			2006	6021	
SUBSURFACE WA	STEWATER DISPOSAL S	SYSTEM APPLICATIO	N Divisia (20)	n at Health Engineering, Station 10, SHS n at Health Engineering, Station 10, SHS 7) 287-5672 FAX: (207) 287-4172	
//////////////////////////////////////		>> Caution: Permit	Required - Attach	n In Space Below <<	
City, Town, or Plantation PORTLAN	ND, GREAT DIAMOND ISLAN	PORTIAN			
Street or Pood 42 SEAL	_ COVE_LANE	Date			
Subdivision, Lot *		Permit Issued:	64 \$	FEE Double Fee	
Ilame (last, first, MI)	ANT INFORMATION	Local Plumbing Inspector	lely	L.P.I.# 0,744	
Mailing Address GLENN R	UESSWICK	\/////////////////////////////////////	×/////////////////////////////////////		
Owner Applicant	, ME 03904		5 <i>Ç</i>		
Doytime Tel * <b>439-339</b>	9	Municipal Tax Map <b>* <u>83</u></b> Lot	·EARat. N	43 41'13" Lon. W 70 11'46"	
Owner or App	olicant Statement	Cautior	: Inspections	Required	
Istate and acknowledge that the inform my knowledge and understand that any and/or Local Plumbing Inspector to deny	iation submitted is correct to the best of folsification is reason for the Department y a marmit	with the Subsurface Wastewater Di	norized above and sposalRules Applici	ation. Dispath	
Hibrele	00	Chitand of	6/11/07	(1st) Date Approved	
Signature of Owner/Applicant	Dote	Local Numbing Inspectar Sign	ature	(2nd) Date Approved	
	//////////////////////////////////////				
TYPE OF APPLICATION	THIS APPLIC	ATION REQUIRES	DISPOS	AL SYSTEM COMPONENTS	
<ol> <li>1. Erst Time System</li> <li>2. Replacement System</li> </ol>	1. ■ No Rule Variance 1 2. □ First Time Syste	e m Variance	<ol> <li>Complete Non-Engineered System</li> <li>□ Primitive System(araywater &amp; alt toilet)</li> </ol>		
Type Replaced:	a. 🗌 Local Plumbing	Inspector Approval	3. Alternative Toilet, specify:		
Year Installed: 3. 🔲 Expanded System	3. Replacement System	b. □ State & Local Plumbing Inspectar Approval 3. Replacement System Variance		4. □ Non-Engineered Treatment Tank (only 5. □ Holding Tank,Gallans	
a. 🗋 Minor Expansion	a. 🗋 Local Plumbing	Inspector Approval	6. Non-Engi	neered Disposal Field (only)	
4. 🗌 Experimental System	4. 🗍 Minimum Lot Size	e Variance	8. Complete	e Engineered System(2000gpd+)	
5. 🗌 Seasonal Conversion	5. 🔲 Seasonal Convers	ion Approva	9. Engineer	ed Treatment Tank (only)	
SIZE OF PROPERTY	DISPOSAL SY	STEM TO SERVE	11. Pre-trea	tment, specify:	
1.2 ACRES +-	acres 2. □ Multiple Family Dwell	ling Unit, No. of Bedrooms: elling, No_of Units:			
SHORELAND ZONING	3. 🗌 Other:		IYP 1 □ Drilled We	E OF WATER SUPPLY	
Yes 🗋 No	Current Use 🗌 Seasonal	□ Year Round ■ Undeveloped	4. Public 5	5. ] Other:	
	///////DESIGN DETAILS (SYST	EM LAYOUT SHOWN ON PAGE	3)/////////////////////////////////////		
TREATMENT TANK	DISPOSAL FIELD TYPE & S	GARBAGE DISPOSA	LUNIT	DESIGN FLOW	
1. ■ Concrete a.■ Regular	1. □ Stone Bed 2. Stone Tre 3. ■ Proprietary Device	ench   1. ■ No 3.□ May 2.□ Yes >> Specify	pe phe below:	<b>360</b> gallons per day BASED ON:	
or b. Low Profile	a.□Cluster array c.■Linear	a. Multi-compartm	ent tank 1.	Table 501.1 (dwelling unit(s))	
2. □ Plastic 3. □ Other	4. □ Other:	c. Increase in tan	<pre> capacity</pre>	SHOW CALCULATIONS	
CAPACITY <b>IOOO</b> gollo	ns SIZE <b>I296</b> ■ sq. ft. [ 27 ELJEN IN DRAIN UNITS	] lin ft. d ■ Filter on tank a	butlet	- for other facilities -	
SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	<b>EFFLUENT/EJECTOR</b>	PUMP	90 GALLONS PER	
	1. Small - 2.0 sq.ft./gpd	1. Not required		DAY EACH	
AT Observation Hole • TBA	3. ■ Medium-Large - 3.3 sq.	ft. gpd 3. 🗌 Required >>Spec	fy only for		
Depth	4. □ Large - 4.1 sq.ft./gpd	engineered or experimer	tal systems: 3.	Section 503.0 (meter readings)	
DI WOST ENVIRONG SULFACIO			allons	ATTACH WATER-METER DATA	
Certify that on 10/19/06 (da	ite) [completed a site evaluation of	on this property and state the	t the dota; rep	orted is accurate and that the	
roposed sytem is in compliance	ce with the Subsurface Wastewate	er Disposol Rules (10-144A CMR	241).	n /	
Minen	MUN	<u> </u>	12/100	10	
- Site Evaluator Signa	Iture	SE *	Dote		
ALBERT FRICK	(;	207) 839-5563 AFA	EMAINE.RR.CON	<u> </u>	
LBERT FRICK ASSOCIATES - 95A CO Note: Changes to or deviations	JUNTY ROAD ROAD GORHAM, MAINE 0403 s from the design should be conf	irmed with the Site Evaluator	HIGH AUGT 855	HHE-200 Rev. 4.05	





