

called 12/19/93 9:10

Map 65/E Lot 2

Town

12/29/93 2:15

REPLACEMENT SYSTEM VARIANCE REQUEST

12/21/93 12:35

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application for the proposed replacement system which does not comply with the Rules. The LPI shall review the Replacement System Variance Request and Application 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 from the rules.
2. A system cannot be designed and installed in total compliance with the Rules.
3. The design flow is less than 500 GPD.
4. There will be no change in use of the structure.
5. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.

GENERAL INFORMATION

Town of Augusta

Permit No. 9789 E

Date Permit Issued 9/1/93
MONTH/DAY/YEAR

Property Owner's Name: Nations Credit Financial Services Tel. No. 582-1862

System's Location: Togus Pond Route 105 So. Buffum Ave.
STREET

Applicant
 Property Owner's Address: Boyd Brown 30 Bridge St. P.O. Box 417
(if different from above)
Gardiner ME 04345
TOWN STATE ZIP

SPECIFIC INSTRUCTIONS TO THE:

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, they 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, then complete the Replacement Variance Request with your signature on reverse side of form.

PROPERTY OWNER:
 It 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.

The OWNER shall sign this statement. Therefore, having read both this Replacement Variance Request and the attached Application, I understand that the proposed system is not in total compliance with the Rules and hereby release all those concerned with this Variance, provided they have performed their duties in a reasonable and proper manner.

Reborah Cayel
PROPERTY OWNER'S SIGNATURE

7/31/93
DATE

VARIANCE CATEGORY	VARIANCE REQUESTED	LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS					
Soil Profile	Ground Water Table	to 6"		inches	
Soil Condition	Restrictive Layer	to 6"		inches	
from HHE-200	Bedrock	to 10"		inches	
SETBACK DISTANCES (IN FEET)	FROM:	TREATMENT TANK	DISPOSAL AREA	TREATMENT TANK	DISPOSAL AREA
Potable Water Supplies	1. Well: > 2000 gal/day	100 ^a	300 ^a		
	2. Well: < 2000 gal/day				
	a. Neighbor's	50 ^{ab}	60 ^{ab}	45'	50'
	b. Property Owner's	25'	50'	30'	35'
	3. Water Supply Line	See note 'a'			
Waterbodies	1. Perennial	50'	60'	70'	40'
	2. Intermittent	15'	20'		
	3. Manmade drainage ditch	10'	15'		
Downhill Slope	Greater than 3:1 (33%)	5 ^c	10 ^c		8'
Buildings	1. With Basement	5'	10'	1'	2'
<i>Anderson Camp</i>	2. Without Basement	5'	10'		7'
Property Line		4'	5'		5'

OTHER

1. Fill extension Grade—to 3:1

2.

3.

Footnotes:

- a. This setback distance cannot be reduced by variance. See Table 6-2.
- b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 feet but closer to that well than the system it is replacing.
- c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope.

Charles H. King
SITE EVALUATOR'S SIGNATURE

27 July 93
DATE

LPI STATEMENT

I, *Charles H. King, Jr.*, LPI for the Town of *Augusta* have conducted an on-site inspection for the proposed replacement system and have determined to the best of my knowledge, that it cannot be installed in total compliance with the Rules, applicable Municipal Wastewater Disposal Ordinances, or the Local Shoreland Zoning Ordinance. As a result of my review of the Replacement System Variance Request, the Application, and my on-site investigation, I (check and complete either a or b):

a. (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, he shall state his reasons in **Comments** Section below as to why the proposed replacement system is not being recommended.

Comments: _____

Charles H. King, Jr.
LPI'S SIGNATURE

8/16/93
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

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION
TOGUS POND, ROUTE 105, AUGUSTA, MAINE
Property Of
NATIONS CREDIT FINANCIAL SERVICES
July 1993

