

## The Bay-Delta and The Future of Regional Water Supplies

April 18, 2019



#### The San Francisco Regional Water System





# Hetch Hetchy<br/>Regional<br/>Water<br/>SystemThe Sacramento and San Joaquin Rivers<br/>and the San Joaquin Tributorios





#### **State Water Board Action**

- December 12, 2018 State Water Board adopted the Bay-Delta WQCP Plan Phase 1 Update, but with important amendments that would provide for a voluntary agreement alternative.
- We believe the State's plan has significant impacts on our water supply with uncertain benefits for the Tuolumne River, yet benefits can be achieved for the Tuolumne River using smart, functional flows and measures other than flow without undue impacts on our water supply.
- In order to preserve our options to complete negotiations on a voluntary agreement alternative, we joined a lawsuit on January 10, 2019 challenging the State's process for the Bay-Delta Plan.
- We have continued to meet with State representatives, other water agencies, and NGOs to further develop details of a voluntary agreement alternative.



#### **Recent Water Supply Activities**

- February 26, 2019 Our Commission directed staff to proceed with planning efforts to explore economically and environmentally feasible alternative water supply options to meet various SFPUC needs and obligations, including off-setting environmental obligations for instream flows.
- March 12, 2019 Our Commission adopted revisions to its 10-year Capital Improvement Program to include funding for initial project planning for FY19-20 (\$13.5M regional, \$5.5M local).



#### Water Deliveries FY 1972-2018



**Fiscal Year** 



#### Water Deliveries: 2013, 2015 & 2018





### **Potential Water Supply Goals**

#### 1. Meet existing obligations to existing customers

**Obligation:** 184 mgd Water Supply Assurance to Wholesale Customers; 81 mgd supply to Retail Customers

**Goal:** Bridge gaps from WSIP implementation

• 2 mgd dry year transfers

#### 2. Meet instream flow requirements

**Obligation:** Meet permit/regulatory requirements; maintain healthy fish habitat

Goal: Provide water supply to offset instream flow obligations

- Tuolumne River
  - ~93 mgd (may decrease based on outcome of State negotiations or litigation)
- San Mateo Creek
  - 3.5 mgd requirement, since WSIP
- Alameda Creek
  - Alameda Creek Recapture Project



### **Potential Water Supply Goals**

#### 3. Address additional customer demands through 2040

**Goal A:** Make San Jose and Santa Clara permanent customers

- Meet historic allocation level of 4.5 mgd for San Jose
- Meet historic allocation level of 4.5 mgd for Santa Clara

Goal B: Meet the increased demands projected by individual Wholesale Customers

- San Francisco (1 mgd, to be refined in 2020 UWMP)
- San Jose (4.5 mgd)
- Santa Clara (2 mgd)
- Brisbane (TBD)
- East Palo Alto (prior request of 1.5 mgd met through ISG transfers)
- Others?



### **Potential Water Supply Projects**

- Why can't we be like Southern California?
- Los Angeles is doing great things.....
- Orange County Water District is doing great things.....



#### How Is Southern California Different? (Southern Los Angeles County)





# Hetch Hetchy Regional Water System How Is Southern California Different? (Orange County)





### **Potential Water Supply Projects**

- Tuolumne River Watershed
- Bay Area Regional Reliability
- Local San Francisco



#### Potential Tuolumne Watershed Projects

- Groundwater Banking
  - TID, MID, SFPUC, and Tuolumne-area Groundwater Sustainability Agencies
- Inter-Basin Collaborations
  - Stanislaus River
  - Merced River





#### **Bay Area Regional Reliability Partners**





### 1. Daly City Recycled Water Expansion



Yield: 3 MGD Capital Cost: \$85 Million



#### 2. ACWD Transfer Partnership





#### 3. Brackish Water Desal in East Contra Costa



Yield: 9+ MGD Capital Cost: \$200-800 Million



#### 4. ACWD-USD Purified Water Partnership



Yield: 5 MGD Capital Cost: \$200-400 Million



#### **5. Crystal Springs Purified Water**



Yield: 6+ MGD Capital Cost: \$400-700 Million



#### 6. Eastside Purified Water





#### 7. San Francisco Eastside Satellite Recycled Water Facility



Yield: <1 MGD</th>Capital Cost: \$200 Million



# 8. Additional storage capacity in Los Vaqueros Reservoir from expansion



Yield: N/A	Capital Cost: \$20-50 Million
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#### 9. Calaveras Reservoir Expansion



Yield: N/A Capital Cost: \$TBD Million



# 10. Evaluation of Recycled Water throughout the Service Area



Yield: N/A Capital Cost: \$TBD Million



#### **Potential Project Timelines**



• Projects will take roughly 10 to 30+ years to implement.



#### Conclusions

- The Bay-Delta Plan and ongoing negotiations are challenging.
- We're not like Southern California.
- We're exploring options that are breaking new ground.
- We're in this for the long haul.