SUBSURFA	CE WAST	ΓEV	VATER DISPOSAI	_SY	STEM APPLICA	NOITA	N.	Maine Dept. Health & Human Service Div of Environmental Health,11 SHS 207) 287-5672 FAX (207) 287-3165	
PROPERTY LOCATION					>>CAUTION: L	ALLEN E PRINCIPLE POPULATI	-		
City, Town, or Plantation	PORTLAND	; GR	REAT DIAMOND ISLAN						
Street or Road	CRESCENT AVENUE			Тс	own/City	Permit #		#	
Subdivision, Lot#				Da	ate Permit Issued / /	Fee \$ _	-	Double Fee Charged []	
OWNER/APPLICANT INFORMATION					cool Diumbing Inchestor C	N:		LPI#	
Name (last, first, MI) LUEDKE	Owner KATHERINE Applicant	Local Plumbing Inspector Signature							
Mailing Address 36 ASSEN DRIVE				The Subsurface Wastewater Disposal System <i>shall not</i> be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall					
Owner SAN BRUNO, CA			A 940// 20/		authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.				
Daytime Tel. # 408-396-3688				Municipal Tax Map #					
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.					CAUTION: INSPECTION REQUIRED I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. (1st) Date Approved				
Signature of Owner/Applicant Date									
PERMIT INFORMATION								(2nd) Date Approved	
TYPE OF AL	DDLICATION								
TYPE OF APPLICATION ■ 1. First Time System □ 2. Replacement System Type Replaced:		THIS APPLICATION REQUIRES ■ 1.No Rule Variance □ 2.First Time System Variance □ a. Local Plumbing Inspector Approval			DISPOSAL SYSTEM COMPONENTS ■ 1. Complete Non-Engineered System □ 2. Primitive System(graywater & alt toilet) □ 3. Alternative Toilet, specify: □ 3.				
Year Installed:			 □ b. State & Local Plumbing Inspector App □ 3.Replacement System Variance 			☐ 4. Non	-Engine	eered Treatment Tank (only)	
☐ 3. Expanded System☐ a. <25% Expansion			☐ a. Local Plumbing	riance ector Approval			nk, gallons eered Disposal Field (only)		
□ b>25% Expansion			□ b. State & Local Plumb		bing Inspector Approval 7. Se		parated Laundry System		
☐ 4. Experimental System☐ 5. Seasonal Conversion			☐ 4.Minimum Lot Size No. Seasonal Conversion		□ 8. Com	plete E	ingineered System(2000gpd+)		
SIZE OF PROPERTY			DISPOSAL SYSTEM T			9. Engineered freating		Disposal Field (only)	
					ng Unit, No. of Bedrooms: 3 or 4 12. Miscellaneous components			ous components	
SHORELAND ZONING			□ 2. Multiple Family Dwelling, I□ 3. Other:				TYPE OF WATER SUPPLY		
■ Yes □ No			Current Use Seesonal	(spec			illed Well 2. Dug Well 3. Private		
■ Yes									
TREATMEN		D. D	ISPOSAL FIELD TYPE & S	IZE	GARBAGE DISPOSA		- 3)	DESIGN FLOW	
			☐ 1. Stone Bed ☐ 2. Stone Trench		■1. No □ 2. Yes □ 3. May		_	360 gallons per day	
■ a. Regular □ b. Low Profile			3. Proprietary Device		If Yes or Maybe, specify one below:		1.T	BASED ON: able 4A (dwelling unit(s))	
☐ 2. Plastic			□ a. Cluster array ■c.Linear ■b. Regular □ d. H-20 loade		a.Multi-compartment tank b tanks in series		SHOW C	able 4C (other facilities) CALCULATIONS for other facilities	
☐ 3. Other:CAPACITY: IOOO GAL SI			4. Other:		□ c.Increase in tank capacity		z	or 4 BEDROOMS AT	
SOIL DATA & DESIGN CLASS			SIZE: <u>1344</u> ■sq. ft. □lin. ft 28 ELJEN GSF UNITS		☐ d.Filter on tank outlet		90	GALLONS PER	
PROFILE CONDITION			DISPOSAL FIELD SIZING		EFFLUENT/EJECTOR PUMP		אע	AT EACH	
2 / C			4 Modium 2 Can # Jan d		☐ 1. Not required		☐ 3. S	Section 4G (meter readings) ACH WATER-METER DATA	
			1. Medium - 2.6 sq.ft./gpd2. Medium-Large - 3.3 sq.ft./gpd		2. May be required3. Required		LATI	TUDE AND LONGITUDE	
Depth 26 "		□ 3	☐ 3. Large - 4.1 sq.ft./gpd		Specify only for engineered systems:		Lat. N		
of Most Limiting Soil Factor		4	4. Extra-Large - 5.0 sq.ft./gpd		DOSE: gallons		Lon. Wifg.p.s., s	70 d 12 m 13. 68 s state margin of error	
I Certify that on 7/	8/15 & 2/12/16 (H	ate) l	SITE EVALUAT	FOR	STATEMENT	h - 4 4h 1 - 4			
I Certify that on 7/8/15 & 2/12/16 (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 (10-14/4A CMR 241).									
Site Fva	luator Signature	7	per con	163		118/	10/	U	
				SE	*	Date /			
Site Evalu	T FRICK value Print	ed	Tele	enhone	e Number	RT@ALBER		COM_	
ALBERT FRICK ASS	OCIATES - 95A	COU	NTY ROAD ROAD GORHAM, lesign should be confirmed w	MAIN	IF 04038 - (207) 839-5563	L-man Audi	COS	Page 1 of 3 HHE-200 Rev. 02/2011	

