

## California WaterFix

Santa Clarita Valley Water Agency

June 5, 2018

### **Presentation Outline**

- Proposed Board Action
- Recap of Previous Board Action and Recent Developments
- Project Description
- Project Benefits
- Allocation of Project Costs
- Implementation Agreements

## **Proposed Board Action**

- Adopt CEQA determination for CA WaterFix
- Support CA WaterFix
  - 2.35 percent share of overall SWP costs share
- Authorize
  - Gap funding for 2019

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## **Summary of October Board Action**

- CLWA – Board Presentations on CA WaterFix
  - Metropolitan Water District of Southern CA
  - South Delta Water Agency
  - Department of Water Resources
  - Staff Presentation
- CLWA Board Adoption of Resolution No. 3199 in support of the California Water Fix

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## California WaterFix Recent Developments

- DWR approved CA WaterFix Jul 2017
  - 9,000 cfs, two tunnels, and three intakes
- Public Water Agencies (PWAs) consider CA WaterFix- 12 agencies vote to support Sep-Oct 2017
- PWAs developing financing options
- DWR considers an option of staged construction Feb 2018
- Metropolitan Board directs staff to explore opportunities for full project financing Feb 2018
- Metropolitan board votes to fund their portion of the SWP 67% plus the capacity interest in the remaining 33% April 2018

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## Project Description

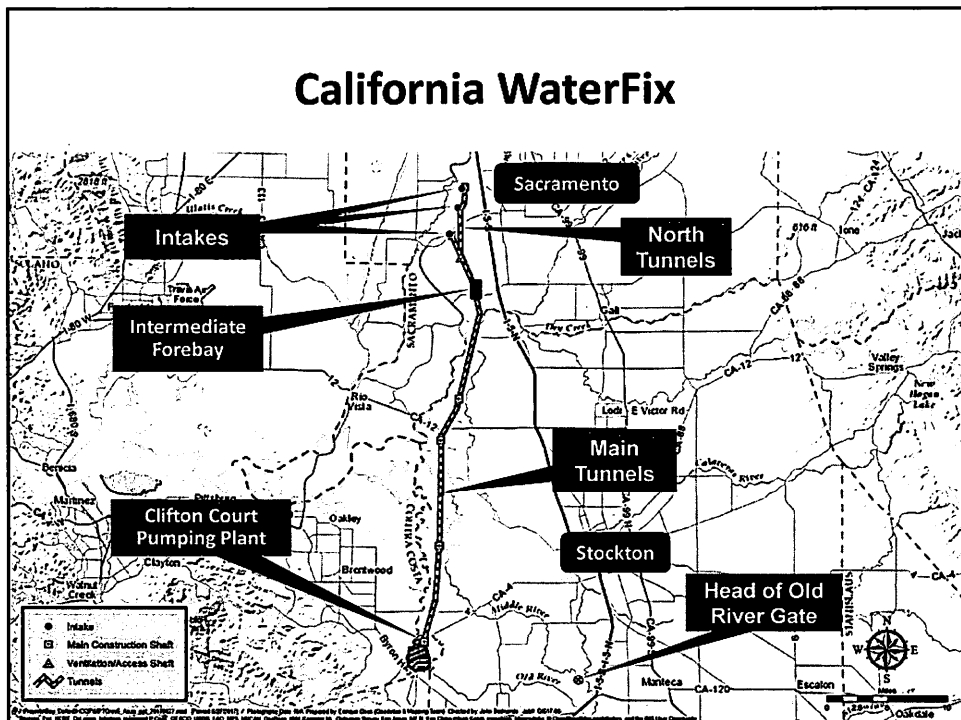
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## California WaterFix – Physical Features

