

# 2006 6014 84 I 001

Maine Department of Human Services  
Division of Health Engineering, 10 SHS  
(207) 287-3672 Fax (207) 287-4172

**SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION**

<b>PROPERTY LOCATION</b>		>> Caution: Permit Required - Attach in Space Below <<	
City, Town, or Plantation	PORTLAND	PORTLAND	PERMIT # 9932 TOWN COPY
Street or Road	PEAKS ISLAND	Date Permit Issued: 5/27/06	\$1100.00 FEE Charged <input type="checkbox"/> Double Fee
Subdivision, Lot #	#48 EPPS STREET	Local Plumbing Inspector Signature: <i>[Signature]</i>	L.P.I. # 0690
<b>OWNER/APPLICANT INFORMATION</b>			
Name (last, first, MI)	HARMON JAMES & WENDY <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant		
Mailing Address of Owner/Applicant	ROBERT McTIGUE #97 BRACKETT STREET PEAKS ISLAND, ME 04108		
Daytime Tel. #	730-1083	Municipal Tax Map #	Lot #

<b>Owner or Applicant Statement</b> 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.	<b>Caution: Inspection Required</b> I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.
Signature of Owner or Applicant _____ Date _____	Local Plumbing Inspector Signature _____ (1st) Date Approved _____ _____ (2nd) Date Approved _____

PERMIT INFORMATION		
<b>TYPE OF APPLICATION</b> 1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System Type Replaced: <u>CESSPOOL</u> Year Installed: <u>UNK.</u> 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> Minor Expansion b. <input type="checkbox"/> Major Expansion 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	<b>THIS APPLICATION REQUIRES</b> 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	<b>DISPOSAL SYSTEM COMPONENTS</b> 1. <input checked="" type="checkbox"/> Complete Non-engineered System 2. <input type="checkbox"/> Primitive System (graywater & alt toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-engineered Treatment Tank (only) 5. <input type="checkbox"/> Holding Tank, _____ Gallons 6. <input type="checkbox"/> Non-engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (2000gpd+) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal field (only) 11. <input type="checkbox"/> Pre-treatment, specify: _____ 12. <input type="checkbox"/> Miscellaneous Components
<b>SIZE OF PROPERTY</b> .17 <input type="checkbox"/> sq. ft. <input checked="" type="checkbox"/> acres	<b>DISPOSAL SYSTEM TO SERVE</b> 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <u>3</u> 2. <input type="checkbox"/> Multiple Family Dwelling, No of Units: _____ 3. <input type="checkbox"/> Other: _____ (SPECIFY) Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	<b>TYPE OF WATER SUPPLY</b> 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:
<b>SHORELAND ZONING</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
<b>TREATMENT TANK</b> 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 <u>1000</u> gallons	<b>DISPOSAL FIELD TYPE &amp; SIZE</b> 1. <input type="checkbox"/> Stone Bed 2. Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. <input checked="" type="checkbox"/> cluster array c. <input type="checkbox"/> Linear b. <input checked="" type="checkbox"/> regular load d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: _____ SIZE: <u>960</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	<b>GARBAGE DISPOSAL UNIT</b> 1. <input checked="" type="checkbox"/> No 3. <input type="checkbox"/> Maybe 2. <input type="checkbox"/> Yes >> Specify one below: a. <input type="checkbox"/> multi-compartment tank b. <input type="checkbox"/> _____ tanks in series c. <input type="checkbox"/> increase in tank capacity d. <input type="checkbox"/> Filter on tank outlet	<b>DESIGN FLOW</b> <u>270</u> 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 - <b>3 BEDROOMS AT 90 GALLONS PER DAY EACH</b> 3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER METER DATA <b>LATITUDE AND LONGITUDE</b> at center of disposal area Lat. <u>43</u> d <u>39</u> m <u>23</u> s Lon. <u>70</u> d <u>11</u> m <u>45</u> s if g.p.s, state margin of error <u>26'</u>
<b>SOIL DATA &amp; DESIGN CLASS</b> PROFILE <u>2</u> / CONDITION <u>C</u> / DESIGN <u>1</u> of Observation Hole # <u>TP-2</u> Depth <u>18</u> " of Most Limiting Soil Factor	<b>DISPOSAL FIELD SIZING</b> 1. <input type="checkbox"/> Small - 2.0 sq.ft./gpd 2. <input type="checkbox"/> Medium - 2.6 sq.ft./gpd 3. <input checked="" type="checkbox"/> Medium-Large - 3.3 sq.ft./gpd 4. <input type="checkbox"/> Large - 4.1 sq.ft./gpd 5. <input type="checkbox"/> Extra-Large - 5.0 sq.ft./gpd	<b>EFFLUENT/EJECTOR PUMP</b> 1. <input type="checkbox"/> Not required 2. <input type="checkbox"/> May be required 3. <input checked="" type="checkbox"/> Required Specify only for engineered systems DOSE: <u>75-150</u> Gallons	

