

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Health Engineering, Station 10-SHS  
(207) 287-5672 FAX (207) 287-4172

<b>PROPERTY LOCATION</b>		>> Caution: Permit Required - Attach In Space Below <<	
City, Town, or Plantation	PORTLAND, CUSHING ISLAND	PORTLAND	PERMIT # 10660 TOWN COPY
Street or Road	24 CALUMET ROAD	Date Permit Issued: 6/5/08	\$ _____ <input type="checkbox"/> If Double Fee Charged
Subdivision, Lot *		Local Plumbing Inspector Signature: <i>Christy S. [Signature]</i>	
<b>OWNER/APPLICANT INFORMATION</b>		L.P.I. # 10660	
Name (last, first, MI)	SULLIVAN MARGARET		
Mailing Address of	16 McCall Road		
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	WINCHESTER, MA 01890		
Daytime Tel. *	781-729-8072	Municipal Tax Map * 106A025 Lat. N 43 38' 42" Lon. W 70 11' 59"	
<b>Owner or Applicant Statement</b>		<b>Caution: Inspections Required</b>	
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 Local Plumbing Inspector to deny a permit.		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.	
<i>Margaret Sullivan</i> 06/02/08 Signature of Owner/Applicant Date		_____ Local Plumbing Inspector Signature (1st) Date Approved	
		_____ Local Plumbing Inspector Signature (2nd) Date Approved	

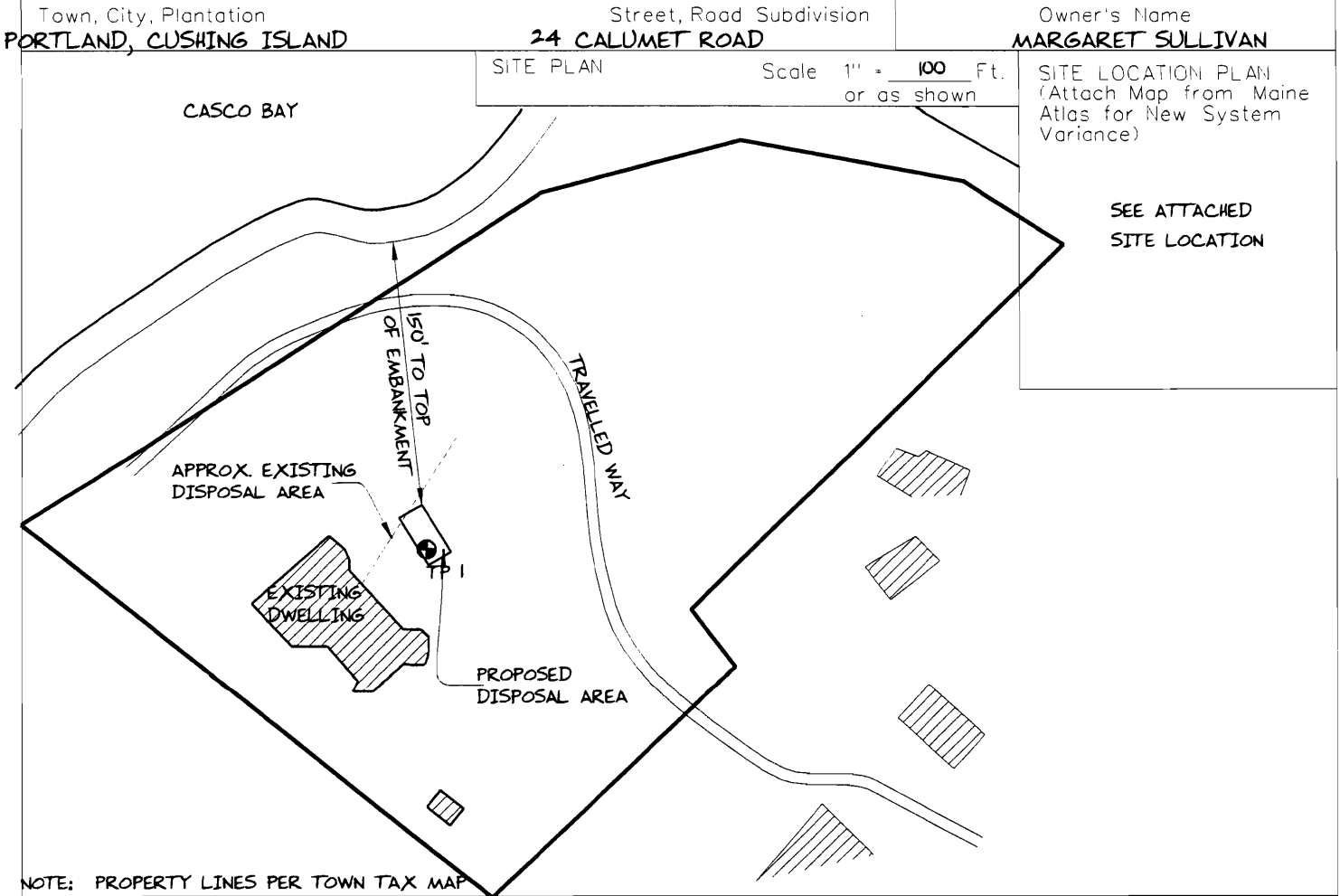
PERMIT INFORMATION			
<b>TYPE OF APPLICATION</b> 1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System Type Replaced: <u>TRENCH</u> Year Installed: <u>UNKNOWN</u> 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> Minor Expansion b. <input type="checkbox"/> Major Expansion 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	<b>THIS APPLICATION REQUIRES</b> 1. <input checked="" type="checkbox"/> No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. <input type="checkbox"/> Replacement System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 4. <input type="checkbox"/> Minimum Lot Size Variance 5. <input type="checkbox"/> Seasonal Conversion Approval	<b>DISPOSAL SYSTEM COMPONENTS</b> 1. <input checked="" type="checkbox"/> Complete Non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & alt toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank (only) 5. <input type="checkbox"/> Holding Tank, _____ Gallons 6. <input type="checkbox"/> Non-Engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (2000 gpd) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal Field (only) 11. <input type="checkbox"/> Pre-treatment, specify: 12. <input type="checkbox"/> Miscellaneous components	<b>SIZE OF PROPERTY</b> 2 ACRES+ <input type="checkbox"/> sq. ft. <input type="checkbox"/> acres <b>SHORELAND ZONING</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>DISPOSAL SYSTEM TO SERVE</b> 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <u>5</u> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: _____ SPECIFY Current Use <input checked="" type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped		<b>TYPE OF WATER SUPPLY</b> 1. <input type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input checked="" type="checkbox"/> Public 5. <input type="checkbox"/> Other: <u>SEASONAL</u>	

