SUBSURFA	CE WAST	ΕV	ATER DISPOSAL	SYS	STEM APPLICA	TION	Maine Dept. Health & Human Services Div of Environmental Health 11 SHS (207) 287-5672 FAX (207) 287-3165
	PROPERTY L	.00	ATION		>>CAUTION: LI	PI APPRO	VAL REQUIRED<<
City, Town, or Plantation	PORTLAND			_		\ in S	
Street or Road	TAFT AVENU	DE 1	GOSh. a	N	n/City Contract		Permit # 08055
Subdivision, Lot#		- (Dat	e Permit Issued	/ Fee \$ <u>→</u>	CCO Double Fee Charged []
OWNER/APPLICANT INFORMATION			-4	cal Plumbing Inspector S	ignature	LPI# + 100	
Name (last, first, MI) DRAKE		ΔNC	Owner ☐ Owner ☐ Applicant		out the first th		1188
Mailing Address P.O. BOX 1378				surface Wastewater Disposal Syster issued by the Local Plumbing Inspe			
Ovmer PORTLAND, ME 04104			authorize	the owner or installer to install the capplication and the Maine Subsurfac	disposal system	In accordance	
Daytime Tel. # 450~3970				Municipal Tax Map #	272 L	ot# <u>61-6</u> & 30-36	
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.				l I wit		authorized al	N REQUIRED bove and found it to be in compliance as Application. (1st) Date Approved
Signature	of Owner/Applicant		Date		Local Plumbi	ng Inspector S	Signature (2nd) Date Approved
			PERMIT II	NFOF	RMATION		
TYPE OF A	APPLICATION		THIS APPLICATION REQUIRES			DISP	OSAL SYSTEM COMPONENTS
	ime System		1.No Rule Variance				nplete Non-Engineered System
☐ 2. Replacement System		2.First Time System Varian				nitive System(graywater & alt toilet)	
Type Replaced: Year Installed:			a. Local Plumbing Inspectionb. State & Local Plumbing			. —	rnative Toilet, specify: -Engineered Treatment Tank (only)
	ded System		☐3.Replacement System Variance			☐ 5. Hole	ding Tank, gallons
	5% Expansion		 □ a. Local Plumbing Inspector Approval □ b. State & Local Plumbing Inspector Approval 				-Engineered Disposal Field (only) erated Laundry System
☐ b>25% Expansion ☐ 4. Experimental System			☐4.Minimum Lot Size Variance		•		nplete Engineered System(2000gpd+
☐ 5. Seasonal Conversion			□5.Seasonal Conversion Permit			ineered Treatment Tank (only) ineered Disposal Field (only)	
SIZE OF I	PROPERTY	ЕТ	DISPOSAL SYSTEM TO SERVE			☐ 11. Pre	-treatment, specify:
1+/-	□ SQ. Mace		1. Single Family Dwelling Unit, No. of Bedre2. Multiple Family Dwelling, No of Units:			☐ 12. Mis	cellaneous components
SHORELA	ND ZONING		☐ 3. Other:				TYPE OF WATER SUPPLY
☐ Yes ■ No			(specification) (speci		* *		illed Well □ 2. Dug Well □ 3. Private blic □ 5. Other:
		SIG	N DETAILS (SYSTE			N PAG	E 3)
TREATMEN			ISPOSAL FIELD TYPE & S		GARBAGE DISPOSA		DESIGN FLOW
1. Concre			🗌 1. Stone Bed 🔲 2. Stone Trench		■1. No □ 2. Yes □	•	360 gallons per day BASED ON:
■ a. Regu □ b. Low		1	■ 3. Proprietary Device □a. Cluster array ■c.Linear		If Yes or Maybe, specify one below:		1.Table 4A (dwelling unit(s)) 2.Table 4C (other facilities)
☐ 2. Plastic			■b. Regular □ d. H-20 l		b tanks in se		SHOW CALCULATIONS for other facilities
☐ 3. Other: CAPACITY:			4, Other: ⊈E;	itis.	☐ c.increase in tank ca ☐ d.Filter on tank outle		
			E; 1200 sq. ft. [IGH CAPACITY PLASTIC CHAMBE	Jijn, ft. R\UNITS	1	, L	4 BEDROOMS AT 90 GALLONS PER
SOIL DATA & DI			DISPOSAL FIELD SIZING	3	EFFLUENT/EJECTO	R PUMP	DAY EACH
PROFILE CON	IDITION				☐ 1. Not required		3. Section 4G (meter readings) ATTACH WATER-METER DATA
		1. Medium - 2.6 sq.ft./gpd 2. Medium-Large - 3.3 sq.ft./gpd		2. May be required3. Required		LATITUDE AND LONGITUDE	
at Cosci vation note in		-	3. Large - 4.1 sq.ft./gpd		Specify only for engineered systems		at center of disposal area Lat. N43 d 41 m 1.64 s
of Most Limiting Sc	oil Factor		4. Extra-Large - 5.0 sq.ft./gp	d	DOSE:	gallons	Lon. W70 d i9 m 5, 17 s
		l	SITE EVALUA				
I Certify that on							ata reported is accurate and
tnat the proposed	a syrem is in cor	none	ince with the Subsurface \		معمور بعدد	7/22	72016
Sité F	yaluator Signature	<u> </u>	THUR	16.3 SE		Date	2010
·	,		/				DTTGTGM 0 - W
Site Eva	ERT FRICK aluator Name Prin		Te	elephon	e Number	E-mail Ad	
ALBERT FRICK AS	SSOCIATES - 95A	COL	JNTY ROAD ROAD GORHAL	M, MAII	NE 04038 - (207) 839-556 a Site Evaluator	3	Page 1 of 3 HHE-200 Rev. 02/2011