Design Flow

This small parcel (approximately 60' x 150') fronts on both Route 105 and Togus Pond. It has two units referred to as a house and camp on the HHE-200 form. Each has one bedroom and one bathroom. The replacement system is designed in the same area as the failed existing system on the Togus Pond side of the property. The systems location is very inaccessible. Abutters on both sides have buildings within a foot or two of the property line. Because of this the site was not accessible by backhoe and soil exploration was accomplished with a hand shovel and auger. There are many huge boulders on the surface and some were located underground as well. Refusal in the test pits appeared to be mostly small rocks, but this cannot be confirmed without a backhoe. Three large rocks or boulders, the size of which cannot be determined by hand, were located at the west end of row #1, the east end of row #3 and the east end of row #4. The system design calls for the installation of twelve infiltrators, however the boulders at the west end of row #1 and east end of row #3 could prevent the installation of two infiltrators. The design flow of 147 gallons per day assumes that only ten can be installed. If all twelve could be installed the design flow would be 176 gallons per day. Even 176 gallons per day does not meet the minimum flow criteria in Maine's Subsurface Wastewater Disposal Rules for 2 bedrooms. Most of the system setback distances also do not meet the disposal rules minimum criteria. These are identified on the Replacement System Variance Request. Because of these several problem areas the use of this property should be restricted to two bedrooms. Low flow fixtures should be installed. These include low volume toilets, showerheads and faucets. There is no washing machine for clothes in either unit now and the installation of one should be prohibited.

Replacement System Variance Request

There is little room to maneuver on this site when a subsurface obstacle is encountered during construction. Because of this the variance request is asking for more than is laid out on site. Rows #1 and #2 are ten feet from the retaining wall, but the request is for eight feet. Rows #3 and #4 are nine feet and seven feet respectively from the Anderson camp and property line but the request is for seven feet and five feet respectively. The east end of row #4 is 43' from Togus Pond and the variance request is for 40'.

Construction Consideration

The infiltrators and polyethylene septic tank that are recommended can be handled without machinery. The chances of installing the system however would be greatly improved with equipment. It would be possible to hoist a small unit like a Skid-Steer between the camp and house with an excavator. The deck behind the house would have to be removed temporarily if a small piece of equipment is to be used to install the system.

This system can be installed to operate by gravity if the plumbing in both the house and camp is raised. The rows of infiltrators are set low enough to have everything under ground. The replacement septic tank, however, is larger than the existing tank and there may be problems getting it totally under ground. If part of the tank remains above ground freeze protection should be provided. The rows of infiltrators can be raised if necessary and this would require more fill. For example if rows #1 and #2 were raised one foot, six inches of additional fill would be required over the existing ground.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

PROPERTY ADDRESS

Town Or Plantation: Augusta

Street /division Lot #: Route 105

PROPERTY OWNERS NAME

Nations Credit Financial Services

Last: _____ First: _____

Applicant Name: Boyd Brown 582-1862

Mailing Address of Owner/Applicant (If Different): P.O. Box 417 Gardiner, ME 04345

Picked up 5/15/94

AUGUSTA 2789 TOWN COPY

Date Permit Issued: 6/9/93 \$ 600.00 Double Fee Charged

[Signature] L.P.I. # 888

Local Plumbing Inspector Signature

Owner/Applicant Statement

I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspector to deny a Permit.

[Signature] 7/31/93

Signature of Owner/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.

[Signature] 12/28/94

Local Plumbing Inspector Signature Date Approved

PERMIT INFORMATION

THIS APPLICATION IS FOR:

1. NEW SYSTEM

2. REPLACEMENT SYSTEM

3. EXPANDED SYSTEM

4. EXPERIMENTAL SYSTEM

THIS APPLICATION REQUIRES:

1. NO RULE VARIANCE

2. NEW SYSTEM VARIANCE
Attach New System Variance Form

3. REPLACEMENT SYSTEM VARIANCE
Attach Replacement System Variance Form

a. Requiring Local Plumbing Inspector Approval

b. Requires State and Local Plumbing Inspector Approval

4. MINIMUM LOT SIZE VARIANCE

INSTALLATION IS:

COMPLETE SYSTEM

1. NON-ENGINEERED SYSTEM

2. PRIMITIVE SYSTEM
(Includes Alternative Toilet)

3. ENGINEERED (+ 2000 gpd)

INDIVIDUALLY INSTALLED COMPONENTS:

4. TREATMENT TANK (ONLY)

5. HOLDING TANK _____ GAL

6. ALTERNATIVE TOILET (ONLY)

7. NON-ENGINEERED DISPOSAL AREA (ONLY)

8. ENGINEERED DISPOSAL AREA (ONLY)

9. SEPARATED LAUNDRY SYSTEM

SEASONAL CONVERSION

to be completed by the LPI

5. SYSTEM COMPLIES WITH RULES

6. CONNECTED TO SANITARY SEWER

7. SYSTEM INSTALLED - P# _____

8. SYSTEM DESIGN RECORDED AND ATTACHED

IF REPLACEMENT SYSTEM:

YEAR FAILING SYSTEM INSTALLED ?