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
<b>TREATMENT TANK</b> 1. <input checked="" type="checkbox"/> Concrete a. <input checked="" type="checkbox"/> Regular b. <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY <u>1500</u> gallons	<b>DISPOSAL FIELD TYPE &amp; SIZE</b> 1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array c. <input checked="" type="checkbox"/> Linear b. <input checked="" type="checkbox"/> Regular d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: SIZE <u>152</u> sq. ft. <input type="checkbox"/> lin. ft. <u>24 ELJEN IN DRAIN UNITS</u>	<b>GARBAGE DISPOSAL UNIT</b> 1. <input checked="" type="checkbox"/> No 3. <input type="checkbox"/> Maybe 2. <input type="checkbox"/> Yes >> Specify one below: a. <input type="checkbox"/> Multi-compartment tank b. <input type="checkbox"/> _____ tanks in series c. <input type="checkbox"/> Increase in tank capacity d. <input type="checkbox"/> Filter on tank outlet	<b>DESIGN FLOW</b> <u>252</u> gallons per day BASED ON: 1. <input checked="" type="checkbox"/> Table 501.1 (dwelling unit(s)) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS - for other facilities - <u>5 BEDROOMS</u> (SEE ATTACHED WATER RECORDS) <u>252 GALLONS PER DAY WAS THE AVERAGE USE PER DAY FOR THE LAST TWO YEARS OF WATER USE (RUSS MARTIN OF D.E.H. VERBALLY APPROVED THE USE OF DESIGN FLOW PER 5/14/08 PHONE CONVERSATION)</u> 3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA
<b>SOIL DATA &amp; DESIGN CLASS</b> PROFILE <u>2</u> CONDITION <u>A</u> DESIGN <u>2</u> AT Observation Hole * <u>TP 1</u> Depth <u>24</u> " OF MOST LIMITING SOIL FACTOR	<b>DISPOSAL FIELD SIZING</b> 1. <input type="checkbox"/> Small - 2.0 sq.ft./gpd 2. <input type="checkbox"/> Medium - 2.6 sq.ft./gpd 3. <input checked="" type="checkbox"/> Medium-Large - 3.3 sq.ft./gpd 4. <input type="checkbox"/> Large - 4.1 sq.ft./gpd 5. <input type="checkbox"/> Extra-Large - 5.0 sq.ft./gpd	<b>EFFLUENT EJECTOR PUMP</b> RAISE PLUMBING 1. <input type="checkbox"/> Not required 2. <input checked="" type="checkbox"/> May be required 3. <input type="checkbox"/> Required >> Specify only for engineered or experimental systems DOSE: _____ Gallons	

