

A photograph of Chula Vista City Hall, a light-colored building with a red-tiled roof and a central bell tower. Two large palm trees are visible, one on the left and one on the right. The image is slightly faded to serve as a background for the text.

# Restaurant Study

(Calculation methodology for Food Service Establishment  
Sewer Capacity Charge)

Chula Vista - 2015

The background of the slide features a faded image of a light-colored building with a red-tiled roof and arched windows. Two tall palm trees are visible, one on the left and one on the right. The text is overlaid on this background.

**The Reason for the amendment is to revise the method of calculating the *Capacity Connection Requirements for Food Service Establishments* so that it more accurately reflects the actual system needs and water conservation within the City.**

## ***Municipal Code 13.14.090 Sewer capacity charge***

*The owner or person making application for a permit to develop or modify use of any residential, commercial, industrial or other property shall pay a sewer capacity charge. All revenue derived from such fees shall be deposited in the trunk sewer capital reserve fund. The amount of such charge shall be the required fee(s).*

### **MASTER FEE SCHEDULE FEE BULLETIN**

#### ***Chapter 12 – Sewer Fees***

#### **Construction & Development**

*The following rates of flow for various land uses shall be utilized in determining the total fee due for any given property:*

##### **Restaurant**

Small (<= 12 seats) ..... 1.1 EDU

Large (>12 seats) .....25 GPD/seat

One EDU of flow ..... \$3,450



# What is the Sewer Capacity Charge?

- One time Charge paid at building permit
- Grants rights to connect and flow to the City of Chula Vista Sanitary Sewer System
- Grants rights to treat and dispose of sewage at the City of San Diego Metropolitan Wastewater System

# Current Capacity Formula

(>12 Seats)

- S = # of seats
- EDU = Equivalent Dwelling unit
- D = Generation Rate per EDU (230 Gallons Per Day)
- Current Generation per Seat = 25 GPD
- Current Sewer Capacity Charge per EDU = \$3,450

$$\text{EDU} = (S \times 25) / D$$

$$\text{Sewer Capacity Charge} = \text{EDU} \times 3450$$

Example for a 127 seat Facility:

$$\text{EDU} = (127 \times 25) / 230 = 13.8 \text{ EDU}$$

$$\text{Sewer Capacity Charge} = 13.80 \times \$3,450 = \$47,610$$

# Current Capacity Formula

( $\leq 12$  Seats)

Flat fee of 1.1 EDU

Sewer Capacity Charge = EDU x 3450

Example for a 12 seat Facility:

Sewer Capacity Charge =  $1.1 \times \$3,450 = \$3,795$



# Restaurant Survey Process

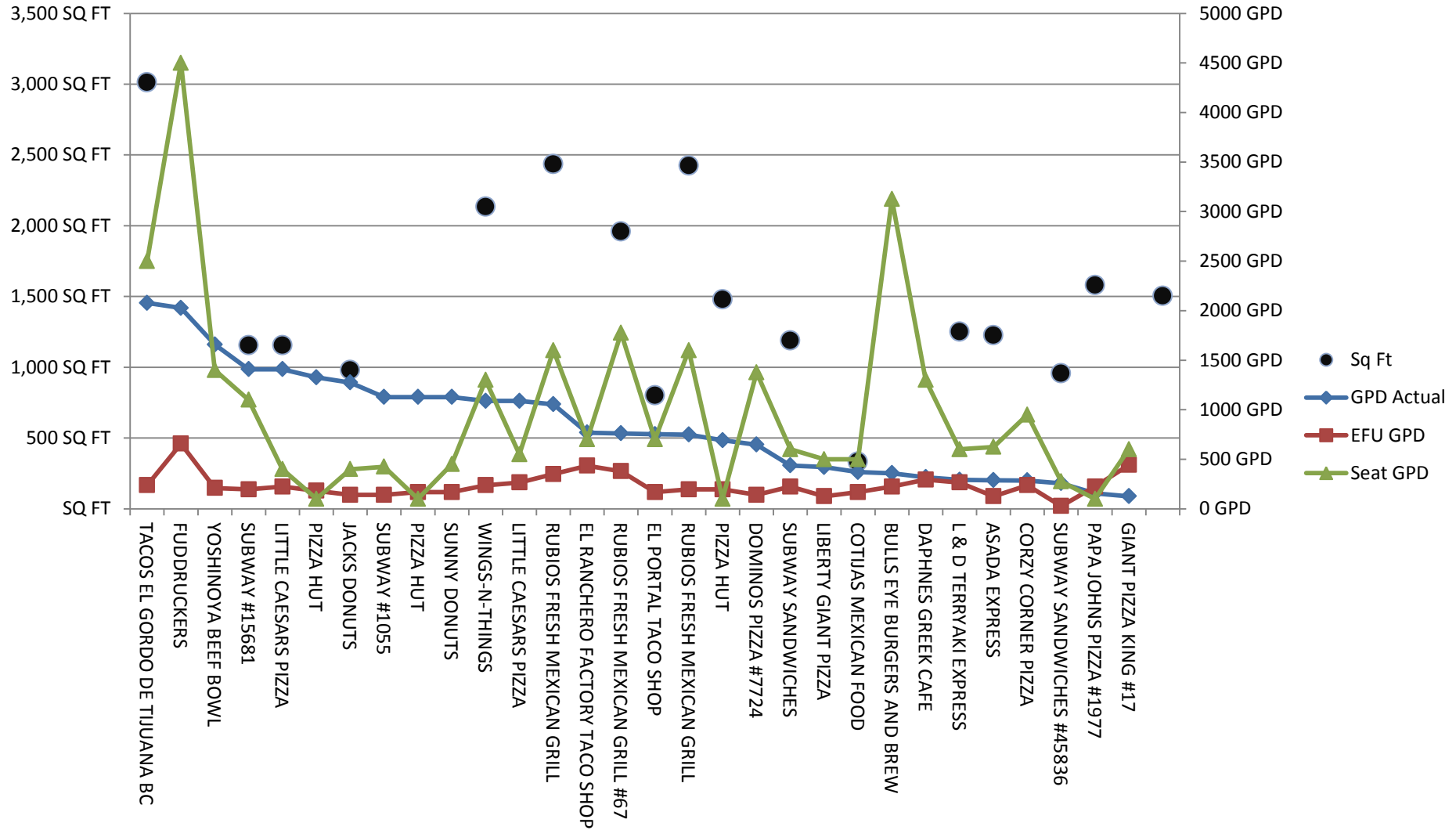
184 Locations surveyed out of 700 total (26%)

