



LEAGUE OF
**CALIFORNIA
CITIES**

ONE AGENCY'S RESPONSE TO THE PFAS TREATMENT CHALLENGE

**LEAGUE OF CALIFORNIA CITIES
PUBLIC WORKS OFFICERS INSTITUTE CONFERENCE**

MARCH 14, 2024

C. STEPHEN BUCKNAM JR., PE

CITY OF PARAMOUNT – PFAS PROGRAM

- * **EFFECTS ON WATER SYSTEM OPERATIONS**
- * **FUNDING CONSIDERATIONS**
- * **SITE INVESTIGATION REPORT FINDINGS**
- * **FUTURE REGULATORY CONSIDERATIONS**



EFFECTS ON WATER SYSTEM OPERATIONS

- * **Water System Wells Affected**
 - * Wells 14,15,16 &17(Future)
- * **Initial Testing Results**
 - * Notification Levels - Response Levels
- * **Enhanced Monitoring Frequency**
 - * DDW Requirements – Periodic Tracking – Reporting
- * **Treatment Requirements – Options**
 - * Site Investigation Report (2023)

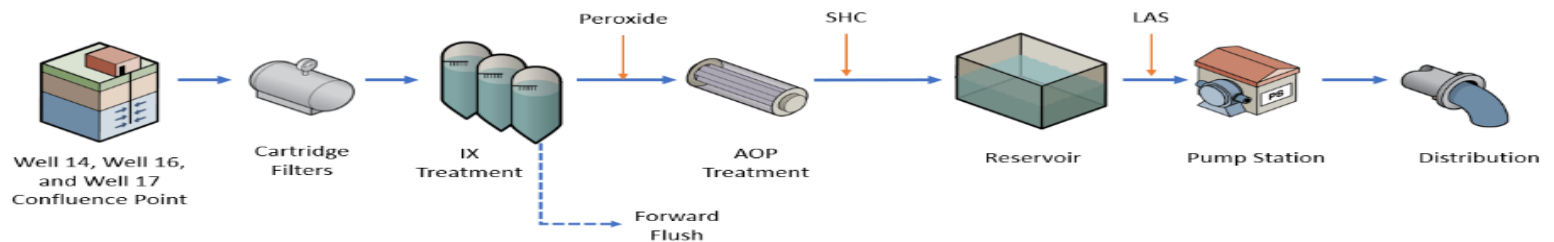
FUNDING CONSIDERATIONS

- * **Federal Grants & Loans (Corps, BUREC, EPA, EDA, etal)**
- * **State Grants & Loans (OES, IBank,SDWRF, etal)**
- * **Regional Grants & Loans(WRDSC, OneWater, etal)**
- * **Water Revenue Bonds (Cities, Districts & Agencies)**
- * **Water Enterprise Funds – Water Rates (Pay as you go)**
 - Option 1: New Reservoir and Pump Station
 - Option 2: New Reservoir, Pump Station, and Well
 - Option 3: Purchase Additional Adjacent Site to Collectively include Reservoir, Pump Station, Well & Treatment

SITE INVESTIGATION REPORT FINDINGS

* CENTRALIZED TREATMENT FOR PFAS

- * **PFAS** – Granular Activated Carbon (GAC) or Ion Exchange (IX) in lead/lag configuration
- * **GAC** generally has larger footprint (14 vessels) compared to IX (8 vessels)
- * 1,4-dioxane – Ultraviolet Advanced Oxidation Process (UVAOP)
- * Disinfection – Chloramines



* CAPITAL COST RANGES

* Option 1 \$17.2 to \$18.5M;

Option 2 \$19.0M to 20.3M

* Option 3 \$35.2M to \$36.4M

FUTURE REGULATORY CONSIDERATIONS

- * **Future DDW Notifications**

- * MCL Announcement Pending

- * **Notification Levels**

- * Potential Reductions

- * **Response Levels**

- * Potential Reductions

- * **Potential Liability Considerations**

- * Planning for Treatment Upgrades & Cost Increases

Questions & Comments

Thank you