

# Commercial Sewer Rates



# How is a commercial sewer bill calculated?

Two components:

## 1. Usage Charges

- This accounts for the volume of wastewater discharged.
- *Usage Charges = Winter Quarterly Average x Volumetric Rate*

## 2. Fixed Charges

- This accounts for the necessary treatment required for the “strength” of the wastewater. This depends on the type of commercial use.
- *Fixed Charges = EDU's x Fixed Rate*



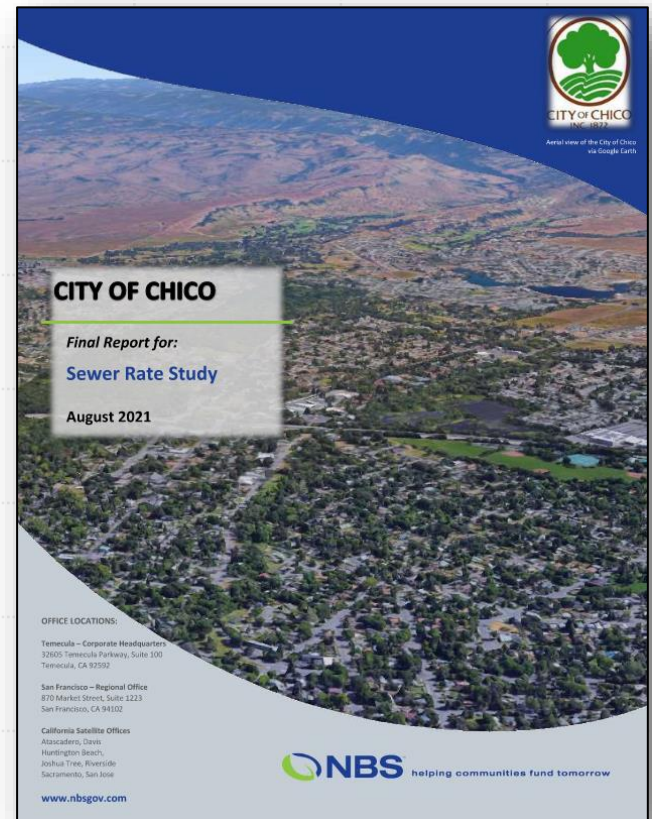
# What is an EDU?

- Equivalent Dwelling Unit
- “An EDU is the average single-family residential flow and pounds of Biological Oxygen Demand and Total Suspended Solids in an average monthly water consumption during the winter months.”

# Why does the City utilize EDU's?

In 2021, the City completed a Sewer Rate Study. Primary components:

1. *Financial Plan*
  - Overall revenue needed
2. *Cost of Service Analysis*
  - Proportionally allocates revenue
    - Flow-based
    - EDU's
3. *Rate Design Analysis*
  - Rate structure



# What are **average** EDU's for different types of businesses?

## *City Occupied Properties*

### CMC 15.36.065 Article 2 "Exemptions"

"Notwithstanding any provisions of this article to the contrary, a monthly sewer service fee shall not be assessed and levied for premises occupied by the city."

Customer Class	Average EDUs (Per Account)
Bars without Dining	6.43
Brewery	1105.25*
Car Wash	10.17
Dorms	30.59
Hospital/Convalescent	32.72
Hotels w/o Dining	12.05
Hotels with Dining	31.30
Industrial Laundry	341.7
Laundromat	107.4
Markets/Bakeries	23.62
Mortuary	2.60
Restaurants	10.50
School	12.59
All Other	2.25

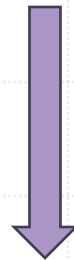
\*Sierra Nevada Brewing Co. is the third largest craft brewing company in the United States (Forbes.com)

# How is an EDU calculated?

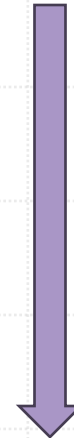
$$EDU = \left[ \left( \frac{WQA}{RWQA} \right) \times 60\% \right] + \left[ \left( \frac{CBOD}{RBOD} \right) \times 20\% \right] + \left[ \left( \frac{CTSS}{RTSS} \right) \times 20\% \right]$$



Winter Quarterly Average  
Residential Winter Quarterly Average



Commercial Biological Oxygen Demand  
Residential Biological Oxygen Demand



Commercial Total Suspended Solids  
Residential Total Suspended Solids