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

## **Fill Estimation Worksheet**

Town:	Diamond Island
Project owner/applicant:	Lee
Address:	

Albert Frick Associates Inc. 95A County Road Gorham, Me 04038 839-5563 FAX - 839-5564 E-Mail - Albertfrick@worldnet.att.net

This worksheet is being provided as a complimentary tool to assist in estimating the **approximate** amount of fill required to construct the proposed system. This worksheet does not substitute for a personal visit to the site for your own estimate. These calculations are intended to serve as a check to your work. Site features beyond the model (terrain) can vary to effect model projections.



Length (L)	<u>36</u> feet
Width (W)	<u>11</u> feet
Shoulder (S)	<u>5</u> feet
<u>Depth of fill:</u>	
upper left (a)	<u>34</u> inches
upper right (c)	<u>40</u> inches
lower left {b)	<u>36</u> inches
lower right (d)	<u>41</u> inches
Fill Extension:	
left up (e)	<u>12</u> feet
right up (f)	<u>14</u> feet
left down (g)	<u>12</u> feet
right down (h)	<u>15</u> feet
upper left (i)	<u>12</u> feet
lower left (j)	<u>13</u> feet
upper right (k)	<u>12</u> feet
lower right (I)	<u>15</u> feet
Cost of fill per yard	= \$

Body	113 cubic yards
Fill Down	37 cubic yards
Fill Up	35 cubic yards
Fill left	15 cubic yards
Fill right	18 cubic yards
Fill upleft	4 cubic yards
Fill upright	6 cubic yards
Fill dwnleft	5 cubic yards
Fill dwnright	8 cubic yards
SubTotal=	241 cubic yards
SubTotal= Shrinkage %=	241 cubic yards 15 %
SubTotal= Shrinkage %= Total Backfill	241 cubic yards 15 % 277 cubic yards
SubTotal= Shrinkage %= Total Backfill	241 cubic yards 15 % 277 cubic yards
SubTotal= Shrinkage %= Total Backfill Adjusted cost of	241 cubic yards 15 % 277 cubic yards
SubTotal= Shrinkage %= Total Backfill Adjusted cost of Backfill=	241 cubic yards 15 % 277 cubic yards Total \$ -



PORTLAND, GREAT DIAMOND ISLAND	42 SEAL COVE LANE	JUDY LEE
TOWN	LOCATION	APPLICANT'S NAME

1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of 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.

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 or dinances, subdivision regulations, Site Location of Development Act and minimum lot size laws) 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.

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 solely 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.

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.

5) 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.

6) 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. All septic tank, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration.

## ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND, GREAT DIAMOND ISLAND	42 SEAL COVE LANE	JUDY LEE
TOWN	LOCATION	APPLICANT'S NAME

7) The actual 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. If the system is supplied by public water or a private service with a water meter, the water consumption per period should be divided by the number of days to calculate the average daily water consumption (water usage (cu. ft.) x 7.48 cu. ft. (gallons per cu. ft.) divided by the # of days in period).

8) The general minimum setbacks between a well 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 slope requirement. In gravity systems, the invert of the septic tank(s) outlet(s) shall be at least 4 inches above the invert of the distribution box outlet at the disposal area. When an effluent pump is required, provisions shall be made to make certain that surface 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.

10) On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. 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 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 that 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 setting). 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.

11) Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more that 5% fines (silt and clay).

12) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.

13) Seed all filled and disturbed surfaces with perennial grass seed, 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.



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