SITE EVALUATOR STATEMENT	
I certify that on <u>5/24/06</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).	
Site Evaluator Signature: <i>[Signature]</i>	Date: <u>5/31/06</u>
NORMAN "BUD" HARRIS (HARRIS LAND SOLUTIONS, INC.) (207) 892-2435	Page 1 of 3
Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.	HHE-200 Rev. 8/01

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Health Engineering, Station 10  
(207) 287-5872 FAX (207) 287-4172

Town, City, Plantation  
**PORTLAND**

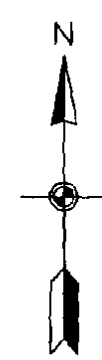
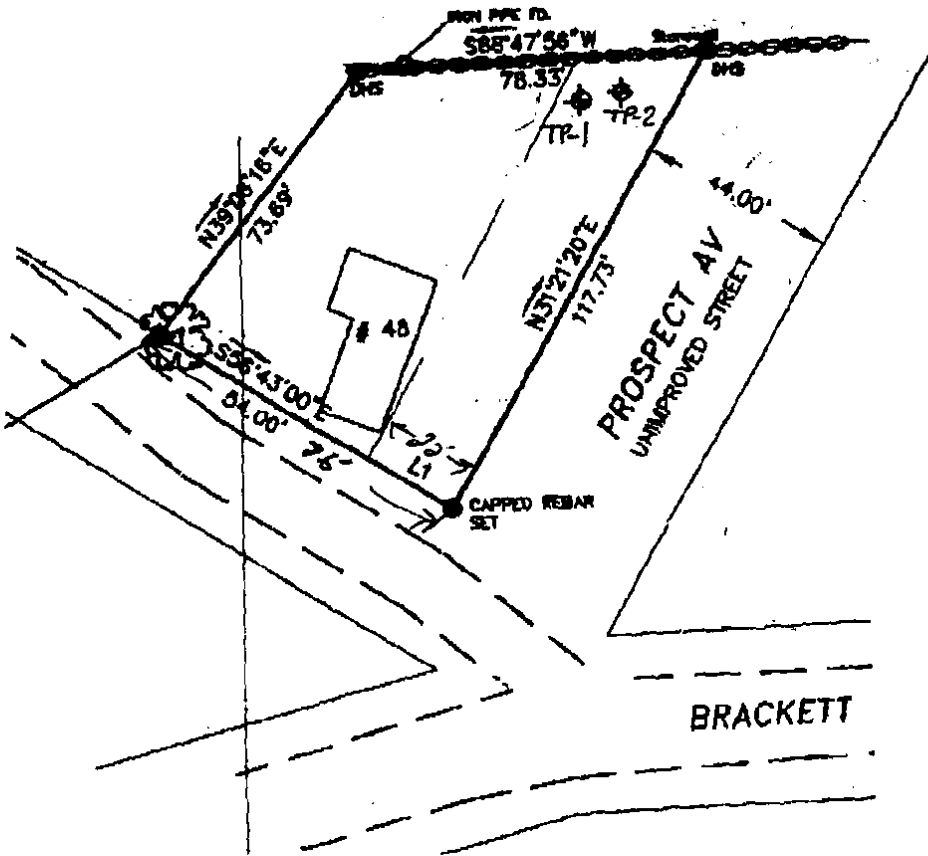
Street, Road Subdivision  
**PEAKS ISLAND, #48 EPPS STREET**

Owner or Applicant Name  
**JAMES & WENDY HARMON**

## SITE PLAN

Scale 1" = NTS Ft.