SITE EVALUATOR STATEMENT		
I certify that on <u>4/30/08</u> (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 (10-144A CMR/241).		
<i>Albert Frick</i> Site Evaluator Signature	163 SE *	<u>5/15/2008</u> Date
ALBERT FRICK Site Evaluator Name Printed	(207) 839-5563 Telephone Number	AFA@MAINERR.COM E-mail Address
ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563		
Note: Changes to or deviations from the design should be confirmed with the Site Evaluator		

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
 Division of Health Engineering, Station 10 SHS  
 (207) 287-5672 FAX (207) 287-4172



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

Observation Hole TP 1  Test Pit  Boring  
 \_\_\_\_\_ " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0			BROWN	
10	STONY SANDY LOAM	FRIABLE	YELLOW BROWN	
20				
30	BEDROCK			
40				
50				

Soil Classification: Profile 2 Condition A Slope \_\_\_\_\_  
 Limiting Factor: 24  Ground Water  
 Restrictive Layer  Bedrock  Pit Depth

Observation Hole \_\_\_\_\_  Test Pit  Boring  
 \_\_\_\_\_ " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

Soil Classification: Profile \_\_\_\_\_ Condition \_\_\_\_\_ Slope \_\_\_\_\_  
 Limiting Factor: \_\_\_\_\_  Ground Water  
 Restrictive Layer  Bedrock  Pit Depth

Site Evaluator Signature

*Albert Frick*

163  
SE

Date

5/15/2008

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# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
 Division of Health Engineering, Station 10, S-15  
 (207) 287-5672 FAX (207) 287-4172