ADDRESS:				DATE:
NAME:				BY:
FIXTURES	PUBLIC USED	PRIVATE USED		
Bar Sink				
Bathtub				
Bidet				
Dental Unit or Cuspidor				
Drinking Fountain				
Floor Drain				
Clothes Washer				
Lavatory				
Shower (each head)				
Sink or dishwasher				
Mop Basin				
3 Comp Sink				
Urinal				
Water Closet				

- 12 Month Water Usage
- Seats counted
- Fixture units counted at each location
  - Converted to Estimated Fixture Units per California Plumbing Code

# Analysis of Data

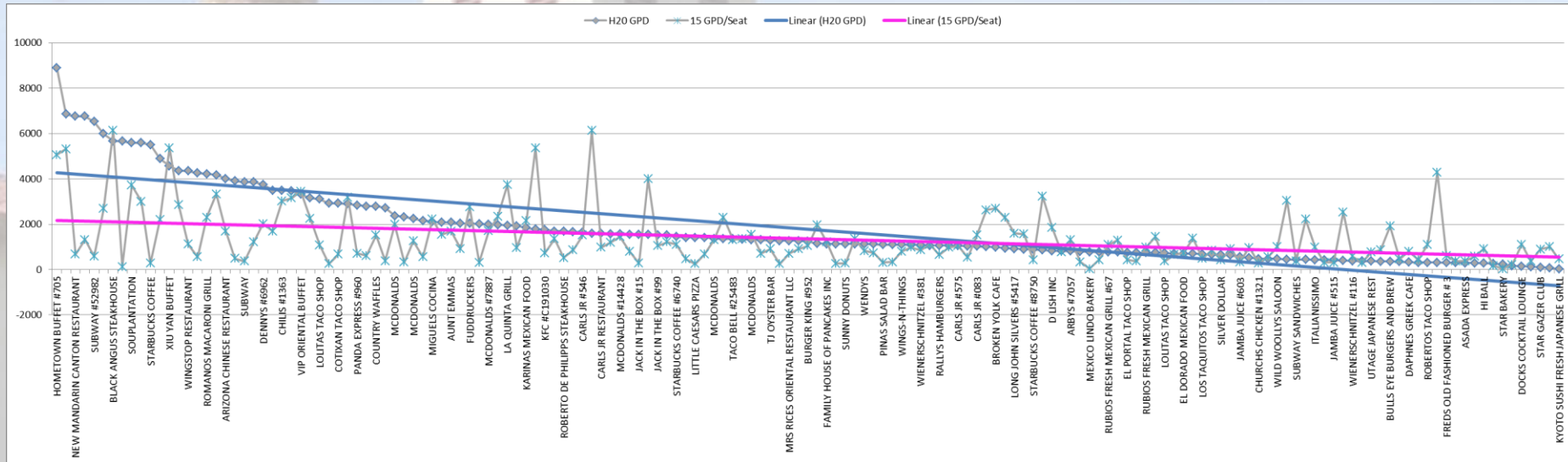
