 Test Pit Boring
4 " Depth of Organic Horizon Above Mineral Soil



Soil Classification <u>2 AIII</u> Profile Condition	Slope <u>2</u> %	Limiting Factor <u>24</u> "	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
---	---------------------	--------------------------------	--

Observation Hole _____ Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil



Soil Classification _____ Profile Condition	Slope ____ %	Limiting Factor ____ "	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
---	-----------------	---------------------------	---

John J. Smith
 Site Evaluator Signature

267
SE #

5/23/06
Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

PORTLAND

CLIFF ISLAND

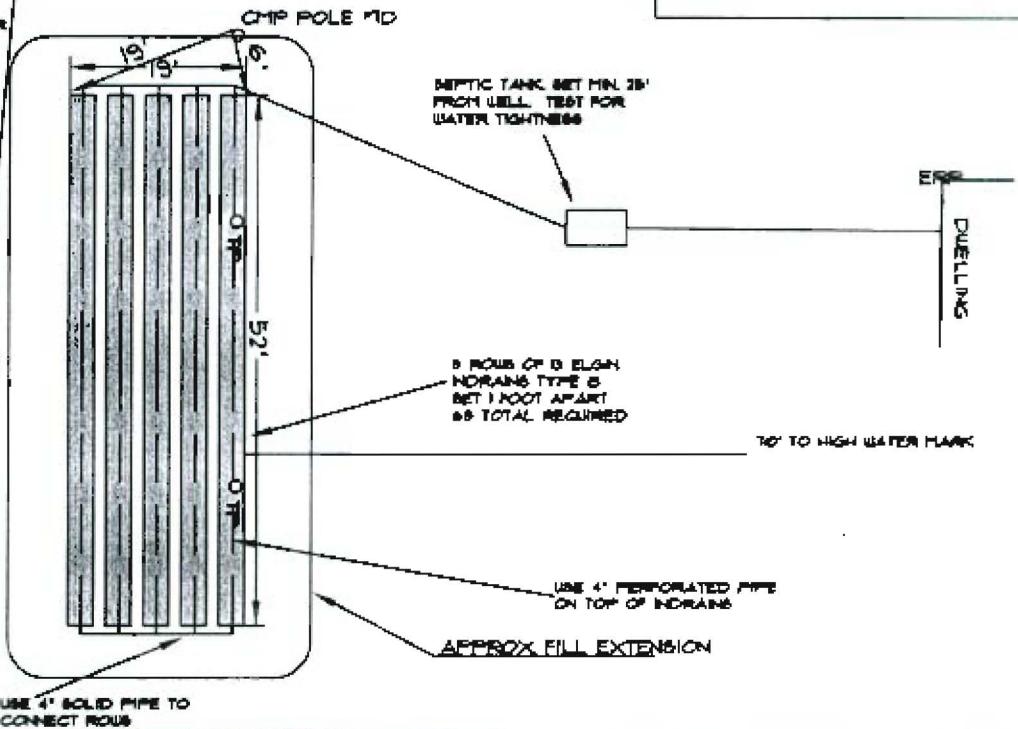
KATHLEEN SWIFT

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20' FT.

THIS FIELD SHALL SERVE THE FOLLOWING FOUR FAMILIES:

- KATHLEEN SWIFT MAP 1098B-LOT F-2
- GORDON GRIFIN MAP 1098B-LOT F-3B
- MADALEINE CUSHING MAP 1098B-LOT F-1
- JAMES GRIFIN MAP 1098B-LOT F-11



FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

Depth of Fill (Upslope) 24"
 Depth of Fill (Downslope) 24"

