

P17 6/16/14

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 Fax: (207) 287-4172

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

PROPERTY LOCATION

City, Town, or Plantation: **AUGUSTA**
Street or Road: **115 WOODARD ROAD**
Subdivision, Lot #: **M69/L10**

AUGUSTA PERMIT #6945
Date Permit Issued: **6/16/14**

TOWN COPY
\$**200.00** fee
15.00
LPI # **800**

OWNER/APPLICANT INFORMATION

Name (last, first, MI): **COLFER, TOM** Owner Applicant
Mailing Address of Owner/Applicant: **1 SERENITY DRIVE WEST GARDNER, ME**
Daytime Tel. #: **751-7752 04345**

Tom Colfer
Signature of Owner or Applicant

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.

Tom Colfer
Signature of Owner or Applicant
Date: **4 May 2014**

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

May R. Furlan
Local Plumbing Inspector Signature
Date approved: **7/16/14**

PERMIT INFORMATION

TYPE OF APPLICATION
 1. First Time System
 2. Replacement System
Type replaced: **TRENCH**
Year installed: **?**
 3. Expanded System
a. <25% Expansion
b. >25% Expansion
 4. Experimental System
 5. Seasonal Conversion

THIS APPLICATION REQUIRES
 1. No Rule Variance
 2. First Time System Variance
 a. Local Plumbing Inspector Approval
 b. State & Local Plumbing Inspector Approval
 3. Replacement System Variance
 a. Local Plumbing Inspector Approval
 b. State & Local Plumbing Inspector Approval
 4. Minimum Lot Size Variance
 5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS
 1. Complete Non-engineered System
 2. Primitive System (graywater & alt. toilet)
 3. Alternative Toilet, specify: _____
 4. Non-engineered Treatment Tank (only)
 5. Holding Tank, _____ gallons
 6. Non-engineered Disposal Field (only)
 7. Separated Laundry System
 8. Complete Engineered System (2000 gpd or more)
 9. Engineered Treatment Tank (only)
 10. Engineered Disposal Field (only)
 11. Pre-treatment, specify: _____
 12. Miscellaneous Components

SIZE OF PROPERTY
± 0.33 SQ. FT. ACRES

SHORELAND ZONING
 Yes No

DISPOSAL SYSTEM TO SERVE
 1. Single Family Dwelling Unit, No. of Bedrooms: **2**
 2. Multiple Family Dwelling, No. of Units: _____
 3. Other: _____ (specify)
Current Use Seasonal Year Round Undeveloped

TYPE OF WATER SUPPLY
 1. Drilled Well 2. Dug Well 3. Private
 4. Public 5. Other **SIPHON FROM LAKE**

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
 1. Concrete
 a. Regular
 b. Low Profile
 2. Plastic
 3. Other: _____
CAPACITY: **1000** GAL

DISPOSAL FIELD TYPE & SIZE
 1. Stone Bed 2. Stone Trench
 3. Proprietary Device
 a. cluster array c. Linear
 b. regular load d. H-20 load
 4. Other: **ELSEN IN DRAINS**
SIZE: **768** sq. ft. lin. ft.

GARBAGE DISPOSAL UNIT
 1. No 2. Yes 3. Maybe
If Yes or Maybe, specify one below:
 a. multi-compartment tank
 b. _____ tanks in series
 c. increase in tank capacity
 d. Filter on Tank Outlet

DESIGN FLOW
180 gallons per day
BASED ON:
 1. Table 4A (dwelling unit(s))
 2. Table 4C (other facilities)
SHOW CALCULATIONS for other facilities

SOIL DATA & DESIGN CLASS
PROFILE CONDITION: **3, C/ATP**
at Observation Hole # **1**
Depth: **30**
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING
 1. Medium---2.6 sq. ft. / gpd
 2. Medium---Large 3.3 sq. ft. / gpd
 3. Large---4.1 sq. ft. / gpd
 4. Extra Large---5.0 sq. ft. / gpd

EFFLUENT/EJECTOR PUMP
 Not Required
 May Be Required
 Required
Specify only for engineered systems:
DOSE: _____ gallons

LATITUDE AND LONGITUDE
at center of disposal area
Lat. **44** d **19** m **15** s
Lon. **69** d **39** m **00** s
if g.p.s., state margin of error.