## NO DISCERNABLE PATTERN





# OVERALL AVERAGE

adjusted water used / all seats



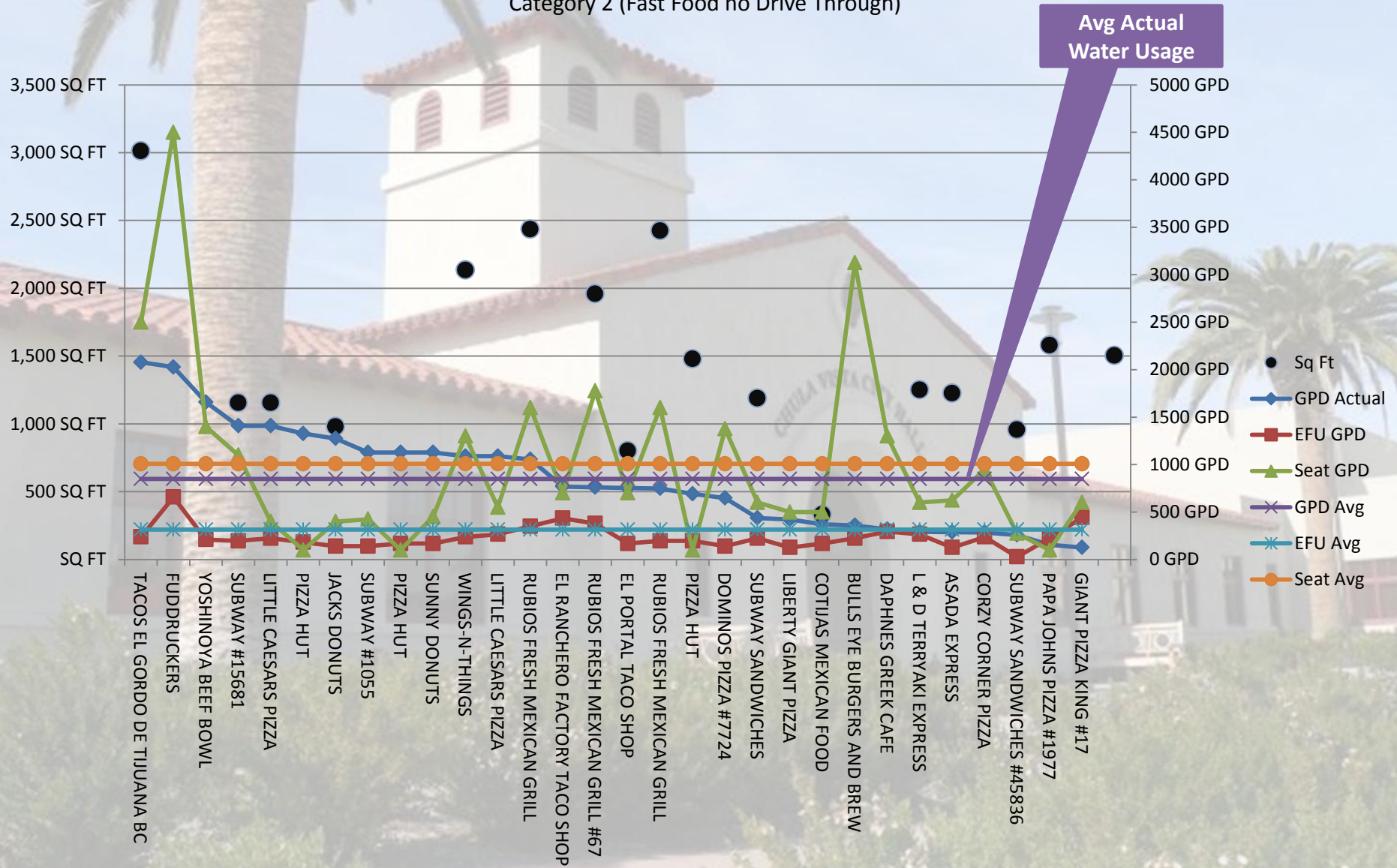
# Restaurant Categories

Based upon findings the Food Service Establishments were divided into the following categories for use within the Study

- 184 Locations surveyed out of 700 total (26%)
- Divided into 6 categories
  1. **Fast Food with Drive Through**
  2. **Fast Food without Drive Through**
  3. **Buffet**
  4. **Sit Down with Waiter**
  5. **Coffee Shop**
  6. **Bar/Nightclub**