THE FAILING SYSTEM IS:

1. BED 3. TRENCH

2. CHAMBER 4. OTHER: _____

DISPOSAL SYSTEM TO SERVE:

1. SINGLE FAMILY DWELLING

2. MODULAR OR MOBILE HOME

3. MULTIPLE FAMILY DWELLING

4. OTHER + Camp

SPECIFY _____

SIZE OF PROPERTY 10,000 sq. ft.

ZONING Shoreline

TYPE OF WATER SUPPLY

Drilled well

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

1. SEPTIC: Regular Low Profile

2. AEROBIC

SIZE: 750 GALS.

WATER CONSERVATION

1. NONE

2. LOW VOLUME TOILET

3. SEPARATED LAUNDRY SYSTEM

4. ALTERNATIVE TOILET

SPECIFY: _____

PUMPING

1. NOT REQUIRED

2. MAY BE REQUIRED
(DEPENDING ON TREATMENT TANK LOCATION AND ELEVATION)

3. REQUIRED

DOSE: 50 GALS.

CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.)

Two Bed Room

10 x 25

1.7

DESIGN FLOW: 147
(GALLONS/DAY)

SOIL CONDITIONS USED FOR DESIGN PURPOSES

PROFILE 2 CONDITION C

DEPTH TO LIMITING FACTOR: Not Observed

SIZE RATINGS USED FOR DESIGN PURPOSES

1. SMALL

2. MEDIUM

3. MEDIUM-LARGE

4. LARGE

5. EXTRA LARGE

DISPOSAL AREA TYPE/SIZE

1. BED _____ Sq. Ft.

2. CHAMBER 250 Sq. Ft.

REGULAR H-20

3. TRENCH _____ Linear Ft.

4. OTHER: _____

SITE EVALUATOR STATEMENT

On 9 June 93 (date) I conducted a site evaluation for this project and certify that the data reported is accurate. The system I propose is in accordance with the Subsurface Wastewater Disposal Rules.

Charles N. King 094 10 June 93

Site Evaluator Signature SE# Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation