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 Street, Road Subdivision Owner's Name PORTLAND: GREAT DIAMOND ISLAND CRESCENT AVENUE JAMES & KATHERINE LUEDKE PROPERTY INFORMATION PER PORTION SITE PLAN Scale 1" = **60** Ft. SITE LOCATION PLAN OF UNDATED, UNNAMED SURVEY PLAN or as shown (Attach Map from Maine Atlas for New System PROVIDED BY OWNER. VERIFY TO ASSURE CRESCENT AVENUE Variance) SETBACKS SHOWN OCEAN TRAVELED WAY S 0 FERRY LANDING NOTE: PROVIDE EROSION AND SEDIMENT CONTROL MEASURES PER D.E.P. BEST MANAGEMENT PRACTICES 22, 03 120, 50' APPROX. PROPOSED જુ DWELLING LOCATION PROPOSED (MIN. 20' FROM DISPOSAL AREA DISPOSAL AREA) 8 (ERP) 36" DIA. OAK GGED 75' SETBACK FROM BLUFF 202 1 107' TO APPROX BAY AVENUE (PAPER STREET) I HIGH WATER MARK SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) TP A Observation Hole Test Pit Observation Hole ☐ Boring TP 2 Test Pit ☐ Boring " Depth of Organic Horizon Above Mineral Soil " Depth of Organic Horizon Above Mineral Soil Texture Consistency Color Mottling 0 Texture Consistency Mottling Color BROWN DARK SANDY SANDY BROWN LOAM LOAM (inches) (inches 10 YELLOW FRIABLE FRIABLE SURFACE YELLOW ACE BROWN LOAMY BROWN SURF SAND 20 20 LOAMY SOIL SOIL SAND LIGHT FEW, FAINT MINERAL MINERAL OLIVE BROWN FEW, FAINT LIGHT FEW, LOAMY 30 SOMEWHAT BELOW YELLOW OLIVE DISTINCT SOMEWHAT BELOW SAND FIRM BROWN BROWN FIRM AND DEPTH DEPTH SAND 40 40 LIMIT OF EXCAVATION 50 Soil Classification Limiting Slope ■ Ground Water ■ Restrictive Layer Ground Water Soil Classification Limiting ■ Ground Water □ Restrictive Layer □ Bedrock Factor Factor □ Bedrock □ Pit Depth