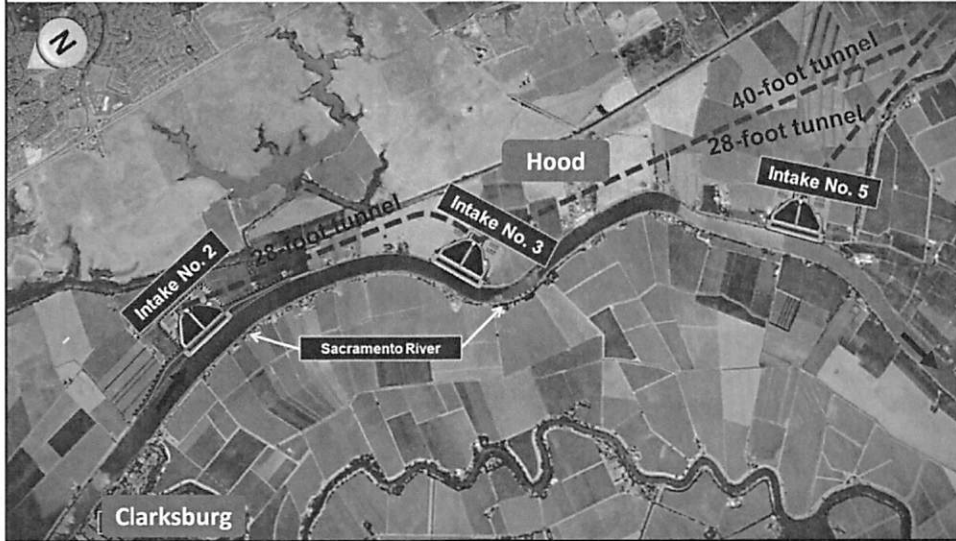
- North Delta
  - North Delta Intakes
  - North Tunnels
  - Intermediate Forebay
- Main tunnels
- South Delta
  - Clifton Court Pumping Plant
  - Clifton Court Forebay Modifications
  - Head of Old River Gate

\*CWF design is approximately 10 percent preliminary design. Design will progress with additional information.

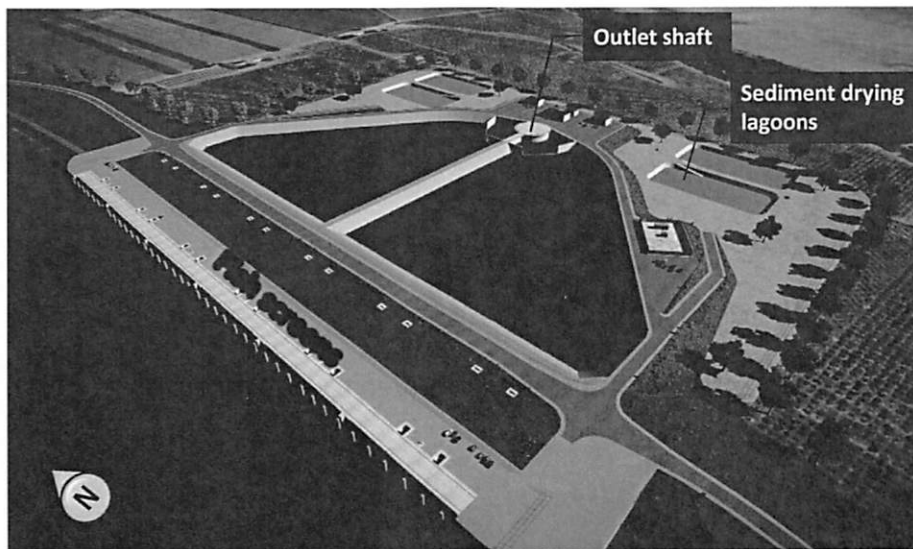
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## River Intake Locations