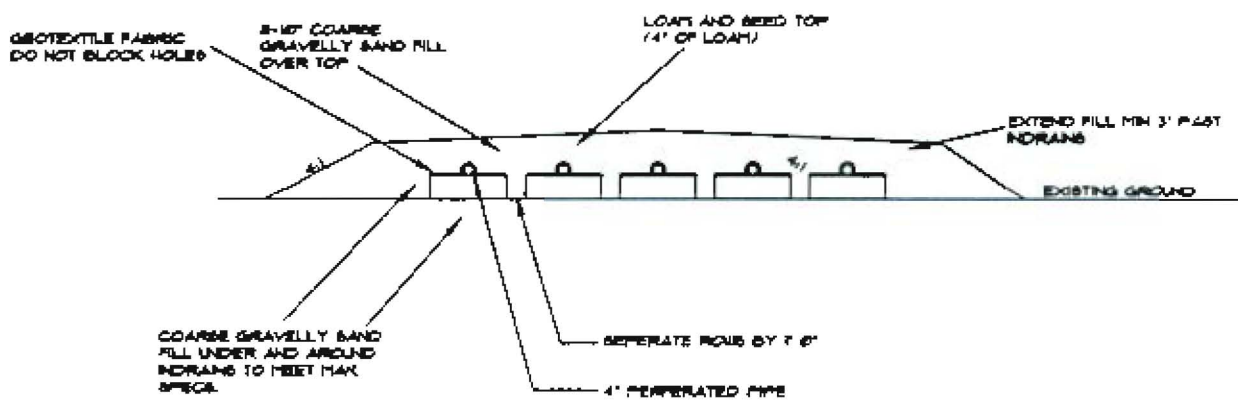
Finished Grade Elevation -25
 Top of Distribution Pipe or Proprietary Device -38
 Bottom of Disposal Area -49

Location & Description: SIDING ON SWIFT HOUSE
 Reference Elevation: 0"

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = 10' ft.
 Vertical 1" = 5' ft.



[Handwritten Signature]

