

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 FAX (207) 287-3165

PROPERTY LOCATION

City, Town, or Plantation: PORTLAND, GREAT DIAMOND ISLAND

Street or Road: 82 WEYMOUTH STREET

Subdivision, Lot #

>>CAUTION: LPI APPROVAL REQUIRED<<

Town/City: Portland Permit # 2015-00702

Date Permit Issued: 11 Fee \$ 150 Double Fee Charged []

LPI # _____

Local Plumbing Inspector Signature _____

OWNER/APPLICANT INFORMATION

Name (last, first, MI): BOGDANOVICH PETER Owner Applicant

Mailing Address of Owner/Applicant: 11 OLD COLONY LANE SCARBOROUGH, ME 04074

Daytime Tel. #: 730-3827

The Subsurface Wastewater Disposal System *shall not* be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # ROO5 Lot # 083A 83A7005

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.

Peter Bogdanovich 4/8/15
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 Application.

Local Plumbing Inspector Signature

(1st) Date Approved

(2nd) Date Approved

PERMIT INFORMATION

TYPE OF APPLICATION

1. First Time System
 2. Replacement System
Type Replaced: UNKNOWN
Year Installed: UNKNOWN

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 (2000gpd+)
 9. Engineered Treatment Tank (only)
 10. Engineered Disposal Field (only)
 11. Pre-treatment, specify: _____
 12. Miscellaneous components

SIZE OF PROPERTY

6 ACRES SQ. FT. ACRES

DISPOSAL SYSTEM TO SERVE

1. Single Family Dwelling Unit, No. of Bedrooms: 5
 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:

SHORELAND ZONING

Yes No

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 d. H-20 loaded
 4. Other: _____

SIZE: 1200 sq. ft. lin. ft.
25 ELJEN GSF UNITS

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 **RECOMMENDED**

DESIGN FLOW

360 gallons per day
BASED ON:
 1. Table 4A (dwelling unit(s))
 2. Table 4C (other facilities)

SHOW CALCULATIONS for other facilities

5 BEDROOMS
(SEE WATER USE RECORDS ATTACHED)

SOIL DATA & DESIGN CLASS

PROFILE CONDITION: 2 / A

at Observation Hole # TP 1
Depth 33 "
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

1. Not required
 2. May be required
 3. Required

Specify only for engineered systems:
DOSE: _____ gallons

LATITUDE AND LONGITUDE
at center of disposal area

Lat. 43 d 40 m 28 s
Lon. 70 d 12 m 03 s
If g.p.s., state margin of error

SITE EVALUATOR STATEMENT

I certify that on 6/10/14 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Albert Frick 163 7/14/2014
Site Evaluator Signature SE # Date

ALBERT FRICK (207) 839-5563 ALBERT@ALBERTFRICK.COM
Site Evaluator Name Printed Telephone Number E-mail Address

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563

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

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10 SHS
(207) 287-5672 FAX (207) 287-4172

