# Objectives for Today

- Information Sharing with Community:
  - Capital Improvement Scenarios
  - Projected Relative Impact on Water Bills
- Get <u>Feedback from Community</u> on Capital Improvement Scenarios
   => to inform the scope of the Preliminary Engineering Report for USDA loan application
  - => to further refine financial planning, including rates, member contribution level, and loan amount

## Contributors to this Presentation

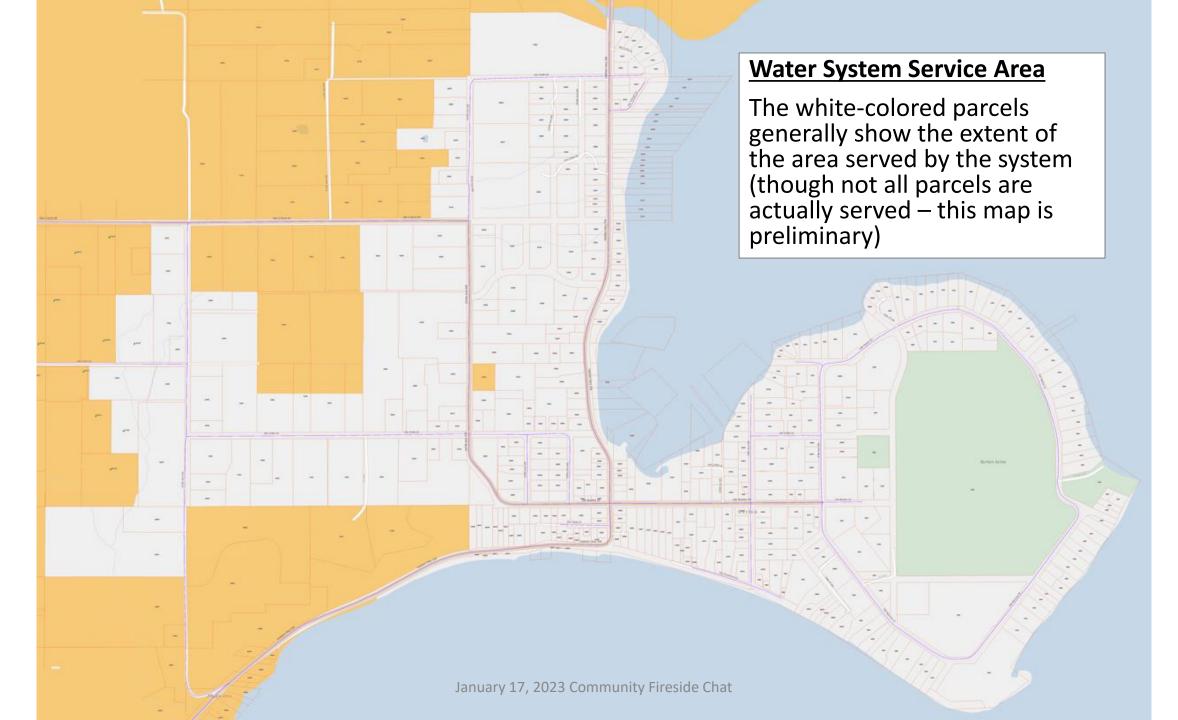
- Finance Committee
  - Steve Hill, Virginia Lohr, Ward Carson, Dan Schwartz, Doug Ostrom, Erik Assink, Kevin Strel, Vince Young, Chuck Weinstock, William Shadbolt
- Operations Committee
  - Ken Kirschling, John Burke, Dan Brown, Norm Seethoff, Ben Lee
- Membership Committee
  - Kim von Henkle, Merrilee Runyan, Nancy Murphy, James Culbertson, Lisa Fitzhugh
- Nick Simmons (system operator)
- Northwest Water Systems (contracted engineers)