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

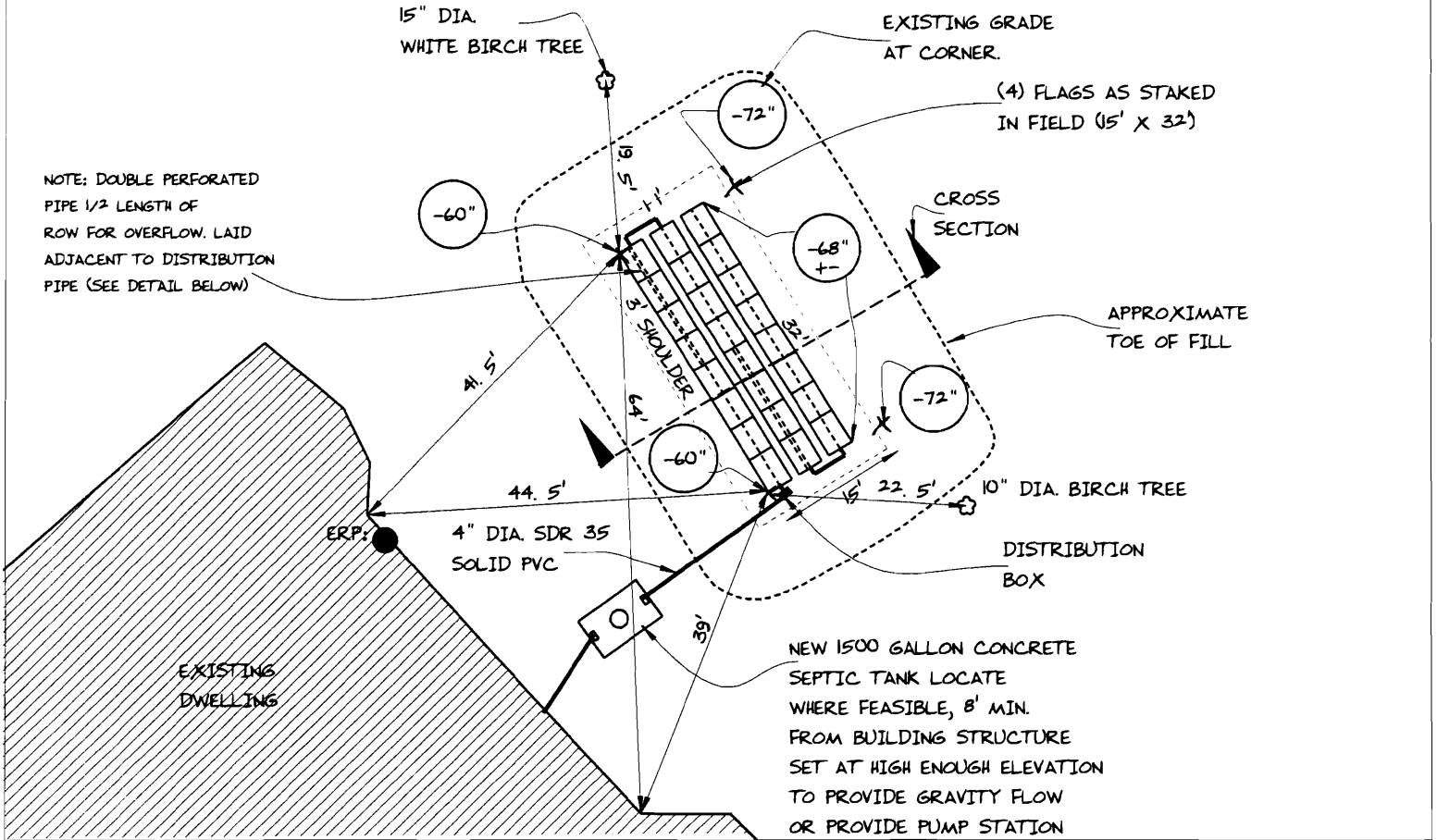
PORTLAND, CUSHING ISLAND

24 CALUMET ROAD

MARGARET SULLIVAN

## SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20' FT.



### FILL REQUIREMENTS

### CONSTRUCTION ELEVATIONS

### ELEVATION REFERENCE POINT

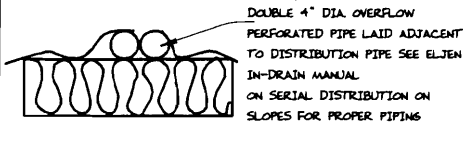
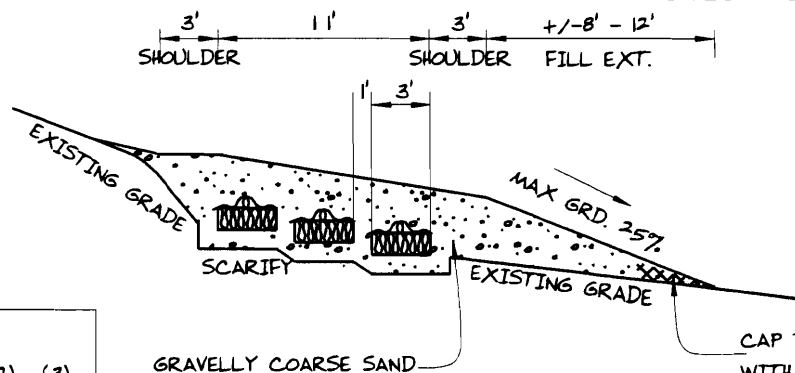
Depth of Fill (Upslope)	: 25"
Depth of Fill (Downslope)	: 25"
DEPTHS AT CROSS-SECTION (shown below)	

Finished Grade Elevation	SEE DETAIL BELOW
Top of Distribution Pipe or Proprietary Device	SEE DETAIL BELOW
Bottom of Disposal Area	SEE DETAIL BELOW

Location & Description  
 BOTTOM OF WINDOW PANE  
 9" ABOVE EXISTING GRADE  
 Reference Elevation is: 0.0" or -----

### DISPOSAL AREA CROSS SECTION

SCALE:  
 VERTICAL: 1" = 5 FT  
 HORIZONTAL: 1" = 10 FT



SEE ELJEN IN-DRAIN MANUAL ON SERIAL DISTRIBUTION ON SLOPES FOR PROPER PIPING

	DEPTH BELOW ERP:		
	ROW 1	(2)	(3)
FINISHED GRADE	-35"	-39"	-43"
CLEAN BACKFILL MAY INCLUDE LOAM / TOPSOIL AS NEEDED	-45"	-49"	-53"
GEOTEXTILE FABRIC	-49"	-53"	-57"
OVER 4" DIA. PERF. PIPE	-60"	-64"	-68"
ELJEN IN-DRAIN UNIT	-66"	-70"	-74"

GRAVELLY COARSE SAND NO PARTICLES OVER GRAVEL

Site Evaluator Signature

163  
 SE

Date

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**Albert Frick Associates, Inc.**  
**Soil Scientists & Site Evaluators**

95A County Road Gorham, Maine 04058  
(207) 859-5565

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PORTLAND, CUSHING ISLAND	24 CALUMET ROAD	MARGARET SULLIVAN
TOWN	LOCATION	APPLICANT'S NAME

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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 ordinances, 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. Risers and covers should be installed over the septic tank outlet to allow for easy maintenance.