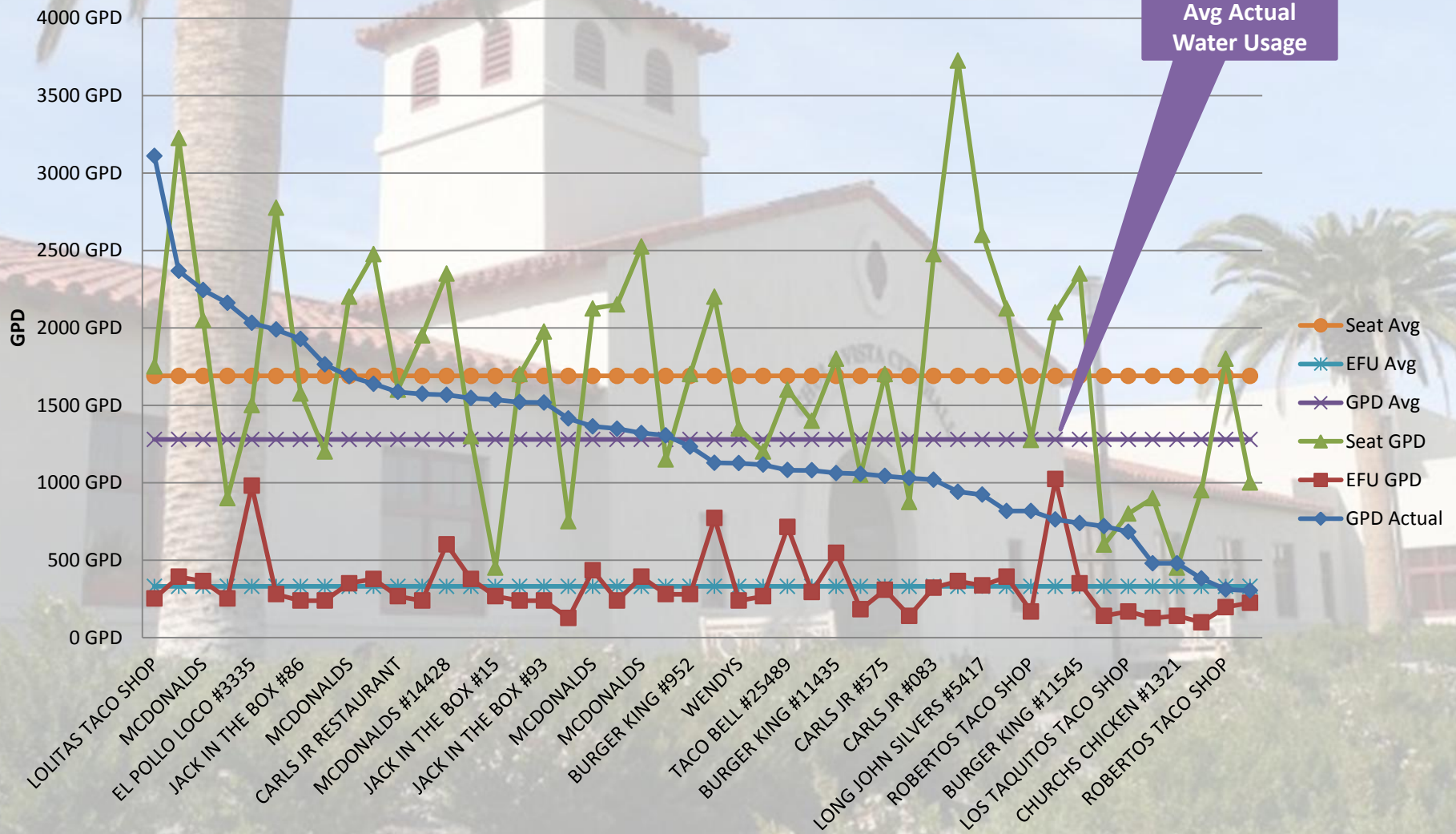
# Analysis of Data

Category 2 (Fast Food no Drive Through)