## SITE LOCATION PLAN



NORTH ORIENTATION APPROXIMATE

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

Observation Hole TP-1  Test Pit  Boring  
 \_\_\_\_\_ " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0 - 10	SANDY LOAM	FRIABLE	VERY DARK BROWN	
10 - 20	STONY LOAMY SAND	FRIABLE	DARK REDDISH BROWN	FEW & FAINT
20 - 30	BEDROCK AT 29"			
30 - 40				
40 - 50				

Soil Classification Profile: <u>3</u>	Slope: <u>0-3%</u>	Limiting Factor: <u>29"</u>	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
Soil Condition: <u>ATTC</u>			

Observation Hole TP-2  Test Pit  Boring  
 \_\_\_\_\_ " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0 - 10	SANDY LOAM	FRIABLE	VERY DARK BROWN	
10 - 20				FEW & FAINT
20 - 30	STONY LOAMY SAND	FRIABLE	DARK REDDISH BROWN	
30 - 40	BEDROCK AT 34"			
40 - 50				

Soil Classification Profile: <u>2</u>	Slope: <u>2-5%</u>	Limiting Factor: <u>16"</u>	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
Soil Condition: <u>C</u>			

Site Evaluator Signature

#348  
SE

5/31/06  
Date

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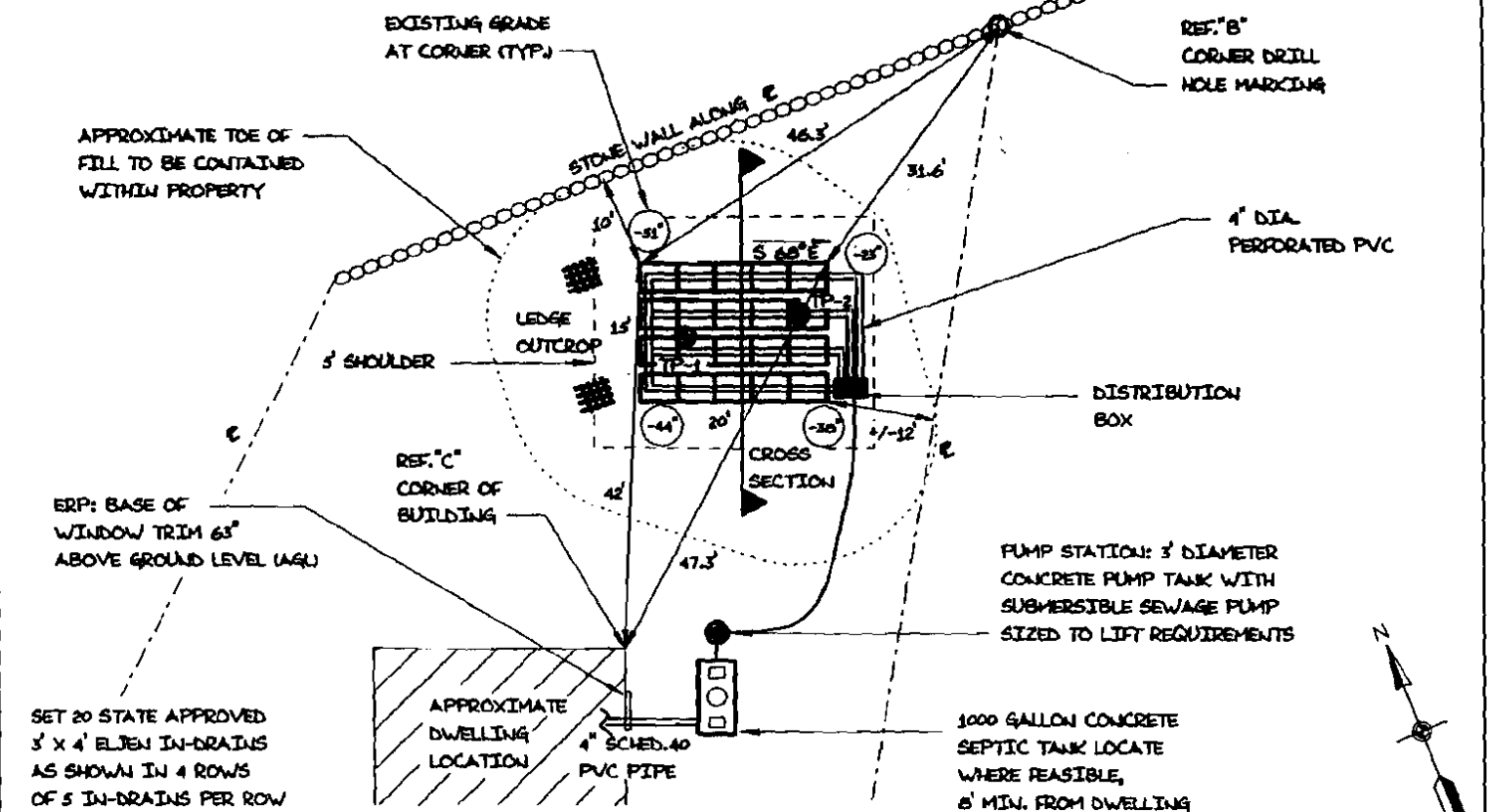
Town, City, Plantation  
**PORTLAND**