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 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.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND, CUSHING ISLAND	24 CALUMET ROAD	MARGARET SULLIVAN
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.) ÷ (# of days in period) = gals per day].
- 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.
- 10) When an effluent pump is required: 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.
- 11) 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 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 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.
- 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.
- 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, 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.



**Albert Frick Associates, Inc.**  
Soil Scientists & Site Evaluators

95A County Road Gorham, Maine 04058  
(207) 839-5563

## Fill Estimation Worksheet

Albert Frick Associates Inc.

95A County Road

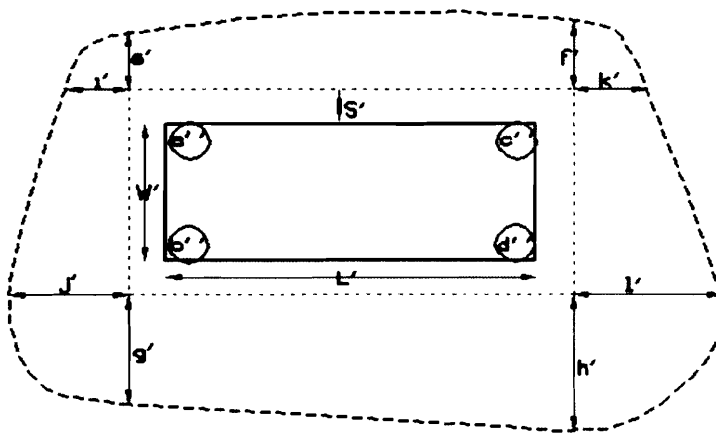
Gorham, Me 04038

839-5563 FAX - 839-5564

E-Mail - Albertfrick@worldnet.att.net

Town: Cushing Island  
 Project owner/applicant: Sullivan  
 Address: \_\_\_\_\_  
 \_\_\_\_\_

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)	<b><u>32</u> feet</b>
Width (W)	<b><u>11</u> feet</b>
Shoulder (S)	<b><u>3</u> feet</b>
<i>Depth of fill:</i>	
upper left (a)	<b><u>31</u> inches</b>
upper right (c)	<b><u>31</u> inches</b>
lower left (b)	<b><u>31</u> inches</b>
lower right (d)	<b><u>31</u> inches</b>
<i>Fill Extension:</i>	
left up (e)	<b><u>8</u> feet</b>
right up (f)	<b><u>8</u> feet</b>
left down (g)	<b><u>8</u> feet</b>
right down (h)	<b><u>12</u> feet</b>
upper left (i)	<b><u>8</u> feet</b>
lower left (j)	<b><u>8</u> feet</b>
upper right (k)	<b><u>8</u> feet</b>
lower right (l)	<b><u>12</u> feet</b>
Cost of fill per yard= \$ <b>0.00</b>	