Maine Department of Human Services Division of Health Engineering, Station 10 SHS (207) 287-5672 FAX (207) 287-4172 SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Town, City, Plantation Street, Road Subdivision Owner's Name PORTLAND TAFT AVENUE FRANCIS JAMES DRAKE SITE PLAN SITE LOCATION PLAN Scale 1" - 50 (Attach Map from Atlas Recommended) (ERP) or as shown 3" DIA 70 ROBI **ASPEN** ROBIN IPF +1-88.5 STREET SITE TP 3 TAFF AVENUE PROPOSED DISPOSAL AREA approx. proposed DWELLING PROPOSED (MIN 20 FROM GRAVEL. DISPOSAL AREA) DRIVEWAY PROPERTY INFORMATION PER PLAN BY ACORN ENGINEERING, DATED 12/16/15 VERIFY TO ASSURE SETBACKS SHOWN TO BIRCHWOOD 180 BOWER STREET (PAPER) SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) TP 3 Test Pit ☐ Boring Observation Hole ☐ Test Pit □ Boring " Depth of Organic Horizon Above Mineral Soil " Depth of Organic Horizon Above Mineral Soil Mottling Texture Consistency Color Mottling Consistency Color Texture 0 DARK SANDY LOAM BROWN FRIABLE GRAY (ALBIC) LOAMY SAND (inches) 10 10 YELLOW BROWN FEW, FAINT SURFACE 길 SAND LIGHT SURF OL IVE 20 COMMON 20 BROWN SOL SOF CEMENTED DISTINCT MINERAL MINERAL BELOW BEL OW 40 40