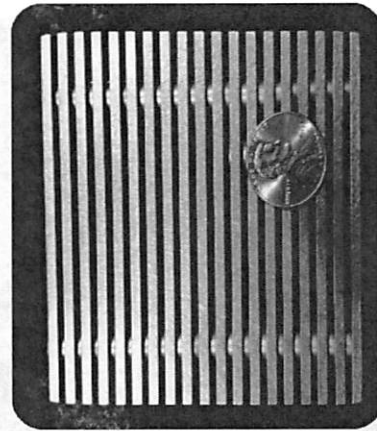
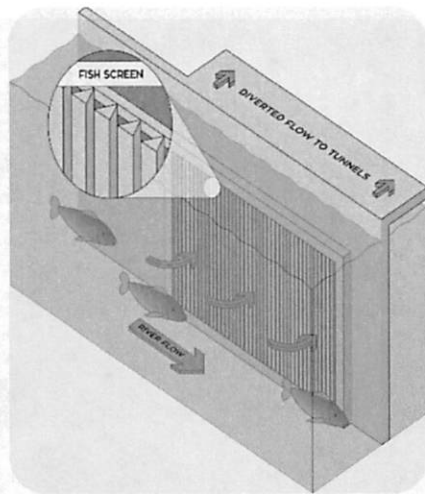


## River Intakes



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## Designed to Protect Fish



Screen spacing – 1.75mm  
Flow approach velocity = 0.2 ft/sec

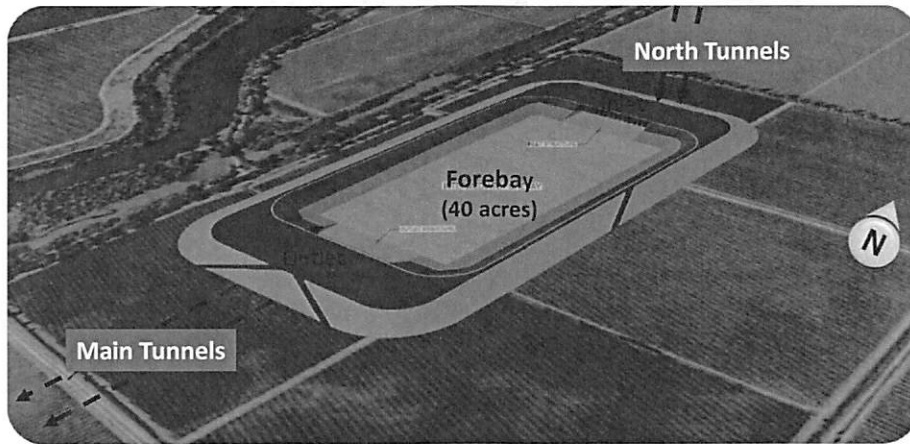
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## North Tunnels

- Three tunnel reaches
- Total 13.5 miles of tunnel
- Two 28-foot tunnels
- One 40-foot tunnel
- Collect water from intakes, deliver to intermediate forebay

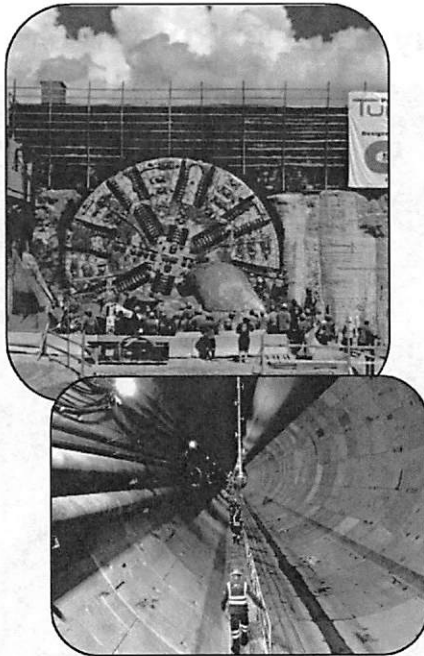
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## Intermediate Forebay