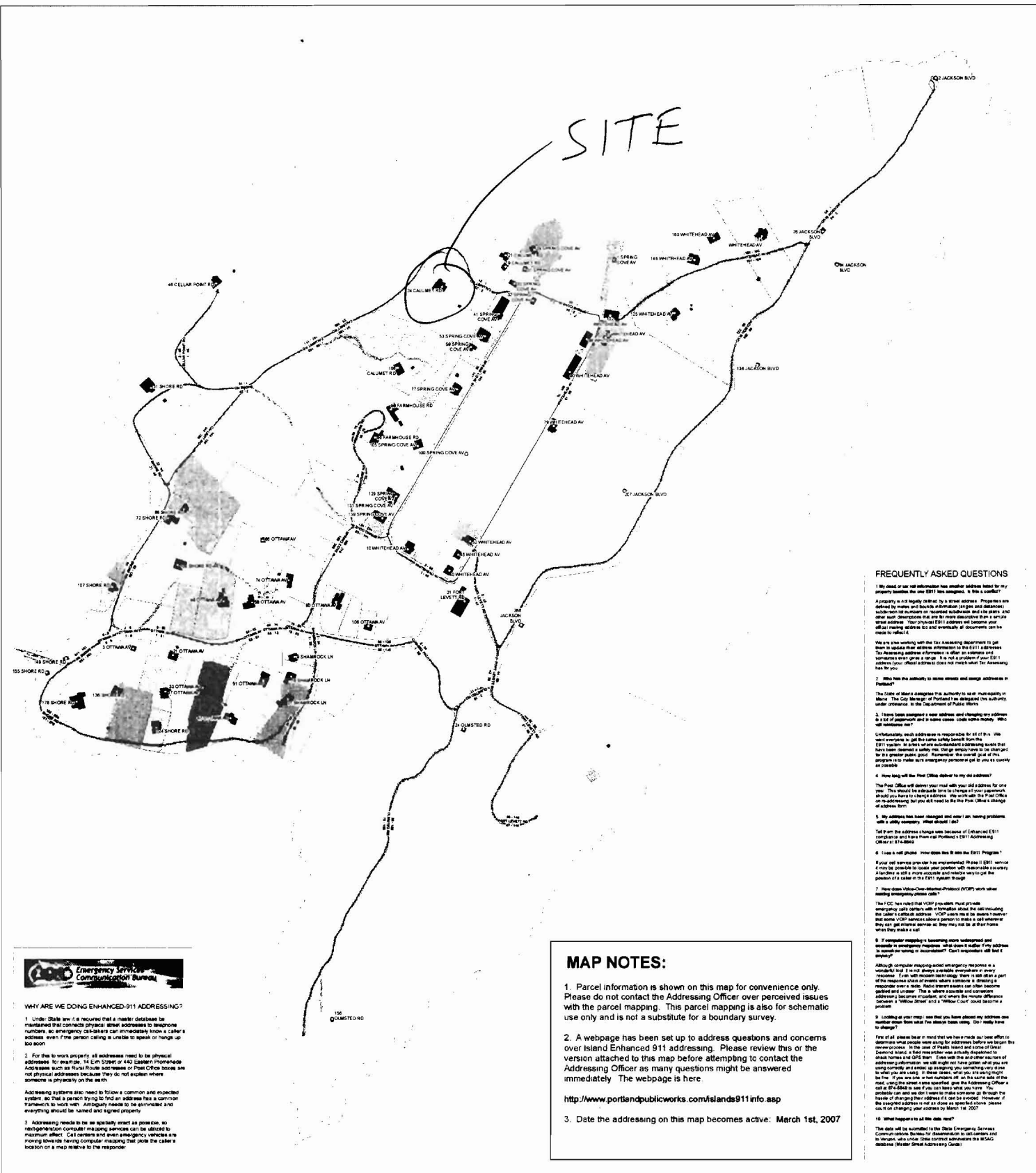
Body	<b>62 cubic yards</b>
Fill Down	<b>19 cubic yards</b>
Fill Up	<b>15 cubic yards</b>
Fill left	<b>7 cubic yards</b>
Fill right	<b>9 cubic yards</b>
Fill upleft	<b>2 cubic yards</b>
Fill upright	<b>2 cubic yards</b>
Fill downleft	<b>2 cubic yards</b>
Fill downright	<b>4 cubic yards</b>

<b>SubTotal=</b>	<b>122 cubic yards</b>
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<b>Shrinkage %=</b>	<b>15 %</b>
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<b>Total Backfill</b>	<b>140 cubic yards</b>
-----------------------	------------------------

<b>Adjusted cost of Total Backfill=</b>	<b>\$ -</b>
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SITE

**FREQUENTLY ASKED QUESTIONS**

1. Why does our tax assessment have another address than my property location on our 911 tax map? Is this a conflict?
 

A property is a legally defined by a street address. Properties are defined by maps and books of information (print and digital) submitted to the assessor on assessed lots and the plan, and other user information that is not descriptive but is specific to the address. Your physical 911 address will become your official mailing address for all emergency services. It is not a conflict.
2. Why has the authority to issue street and range addresses in Portland?
 

The State of Maine delegates the authority to issue street addresses in Portland to the City Manager. Portland has delegated this authority under ordinance to the Director of Public Works.
3. There has been a new address and changing my address is a lot of paperwork and is some cases costs extra money. Why all this trouble?
 

Unfortunately, each address is responsible for all of this. We will continue to get the same safety benefit from the 911 system as you do with standard addressing systems that have been established a safety risk. It is not a problem if you do not have a street address. Remember the overall goal of this program is to make sure emergency personnel get to you as quickly as possible.
4. How long will the Post Office deliver to my old address?
 