SITE EVALUATOR STATEMENT

I certify that on **4/19/14** (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).

Vaughn L. Smith
Site Evaluator Signature
VAUGHN L. SMITH
Site Evaluator Name Printed

226
L, SE #
441-2388
Telephone Number

5/12/14
Date
SOILTESTMAN@AOL.COM
E-mail Address

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5472 FAX (207) 287-4172

Town, City, Plantation
AUGUSTA

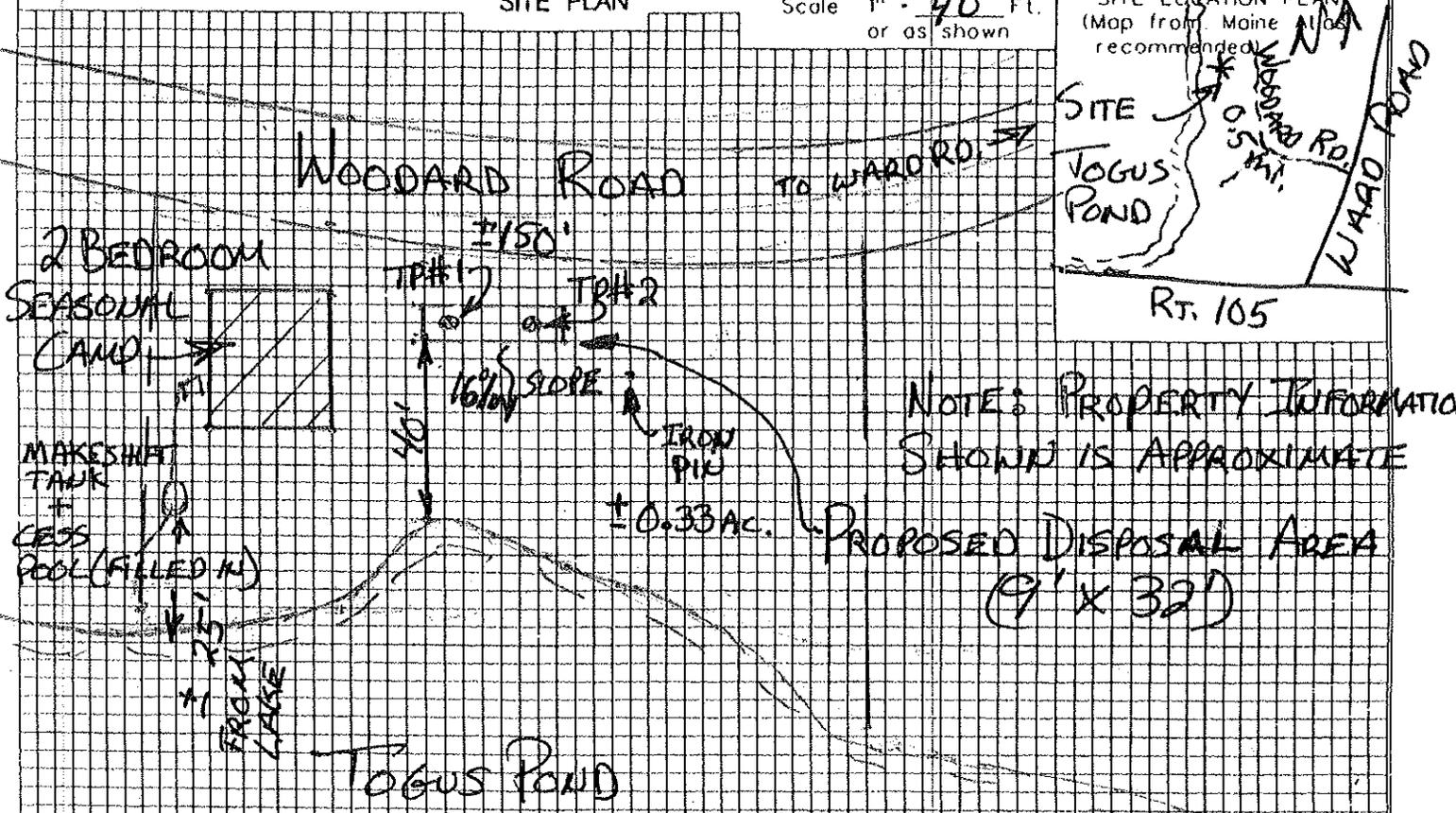
Street/Road Subdivision
115 WOODARD ROAD