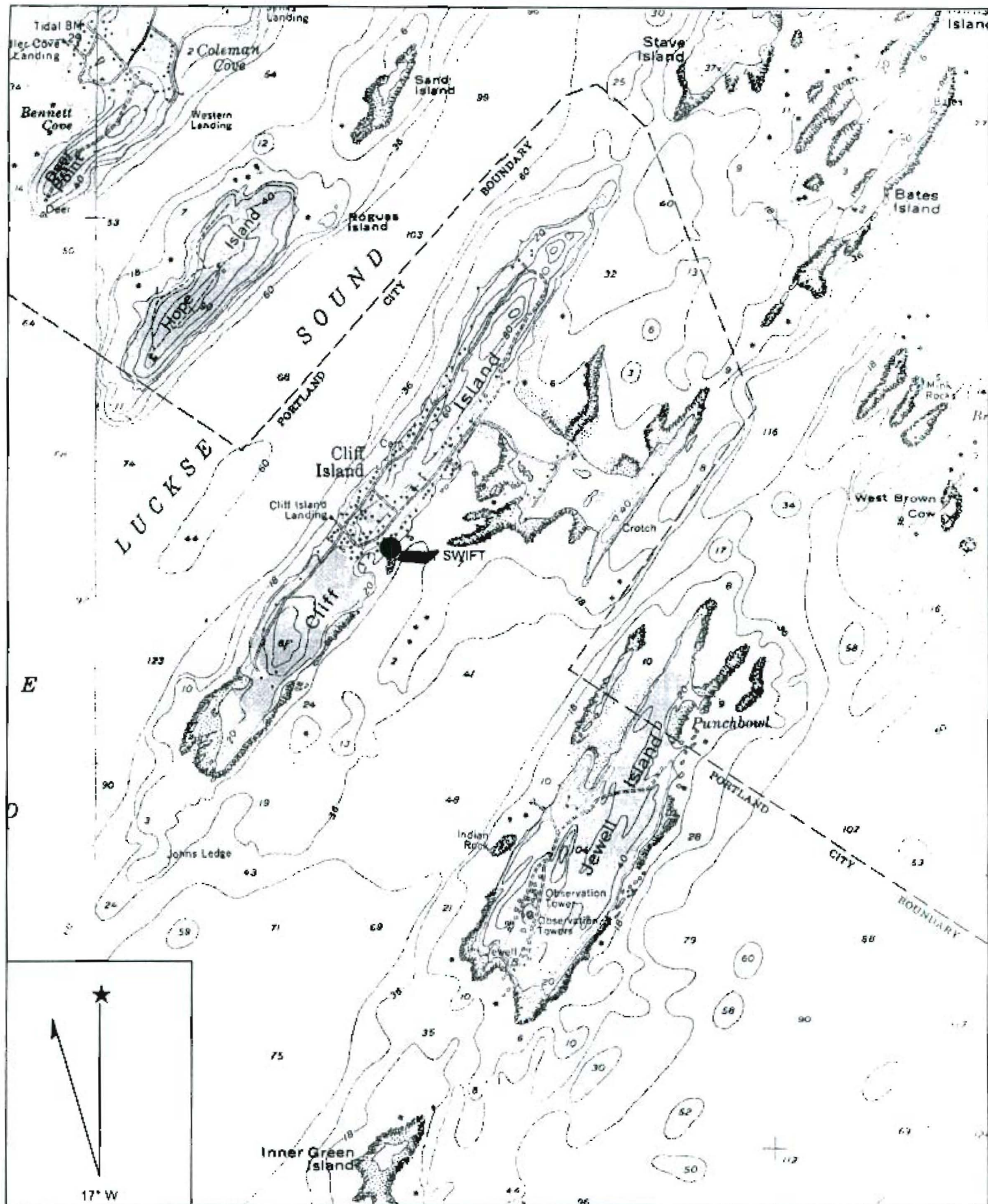
Site Evaluator Signature

267

SE #

5/23/06

Date



Name: SOUTH HARPSWELL
 Date: 5/9/2006
 Scale: 1 inch equals 2000 feet

Location: 043° 41' 26.9" N 070° 06' 01.1" W
 Caption: WALT SWIFT PROPEERTY
 CLIFF ISLAND

PROPOSED 12' ACCESS EASEMENT

Wetland 8/500'

EXISTING ABANDONED WELL

LAND OF MADAGASCAR CUSHING

AREA FOR 65 ELLIN INDRUMINS
5 Rows of 13

CIM OF Postname DORAINES P.15
52

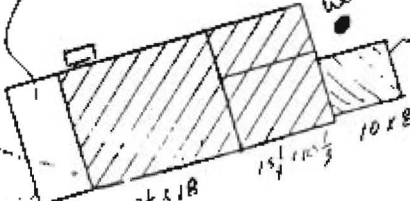
NOW OR FORMERLY WORK
DOROTHY B
CCRD 3767-018

LAND OF GORDON

DECK B118

WELL

SHED



22' x 18'

15' x 10' B'

10' x 8' B'

1/4" = 20'

1" = 20'

12.00'

12.00'

12.00'

12.00'

AP/LOK

10'

WELL

WELL SETBACK RELEASE FORM

We, the undersigned, are the owner(s) of the well and/or property herein described. We have read and understand the following information concerning the proposed separation distance between our well and the subsurface waste water disposal system for which a variance is being requested. We are prepared to accept any risk that the subsurface waste water disposal system may pose to our well.

All wells should be located a safe distance from all possible sources of contamination; in this case a subsurface waste water disposal system. The Maine Subsurface Waste Water Disposal Rules require a minimum of 100 feet between a <1000 gpd disposal system and a well; 200 feet between a 1000-2000 gpd disposal system and a well; and 300 feet between a >2000 gpd disposal system and a well. (Please circle the appropriate category.)

Since the safety of a well primarily depends on considerations of good well construction, geology and adequate maintenance of the subsurface waste water disposal system, the best means of protecting the well water quality is to maintain the maximum distance between a well and a disposal system. The Department of Human Services suggests that a maximum setback distance should be maintained.

The separation distance between our well and the subsurface wastewater disposal system for which this well release approval is requested is: component LEAK FV1 60 feet.

component 1 feet

Address of Property with Disposal System: FLAND AVE
(Include Municipal Book & Page No. or Map & Lot No.) CLIFF ISLAND ME 04019
MAP 109 B LOT FF

Owner(s) of Property with Disposal System: WALTER & KATHY SWIST

Address of Property with Well: 109 B - F 55 FLAND AVE
(Include Municipal Book & Page No. or Map & Lot No.) CLIFF ISLAND MAINE 04019
PAGE 3333 PAGE 150

Owner(s) of Property with Well: _____

We, the undersigned, release the site evaluator, well driller, the municipality and the State of Maine from liability should our well become contaminated. (Note: If the subject well has more than one owner, all well owner signatures must appear on this document.)

Well Owner(s) Signature GORDON S GRIFFIN Date JUNE 1 2006

Gordon S Griffin Date June 1 2006

State of Maine

County of CORNERLAND ss Date 1 JUNE 2006

Then personally appeared the above named GORDON S. GRIFFIN (and _____

_____) and (severally) acknowledged the foregoing instrument to be his

(or their) free act and deed

Before me, Roguel Rob
Notary Public

HHE-306 Rev 4/99

My Commission expires 3 December 2010.

