# **IMPACT FEES**

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#### REFRESHER - WHY ARE WE DOING THIS?

- Meter size is not an equitable capture of the impacts to the system.
  - Occupancy factor promotes demand-based fee rather than undersized meter-based fee.
- Why should we increase impact fees?
  - Increased asset costs (increasing pipe, pumps, facilities, etc.) for additional capacity
    - Future development drives additional required conveyance and treatment capacity.
- Overall, the purpose of impact fees is to appropriately assign growth-related infrastructure costs to new development and to reduce the cost burden on rate-payers to fund growth-related infrastructure.

#### **IMPACT FEE - DEFINITION**

- A contribution of capital toward existing or planned future plant facilities necessary to meet the service needs of new customers to which such fees apply.
- Two methods used to determine the amount of these charges are the buy-in method and the incremental-cost pricing method.
- Charges are intended to provide funds to be used to finance all or part of capital improvements necessary to serve new customers.

# **IMPACT FEES - TYPES**

- Equity (Buy-In) Method assesses new customers a fee to approximate the equity position of current customers. (AWWA M-I, 7<sup>th</sup> Edition, p I 99)
  - This approach was used on the water distribution and sewer collection system.
- Incremental Cost Method assigns new development the incremental cost of system expansion needed to serve the new development. (AWWA M-1, 7<sup>th</sup> Edition, p202)
  - This approach was used on the Water Treatment Plant expansion and the Water Reclamation Facility expansion (Claude Yates Dr), and the potential South CWF.
- Used actual Franklin customer accounts to determine number of SFUEs, current expansion costs, and assumed future expansion costs.

# UNIT OF MEASURE (SFUE)

- Distribution and conveyance systems are sized based upon available capacity, not daily demand.
  - Diurnal demands peak in morning and evening based upon typical residential usage.
  - Water consumption (i.e. utility bills) are based off total consumption throughout the month, does not account for the peaking times when demand (water & sewer) is the highest.
- WMD currently uses SFUE methodology to determine existing capacity & necessary offsite improvements for development.

### **QUESTIONS**

- Clarify the nature of the identified use classifications and their associated demand impact that is utilized in assessing the relative impact of future development.
- Development of the SFUE Calculation Handbook will outline these "assumptions" and provides example calculations for correct fee determination.
- Methodology has been developed from International Building Code, TDEC Design Basis for Wastewater Flow & Loading, and Nashville/Davidson County Metropolitan Water Services Commercial Permit Handbook.
- Fees assessed at Building Permit issuance to capture most descriptive occupancy loading of structure.

# **WATER**

# WATER – HYBRID RESULTS

# HYBRID CONSOLIDATION Equity (Buy-In) Method - Distribution \$ 1,842 Incremental Cost - Treatment \$ 1,782

Hybrid Approach - Cost per SFUE

# WATER HYBRID CALCULATION (EQUITY BUY-IN + INCREMENTAL COST)

- Equity Buy-In Method = \$1,842
- Incremental Method = \$1,782
- PROPOSED TOTAL = \$3,624 per SFUE RECOMMEND FULL IMPLEMENTATION
- Current Impact Fee = \$2,089
- Change = + \$1,535

# **SEWER**

# SEWER – INCREMENTAL COST (CLAUDE YATES FACILITY)

- Additional capacity = 4 MGD
- Cost = \$33 M plus interest costs @ 1.47% for 30 yrs

# **INCREMENTAL COST METHOD**

| Capacity - North Plant                |    |             |
|---------------------------------------|----|-------------|
| Projected Treatment Investment        | \$ | 40,829,262  |
| Projected Additional Capacity (4 MGD) | 1, | 460,000,000 |
| Annual Usage/Customer (Gals)          |    | 127,750     |
| Percentage of Capacity                |    | 0.008750%   |
| Average Cost/SFUE                     | \$ | 3,573       |

# SEWER – INCREMENTAL COST (SE CLEAN WATER FACILITY)

- Cost include (8 MGD facility) Total Investment:
  - Current Southeast Wastewater Capacity Evaluation PSA (engineering – Hazen, \$4.3M)
  - Pilot plant construction cost (construction Haren, \$1.65M)
  - Preliminary Engineering Report/Permit Development (engineering – Hazen, \$3M)
  - Anticipated Design Cost (engineering TBD, \$7M)
  - Anticipated construction inspection cost (inspection TBD, \$12M)
  - Anticipated construction cost (construction TBD, \$150M)
  - Anticipated interest cost for SE Clean Water Facility (bond 3.5% for 30 years)

| INCREMENTAL COST METHOD               |               |  |
|---------------------------------------|---------------|--|
|                                       |               |  |
| South Plant Capacity - 8 MGD          |               |  |
| Projected Treatment Investment        | \$286,795,281 |  |
| Projected Additional Capacity (8 MGD) | 2,920,000,000 |  |
| Annual Usage/Customer (Gals)          | 127,750       |  |
| Percentae of Capacity                 | 0.004375%     |  |
| Average Cost / SFUE                   | \$10,755      |  |
|                                       |               |  |

# SEWER – HYBRID RESULTS (TOTAL INVESTMENT)

- Equity (Buy-In) Method Collection = \$2,391
- Incremental Method Claude Yates Facility = \$3,573
- Incremental Method Southeast Clean Water Facility = \$10,755
- IMPACT FEE (TOTAL INVESTMENT) = \$16,719 per SFUE
- Current Impact Fee = \$3,544
- Change = + \$13,172
- \*Impact fees related to current treatment project and future treatment project total \$16,247 (~86% of total fee)

### SEWER IMPACT FEE

- Recommend 4-year phased approach for full implementation
  - March 2023 = Current Impact Fee + 25% of Proposed Impact Fee = \$6,837
  - January 2024 = Current Impact Fee + 50% of Proposed Impact Fee = \$10,130
  - January 2025 = Current Impact Fee + 75% of Proposed Impact Fee = \$13,423
  - January 2026 = Current Impact Fee + 100% of Proposed Impact Fee = \$16,719

#### **DISCUSSIONS**

- Water Management presented to the Design Developers group in April 2022 – outlining this concept and methodology shift.
- Presenting to Development Services Advisory Commission tomorrow information presented this evening.
- Water Management discussing with Building & Neighborhood Services
   Dept to develop new business practices for implementation.

#### **RECOMMENDATIONS**

 WMD recommends increasing water impact fees to include projects already completed totaling \$3,624.

 WMD recommends 4-year phased approach for increasing impact fees 25% each year, totaling the full amount in 2026.

# **NEXT STEPS**

- November 22, 2022 Work Session to present Ordinance change to Title
   18 & Appendix A and the SFUE Calculation Handbook
- December 13, 2022 first BOMA vote for Ordinance change
- January 10, 2023 second BOMA vote on Ordinance change
- January 24, 2023 third BOMA vote on Ordinance change
- March 1, 2023 implementation
- Questions?