

**Roxbury Sanitary District**

**Resolution R19-01**

**WHEREAS**, Roxbury Sanitary District is resolving Inflow and Infiltration problems which have created significant increased operation costs,

**WHEREAS**, Roxbury Sanitary District will be borrowing money to repair the mains and offering home owner loans to cover individual lateral repair costs,

**WHEREAS**, terms of the RSD loan require review of the sewer user charges in the district,

**WHEREAS**, District Ordinance 2.07 (2) directs the District to use REU methodology in assessing costs,

**WHEREAS**, REUs have not been evaluated since 1999, and

**WHEREAS**, the previous REUs were assigned based on a 1989 USDA table, and the current Wisconsin Safety and Professional Services (SPS) Administrative Plumbing Code provides updated usage metrics when determining impacts of various types of users on a treatment system (current SPS table appended to this resolution),

**NOW THEREFORE**, the Commission resolves:

1. That each user served in the district shall be considered one REU, except as otherwise designated below:

Day Care Center: 1.5 REU

Dorf Haus: 14 REU 2020 / 19 REU 2021 / 26 REU 2022 / 35 REU 2023

Fascut: 1 REU

Roxbury Bar and Grill: 5 REU 2020 / 6 REU 2021

Roxbury Town Hall: 1 REU

Roxbury Town Shop: 1 REU

St Norbert Church: 9.5 REU

St. Norbert Education Center 1 REU

St. Norbert Rectory: 3 REU

2. The REU changes in this resolution shall take effect January 1, 2020.

3. The Commission further resolves to review REUs annually during the budget hearing when annual rates are determined as needed, and approve REUs by motion of the Commission.

This resolution R19-01 was duly considered and adopted by Roxbury Sanitary District pursuant to a vote of 3 for and 0 against on the 9<sup>th</sup> day of December, 2019

Roxbury Sanitary District

  
Michael Bradley, Commission President

Attest:

  
Gail Lamberty, Commission Secretary

A-383.43 (6) COMMERCIAL FACILITIES. Table A-383.43-1 may be used to estimate wastewater flows from a commercial building.

**Table A-383.43-1  
Public Facility Wastewater Flows**

Source	Unit	Estimated Wastewater Flow (gpd)
Apartment or condominium = REU = residential	Bedroom	100
Assembly hall (no kitchen)	Person (10 sq. ft./person)	1.3
Bar or cocktail lounge (no meals served) <sup>a</sup>	Patron (10 sq. ft./patron)	4
Bar or cocktail lounge <sup>a</sup> (w/meals – all paper service)	Patron (10 sq. ft./patron)	8
Beauty salon	Station	90
Bowling alley	Bowling lane	80
Bowling alley <sup>a</sup> (with bar)	Bowling lane	150
Camp, day and night	Person	25
Camp, day use only (no meals served)	Person	10
Campground or camping resort	Space, with sewer connection and/or service building	30
Campground sanitary dump station <sup>a</sup>	Camping unit or RV served	25
Catch basin	Basin	65
Church (no kitchen)	Person	2
Church <sup>b</sup> (with kitchen)	Person	5
Dance hall	Person (10 sq. ft./person)	2
Day care facility (no meals prepared)	Child	12
Day care facility <sup>b</sup> (with meal preparation)	Child	16
Dining hall <sup>a</sup> (kitchen waste only without dishwasher and/or food waste grinder)	Meal served	2
Dining hall <sup>a</sup> (toilet and kitchen waste without dishwasher and/or food waste grinder)	Meal served	5
Dining hall <sup>a</sup> (toilet and kitchen waste with dishwasher and/or food waste grinder)	Meal served	7
Drive-in restaurant <sup>a</sup> (all paper service with inside seating)	Patron seating space	10
Drive-in restaurant <sup>a</sup> (all paper service without inside seating)	Vehicle space	10
Drive-in theater	Vehicle space	3
Employees (total all shifts)	Employee	13
Floor drain (not discharging to catch basin)	Drain	25
Gas station / convenience store	Patron	3
Hospital <sup>a</sup>	Bed space	135
Hotel, motel, or tourist rooming house	Room	65
Manufactured home (served by its own POWTS)	Bedroom	100
Manufactured home community	Manufactured home site	200
Medical office building		
Doctors, nurses, medical staff	Person	50
Office personnel	Person	13
Patients	Person	6.5
Migrant labor camp (central bathhouse)	Employee	20

**Table A-383.43-1 (Continued)**  
**Public Facility Wastewater Flows**

Source	Unit	Estimated Wastewater Flow (gpd)
Nursing, rest home, community-based residential facility <sup>b</sup>	Bed space	65
Outdoor sport facilities (toilet waste only)	Patron	3.5
Parks (toilets waste only)	Patron (75 patrons/acre)	3.5
Parks (toilets and showers)	Patron (75 patrons/acre)	6.5
Public shower facility	Shower taken	10
Restaurant <sup>a</sup> , 24-hr. (dishwasher and/or food waste grinder only)	Patron seating space	4
Restaurant <sup>a</sup> , 24-hr. (kitchen waste only without dishwasher and/or food waste grinder)	Patron seating space	12
Restaurant, 24-hr. (toilet waste)	Patron seating space	28
Restaurant <sup>a</sup> , 24-hr. (toilet and kitchen waste without dishwasher and/or food waste grinder)	Patron seating space	40
Restaurant <sup>a</sup> , 24-hr. (toilet and kitchen waste with dishwasher and/or food waste grinder)	Patron seating space	44
Restaurant <sup>a</sup> (dishwasher and/or food waste grinder only)	Patron seating space	2
Restaurant <sup>a</sup> (kitchen waste only without dishwasher and/or food waste grinder)	Patron seating space	6
Restaurant (toilet waste)	Patron seating space	14
Restaurant <sup>a</sup> (toilet and kitchen waste without dishwasher and/or food waste grinder)	Patron seating space	20
Restaurant <sup>a</sup> (toilet and kitchen waste with dishwasher and/or food waste grinder)	Patron seating space	22
Retail store (no food preparation)	Patron (70% of total retail area ÷ 30 sq. ft. per patron)	1
School <sup>a</sup> (with meals and showers)	Classroom (25 students/classroom)	500
School <sup>a</sup> (with meals or showers)	Classroom (25 students/classroom)	400
School (without meals or showers)	Classroom (25 students/classroom)	300
Self-service laundry (toilet waste only)	Clothes washer	33
Self-service laundry (with only residential clothes washers)	Clothes washer	400
Swimming pool bathhouse	Patron	6.5

<sup>a</sup> Expected to be high in biological oxygen demand (BOD), total suspended solids (TSS), or fats, oils, and grease (FOG).

<sup>b</sup> At-risk system (potentially high in biochemical oxygen demand (BOD), total suspended solids (TSS), or fats, oils, and grease (FOG)).

**A-383.43 (6) (a)** Actual meter readings may be used to calculate the combined estimated design wastewater flow from a dwelling. To calculate the estimated design wastewater flow use the following formula and compare the answer to the peak metered flow. Choose the larger of the two estimated design flows.

(total meter flow/number of readings)(1.5) = estimated design wastewater flow

The frequency of meter readings should be daily for commercial.

**A-383.43 (6) (b)** A detailed per capita and per function flow may be established for commercial facilities. The per function flow ratings shall be substantiated by manufactures data of the per function flow and detailed use data from the facility in question or a similar facility under similar conditions of use. Estimated design wastewater flow shall be at least 1.5 times the total estimated daily flow calculated from the per capita and per function flow information.