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 <u>Portland</u>
Permit No. _____	Date Permit Issued _____
Property Owner's Name: <u>Kathleen Swift</u>	Tel. No.: <u>603-795-2908</u>
System's Location: <u>Cliff Island</u>	
Property Owner's Address: <u>68 Pinnacle Road</u>	
(if different from above) <u>Lyme, N.H. 03768</u>	

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. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have 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 such duties as may be necessary to evaluate the variance request.

Kathleen D Swift
SIGNATURE OF OWNER

5/31/06
DATE

LOCAL PLUMBING INSPECTOR
I, MIKE NUGENT, the undersigned, ~~has reviewed the Application 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 (check and complete either a or b):

a. (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.

-OR-

b. find that one or more of the requested Variances exceeds my approval authority as LPI. I (I recommend, I do not recommend) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, she shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments: REPLACING OVERBOARD DISCHARGE

Mike Nugent
LPI SIGNATURE

6/15/06
DATE

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
	Disposal Fields (total design flow)			Septic Tanks (total design flow)			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
SOILS								
Soil Profile	Ground Water Table			to 7'			inches	
Soil Condition	Restrictive Layer			to 7'			inches	
from HHE-200	Bedrock			to 12'			inches	
SETBACK DISTANCES (in feet)								
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft	300 ft	300 ft	150 ft	150 ft	150 ft		
Owner's wells	100 down to 60 ft [a]	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	60	25
Neighbor's wells	100 down to 60 ft [f]	200 down to 120 ft [f]	300 down to 180 ft [f]	100 down to 50 ft [f]	100 down to 75 ft [f]	100 down to 75 ft [f]	60	
Water supply line	10 ft	20 ft	25 ft [h]	10 ft	10 ft	10 ft [h]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft [d]	200 down to 120 ft [d]	300 down to 180 ft [d]	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft	70'	
Water course, minor	50 down to 25 ft [e]	100 down to 50 ft [e]	150 down to 75 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]		
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 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]		
Slopes greater than 3:1	10 ft [g]	18 ft [g]	25 ft [g]	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 ft	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 ft	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]		
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								
1. Fill extension Grade - to 3:1								
2.								
3.								

Footnotes: [a.] Single-family well setbacks may be reduced as prescribed in Section 701.2.

[b.] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the plumbing inspector's presence and shown to be watertight or of monolithic construction.

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

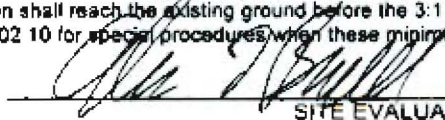
[d.] Additional setbacks may be required by local Shoreland zoning.

[e.] 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.

[f.] May not be any closer to neighbors well than the existing disposal field or septic tank unless written permission is granted by the neighbor. This setback may be reduced for single family houses with Department approval. See Section 702.3

[g.] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.

[h.] See Section 1402.10 for special procedures when these minimum setbacks cannot be achieved