The Post Office will deliver mail to your old address for one year. This should be adequate time to change if your paperwork should you have any trouble. We will work with the Post Office on re-addressing but you will need to be the Post Office's change of address form.
5. My address has been changed and over I am having problems with a utility company. What should I do?
 

Tell them the address change was because of Enhanced 911 compliance and have them call Portland's 911 Addressing Officer at 573-6666.
6. I have a cell phone. How does this fit into the 911 Program?
 

If you can contact police via text messaging through 911, you may be able to contact your position with reasonable accuracy. However, 911 is not a substitute for a physical address. We will work with the Post Office on re-addressing but you will need to be the Post Office's change of address form.
7. How does Video-Door-Viewer-Protocol (VDVP) work with existing emergency services calls?
 

The FCC has ruled that VDP providers must provide emergency call centers with information about the call including the caller's address. VDP providers must be able to provide that information to emergency services. This is a requirement for all VDP providers. We will work with the Post Office on re-addressing but you will need to be the Post Office's change of address form.
8. If I am having trouble with my existing address, how can I get help?
 

Free of all please bear in mind that we have made our best effort to determine what people need using for emergency services. We will continue to work with the City Manager and the City Council to determine what we can do to help. We will continue to work with the City Manager and the City Council to determine what we can do to help. We will continue to work with the City Manager and the City Council to determine what we can do to help.

**MAP NOTES:**

1. Parcel information is shown on this map for convenience only. Please do not contact the Addressing Officer over perceived issues with the parcel mapping. This parcel mapping is also for schematic use only and is not a substitute for a boundary survey.
2. A webpage has been set up to address questions and concerns over Island Enhanced 911 addressing. Please review this or the version attached to this map before attempting to contact the Addressing Officer as many questions might be answered immediately. The webpage is here: <http://www.portlandpublicworks.com/islands911info.asp>
3. Date the addressing on this map becomes active: March 1st, 2007



**WHY ARE WE DOING ENHANCED-911 ADDRESSING?**

1. Under State law it is required that a master database be maintained that connects physical street addresses to telephone numbers, so emergency call-takers can immediately know a caller's address, even if the person calling is unable to speak or hangs up too soon.
2. For this to work properly all addresses need to be physical addresses. For example, 14 Elm Street or 440 Eastern Promenade. Addresses such as Rural Route addresses or Post Office boxes are not physical addresses because they do not exist where someone is physically on the earth.
3. Addressing records to be as spatially exact as possible, so navigation computer mapping services can be utilized to maximum effect. Call centers and even emergency vehicles are moving toward using computer mapping that puts the caller's location on a map relative to the responder.



# Enhanced 911 Addressing Plan, Cushing Island, Maine

Map prepared by the City of Portland Dept. of Public Works, January 2007

## Water Use Records and Percentile Calculations

Margaret Sullivan

24 Calumet Road, Cushing Island, ME

Date	cubic feet	gallons	# days	avg. gpd
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36
	33.6	251.36	1	251.36

Daily	Weekly	Monthly	Quarterly
80th percentile	85th percentile	90th percentile	95th percentile
251	251	251	251

	cubic feet	gallons
<b>total</b>	403.20	3016.34
<b>average</b>	33.60	251.36
<b>average gpd</b>	8.38	

To use: Enter the date, number of days, and cubic feet. The gallons and percentiles will be calculated automatically by the spreadsheet. To add more readings, simply insert additional rows into the spreadsheet. Choose the percentile which corresponds to the reading frequency: daily, weekly, monthly, or quarterly.

$$\begin{aligned}
 &2004 \text{ May} \rightarrow \text{Dec.} = 4800 \text{ cubic feet (244 days)} \\
 &2007 \text{ May} \rightarrow \text{Oct.} = 9600 \text{ cubic feet (184 days)} \\
 &\quad \quad \quad \underline{14400 \text{ cubic feet} / 428 \text{ days} = 33.6 \text{ cubic ft.}}
 \end{aligned}$$



**Portland Water District**  
 225 Douglass Street, P.O. Box 3553  
 Portland, ME 04104  
 (207)774-5961 Fax (207)761-8307