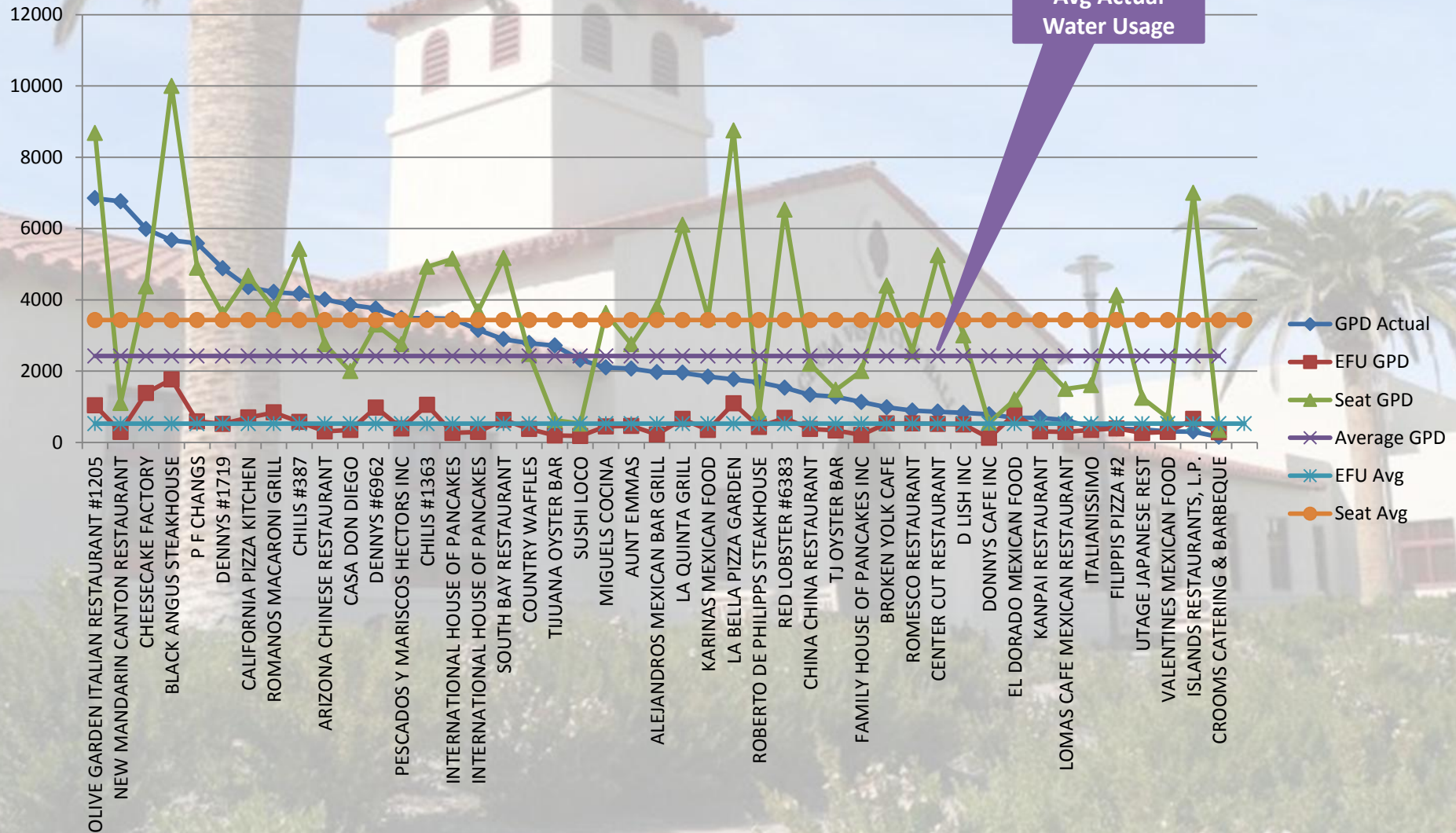




## Category 1 (Fast Food with Drive Through)

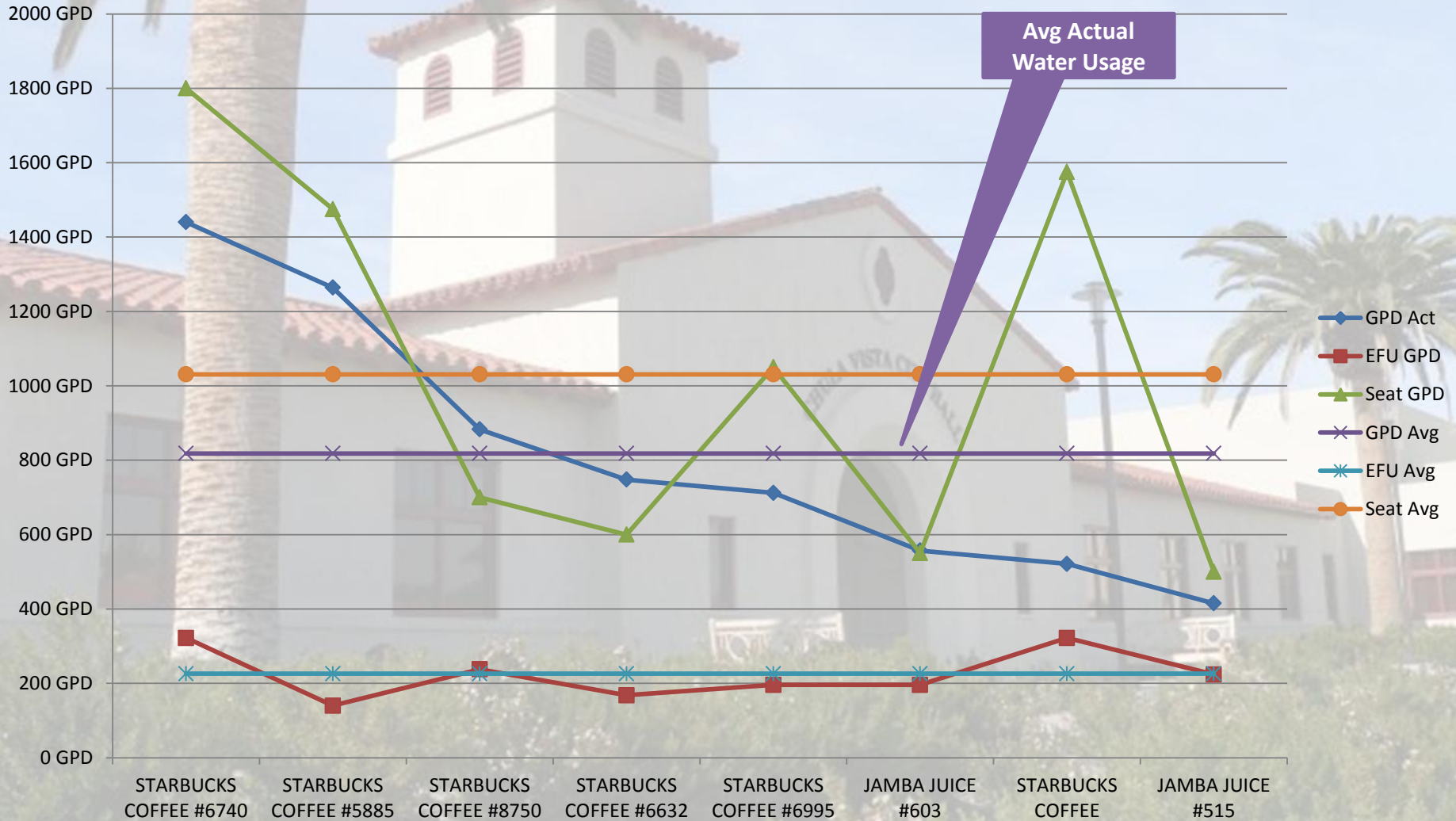


## Category 4 (Sit Down with Waiter)





## Category 6 (Coffee Shop and Juice Bar)





# Proposed Rate of Flow

## Category 1: Fast Food with Drive Thru



*These locations have a drive through, no waiter, plastic utensils, paper products, no linens and disposable glassware. The food is self-ordered and picked up. No distinctions were made between chains and single locations (examples: McDonalds, Burger King, Robertos)*

<b>Locations Surveyed:</b>	46
<b>Average Water Used:</b>	1,279 GPD
<b>Average # of Seats:</b>	68
<b>Proposed rate of flow:</b>	18.8 GPD

# Proposed Rate of Flow

## Category 2: Fast Food with No Drive Thru

*These locations **do not** have a drive through, no waiter, plastic utensils, paper products, no linens and disposable glassware. The food is self-ordered and picked up. No distinctions were made between chains and single locations (examples: Subway, Pizza Hut, Quiznos)*

<b>Locations Surveyed:</b>	41
<b>Average Water Used:</b>	849.17 GPD
<b>Average # of Seats:</b>	40
<b>Proposed rate of flow:</b>	21.2 GPD





# Proposed Rate of Flow

## Category 3: Buffets

*These locations feature an all you can eat menu, china table settings, non-plastic utensils, and non-disposable glassware. (Examples: Souplantation, Zorbas, Hometown Buffet)*



<b>Locations Surveyed:</b>	8
<b>Average Water Used:</b>	3,426.37 GPD
<b>Average # of Seats:</b>	236
<b>Proposed rate of flow:</b>	14.5 GPD



# Proposed Rate of Flow

## Category 4: Sit Down with Waiter

*These locations feature a waiter, non-plastic silverware, china table settings, real glassware and a full menu. No distinction made between chains and individual Locations (Examples: Chillis, Black Angus, Karinas)*