Street, Road, Subdivision  
**PEAKS ISLAND, #48 EPPS STREET**

Owner or Applicant Name  
**JAMES & WENDY HARMON**

## SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20' FT.



• IT IS THE OWNER'S RESPONSIBILITY TO VERIFY THAT THERE ARE NO UNIDENTIFIED WELLS LOCATED WITHIN 100' OF DISPOSAL SYSTEM.  
• ALL INFORMATION CONTAINED WITHIN THIS APPLICATION IS AS REPRESENTED BY OWNER, APPLICANT OR OWNER'S/APPLICANT'S REPRESENTATIVE. THE SITE EVALUATOR WILL NOT BE HELD RESPONSIBLE FOR ANY PERTINENT FACTORS NOT IDENTIFIED, DISCLOSED OR INACCURATELY DISCLOSED.

### FILL REQUIREMENTS

Depth of Fill (Upslope)	: 11" - 39"
Depth of Fill (Downslope)	: 26" - 32"

### CONSTRUCTION ELEVATIONS

Finished Grade Elevation	-12"
Top of Distribution Pipe or Proprietary Device	-24"
Bottom of Disposal Area	-35"

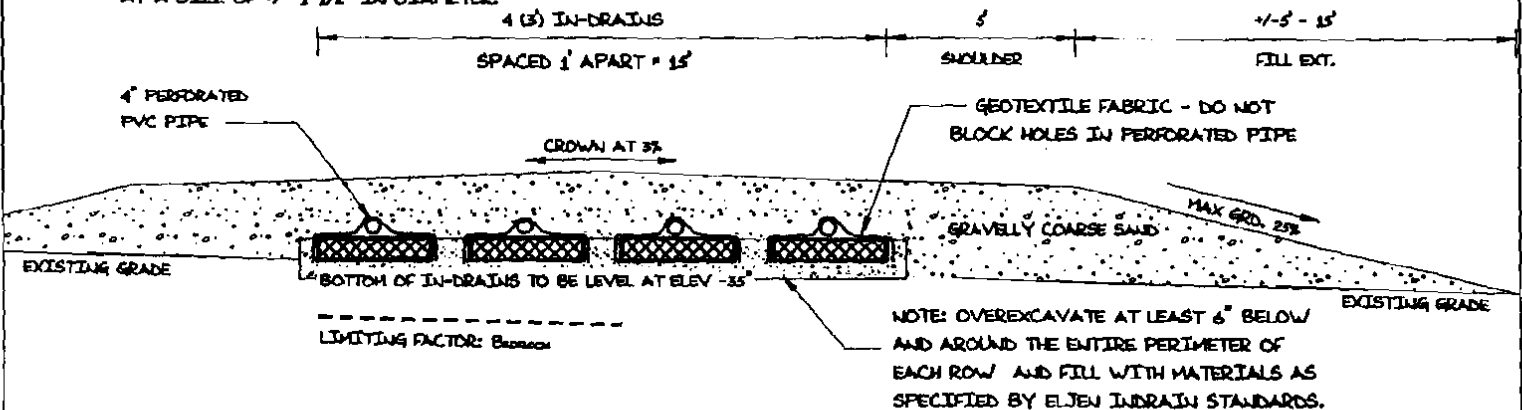
### ELEVATION REFERENCE POINT

Location & Description	BASE OF WINDOW SILL 63" AGL
Reference Elevation	-0"

### DISPOSAL FIELD CROSS-SECTION

- NOTES:
- IN-DRAINS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
  - BACKFILL TO BE GRAVELLY COARSE SAND FREE OF FINES AND ORGANIC DEBRIS
  - FINAL GRADES SHALL BE LOAMED, SEEDED AND OR MULCHED TO PREVENT EROSION
  - ANY STONE REQUIRED TO BE FREE OF FINES AND ORGANIC DEBRIS AT A SIZE OF +/- 1 1/2" IN DIAMETER.

SCALES:  
VERTICAL: 1" = 5 FT  
HORIZONTAL: 1" = 5 FT



Site Evaluator Signature  
**NORMAN "BUD" HARRIS (HARRIS LAND SOLUTIONS, INC.) (207) 892-2435**

#348 SE

5/31/06 Date

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 an 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. 1906.0)
2. There will be no change in use of the structure except as authorized for one-time exempted 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.