**Utility Account Detail**

**Report Date** 05/13/2008 02:26 PM **Submitted By** Page 1

**Account #** 148045-06  
**Customer** SULLIVAN MARGARET  
**Address** 24 CALUMET RD  
 CUSHING ISLAND ME 04109-

<b>Initiated</b> 03/30/2007 11:14	<b>Group/Cycle</b> CYCLE 5 SEASONALS
<b>Initiated By</b> 2166	<b>Subgroup</b> W WATER ONLY
<b>Status</b> CLOSED	<b>Account Class</b> RESW RESIDENTIAL-WATER ONLY
<b>Status Date</b> 11/19/2007 14:49	<b>Account Area</b> 26 ISLANDS
<b>Status By</b> 1004	<b>External Account #</b> 42114
<b>Billing Status</b> INACT	<b>Penalty Exempt</b>
<b>Bing Status Date</b> 10/31/2007 11:56	<b>Aggregate Account #</b>

Pre-select for Bill Staging  Pre-select for Bill Print  Do Not Send Bills

<b>Water Meter Size cv1</b> 0.00	<b>Fire Line Mtr Sz cv5</b> 0.00
<b>Seasonal Mtr Sz cv2</b> 0.62	<b>Low Inc\$ 1,els 0 cv6</b> 0.00
<b>Fire Service Sz cv3</b> 0.00	<b>Swr XOr Pen Area cv7</b> 0.00
<b>Sgle&amp;Rv 0,Dual 1 cv4</b> 0.00	<b>Sewer Surcharge cv8</b> 999.00

Services										
Service	Asset	Service From	Service To	Status	Status Date	Class	Service Area	Service Value 1	Service Value 2	Service Value 3
External Account #	Water Average	Hour #/Sequence #	Out for Reading	Subtractive	Days Between Readings					
SEASWTR		05/06/2007 00:00	10/31/2007 11:56	CLOSED	10/31/2007 11:56	WSEAMR		2.00	0.00	0.00
42114	0.00	WMTR	R22984280	-0	N	N	N	N		

Reading Date	Read By	Source	Reason	Reading	Usage	Billable	Rtd Code	Est	Init	Final	Ready	Corr	Bill #	Billed
10/31/2007 11:56	851	M		629.00	96.00	96.00	N	N	Y				6700750	Y
AUTOMATED SEASONAL FINAL														
05/06/2007 09:49	2114	M		533.00	0.00	0.00	N	Y	N	N	N		6700750	Y

**Comments**  
 There are no comments for this account

**Portland Water District**

225 Douglass Street, P.O. Box 3553  
 Portland, ME 04104  
 (207)774-5961 Fax (207)761-8307

**Utility Account Detail**

Report Date 05/13/2008 02:27 PM Submitted By Page 1

Account # 148045-03  
 Customer SULLIVAN MARGARET  
 Address 24 CALUMET RD  
 CUSHING ISLAND ME 04109-

Initiated	05/07/2004 00:00	Group/Cycle	CYCLE 5	SEASONALS
Initiated By		Subgroup	W	WATER ONLY
Status	CLOSED	Account Class	RESW	RESIDENTIAL-WATER ONLY
Status Date	01/06/2005 14:13	Account Area	26	ISLANDS
Status By	2165	External Account #	42114	
Billing Status	INACT	Penalty Exempt		
Bling Status Date	12/20/2004 14:52	Aggregate Account #		

Pre-select for Bill Staging  Pre-select for Bill Print  Do Not Send Bills

Water Meter Size cv1	0.00	Fire Line Mtr Sz cv5	0.00
Seasonal Mtr Sz cv2	0.62	Low Inc\$ 1,els 0 cv6	0.00
Fire Service Sz cv3	0.00	Swr XOr Pen Area cv7	0.00
Sgle&Rv 0,Dual 1 cv4	0.00	Sewer Surcharge cv8	0.00

Service	Service From	Service To	Status	Status Date	Class	Service Area	Service Value 1	Service Value 2	Service Value 3
Asset	Unit ID	Route # / Sequence #	Out for Reading	Subtractive	Days Between Readings				
External Account #	Winter Average								
SEASWTR	05/07/2004 00:00	12/14/2004 00:00	CLOSED	12/20/2004 14:52	WSEAMR		2.00	0.00	0.00
42114	WMTR	R23616672	-0	N	N	N			

Reading Date	Read By	Source	Reason	Reading	Usage	Billable	Rtd Code	Est	Init	Final	Ready	Corr	Bill #	Billed
12/14/2004 00:00	2092	M		436.00	48.00	48.00	N	N	Y	N	N	N	3262138	Y
05/07/2004 00:00		I		388.00	0.00	0.00	N	Y	N	N	N	N	2025398	Y

**Comments**

There are no comments for this account