|  | Α                    | В                       | С                    |
|--|----------------------|-------------------------|----------------------|
|  | "Modest Fire Flow"   | "Significant Fire Flow" | "Full Fire Flow"     |
|  | Moderate Financing   | Moderate Financing      | Maximum Financing    |
| Member Cost  |                      |                         |                      |
| Upfront Contribution                                     | \$1500               | \$1500                  | \$1500               |
| Usage Rate   | Revised 4 tier       | Revised 4 tier          | Revised 4 tier       |
| Base Rate (3/4" and 1" meters)                           | \$78/\$137           | \$78/\$137              | \$78/\$137           |
| Capital Improvement Cost Year 1 and 11                   | \$10                 | \$10                    | \$30                 |
| Capital Improvement Cost Year 11 to 20                   | \$10                 | \$5                     |                      |
| Reallocation of County ROW Fee (\$10/billing cycle)      | MAYBE                | YES                     | YES                  |
| Likely Fire Insurance Savings                            | NO                   | LIKELY                  | YES                  |
|  |                      |                         |                      |
| Operating Risk   |                      |                         |                      |
| Maintenance Cost Increases                               | MEDIUM               | MEDIUM                  | LOWER                |
| Service Disruption                                       | MEDIUM               | MEDIUM                  | LOWER                |
| Uncompleted/Deferred Identified Capital                  | HIGHER               | MEDIUM                  | LOWER                |
| Improvements from Needs Assessment                       |                      |                         |                      |
| KC Fire Flow Current Standard Compliance                 | SOME                 | MOSTLY                  | YES                  |
| Financial Risk   |                      |                         |                      |
| Rate Increases Above Inflation                           | HIGHER               | MEDIUM                  | LOWER                |
| Future Member Capital Contributions                      | MEDIUM               | LOWER                   | LOWER                |
| Exposure to Capital Improvement Inflation Cost Increases | MEDIUM               | MEDIUM                  | LOWER                |
| Amount of USDA Loan                                      | MEDIUM               | MEDIUM                  | HIGHER               |
|  | \$2,378,097          | \$3,110,000             | \$4,044,000          |
| Total Project Cost                                       | MEDIUM               | MEDIUM                  | HIGHER               |
| Operating Reserve  | \$100,000            | \$100,000               | \$100,000            |
| Debt Service Reserve                                     | One Year (\$111,000) | One Year (\$147,000)    | One Year (\$192,000) |
| Cash Balance at Year 20                                  | \$583,000            | \$532,000               | \$214,000            |
| Transaction Complexity                                   |                      |                         |                      |
| Member plus USDA   | MEDIUM               | MEDIUM                  | MEDIUM               |
| Construction Loan Required                               | YES                  | YES                     | YES                  |
| Capital Improvement Management                           |                      |                         |                      |
| Number of Projects in first 5 years                      | MEDIUM               | MEDIUM                  | HIGHER               |
| Completion of Fire Flow Upgrades                         | MEDIUM               | LOWER                   | LOWER                |

Based on a requirement from USDA all scenarios will require an interim loan from a bank until all projected USDA financed construction is complete. The cost of obtaining the loan and additional interest expense is not yet reflected in any of the scenarios. This expense would be higher in B and C due to the longer construction period.

# Criteria for Feasible/Desirable Financing Plan

- Assumptions for projecting revenues and expenses are solid and well-supported
- The 'capital stack' (member contributions, debt, grants, other) can be obtained and is stable over time
- The plan has a predictable and reasonable impact on water rates
- The cost for someone to join the co-op and obtain water service is not an unreasonable financial burden and can be paid over several years
- There is cash available to cover reasonably projected capital needs over time (i.e., first 20 years) and balance leading into the next 20 years





150k Gal Tank

- 412 connections (415
  - 403 active usage connections

approved), including

- 9 'ready to serve' connections
- **Pumped Annual Volume** 
  - ~2.8M-3.7M CF
  - ~20.8M-28M Gal
  - ~64-86 Acre-Ft
- Sold Annual Volume
  - ~2.7M-3.5M CF
  - ~20.3M-26.2M Gal
  - ~62-80 Acre-Ft
- Water Rights
  - 245 gpm
  - 152.4 Acre-Ft per yr

# Capital Improvement Scenario Summary

#### Scenario A: "Modest Fire Flow"

- Keep the system largely as it is but work through the Years 1 through 20 capital improvement projects identified in CNA over time
- Moderate financing (lowest of all scenarios)