Town, City, Plantation
PORTLAND, GREAT DIAMOND ISLAND

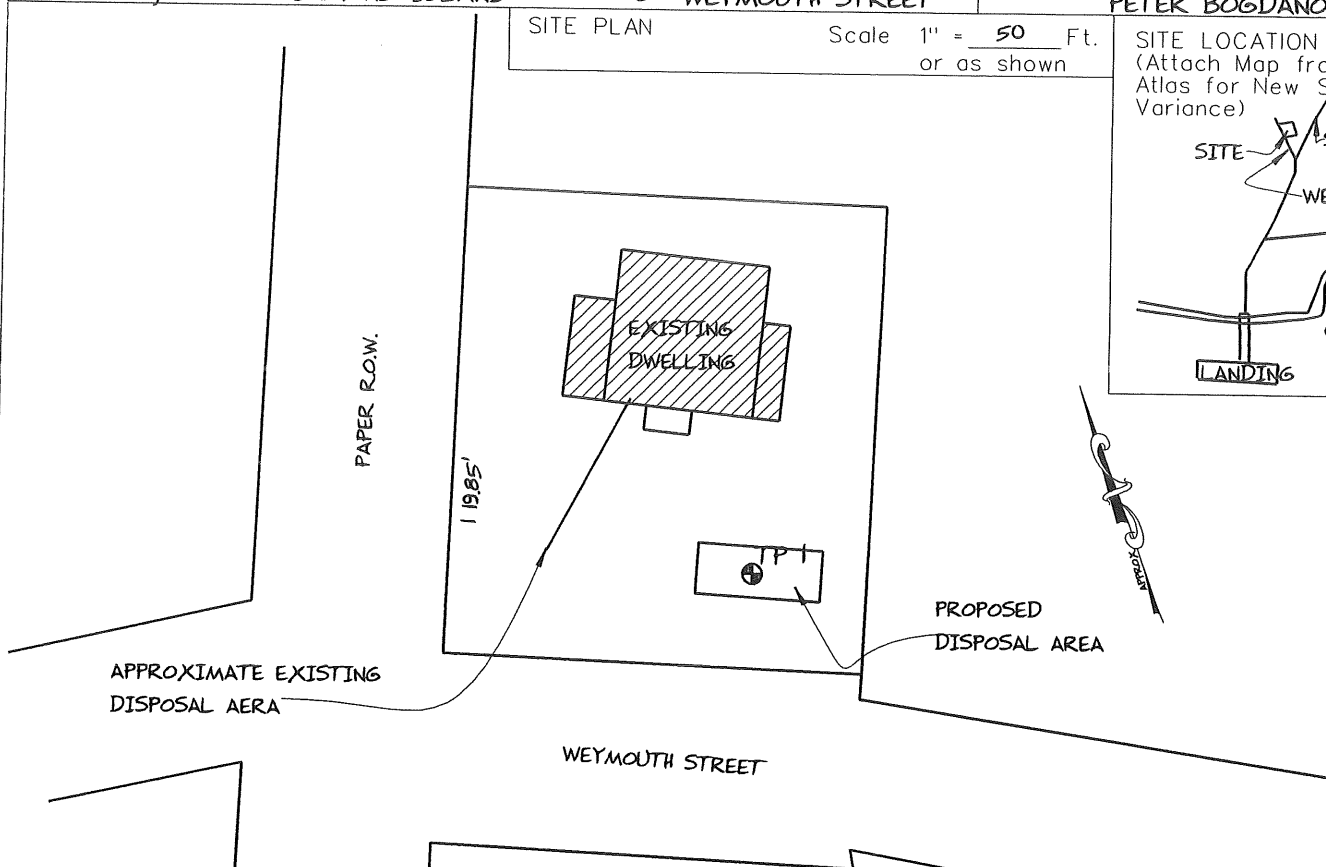
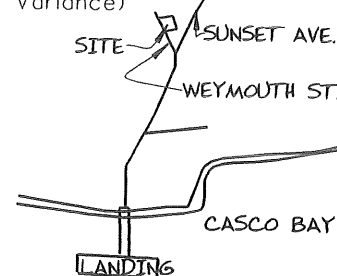
Street, Road Subdivision
82 WEYMOUTH STREET

Owner's Name
PETER BOGDANOVICH

SITE PLAN

Scale 1" = 50 Ft.
or as shown

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



NOTE: PROPERTY LINES PER TOWN TAX MAP AND AS POINTED OUT BY OWNER'S REPRESENTATIVE ON-SITE. VERIFY PRIOR TO INSTALLATION TO ASSURE ALL PORTIONS OF DISPOSAL AREA ARE CONTAINED ON PROPERTY

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	SANDY		BROWN	
10	LOAM	FRIABLE		
20	LOAMY SAND		YELLOWISH BROWN	
35	BEDROCK			

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

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

Soil Classification: 2 Profile, A Condition
Slope: 0-3 %
Limiting Factor: 33 %
 Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

Soil Classification: _____ Profile, _____ Condition
Slope: _____ %
Limiting Factor: _____ %
 Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

Albert Frick
Site Evaluator Signature

163
SE #

7/14/2014
Date

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 Division of Health Engineering, Station 10 SHS
 (207) 287-5672 FAX (207) 287-4172