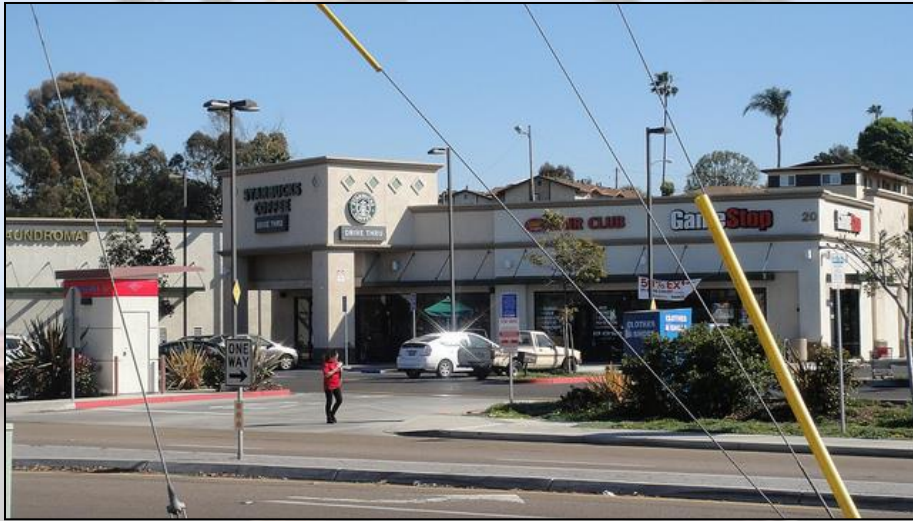
<b>Locations Surveyed:</b>	49
<b>Average Water Used:</b>	2,422.52 GPD
<b>Average # of Seats:</b>	137
<b>Proposed rate of flow:</b>	17.7 GPD



# Proposed Rate of Flow

## Category 5: Coffee Shops and Juice Bars

*These locations feature prepackaged food, and focus on beverage sales, no waiter, plastic utensils, paper products, no linens and disposable glassware. The food is self-ordered and picked up. No distinction made between chains and individual Locations (Examples: Starbucks, Jamba Juice, Shell gas station)*



<b>Locations Surveyed:</b>	9
<b>Average Water Used:</b>	817.50 GPD
<b>Average # of Seats:</b>	41
<b>Proposed rate of flow:</b>	19.9 GPD



# Proposed Rate of Flow

## Category 6: Bars and Nightclubs

*These locations serve mainly alcohol and prepackaged food only. They utilize real glassware. No distinction made between chains and individual locations (Examples Hi Ball, Silver Dollar, Docks)*



<b>Locations Surveyed:</b>	11
<b>Average Water Used:</b>	481.45 GPD
<b>Average # of Seats:</b>	72
<b>Proposed rate of flow:</b>	7 GPD



# Example of Sewer Capacity Charge with proposed rate of flow

## Category 2

### Per Seat Calculations

Example for a 127 seat Facility (Current rate of flow):

$$\text{EDU} = (127 \times 25) / 230 = 13.8 \text{ EDU}$$

$$\text{Sewer Capacity Charge} = 13.80 \times \$3,450 = \$47,610$$

Example for a 127 seat Facility (Proposed rate of flow):

$$\text{EDU} = (127 \times 21.2) / 230 = 11.70 \text{ EDU}$$

$$\text{Sewer Capacity Charge} = 11.70 \times \$3,450 = \$40,365$$

# MASTER FEE SCHEDULE FEE BULLETIN

## *Chapter 12 – Sewer Fees*

### **Construction & Development**

*The following rates of flow for various land uses shall be utilized in determining the total fee due for any given property:*