Owner's Name
TOM COLFER

SITE PLAN

Scale 1" = 40 Ft.
or as shown

SITE LOCATION PLAN
(Map from Maine Atlas recommended)



NOTES: PROPERTY INFORMATION SHOWN IS APPROXIMATE

PROPOSED DISPOSAL AREA (9' x 32')

SOIL DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

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

Observation Hole #2 Test Pit Boring
2 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
COBBLY	FRIABLE	BROWN	NONE
SANDY		YELLOWISH	
LOAM		BROWN	
	FIRM	PALE OLIVE	FEW DISTINCT
BEDROCK REFUSAL @ 30"			

Texture	Consistency	Color	Mottling
COBBLY	FRIABLE	BROWN	NONE
SANDY		STRONG BROWN	
LOAM		BROWN	
	FIRM	PALE OLIVE	FEW DISTINCT
BEDROCK REFUSAL @ 32"			

Soil Classification Profile Condition **C/III**

Slope **17%**

Limiting Factor **30**

- Ground Water
- Restrictive Layer
- Bedrock
- Pit Depth

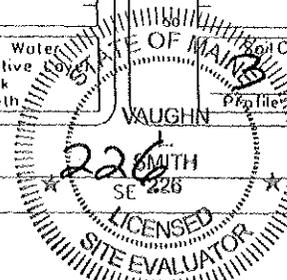
Soil Classification Profile Condition **C/III**

