## CITY OF PORTLAND WASTEWATER CAPACITY APPLICATION

Department of Public Services, 55 Portland Street, Portland, Maine 04101-2991



Bradley Roland, P.E. Water Resources Division

Portland, Maine 04101-2991		) <b>3</b> /3/
Date:	CATATIS	POP
1. Please, Submit Utility, Site, Site Address:	and Locus Plans	S.
		Chart Block Lot Number:
Proposed Use:		_
Previous Use:		Commercial (see part 4 below)
	GPD	្តី Industrial (complete part 5 below)
Existing Process Flows:	GPD	g Governmental
Description and location of City se		Residential
receive the proposed building sewer lateral.		$\frac{3}{50}   \text{Other } (specify) $
2. Please, Submit Contact Info City Planner's Name: Owner/Developer Name: Owner/Developer Address:		Phone:
Phone:	Fax:	E-mail:
Engineering Consultant Name:		2 mm.
Engineering Consultant Address:	-	
Phone:	Fax:	E-mail:
<b>3. Please, Submit Domestic W</b> Estimated Domestic Wastewater F. Peaking Factor/ Peak Times:	astewater Designates low Generated:	GPD
		lbook of Subsurface Wastewater Disposal in Ianual," Portland Water District Records,
	mers Calculation N	
(1 30)		

Note: Please submit calculations showing the derivation of your design flows, either on the following page, in the space provided, or attached, as a separate sheet.

4. Please, Submit External Grease Interceptor Calcula	tions.	
Total Drainage Fixture Unit (DFU) Values:		
Size of External Grease Interceptor:		
Retention Time:		
Peaking Factor/ Peak Times:		
Note: In determining your restaurant process water flows, and the size of y Uniform Plumbing Code. Note: In determining the retention time, sixty (6 Note: Please submit detailed calculations showing the derivation of your replease submit detailed calculations showing the derivation of the size of you space provided below, or attached, as a separate sheet.	0) minutes is the minimum rete estaurant process water design	ention time. flows, and
5. Please, Submit Industrial Process Wastewater Flow Estimated Industrial Process Wastewater Flows Generated:	<b>Calculations</b>	GPD
Do you currently hold Federal or State discharge permits?	Yes	No
Is the process wastewater termed categorical under CFR 40?	Yes —	-No $-$
OSHA Standard Industrial Code (SIC):	(http://www.osha.gov/osh	
Peaking Factor/Peak Process Times:	(mip.//www.osna.gov/osn	stats/steser.nimi)
Note: On the submitted plans, please show where the building's domestic sindustrial-commercial process wastewater sewer laterals exits the facility. enter the city's sewer. Finally, show the location of the wet wells, control notations of filters, strainers, or grease traps.	Also, show where these buildin	g sewer laterals



## **Wastewater Design Flow Calculations**

Single Family House with Guest House 7 Diamond Pass Peaks Island Portland, Maine

## Proposed conditions:

• Single family house with guest house

o House: 5 bedrooms

o Guest House: 1 bedroom

Design flows from Maine Subsurface Wastewater Disposal Rules, Tables 4A & 4C

• 450 GPD/5 bedroom dwelling + 20 GPD/bunk house bed

Average Daily Flow  $Q_{ave} = 450 \text{ GP} + 20 \text{ GPD} = 470 \text{ GPD}$ 

Peaking Factor = 2.2

Per TR-16 Guides for the Design of Wastewater Treatment Works, Figure 1, pop. = 70,000

Maximum Daily Flow  $Q_{max} = 470 \text{ GPD } (2.2) = 1,034 \text{ GPD}$