#### **Restaurant**

Small ( $\leq 12$  seats) ..... 1.1 EDU

Large ( $>12$  seats) .....25 GPD/seat

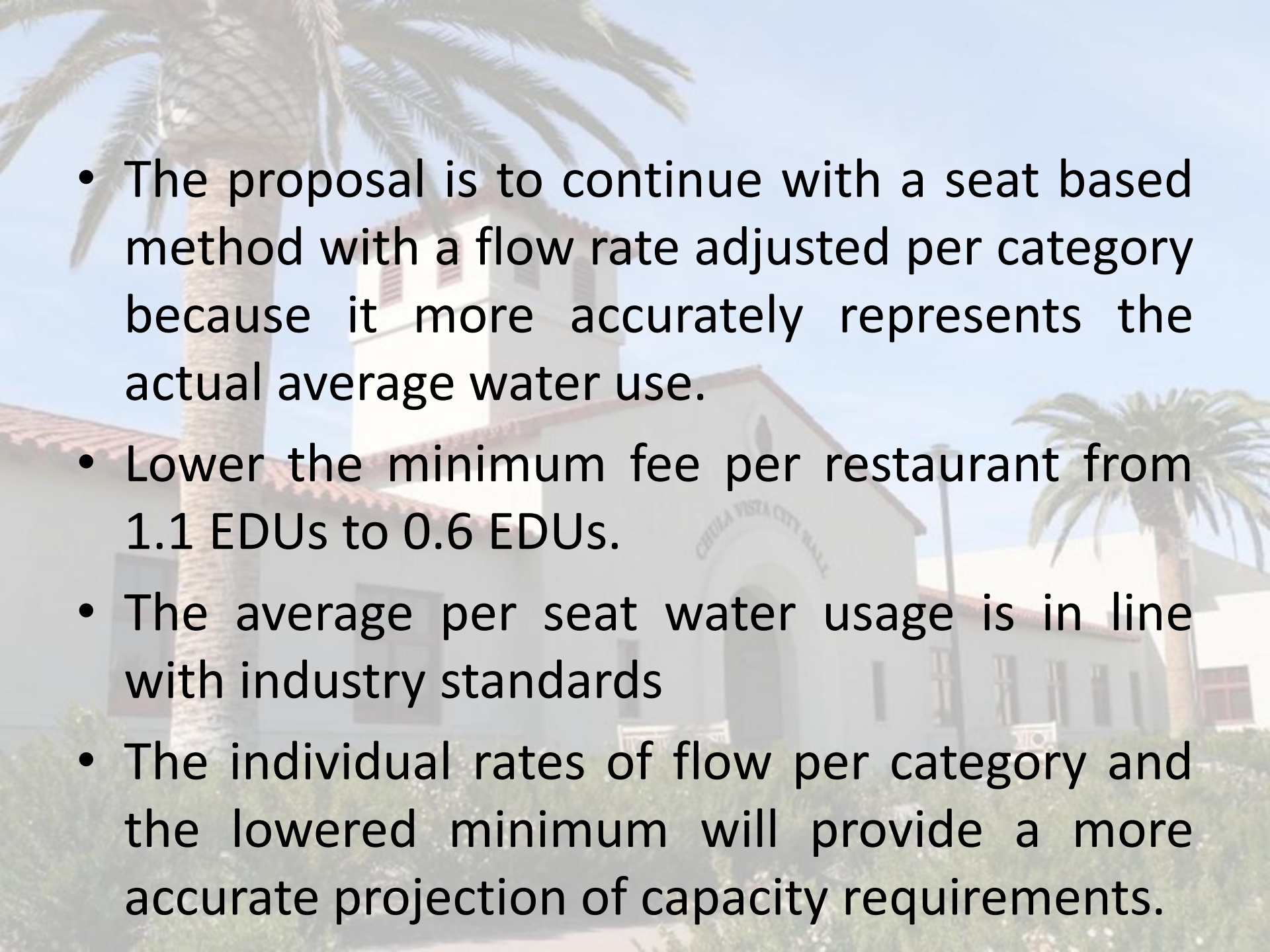
One EDU of flow ..... \$3,450


Based on the 2013 California Plumbing Code Sections 422.0 and 702.0, County of San Diego Department of Environmental Health, and the City of Chula Vista requirements, **all FSEs are required to have at least 1 drinking fountain, 2 lavatories, 1 mop basin, 1 sink (each set of faucets) and 1 water closet.**

<b>Fixtures</b>	<b>Fixture Unit Equivalent</b>	<b>Quantity Used</b>	<b>EFUs</b>
Drinking Fountain	0.5	1	0.5
Lavatory	1	2	2
Mop Basin	3	1	3
Sink (each set of faucets)	2	1	2
Water Closet	4	1	4
<b>Total</b>			<b>11.5 EFUs</b>

**11.5 EFU = 0.6 EDU**  
**This equates to \$2,070**  
**rather than \$3,795**



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- The background of the slide features a faded image of a building with a red-tiled roof and a central tower, likely a city hall or municipal building. Several palm trees are visible, with one large one on the left and another on the right. The sky is a clear, light blue.
- The proposal is to continue with a seat based method with a flow rate adjusted per category because it more accurately represents the actual average water use.
  - Lower the minimum fee per restaurant from 1.1 EDUs to 0.6 EDUs.
  - The average per seat water usage is in line with industry standards
  - The individual rates of flow per category and the lowered minimum will provide a more accurate projection of capacity requirements.

The background image shows a light-colored building with a red-tiled roof and a prominent square tower with arched windows. Two palm trees are visible, one on the left and one on the right. The scene is set against a clear blue sky with some light clouds. The text is overlaid on the left side of the image.

**Presented to:**

- Chamber of Commerce
- Development oversight Committee

A photograph of Chula Vista City Hall, a light-colored building with a red-tiled roof and a central tower. Two palm trees are visible, one on the left and one on the right. The text "CHULA VISTA CITY HALL" is visible above the entrance arch. The image is faded to serve as a background for the text.

Recommendation  
That Council adopt Resolution



A photograph of Chula Vista City Hall, a light-colored building with a red-tiled roof and a central tower. Two palm trees are visible, one on the left and one on the right. The text "CHULA VISTA CITY HALL" is visible above the main entrance arch. The image is slightly faded, and the text "QUESTIONS AND ANSWERS" is overlaid in the center.

# **QUESTIONS AND ANSWERS**