### Scenario B: "Significant Fire Flow"

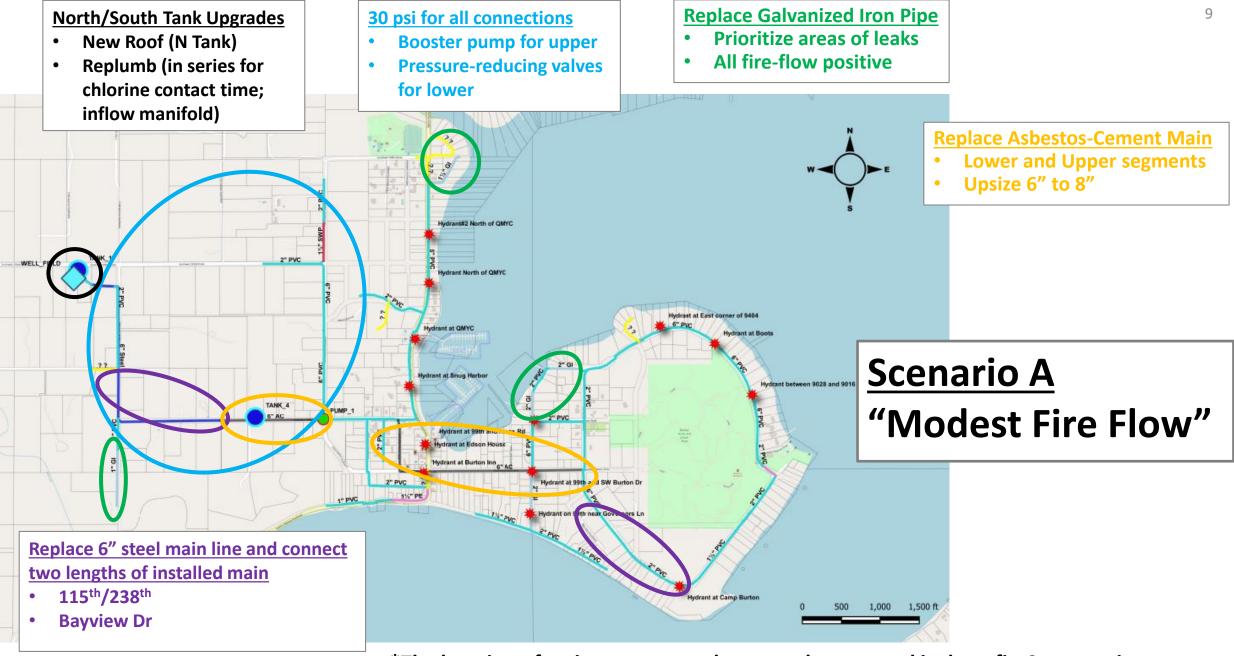
- All of Scenario A projects plus two significant fire flow upgrades for 107<sup>th</sup>Highway loop and Peninsula loop (fire flow pipe upgrades to ~90% of
  customers)
- Moderate financing (middle of all scenarios)

#### Scenario C: "Full Fire Flow"

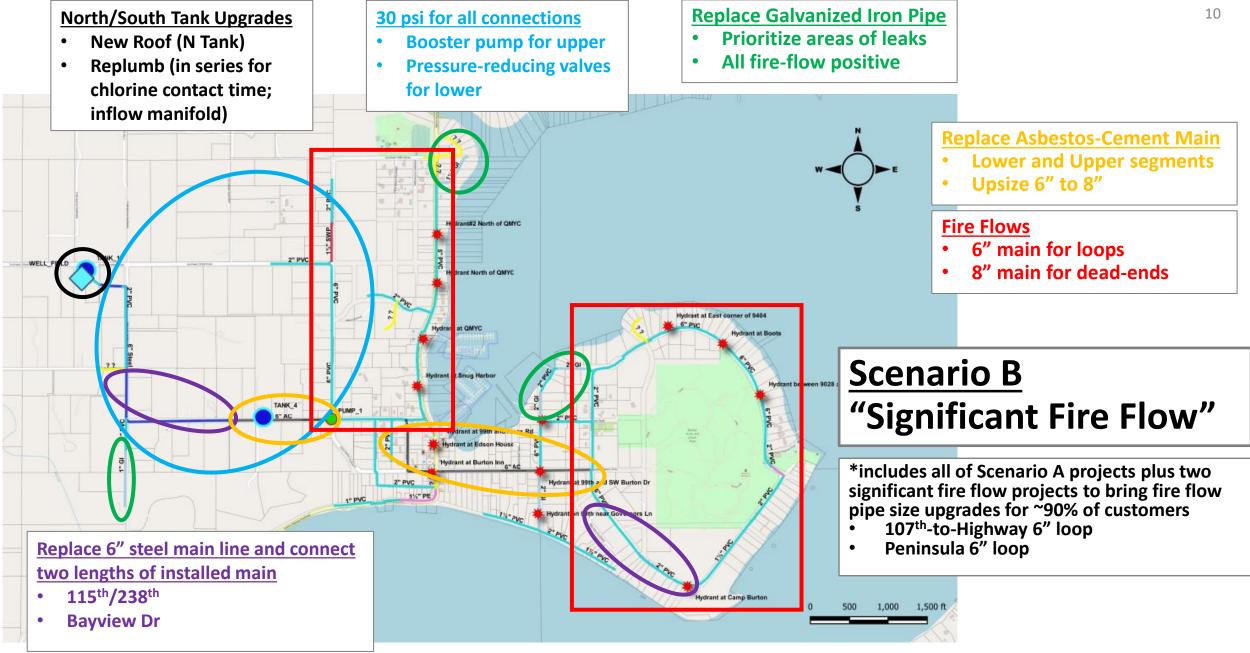
- All of Scenario B projects plus four additional smaller fire flow capacity upgrade projects to provide fire flow pipe upgrades/hydrant proximity to 100% of customers
- Maximum financing (highest of all scenarios)