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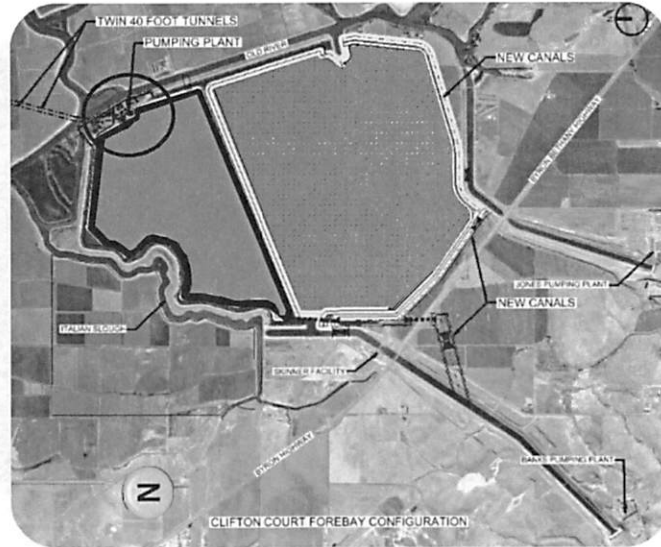
## Main Tunnels



- Twin bore main tunnels
- 30 miles long each
- 150 ft below grade
- 2-foot thick concrete liner
- Pressurized face tunnel boring machine
- ±45-ft excavated diameter
- 40-ft internal diameter

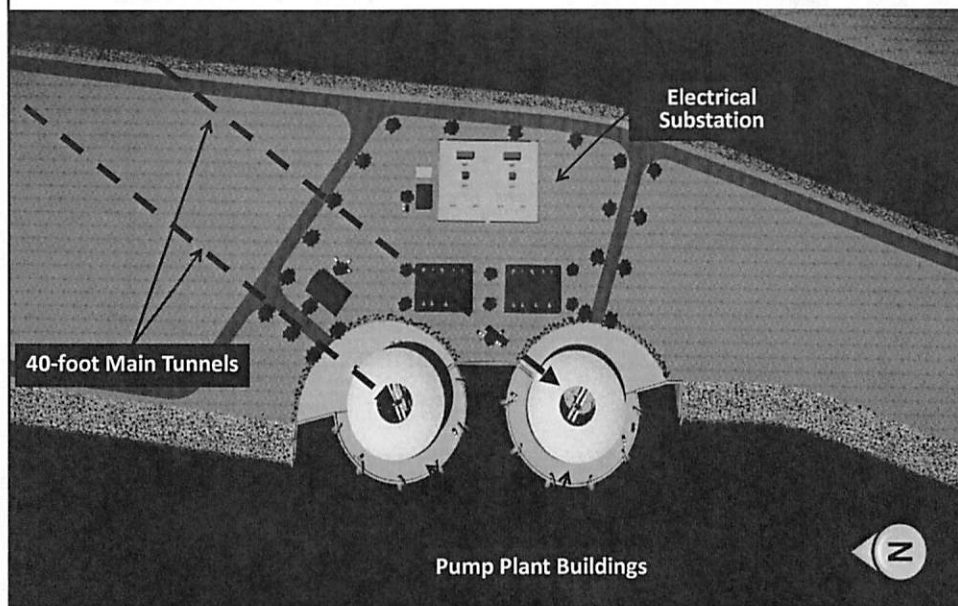
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## Clifton Court Forebay – Expansion



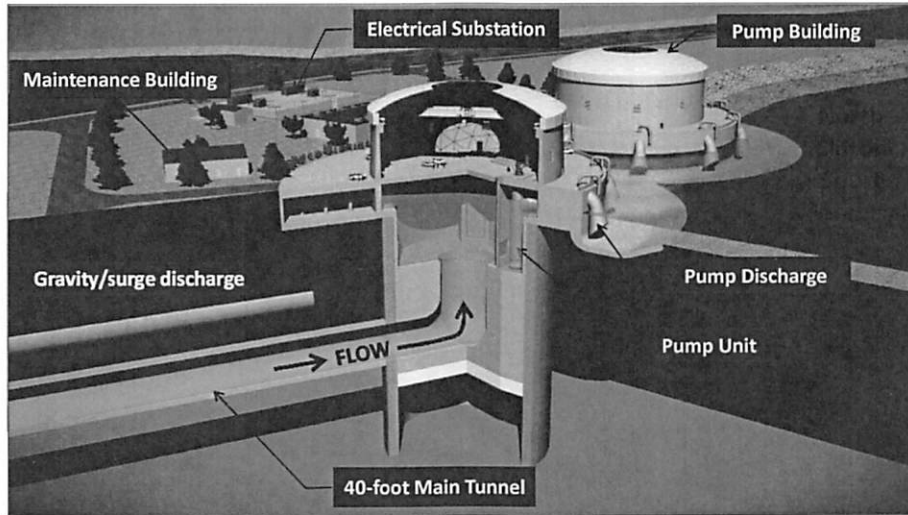
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## Clifton Court Forebay – Pump Plants