Street, Road, Subdivision

Owners Name

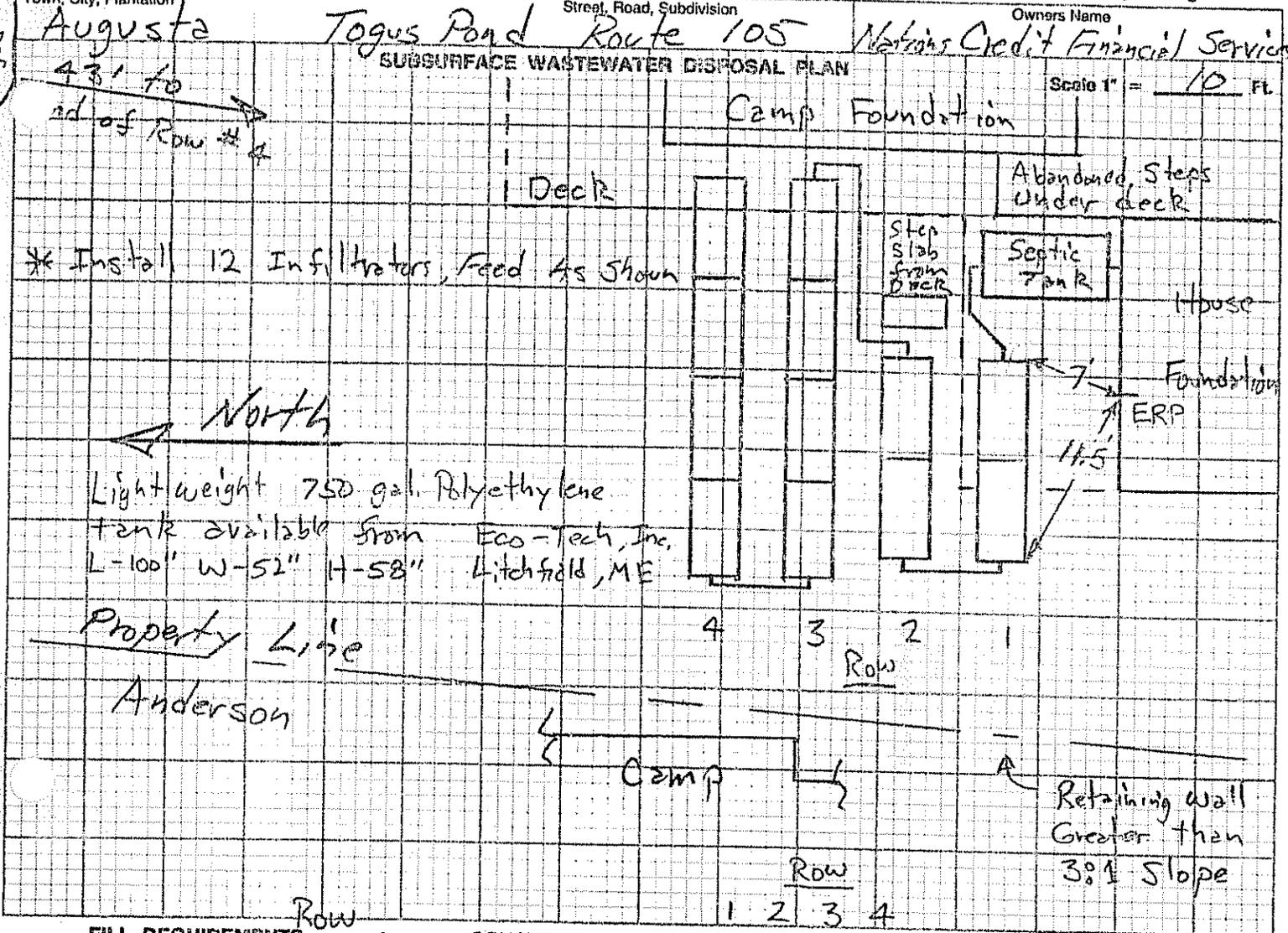
Augusta

Togus Pond Route 105

Nations Credit Financial Services

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 10 ft



* Install 12 Infiltrators, Feed As Shown

Light weight 750 gall. Polyethylene tank available from Eco-Tech, Inc. Litchfield, ME
L-100" W-52" H-58"

Property Line
Anderson

Retaining wall Greater than 3:1 Slope

FILL REQUIREMENTS
Depth of Fill (Upslope) 3-6"
Depth of Fill (Downslope) 4-12"

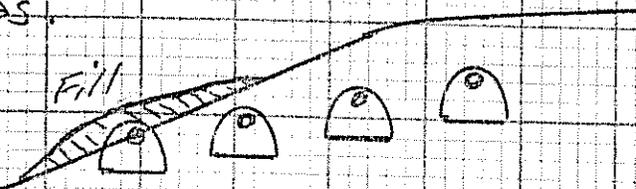
CONSTRUCTION ELEVATIONS
Reference Elevation is 0"
Bottom of Disposal Area -60" 60" 72" 78"
Top of Distribution Lines or Chambers 45" 51" 57" 63"

ELEVATION REFERENCE POINT LOCATION & DESCRIPTION
Flagged Nail In Cellar Door
Frame 2' Above Ground

DISPOSAL AREA CROSS SECTION

Place 2"-3" layer of gravel next to infiltrator slots before backfilling. Excavated material suitable for backfill after removing rocks. Seed disturbed areas.

Scale:
Vertical: 1 Inch = 5 Ft.
Horizontal: 1 Inch = 10 Ft.



Attachments - Explanatory Notes (two pages)
- Replacement System Variance Request
- 3 Well Setback Release Forms