## Projects Common in All Scenarios

- Water System Plan (document) update (\$25k in first year)
- Chlorination system upgrades and North Tank re-roofing (\$100k in early years)
- 30 psi solution for all customers booster pump and pressure-reducing valve(s) (\$70k in first year)
- Replace 6-inch steel line on 115<sup>th</sup>/238<sup>th</sup> and hook up existing 8-inch main (\$180k in first year)
- GIS mapping of system (\$10k in first year)
- Additional new wells in upper wellfield (\$200k in out years)
- Water rights maintenance (\$30k in out years)
- Updates to source/well plumbing and controls, pump improvements (\$25k in early years)
- 8-inch line out of 150k gal tank (\$30k in mid-year range)
- Replace 6-inch asbestos cement (AC) line (\$760k)
- Other minor projects (\$3k to \$8k)



\*The location of an improvement does not always equal its benefit. Some projects provide system-wide benefits; others are local but are required to meet new regulations.



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#### **Replace Galvanized Iron Pipe** 11 North/South Tank Upgrades 30 psi for all connections Prioritize areas of leaks New Roof (N Tank) **Booster pump for upper** All fire-flow positive Replumb (in series for **Pressure-reducing valves** chlorine contact time; for lower inflow manifold) **Replace Asbestos-Cement Main Lower and Upper segments** Upsize 6" to 8" **Fire Flows** 6" main for loops 8" main for dead-ends **Scenario C** "Full Fire Flow" \*includes all of Scenario B projects plus four additional minor fire flow projects to bring fire flow pipe size upgrades for ~100% of customers 240<sup>th</sup> **Highway (outer QM Harbor)** Replace 6" steel main line and connect Governor's Lane **Small segment off Highway** two lengths of installed main 115<sup>th</sup>/238<sup>th</sup> **Bayview Dr**

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|   | Α                    | В                       | С                    |  |
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## Scenario Comparison – 34" Median Usage Bill Projections

3/4" Median Usage Bi-Monthly Bill Summary Table

| <u>,                                     </u> |        | <u> </u>      |     |               |     |           |  |
|---|--------|---------------|-----|---------------|-----|-----------|--|
|   | Win    | itertime Bill | Sur | nmertime Bill | Tot | al Annual |  |
|   | (1     | (Feb-Mar)     |     | (Aug-Sep)     |     | Bill      |  |
|   | 500 CF |               |     | 1,250 CF      | 5,  | ,510 CF   |  |
| Current Rates                                 | \$     | 83.25         | \$  | 106.13        | \$  | 555.62    |  |
| Scenario A                                    |        |               |     |               |     |           |  |
| "Modest Fire Flow"                            | \$     | 113.65        | \$  | 136.53        | \$  | 738.02    |  |
| Scenario B                                    |        |               |     |               |     |           |  |
| "Significant Fire Flow"                       | \$     | 113.65        | \$  | 136.53        | \$  | 738.02    |  |
| Scenario C                                    |        |               |     |               |     | ·         |  |
| "Full Fire Flow"                              | \$     | 128.27        | \$  | 151.15        | \$  | 825.74    |  |

Details: Not updated since 2018; Base rate \$68 (3/4")/\$114 (1") and 3-tier usage rates; does not include KC ROW fee (\$60 per year)

Comparison to how the median usage bills would compare at other utilities

| •             | W  | intertime Bill | Sur | mmertime Bill |  |
|---------------|----|----------------|-----|---------------|--|
|               |    | (Feb-Mar)      |     | (Aug-Sep)     |  |
|               |    | 500 CF         |     | 1,250 CF      |  |
| Heights Water | \$ | 135.30         | \$  | 158.03        |  |
| Dockton Water | \$ | 107.92         | \$  | 120.07        | *These rates:                                |
| Maury Mutual  | \$ | 111.00         | \$  | 146.50        | a) are from 2022 (will be outdated)          |
|               |    |                |     |               | b) do not include KC ROW fee (\$10 per bill) |
| KCWD19        | \$ | 91.89          | \$  | 119.74        |  |

\*Bill projections are based on ¾" connection, median usage based on detailed 2017 usage data we have (92% of the connections in the system are ¾")

\*\*The "Median" is the mid-point of the dataset, where half of the users are below and half are above

January 17, 2023 Community Fireside Chat

# Requested Feedback

### 1. Which Scenario do you prefer?

Scenario A: Modest Fire Flow

Scenario B: Significant Fire Flow

Scenario C: Full Fire Flow

### 2. What are your Questions?

### 3. Other Input?

Contact us at info@burtonwater.org with additional input on the capital improvement scenario options by January 24<sup>th</sup>