Slope **15%**

Limiting Factor **32**

- Ground Water
- Restrictive Layer
- Bedrock
- Pit Depth

Vaneja L. Smith
Site Evaluator Signature



5/12/14
Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-4172

Town, City, Plantation
AUGUSTA

Street, Road, Subdivision
115 WOODARD ROAD

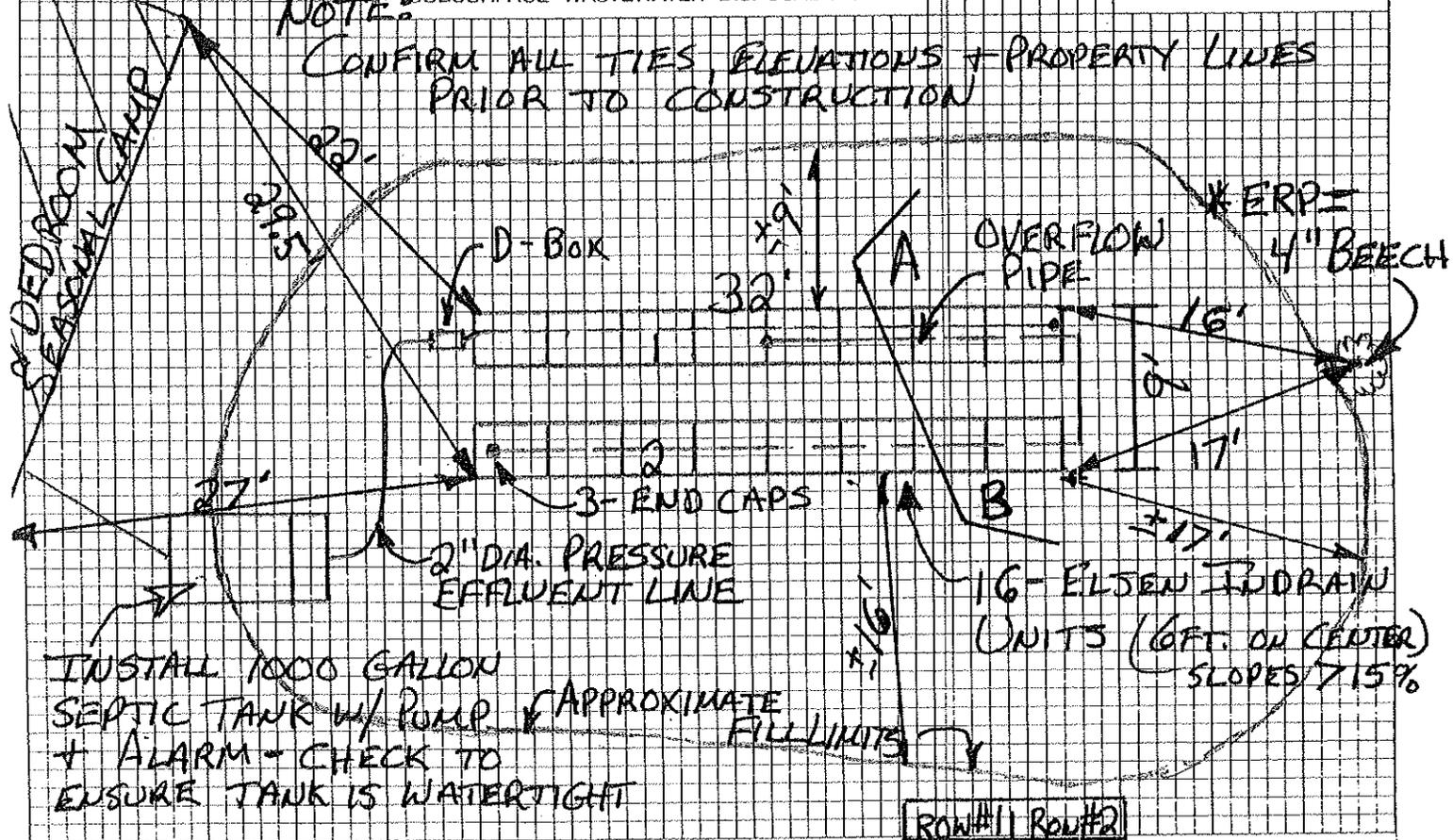
Owner's Name
TOM COLFER

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 10 FT.

NOTE:

CONFIRM ALL TIES, ELEVATIONS + PROPERTY LINES
PRIOR TO CONSTRUCTION



INSTALL 1000 GALLON SEPTIC TANK W/ PUMP + ALARM - CHECK TO ENSURE TANK IS WATERTIGHT

FILL REQUIREMENTS

Depth of Fill (Upslope) ±17"
 Depth of Fill (Downslope) ±30"