Town, City, Plantation

PORTLAND, GREAT DIAMOND ISLAND

Street, Road, Subdivision

82 WEYMOUTH STREET

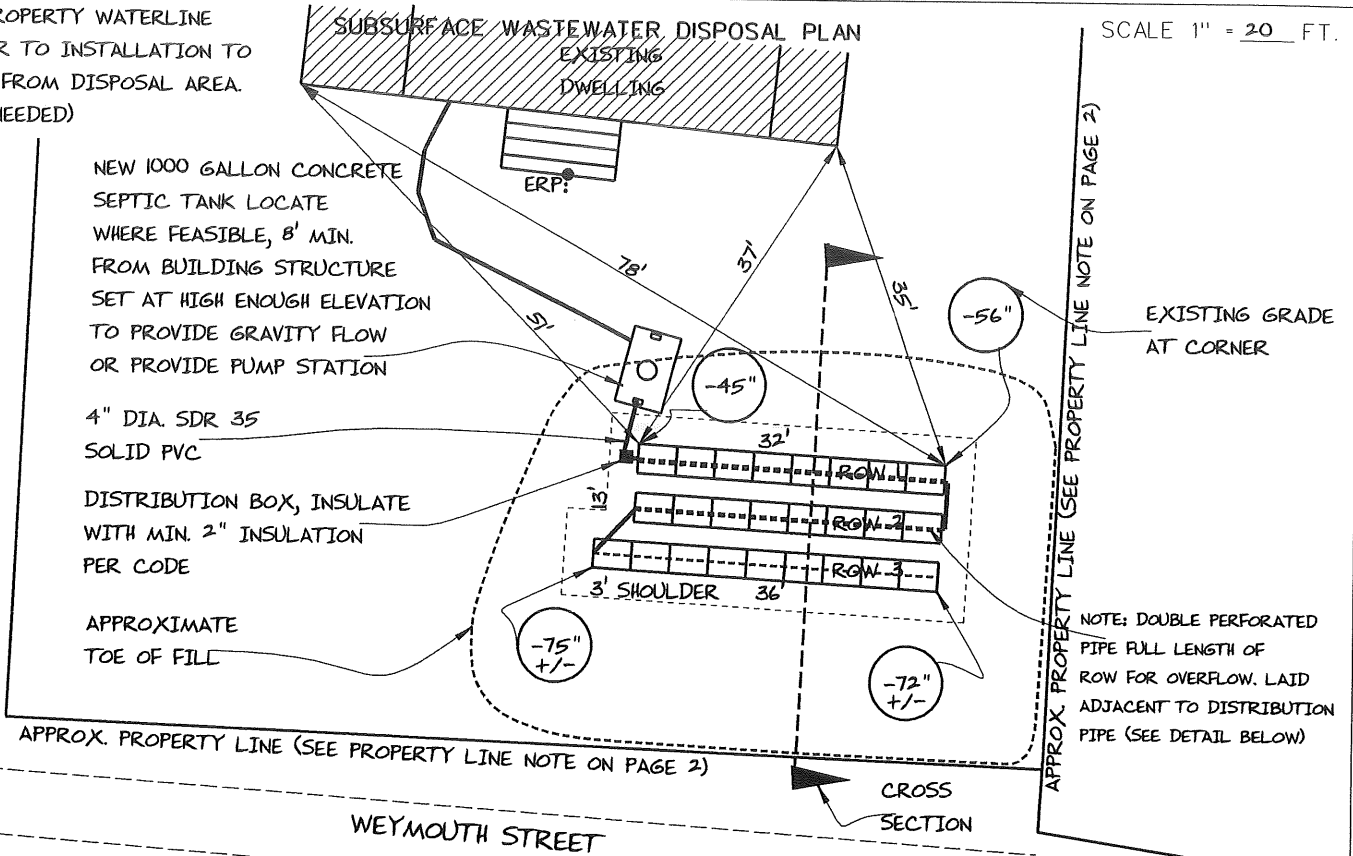
Owner's Name

PETER BOGDANOVICH

NOTE: VERIFY PROPERTY WATERLINE LOCATION PRIOR TO INSTALLATION TO ASSURE 10' MIN. FROM DISPOSAL AREA. (RELOCATE AS NEEDED)

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



NEW 1000 GALLON CONCRETE SEPTIC TANK LOCATE WHERE FEASIBLE, 8' MIN. FROM BUILDING STRUCTURE SET AT HIGH ENOUGH ELEVATION TO PROVIDE GRAVITY FLOW OR PROVIDE PUMP STATION

4" DIA. SDR 35 SOLID PVC

DISTRIBUTION BOX, INSULATE WITH MIN. 2" INSULATION PER CODE

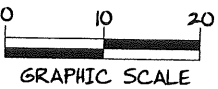
APPROXIMATE TOE OF FILL

NOTE: DOUBLE PERFORATED PIPE FULL LENGTH OF ROW FOR OVERFLOW. LAID ADJACENT TO DISTRIBUTION PIPE (SEE DETAIL BELOW)

APPROX. PROPERTY LINE (SEE PROPERTY LINE NOTE ON PAGE 2)

WEYMOUTH STREET

CROSS SECTION



FILL REQUIREMENTS

Depth of Fill (Upslope) : 14" - 25"
 Depth of Fill (Downslope) : 21" - 24"
 DEPTHS AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

Finished Grade Elevation
 Top of Distribution Pipe or Proprietary Device
 Bottom of Disposal Area