Charles H. King
Site Evaluator Signature

0094
SE#

26 July 93
Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

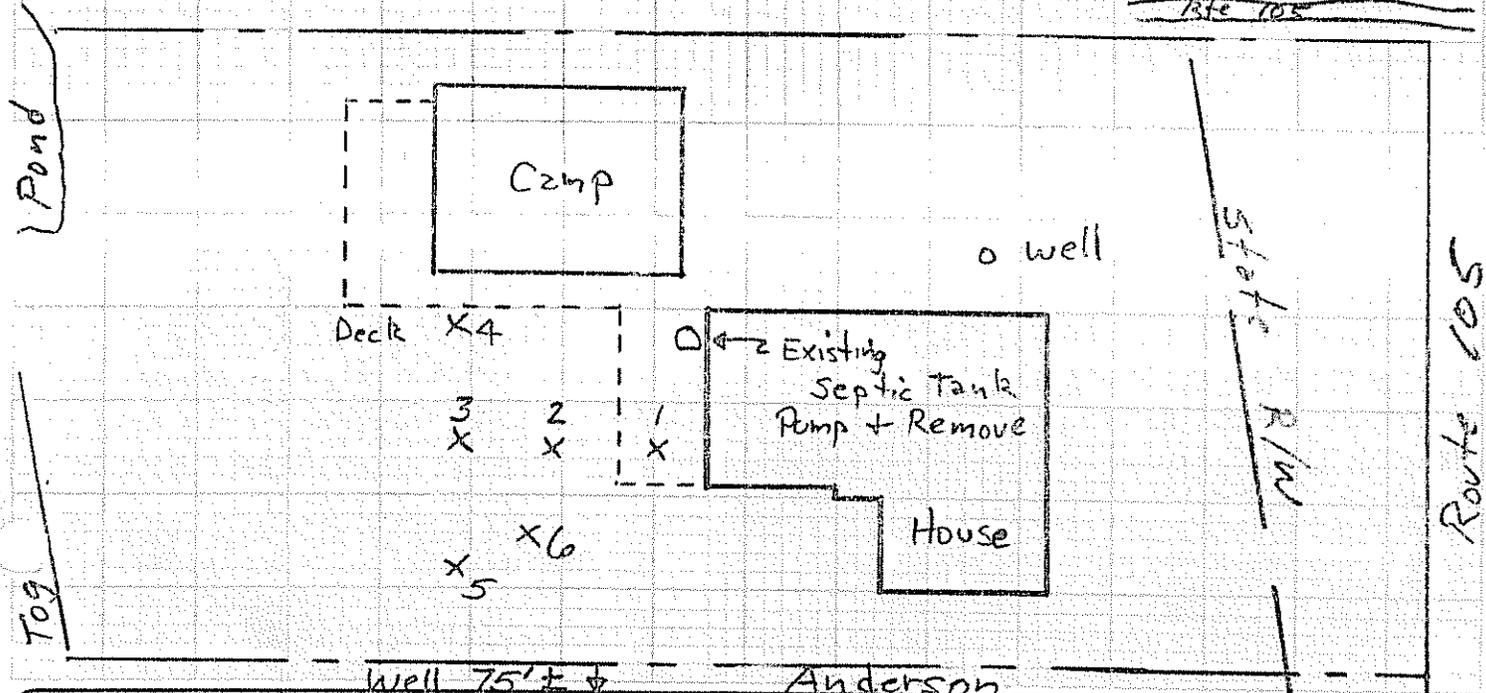
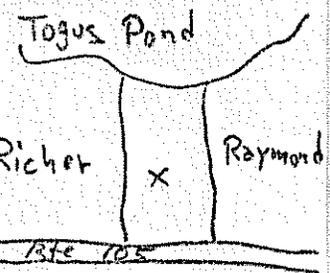
Town, City, Plantation: Augusta Street, Road, Subdivision: Togus Pond Route 105 Nations Credit Financial Services Owners Name

SITE PLAN

Scale 1" = 20 Ft.

SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)

North



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

Observation Hole 1, 2, 5, 6 Test Pit Boring
 0" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0-6	Sandy Loam	Friable	Brown	None
6-10	Sandy Loam	Friable	Tan	None
10-15	to			
15-20	Loamy Sand			
20-30	Many large Boulders on surface.	Refusal on all test pits		
30-40		#1 - 24"	#5 - 30"	
40-50	Must be subsurface also	#2 - 26"	#6 - 36"	

Soil Profile <u>2</u>	Classification <u>C</u>	Slope <u>15</u> %	Limiting Factor <u>Not Observed</u>	<input type="checkbox"/> Ground Water
	Condition			<input type="checkbox"/> Restrictive Layer
				<input type="checkbox"/> Bedrock

Observation Hole 3 Test Pit Boring
 0" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0-8	Gravel + loamy	Loose	Brown	None
8-15	Sand			
15-20	In Broken Bottles + Rusted Cons			
20-30				Refusal @ 26"
30-40	TP #4 in area of old system, soil dark			on Rocks
40-50	Refusal on Rock @ 43"			

Soil Profile <u>2</u>	Classification <u>C</u>	Slope <u>15</u> %	Limiting Factor <u>Not Observed</u>	<input type="checkbox"/> Ground Water
	Condition			<input type="checkbox"/> Restrictive Layer
				<input type="checkbox"/> Bedrock

Charles H. King
Site Evaluator Signature

094
SE#

16 June 93
Date



John R. McKernan, Jr.
Governor

Rollin Ives
Commissioner

STATE OF MAINE
DEPARTMENT OF HUMAN SERVICES
AUGUSTA, MAINE 04333

WELL SETBACK RELEASE FORM

I, Nations Credit Fin. Ser, permanent mailing address 9 Trafalgar Square,
(name of well owner) (street, road, etc.)