FILL DEPTHS WILL VARY

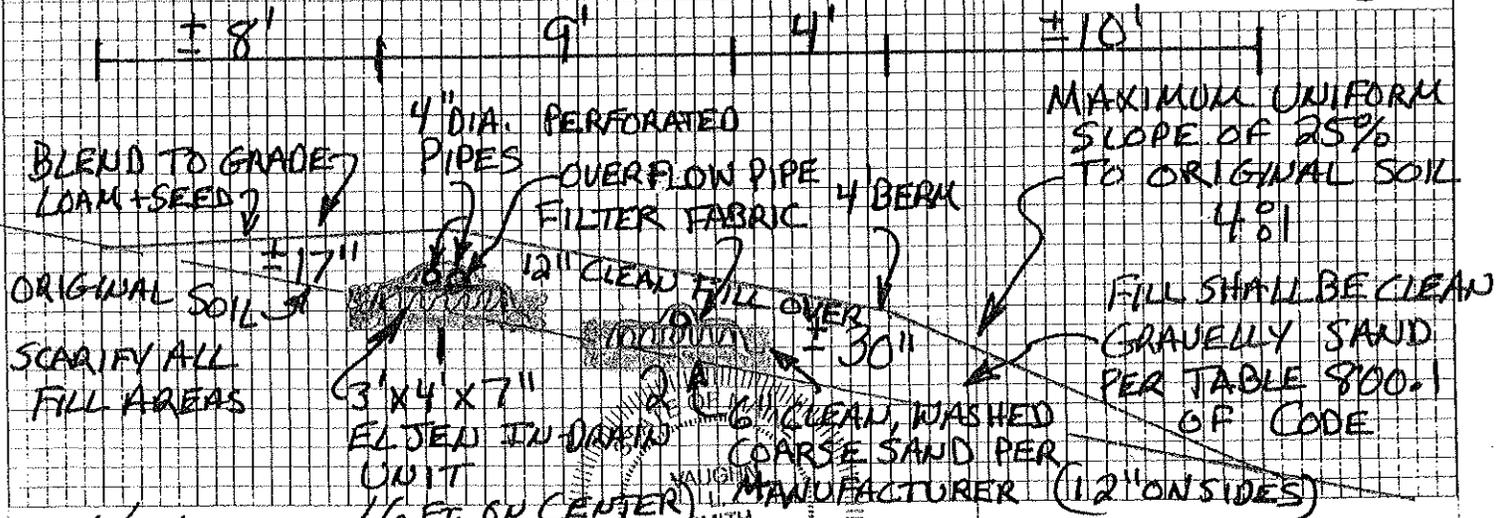
CONSTRUCTION ELEVATIONS

Finished Grade Elevation
 Top of Distribution Pipe
 Bottom of Disposal Area

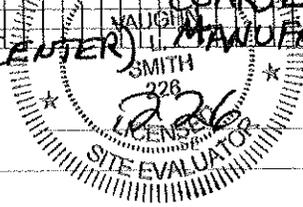
ROW#	ROW#2	ELEVATION REFERENCE POINT
-17"	29"	Location & Description 4" BEECH
-29"	41"	TREE W/ NAIL 43" ABOVE
-40"	52"	Reference Elevation 0" GROUND

DISPOSAL AREA CROSS SECTION

SCALE:
 VERTICAL: 1" = 5'
 HORIZONTAL: 1" = 5'



Vanessa L. Smith
 Site Evaluator Signature



5/12/14
 Date

REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form must be attached to an application (HHE-200) for any 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 are met.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 1906.0)
2. The replacement system is determined by the Site Evaluator to be the most practical method to treat and dispose of the wastewater.
3. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION	Town of <u>AUGUSTA</u>
Permit No. _____	Date Permit Issued _____
Property Owner's Name: <u>TOM COLFER</u>	Tel. No.: <u>751-7752</u>
System's Location: <u>115 WOODARD ROAD</u>	
Property Owner's Address: <u>1 SERENITY DRIVE</u>	
(if different from above) <u>WEST GARDNER, ME 04345</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. The Site Evaluator has considered the site/soil restrictions and has 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

14 May 2014
DATE

LOCAL PLUMBING INSPECTOR

I, _____, the undersigned, have visited the above property 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 (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.

Comments: _____

LPI SIGNATURE

DATE

HHE-204 Rev 08/05

FORMS

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
	Disposal Fields			Septic Tanks			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
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft [a]	300 ft [a]	300 ft [a]	100 ft [a]	100 ft [a]	100 ft [a]	—	—
Owner's wells	100 down to 60 ft	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 [b]	200 down to 120 ft [b]	300 down to 180 ft [b]	100 down to 50 ft [b]	100 down to 75 ft [b]	100 down to 75 ft [b]	—	—
Water supply line	10 ft [a]	20 ft [a]	25 ft [a]	10 ft [a]	10 ft [a]	10 ft [a]	—	—
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft	200 down to 120 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft	40'	25'
Water course, minor	50 down to 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft	—	—
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 [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	—	—
Slopes greater than 3:1	10 ft	18 ft	25 ft	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

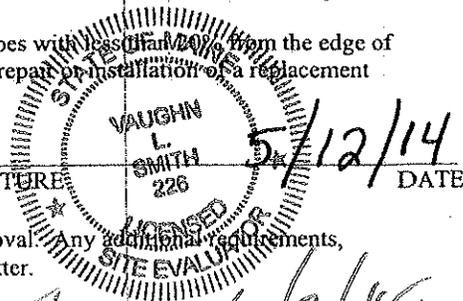
1. Fill extension Grade - to 3:1

2.

3.

Footnotes: a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance.
 b. May not be any closer to neighbor's well than the existing disposal field or septic tank unless written permission is granted by the neighbor.
 c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope or property line.
 d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

Vaughn L. Smith
 SITE EVALUATOR'S SIGNATURE



5/12/14
 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.

Brian J. ...
 SIGNATURE OF THE DEPARTMENT

6/3/14
 DATE

REPLACEMENT SYSTEM VARIANCE REQUEST

FORMS
RECEIVED
JUN 02 2014
The LPI shall review the

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

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2. The replacement system is determined by the Site Evaluator to be the most practical method to treat and dispose of the wastewater.
3. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION Town of AUGUSTA

Permit No. _____ Date Permit Issued _____

Property Owner's Name: TOM COLFER Tel. No.: 751-7752

System's Location: 115 WOODARD ROAD

Property Owner's Address: 1 SERENITY DRIVE

(if different from above) WEST GARDNER, ME 04345

SPECIFIC INSTRUCTIONS TO THE:

LOCAL PLUMBING INSPECTOR (LPI):
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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:
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. The Site Evaluator has considered the site/soil restrictions and has 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]
SIGNATURE OF OWNER

14 MAY 2014
DATE

LOCAL PLUMBING INSPECTOR

I, GARY R. FULLER, the undersigned, have visited the above property 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 (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.