Profile

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□ Pit Depth

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

Site Exaluator Signature

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 Street,Road,Subdivision Owner's Name PORTLAND: GREAT DIAMOND ISLAND CRESCENT AVENUE JAMES & KATHERINE LUEDKE NOTE: THOROUGHLY SCARIFY UNDER SUBSURFACE WASTEWATER DISPOSAL PLAN ENTIRE DISPOSAL FIELD, SHOULDER SCALE 1" = 20 FT. AREA, & FILL EXTENSION AREA PRIOR IF PUMPING USE TO FILL PLACEMENT, THEN BLEND FIRST 11/2" TO 2" DIA. 6" LIFT OF FILL INTO EXISTING SOIL PROPOSED DISPOSAL AREA EFFLUENT LINE BURIED SURFACE TO PROMOTE MIXING (4 ROWS OF 7 ELJEN BELOW FROST OR INSULATE APPROX. PROPOSED GSF UNITS EACH) NOTE: DOUBLE PERFORATED TO PROTECT FROM FREEZING DWELLING LOCATION OR IF GRAVITY FLOW USE PIPE ENTIRE LENGTH OF (MIN. 20' FROM 4" DIA. SDR35 SOLID PVC ROWS I & 3 FOR OVERFLOW. DISPOSAL AREA) (ASSURE WATERTIGHTNESS) LAID ADJACENT TO DISTRIBUTION PIPE (SEE DETAIL BELOW) CROSS PROVIDE SURFACE NEW 1000 GALLON CONCRETE SECTION SEPTIC TANK LOCATE WATER RUNOFF Q AROUND DISPOSAL WHERE FEASIBLE, 8' MIN. AREA FROM BUILDING STRUCTURE SET AT HIGH ENOUGH ELEVATION TO PROVIDE GRAVITY FLOW ERP: NAIL IN 36" DIA OR PROVIDE PUMP STATION FLAGGED OAK 15' 45" ABOVE GROUND LEVEL 5' SHOULDER DISTRIBUTION BOX EXISTING GRADE (INSULATE PER CODE) APPROX. PROPERTY LINE AT CORNER -72 (VERIFY TO ASSURE PROPER SETBACKS) FLAGGED 75 SETBACK FROM BLUFF 20 APPROXIMATE TOE OF FILL GRAPHIC SCALE FILL REQUIREMENTS CONSTRUCTION ELEVATIONS **ELEVATION REFERENCE POINT** : 9"- 12" Depth of Fill (Upslope) Finished Grade Elevation SEE Location & Description 36" DIA. OAK Top of Distribution Pipe or Proprietary Device : 18"- 21 DETAIL NAIL 45" ABOVE BASE Reference Elevation is: 0.0" Depth of Fill (Downslope) Bottom of Disposal Area BELOW AT CROSS-SECTION (shown below) SCALF: DISPOSAL AREA CROSS SECTION DOUBLE 4" DIA. OVERPLOW VERTICAL: 1" - 5 FT HORIZONTAL: 1" = PERFORATED PIPE LAID ADJACENT TO DISTRIBUTION PIPE SEE ELJEN +1-2' - 3' 5' IN-DRAIN MANUAL 15' 5' +1-14' - 16' ON SERIAL DISTRIBUTION ON OPES FOR PROPER PIPING FILL EXT. SHOULDER SHOULDER FILL EXT. GRAVELLY COARSE SAND EXISTING GRADE CAP TOE OF FILL WITH SANDY LOAM SCARIFY (SEE NOTE ABOVE) MATERIAL TO PREVENT WASTEWATER BREAKOUT SEE ELJEN IN-DRAIN MANUAL DEPTH BELOW ERP: ON SERIAL DISTRIBUTION ON 2 ROW I SLOPES FOR PROPER PIPING FINISHED GRADE -33' -39" 45 CLEAN FILL GEOTEXTILE FABRIC -49' OVER 4" DIA. PERF. PIPE" 56" -74 ELJEN IN-DRAIN UNIT GRAVEL -80% 163 Page 3 of 3 Site Exaluator Signature HHE-200 Rev. 10/02 SE # ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563

PORTLAND; GREAT DIAMOND ISLAND

CRESCENT AVENUE

JAMES & KATHERINE LUEDKE

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; GREAT DIAMOND ISLAND

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- 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.
- 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.