<b>GENERAL INFORMATION</b>		Town of <u>PORTLAND/PEAKS IS.</u>
Permit No. _____	Date Permit Issued _____	
Property Owner's Name: <u>JAMES &amp; WENDY HARMON</u>	Tel. No.: <u>730-1083</u>	
System's Location: <u>#48 EPPS STREET</u>		
Property Owner's Address: <u>C/O: ROBERT MCTIGUE</u>		
(if different from above) <u>#97 BRACKETT ST., PEAKS ISLAND, ME 04108</u>		

**SPECIFIC INSTRUCTIONS TO THE:**

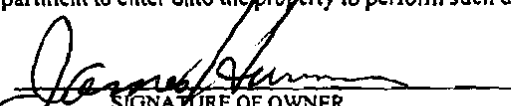
**LOCAL PLUMBING INSPECTOR (LPI):**  
If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and 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.

  
 SIGNATURE OF OWNER

6-27-06  
 DATE


**LOCAL PLUMBING INSPECTOR**

I, MIKE NYGENT, the undersigned, ~~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 ( recommend,  do not recommend) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, the reasons shall be stated in Comments Section below as to why the proposed replacement system is not being recommended.

Comments: REPLACING MALFUNCTIONING CESS POOL

  
 LPI SIGNATURE

06/27/06  
 DATE

HHE-204 Rev 08/05

**FORMS**

**Replacement System Variance Request**

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
<b>SOILS</b>								
Soil Profile	Ground Water Table			to 7"				inches
Soil Condition	Restrictive Layer			to 7"				inches
from HHE-200	Bedrock			to 12"				inches
<b>SETBACK DISTANCES (in feet)</b>	<b>Disposal Fields</b>			<b>Septic Tanks</b>			<b>Disposal Fields</b>	<b>Septic Tanks</b>
<b>From</b>	<b>Less than 1000 gpd</b>	<b>1000 to 2000 gpd</b>	<b>Over 2000 gpd</b>	<b>Less than 1000 gpd</b>	<b>1000 to 2000 gpd</b>	<b>Over 2000 gpd</b>	<b>To</b>	<b>To</b>
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		
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		
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]		
Water supply line	10 ft	20 ft	25 ft [-h]	10 ft	10 ft	10 ft [h]		
Water course, major -	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		
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		
<b>OTHER</b>								
1. Fill extension Grade - 6:3:1 AS NEEDED TO CONTAIN FILL								
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 1402.8 for special procedures when these minimum setbacks cannot be achieved.

  
SITE EVALUATOR'S SIGNATURE

5/31/06  
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

# STATEMENT TO OWNER/APPLICANT

(attachment to HHE-200)

A Site Evaluation as defined in The Maine Subsurface Wastewater Disposal Rules (October 1, 2002) is:

*" The practice of investigating, evaluating, and reporting the basic soils and site conditions that apply to waste water treatment and disposal along with a system design in compliance with this code."*

All reported site features are interpreted from information supplied by the owner, applicant or representative. This information in turn is utilized as means to design a disposal system that complies with the Maine Subsurface Wastewater Disposal Rules. The owner, applicant, and/or representative prior to signing of this application must verify this information as correct.

Minimum separation distances required for disposal systems less than 1000 gpd (unless reduced by variance)

- Well (owner or neighbor) to any disposal component 100'\*\*  
Location of neighbor's wells is often difficult to observe. Many wells may be buried or hidden, making them unidentifiable. Confirmation from neighbor that their well is greater than 100' must be obtained prior to installation.
- Water supply line to any disposal component 10'
- Building (full basement) to disposal area 20'
- Building (no full basement) to disposal area 15'
- Building to Septic Tank 8'
- Waterbody (major) to any septic component 100'
- Waterbody (minor) to any septic component 50'
- Property line to any septic component 10'\*

- \* All fill material (fill extension) to be contained within property with 4:1 slope

If after review it is agreed that all information is accurate, the following steps should be taken.

1. Sign the Owner or Applicant Statement section on page I of the application
2. Sign any Variance forms or any special circumstance forms that may be attached
3. If required, secure any neighbor variance/release form signatures
4. Repeat signatures on all copies
5. Submit 3 copies to your local Code Enforcement for review and approval

Prior to installation it is recommended that all abutting property owners be notified.

Harris Land Solutions, Inc.  
(207) 892-2435