Comments: _____

[Signature]
LPI SIGNATURE

5/20/14
DATE

HHE-204 Rev 08/05

FORMS

Replacement System Variance Request

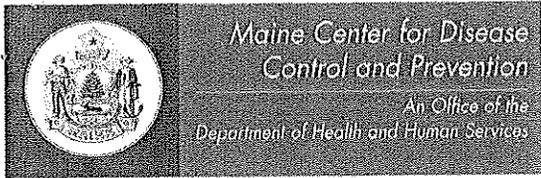
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	Disposal Fields			Septic Tanks			Disposal Fields	Septic Tanks
From	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
SOILS								
Soil Profile	Ground Water Table			to 7"			— inches	
Soil Condition	Restrictive Layer			to 7"			— inches	
from HHE-200	Bedrock			to 12"			— inches	
Soil Profile	Ground Water Table			to 7"			— inches	
Soil Condition	Restrictive Layer			to 7"			— inches	
from HHE-200	Bedrock			to 12"			— inches	
Water supply line	10 ft [a]	20 ft [a]	25 ft [a]	10 ft [a]	10 ft [a]	10 ft [a]	—	—
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft	200 down to 120 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft	40'	25'
Water course, minor	50 down to 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft	—	—
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 [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	—	—
Slopes greater than 3:1	10 ft	18 ft	25 ft	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. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance.
 b. May not be any closer to neighbor's well than the existing disposal field or septic tank unless written permission is granted by the neighbor.
 c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope or property line.
 d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

Vaughn L. Smith
 SITE EVALUATOR'S SIGNATURE
 VAUGHN L. SMITH 228
 5/12/14
 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.
Brian [Signature]
 SIGNATURE OF THE DEPARTMENT
 6/3/14
 DATE



Paul R. LePage, Governor

Mary C. Mayhew, Commissioner

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) 287-8016
Fax (207) 287-9058; TTY (800) 606-0215

Tel. (207) 287-2070

Subsurface Wastewater Unit

Fax (207) 287-5672

June 3, 2014

Town of Augusta
Gary Fuller
16 Cony Street
Augusta, Maine 04330

Subject: Approval, Replacement System Variance Request, Tom Colfer Property, 115 Woodard Road, Augusta, Maine. Mailing Address Owner/Applicant: 1 Serenity Drive, West Gardiner, Maine, 04345.

Gary;

We have completed our review of an HHE-200 Form dated 05-12-2014 for the 115 Woodard Road, Augusta, Maine.

The variance request that is not within the LPI's authority is from the disposal field to a major water course of 40 feet.

The variance request that is within the LPI's authority is from the septic tank to a major water course of 25 feet.

The variance request has been submitted because topography and existing development limit the potential of the system location and the system design prepared by Vaughn Smith, SE #226 on 05-12-2014 is otherwise found to be in compliance with the Maine Subsurface Wastewater Disposal Rules.

A permit for system installation is to be obtained from the Local Plumbing Inspector in advance of the start of system construction .

The system is to be installed in accordance with the submitted and approved system design. Should alterations to the design be required at the time of construction, the site evaluator is to be notified prior to making any changes.

The contractor is to scarify the soils under the fill extensions to create a transitional zone more compatible with the disposal field area.

By accepting this approval and the associated plumbing permit, the owner agrees to comply fully with the conditions of approval and the Subsurface Wastewater Rules.

Because installation and owner maintenance has a significant effect on the working order of onsite sewage disposal systems, including their components, the Division makes no representation or guarantee as to the efficiency and/or operation of the system.

Should you or others have any questions, please feel free to contact me at 592-7376.

Sincerely,

A handwritten signature in cursive script that reads "Brent Lawson".

Brent Lawson, State Plumbing Inspector
Subsurface Wastewater Program
Division of Environmental Health
e-mail: brent.lawson@maine.gov

/BML

xc: File

Tom Colfer, Owner/Applicant.

Vaughn Smith, SE