SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 03/10/17

PROPERTY LOCATION

City, Town, or Plantation	PORTLAND, GREAT DIAMOND ISLAND
Street or Road	VALLEY AVENUE
Subdivision, Lot #	

>> CAUTION: LPI APPROVAL REQUIRED <<

Town/City _____ Permit # _____

Date Permit Issued ___/___/___ Fee: $_____ Double Fee Charged

Local Plumbing Inspector Signature _____ LPI. # _____

Owner Town State

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 # 83A Lot # S6 & 7

OWNER/APPLICANT INFORMATION

Name (last, first, MI)	FARNHAM DAVID — Owner / Applicant
Mailing Address of Owner/Applicant	44 FARM GATE ROAD FALMOUTH, ME 04105
Daytime Tel. #	207-781-2210

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.

Signature of Owner or Applicant _____ Date _____

CAUTION: INSPECTION REQUIRED

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

(1st) date approved _____

Local Plumbing Inspector Signature _____ (2nd) date approved _____

PERMIT INFORMATION

TYPE OF APPLICATION

[1. First Time System]
2. Replacement System
Type replaced: _____
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

0.52+/- SQ. FT. [ACRES]

SHORELAND ZONING

Yes [No]

DISPOSAL SYSTEM TO SERVE

1. Single Family Dwelling Unit, No. of Bedrooms: 3
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
SEASONAL
[4. Public] 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANKS

[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: _____
SIZE: 1008 sq. ft. lin. ft.
21 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]

DESIGN FLOW

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

-SINGLE FAMILY DWELLING-
3 BEDROOMS AT 90 GALLONS PER BEDROOM PER DAY = 270 GPD

3. Section 4G (meter readings)
ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS

PROFILE CONDITION
2 / AIII
at Observation Hole #TP A
Depth 26 "
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING

1. Medium---2.6 sq. ft. / gpd
[2. Medium---Large 3.3 sq. f.t / 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
(SEE NOTE PAGE 3)
Specify only for engineered systems:
DOSE: _____ gallons

LATITUDE AND LONGITUDE

at center of disposal area
Lat. 43 d 40 m 39 s
Lon. 70 d 11 m 57 s
if g.p.s, state margin of error: _____

SITE EVALUATOR STATEMENT

I certify that on 7/5/16 (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 _____ SE # 363 Date 8/5/16

WILLIAM H. O'CONNOR — Site Evaluator Name Printed
207-807-1739 — Telephone Number
longviewpartners363@gmail.com — E-mail Address

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

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 03/10/17

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, GREAT DIAMOND ISLAND	***VALLEY AVENUE***	***DAVID FARNHAM***

SITE PLAN Scale 1" = ***60*** ft. or as shown

SITE LOCATION PLAN
(map from Maine Atlas recommended)

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

Observation Hole ***TP A*** ■ Test Pit ☐ Boring
_____ " Depth of Organic Horizon Above Mineral Soil

Soil Classification	Slope	Limiting Factor	
2 (Profile) AIII (Condition)	4-5 %	26 "	[ ] Ground Water [ ] Restrictive Layer [X] Bedrock [ ] Pit Depth

Observation Hole ***TB 1-4*** ☐ Test Pit ■ Boring
_____ " Depth of Organic Horizon Above Mineral Soil

Soil Classification	Slope	Limiting Factor	
_____ (Profile) _____ (Condition)	_____ %	_____ "	[ ] Ground Water [ ] Restrictive Layer [ ] Bedrock [ ] Pit Depth

Site Evaluator Signature ***363*** SE # ***8/5/16*** Date

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 03/10/17

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

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

Street, Road, Subdivision: **VALLEY AVENUE**

Owner's Name: **DAVID FARNHAM**

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = **30** FT.

FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT
Depth of Fill (Upslope)	**21"- 31"**	Finished Grade Elevation	**-31"**	Location & Description: **NAIL 28" ABOVE BASE OF 7" DIA. FLAGGED BEECH**
		Top of Distribution Pipe or Proprietary Device	**-43"**	
Depth of Fill (Downslope)	**27"- 36"**	Bottom of Disposal Area	**-60"**	Reference Elevation: **00"**

DISPOSAL AREA CROSS SECTION

Scale
Horizontal 1" = **10** ft.
Vertical 1" = **5** ft.

Site Evaluator Signature	SE #	Date
[signature]	363	8/5/16

Town: PORTLAND, GREAT DIAMOND IS. Applicant: FARNHAM Location: VALLEY AVENUE

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 03/10/17

DISPOSAL SYSTEM INSTALLATION NOTES

1. The State of Maine *Subsurface Wastewater Disposal Rules (10-144 Chapter 241* the *Rules*) are incorporated by reference and made a part of this application. These shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer shall contact Longview Partners, LLC (207-693-8799) if there are any questions concerning materials, procedures or the design. 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, construction, and inspection of subsurface wastewater disposal systems.

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 other permits under all applicable local, State and/or Federal laws and regulations before installing the 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, should wet areas exist. Prior to commencement of construction/installation, the Local Plumbing Inspector or Code Enforcement Officer shall inform the owner/applicant and Longview Partners, LLC or 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. Longview Partners, LLC's liability shall be limited to revisions required by regulatory agencies and based on laws or regulations in effect at the time of preparation of this application.

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 Longview Partners, LLC 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 not readily visible above-grade (such as well points) should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.

4. Installation of a garbage (grinder) disposal is **not recommended**. If one is installed, an additional 1,000 gallon septic tank shall be connected in series to the proposed septic tank or a septic tank outlet filter shall be installed in the tank outlet. Risers and covers should be installed over the septic tank cleanout and outlet per the *Rules* for easy maintenance of the filter.

5. The septic tank should be pumped within 2 years of installation and subsequently as recommended by the pump service. **In no event should the septic tank be pumped less often than every 3 years**. The system use shall avoid introducing kitchen grease or fats into the 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 or performance.

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 within 6" of a finished ground surface. Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

Longview Partners, LLC
Longviewpartners213@gmail.com

Town: PORTLAND, GREAT DIAMOND IS. Applicant: FARNHAM Location: VALLEY AVENUE

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 03/10/17

DISPOSAL SYSTEM INSTALLATION NOTES

7. The daily wastewater flow, number of bedrooms, or use of structure 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 are 100-300 feet, unless the local municipality has a more stringent requirement or a liner seal is installed in the well. 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 flow is anticipated, **before construction/installation begins**, the system installer or building contractor shall review the elevation 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 pipe pitch requirements.

10. When an effluent pump is required, pump stations should be sized per manufacturer's specifications to meet lift requirements and friction/head 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 cover at or above grade. An alarm device warning of a pump failure shall be installed. Bottom-feed distribution box is specified to prevent freezing. Insulate distribution boxes per the *Rules*.

11. On all systems, remove the vegetation, organic duff and roots, and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on the plan may be necessary to replace organic matter and/or stumps. On sites where the proposed disposal area 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 field and fill extension are 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 different settling). Do not use wheeled equipment on the scarified soil are until after 12 inches of fill is in place. Keep equipment off of proprietary leaching devices. Divert 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. Refer to the *Rules* for more specific information regarding fill and stone.

13. Seed all filled and disturbed surfaces with perennial grass seed, with 4 inches minimum 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 the system. Woody trees or shrubs are not permitted on the disposal field or fill extensions.

14. If an advanced wastewater treatment unit is part of this design, the system shall be operated and maintained per manufacturer's specifications.

Longview Partners, LLC
Longviewpartners213@gmail.com