 LSE #2617
SITE EVALUATOR'S SIGNATURE

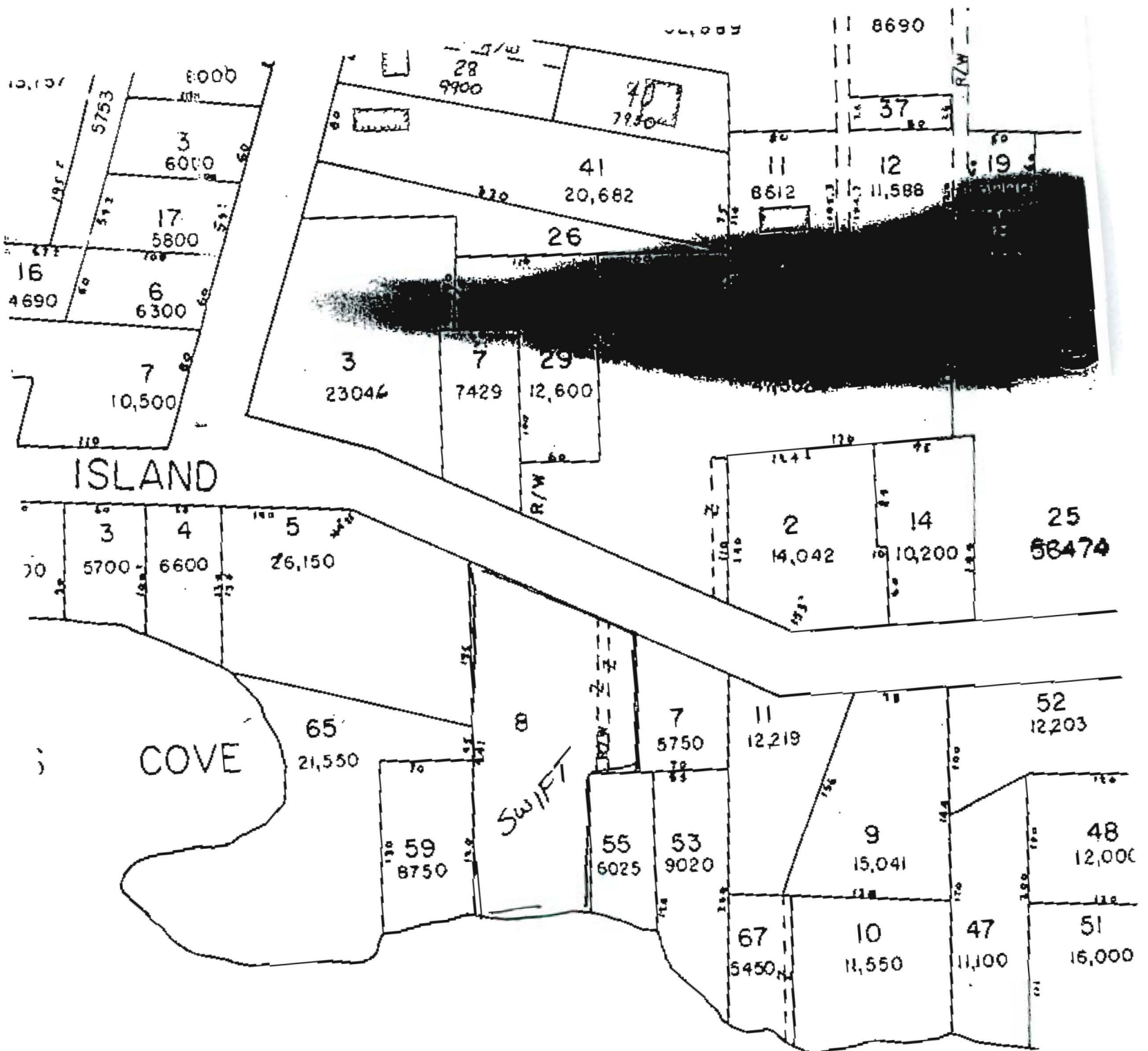
5/23/06
DATE

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and () 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



Top Ten Tank Tips

1. Pump your septic tank every two to five years, depending how heavily the system is used. Insist that the pumper clean your septic tank through the manhole in the center of the top of your septic tank, rather than the inspection ports above the inlet and outlet baffles.

2. If you use a garbage grinder (a.k.a. "dispose-all"), pump your tank every year. Or, better yet, remove the garbage grinder and compost your kitchen scraps. Garbage grinder use leads to buildups of grease from meat scraps and bones, and insoluble vegetable solids such as cellulose and lignin.

3. Keep kitchen grease, such as bacon fat and deep fryer oil, out of your septic system. It is not broken down easily by your system, can clog your drain field, and can not be dissolved by any readily available solvent that is legal to introduce to groundwater.

4. Space out laundry loads over the course of the week and wash only full loads. The average load of laundry uses 47 gallons of water. One load per day rather than 7 loads on Saturday makes a big difference to your septic system.

Also, front loading washers use less water than top loading machines.

5. Install low usage water fixtures. By installing low water usage showerheads (2.5 gallons/minute), toilets (1.6 gallons), dishwashers (5.3 gallons) and washing machines (14 gallons) an average family can reduce the amount of water entering the septic system by 20,000 gallons per year! Low flow showerheads and toilets can be purchased at local lumberyards. Water saving dishwashers and washing machines can be purchased at better appliance stores.

6. Install a septic tank outlet filter in your tank. These generally sell for \$100 to \$200 depending upon brand and model. They catch small floating particles and lightweight solids, such as hair, before they can make it out to the disposal area and cause trouble. Some models are also designed to capture suspended grease.

7. Use liquid laundry detergent. Powdered laundry detergents use clay as a "carrier." This clay can hasten the buildup of solids in the septic tank and potentially plug the disposal area.