Soil Classification

Condition

Slope

Limiting

Factor

□ Ground Water □ Restrictive Layer □ Bedrock □ Pit Depth

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

Limiting Factor (O " Ground Water
Restrictive Layer

☐ Bedrock ☐ Pit Depth

Slope

0-3 %

50

Soil Classification

Profile

D

Site Evaluator Signature

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Maine Deportment of Humon Services Division of Health Engineering, Station 10 SHS (207) 287-5872 FAX (207) 287-4172 Town, City, Plantation Street, Road, Subdivision Owner's Name PORTLAND TAFT AVENUE FRANCIS JAMES DRAKE SUBSURFACE WASTEWATER DISPOSAL PLAN SCALE 1" = 20 FT. ERP: NAIL IN 3" DIA, ASPEN PROPOSED DISPOSAL AREA 48. 5" ABOVE GROUND LEVEL (3 ROWS OF 8 HIGH CAPACITY PLASTIC CHAMBER UNITS EACH) PROPERTY K? CORNER APPROX. PROPERTY LINE (VERIFY TO ASSURE SETBACKS SHOWN) -54 EXISTING GRADE BOX (BOTTOM 50 AT CORNER FEED IF PUMPING) INSULATE PER CODE PUMP STATION (IF NEEDED) 3346 | 4666 | 6232 NEW 1000 GALLON CONCRETE SHOULDER SEPTIC TANK LOCATE WHERE FEASIBLE, 8' MIN. FROM BUILDING STRUCTURE Q SET AT HIGH ENOUGH ELEVATION TO PROVIDE GRAVITY FLOW OR PROVIDE PUMP STATION APPROXIMATE IF PUMPING USE TOE OF FILL CROSS 11/2" TO 2" DIA EFFLUENT LINE BURIED SECTION BELOW FROST OR INSULATE NOTE: THOROUGHLY SCARIFY UNDER APPROX. PROPOSED ENTIRE DISPOSAL FIELD, SHOULDER TO PROTECT FROM FREEZING **DWELLING** AREA, & FILL EXTENSION AREA PRIOR OR IF GRAVITY PLOW USE (MIN. 20 FROM TO FILL PLACEMENT, THEN BLEND FIRST 4" DIA SDR35 SOLID PVC DISPOSAL AREA) (ASSURE WATERTIGHTNESS) 6" LIFT OF FILL INTO EXISTING SOIL GRAPHIC SCALE SURFACE TO PROMOTE MIXING FILL REQUIREMENTS CONSTRUCTION ELEVATIONS **ELEVATION REFERENCE POINT** : 42"- 44" Finished Grade Elevation SEE. Location & Description 3" DIA. ASPEN Depth of Fill (Upstope) 50" - 54" Top of Distribution Pipe or Proprietory Device DETAIL NAIL 48, 5" ABOVE BASE Depth of Fill (Downslope) Bottom of Disposal Area <u>BELOW</u> Reference Elevation is: 0.0" or _ DEPTHS AT CROSS-SECTION (shown below) SCALE: DISPOSAL AREA CROSS SECTION 1" .5 FT VERTICAL: HORIZONTAL: 1" = 10 FT +/-20' - 22' SHOULDER SHOULDER FILL EXT. FILL EXT. CAP TOE OF FILL GRAVELLY COARSE SAND APPROX. WITH SANDY LOAM CROWN AT 3% PROPOSED MATERIAL TO PREVENT **DWELLING** WASTEWATER BREAKOUT EXISTING GRADE SCARIFY (SEE NOTE ABOVE) DEPTH BELOW ERP. EXISTING GRADE <u>₩ ₩ ₩ _ -12"</u> · CLEAN BACKFILL .. -24" 11/2 INCH CLEAN CRUSHED STONE 40" Page 3 of 3 163 HHE-200 Rev. 10/02 SE # ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563

Fill Estimation Worksheet

Albert Frick Associates Inc. 95A County Road Gorham, Me 04038 839-5563 FAX - 839-5564 E-Mail - Albert@albertfrick.Com www.albertfrick.com

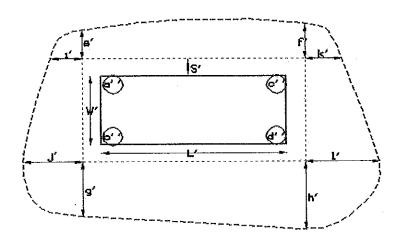
Town:

Portland

Project owner/applicant: Francis James Drake

Taft Avenue Portland, Maine

This worksheet is being provided as a complimentary tool to assist in estimating the approximate amount of fill required to construct the proposed system only. 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 affect model projections.



Length (L)	<u>50.00</u> feet
Width (W)	<u>15</u> feet
Shoulder (S)	3 feet
Depth of fill:	
upper left (a)	<u>42</u> inches
upper right (c)	<u>44</u> inches
lower left (b)	<u>50</u> inches
lower right (d)	<u>54</u> inches
Fill Extension:	
left up (e)	<u>11</u> feet
right up (f)	<u>12</u> feet
left down (g)	<u>20</u> feet
right down (h)	<u>22</u> feet
upper left (i)	<u>11</u> feet
lower left (j)	<u>20</u> feet
upper right (k)	<u>12</u> feet
lower right (I)	<u>22</u> feet
Cost of fill per y	ard= \$ 0.00

Body	173 cubic yards
Fill Down	95 cubic yards
Fill Up	43 cubic yards
Fill left	24 cubic yards
Fill right	27 cubic yards
Fill upleft	5 cubic yards
Fill upright	6 cubic yards
Fill dwnleft	17 cubic yards
Fill dwnright	22 cubic yards

SubTotal=	412 cubic yards
Shrinkage %=	15 %
Total Backfill	474 cubic yards

Adjusted cost of Total Backfill=



PORTLAND

TAFT AVENUE

FRANCIS JAMES DRAKE

TOWN

LOCATION

APPLICANT'S NAME

- 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.
- 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.
- 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.
- 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.
- 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.

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) 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.

PORTLAND

TAFT AVENUE

FRANCIS JAMES DRAKE

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.
- 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 that 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.