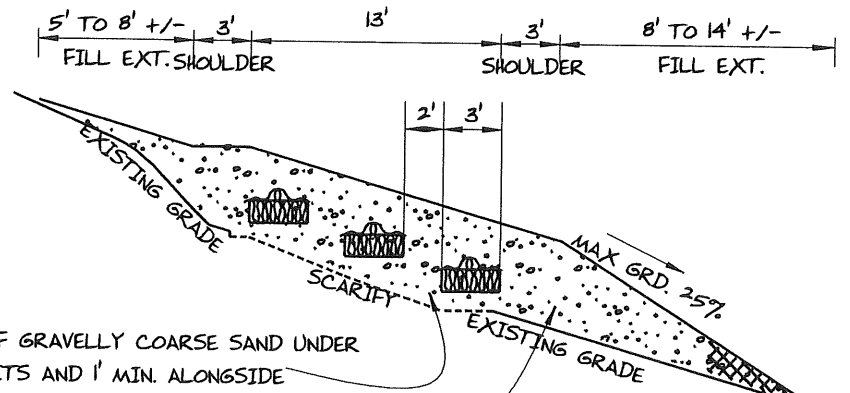
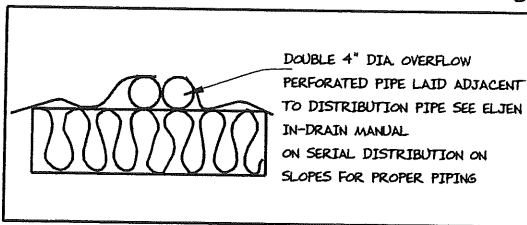
SEE
 DETAIL
 BELOW

ELEVATION REFERENCE POINT

Location & Description TOP OF FIRST STEP
 Reference Elevation is: 0.0" or -----

DISPOSAL AREA CROSS SECTION

SCALE:
 VERTICAL: 1" = 5 FT
 HORIZONTAL: 1" = 10 FT



	DEPTH BELOW ERP	ROW 1	(2)	(3)
CLEAN FILL	FINISHED GRADE	-3"	-4"	-5"
GEOTEXTILE FABRIC		-43"	-53"	-63"
OVER 4" DIA. PERF. PIPE		-47"	-57"	-67"
ELJEN IN-DRAIN UNIT		-54"	-64"	-74"
		-60"	-70"	-80"

6" MIN. OF GRAVELLY COARSE SAND UNDER UNITS AND 1' MIN. ALONGSIDE

GRAVELLY COARSE SAND

CAP TOE OF FILL WITH SANDY LOAM MATERIAL TO PREVENT WASTEWATER BREAKOUT

Site Evaluator Signature

163
 SE *

Date

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 HHE-200 Rev. 10/02



Albert Frick Associates, Inc.
Soil Scientists & Site Evaluators
95A County Road Gorham, Maine 04038
(207) 839-5563

PORTLAND, GREAT DIAMOND ISLAND 82 WEYMOUTH STREET PETER BOGDANOVICH

TOWN	LOCATION	APPLICANT'S NAME
		<p>1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Division of Health and Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system Installer should contact Albert Frick Associates, Inc. 839-5563, if there are any questions concerning materials, procedures or designs. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems.</p>
		<p>2) This application is intended to represent facts pertinent to the Rules only. It shall be the responsibility of the owner/applicant, system Installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and Minimum Lot Size law) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations. Prior to the commencement of construction/installation, the local plumbing inspector or Code Enforcement Officer shall inform the owner/applicant and Albert Frick Associates, Inc of any local ordinances which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Albert Frick Associates, Inc.'s liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations in effect at the time of preparation of this application.</p>
		<p>3) All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based upon information provided by the owner/applicant and has been relied upon by Albert Frick Associates, Inc. in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties but not readily visible above grade should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.</p>
		<p>4) Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter shall be connected in series to the proposed septic tank. Risers and covers should be installed over the septic tank outlet per the "Rules" to allow for easy maintenance of filter.</p>
		<p>5) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than every three years.</p> <p>The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life.</p>
		<p>6) All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion to within 6" of a finished ground surface. Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.</p>