8. Minimize the amount of household cleaners (bleach, harsh cleaners) and similar potentially toxic

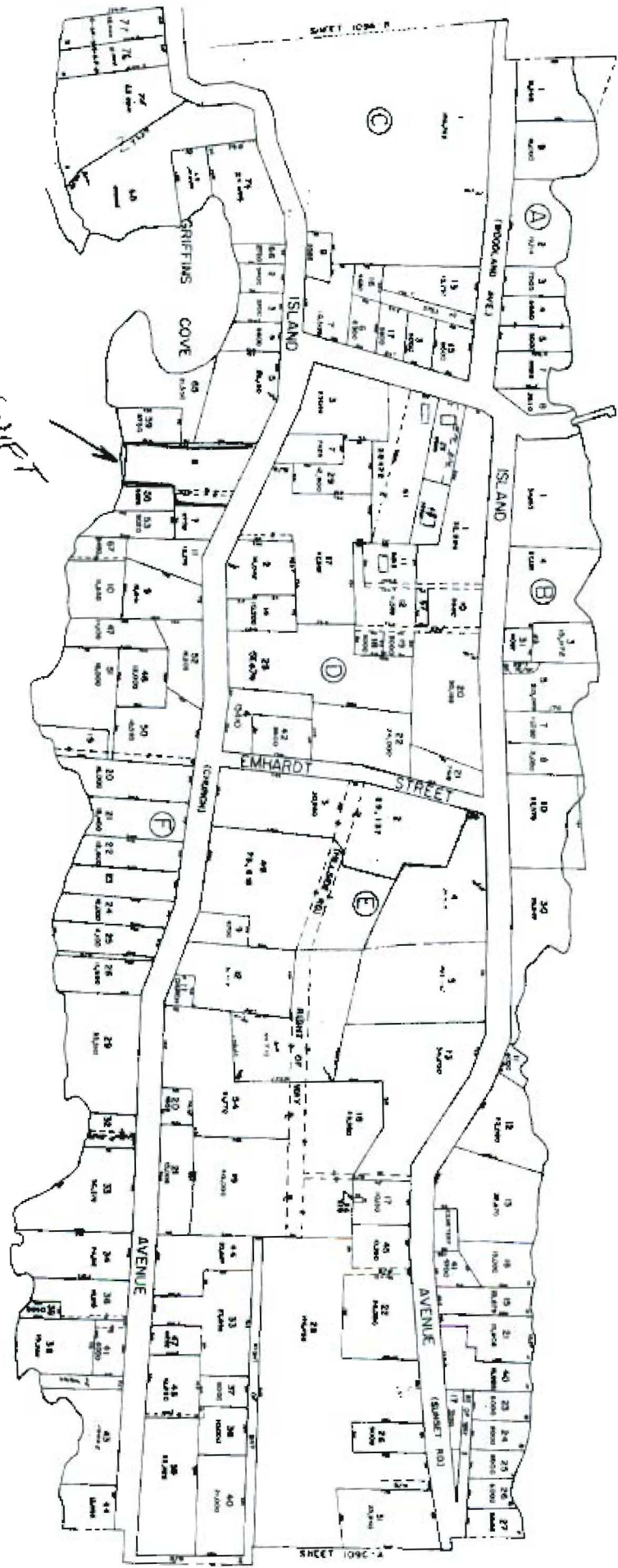
substances entering the septic system. Pump your septic tank every 6 to 12 months if you do lots of painting or staining, as with a home remodel or renovation, and you wash the tools in a sink or basin which drains to the septic system. Note: some substances are not allowed to be introduced into septic systems or groundwater tables. If in doubt, contact the Local Plumbing Inspector for more information.

9. Do not use disinfecting automatic toilet bowl cleaners, such as those containing bleach or acid compounds. The continuous slow release of these chemicals into the septic system kills the micro-organisms which treat your waste water.

10. You do not need to put special additives into your septic system. In fact, some can do more harm than good. Those which advertise that they will remove solids from your tank, usually do. The problem is that the solids exit the tank and end up in the disposal field. Once there, the solids seal off the disposal area, and the system malfunctions. Also, although it hurts nothing, it is not necessary to "seed" a new system with yeast, horse manure, and so forth. Normal human waste contains enough bacteria for the septic tank, and other microbes are already present in the soil and stones of the disposal area.



SWIFT



N 109-B
CLIFF ISLAND