Nashua, NH, hereby give my approval to Nations Credit-Financial Services,
(town) (owner of system being installed)

permanent mailing address 9 Trafalgar Square, Nashua, NH,
(street, road, etc.) (town)

for the purpose of locating and installing a wastewater disposal system (holding tank) no
less than 30 feet (horizontal distance) to my 60+- foot deep drilled well
(drilled, dug, etc., plus depth to well)

located at Rt 105, Togus Pond, Augusta, Maine.
(well location and address, if different from the above address)

NATIONSCREDIT FINANCIAL SERVICES CORP.

John M Clark 6/22/93
Signature - Owner of well Date

JOHN M. CLARK, ITS MANAGER DULY AUTHORIZED
NATIONSCREDIT FINANCIAL SERVICES CORP.

John M Clark 6/22/93
Signature - Owner of disposal Date
JOHN M. CLARK field ITS MANAGER DULY AUTHORIZED

Luella L. Battersby 6/22/93
Signature - Witness Date



John R. McKernan, Jr.
Governor

Rollin Ives
Commissioner

STATE OF MAINE
DEPARTMENT OF HUMAN SERVICES
AUGUSTA, MAINE 04333

WELL SETBACK RELEASE FORM

I, Maness Raymond, permanent mailing address RFD # 7 Box 2075
(name of well owner) (street, road, etc.)

Augusta, ME, hereby give my approval to Nations Credit-Financial Services,
(town) (owner of system being installed)

permanent mailing address 9 Trafalgar Square, Nashua, NH
(street, road, etc.) (town)

for the purpose of locating and installing a wastewater disposal system ~~(holding tank)~~ ^{on the WATERFRONT SIDE} no

less than 45 feet (horizontal distance) to my UNK. foot deep drilled well
(drilled, dug, etc., plus depth to well)

located at Rt 105, Togus Pond, Augusta, Maine
(well location and address, if different from the above address)

[Signature] 7/21/93
Signature - Owner of well Date

[Signature] 6/22/93
Signature - Owner of disposal Date
JOHN M. CLARK field ITS MANAGER DULY AUTHORIZED

[Signature] 7/21/93
Signature - Witness Date



John R. McKernan, Jr.
Governor

Rollin Ives
Commissioner

STATE OF MAINE
DEPARTMENT OF HUMAN SERVICES
AUGUSTA, MAINE 04333

WELL SETBACK RELEASE FORM

I, James D. Anderson, permanent mailing address 3 Grand View Terrace,
(name of well owner) (street, road, etc.)

San Francisco, CA, hereby give my approval to Nations Credit-Financial Services,
(town) (owner of system being installed)

permanent mailing address 9 Trafalgar Square, Nashua, NH,
(street, road, etc.) (town)

for the purpose of locating and installing a wastewater disposal system (holding tank) no
less than 85 feet (horizontal distance) to my ? foot deep drilled well
(drilled, dug, etc., plus depth to well)

located at Rt 105, Togus Pond, Augusta, Maine
(well location and address, if different from the above address)

Unknown

James D Anderson 7/1/93
Signature - Owner of well Date
NATIONS CREDIT FINANCIAL SERVICES CORP.

John M Clark 6/22/93
Signature - Owner of disposal Date
JOHN M. CLARK field ITS MANAGER DULY AUTHORIZED

T. Waiayo 7/1/93
Signature - Witness Date



John R. McKernan, Jr.
Governor

Jane Sheehan
Commissioner

STATE OF MAINE
DEPARTMENT OF HUMAN SERVICES
AUGUSTA, MAINE 04333

ADDRESS REPLY TO

August 30, 1993

Nations Credit Financial Services
c/o Boyd Brown
PO Box 417
Gardiner ME 04345

REPLACEMENT SYSTEM VARIANCE REQUEST
CONDITIONAL

Dear Mr. Brown:

The Division has reviewed the variance to the Subsurface Wastewater Disposal Rules to install a replacement subsurface wastewater disposal system at:

Street Route 105, Togus Pond
Town/City Augusta
State Maine

The Division approves the variance with the following conditions:

1. The existing house is approved for the usage of the proposed 147 gallon per day system designed by Charles King, Site Evaluator.
2. The existing camp is not approved to utilize the 147 gallon per day system. The camp will require a separate holding tank application stating the one bedroom camp will be used only seasonally.
3. A water meter and low volume fixtures shall be installed.

Respectfully,

A handwritten signature in cursive script that reads "Rick Smith".

Rick Smith
Wastewater & Plumbing Control
Division of Health Engineering

cc: George Soucy, LPI
Charles King, SE