PORTLAND, GREAT DIAMOND ISLAND

82 WEYMOUTH STREET

PETER BOGDANOVICH

TOWN

LOCATION

APPLICANT'S NAME

- 7) The actual waste water flow or number of bedrooms shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed
- 8) The general minimum setbacks between a well (public or private) and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
- 9) When a gravity system is proposed: BEFORE CONSTRUCTION/INSTALLATION BEGINS, the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pitch requirements. In gravity systems, the invert of the septic tank(s) outlet(s) should be at least 4 inches above the invert of the distribution box outlet at the disposal area.
- 10) When an effluent pump is required: Pump stations should be sized per manufacturer's specifications to meet lift requirements and friction loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and lid at or above grade. An alarm device warning of a pump failure shall be installed. Also, when pumping is required of a chamber system, install a 'T' connection in the distribution box and place 3 inches of stone or a splash plate in the first chamber. Insulate gravity pipes, pump lines and the distribution box as necessary to prevent freezing.
- 11) On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on plan may be necessary to replace organic matter. On sites where the proposed system is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal and fill extension area to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or differential settling). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off proprietary devices. Divert the surface water away from the disposal area by ditching or shallow landscape swales.
- 12) Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process.
- 13) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.
- 14) Seed all filled and disturbed surfaces with perennial grass seed, with 4" min. soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover system. Woody trees or shrubs are not permitted on the disposal area or fill extensions.
- 15) If an advanced wastewater treatment unit is part of the design, the system shall be operated and maintained per manufacturer's specifications.



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Water Use Records and Percentile Calculations

Date	cubic feet	gallons	# days	avg. gpd
10/16/11	300	2,244	159	15
10/11/12	800	5,985	361	17
10/30/13	200	1,496	182	8
05/04/14	0	0	0	0
	1,000	7,481	543	4
		13.78		

Daily	Weekly	Monthly	Quarterly
80th percentile	85th percentile	90th percentile	95th percentile
13	14	15	16

	cubic feet	gallons
total	1,300	7,481
average	2	14
average gpd		14

To use: Enter the date, number of days, and cubic feet. The gallons and percentiles will be calculated automatically by the spreadsheet. To add more readings, simply insert additional rows into the spreadsheet. Choose the percentile which corresponds to the reading frequency: daily, weekly, monthly, or quarterly.

NOTE: To convert cubic feet to gallons/day, multiply cubic feet * 7.481

146562-12

CYCLE 5
W
RESW
26

FARDY LYDIA & RICHARD
82 WEYMOUTH ST
GRT DIAMOND IS, ME 04109-

SEASWTR

S45924487

Meter Size: 0.62

<u>Read Date</u>	<u>Read Source</u>	<u>Read Reas.</u>	<u>Reading</u>	<u>Usage</u>	<u>Billable Usage</u>	<u>Days between reads</u>
10/16/2011	M		996.00	3.00	3.00	159.00
05/10/2011	M		993.00	0.00	0.00	
5/13/2011						
	WATER	<u>Principal</u>				
		\$202.45	<u>Penalty</u>	<u>Tax</u>		

146562-13

CYCLE 5
W
RESW
26

FARDY LYDIA & RICHARD
82 WEYMOUTH ST
GRT DIAMOND IS, ME 04109-

SEASWTR

R43866451

Meter Size: 0.62

<u>Read Date</u>	<u>Read Source</u>	<u>Read Reas.</u>	<u>Reading</u>	<u>Usage</u>	<u>Billable Usage</u>	<u>Days between reads</u>
10/11/2012	M		1,088.00	8.00	8.00	175.00
04/19/2012	M		1,080.00	0.00	0.00	
4/20/2012						
	WATER	<u>Principal</u>	<u>Penalty</u>	<u>Tax</u>		
		\$202.45				

146562-14

FARDY LYDIA & RICHARD
82 WEYMOUTH ST
GRT DIAMOND IS, ME 04109-

CYCLE 5
W
RESW
26

SEASWTR

S44505348

Meter Size: 0.62

<u>Read Date</u>	<u>Read Source</u>	<u>Read Reas.</u>	<u>Reading</u>	<u>Usage</u>	<u>Billable Usage</u>	<u>Days between reads</u>
10/30/2013	M		2,247.00	2.00	2.00	182.00
05/01/2013	M		2,245.00	0.00	0.00	
5/3/2013	WATER	<u>Principal</u>				
		\$205.49				
			<u>Penalty</u>			
			<u>Tax</u>			

146562-15

CYCLE 5
W
RESW
26

SEASWTR

WSEAMR

FARDY LYDIA & RICHARD
82 WEYMOUTH ST
GRT DIAMOND IS, ME 04109-

SEASWTR

S44505348

Meter Size: 0.62

<u>Read Date</u>	<u>Read Source</u>	<u>Read Reas.</u>	<u>Reading</u>	<u>Usage</u>	<u>Billable Usage</u>	<u>Days between reads</u>
05/04/2014	M		2,247.00	0.00	0.00	
5/9/2014						
	WATER	<u>Principal</u>	<u>Penalty</u>	<u>Tax</u>		
		\$211.65				