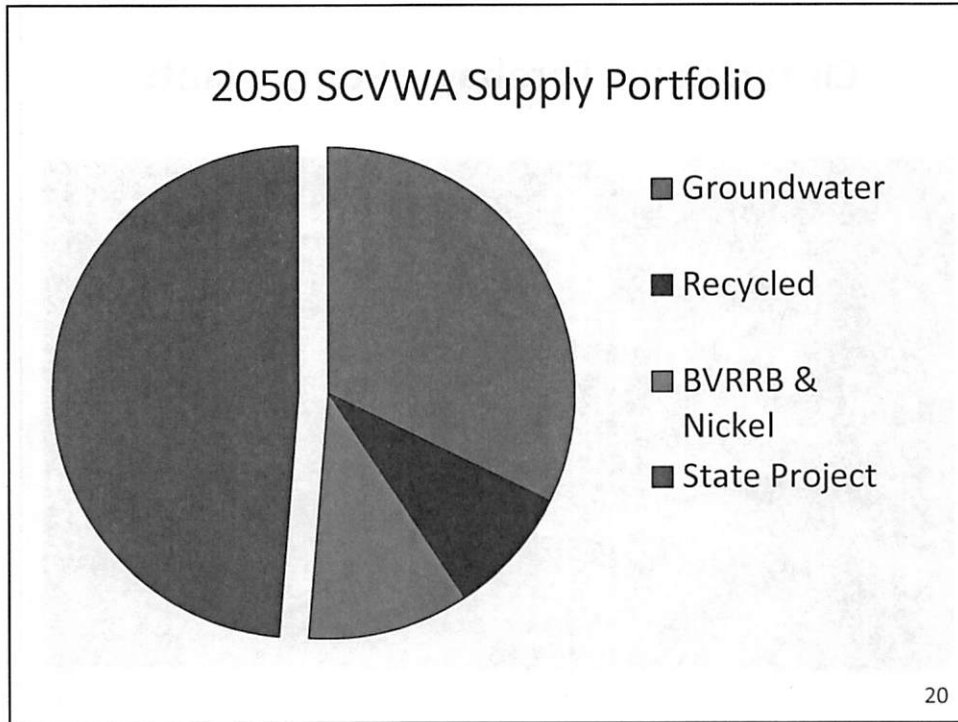
## Clifton Court Forebay – Pump Plants



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## California WaterFix Benefits

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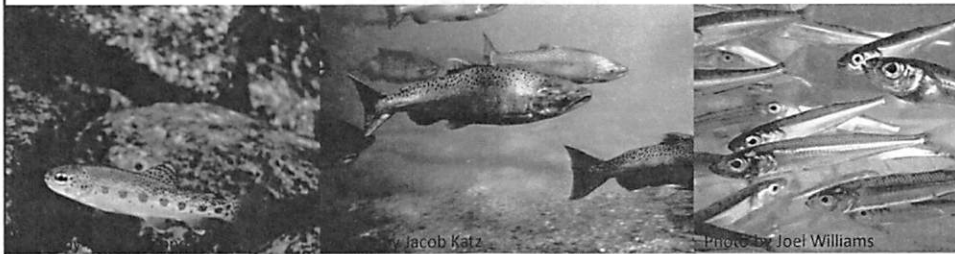
### California WaterFix Benefits

- Enhanced Fishery Ecosystem
- Flexible operations
- Seismic resiliency
- Climate change adaptation
- Water quality

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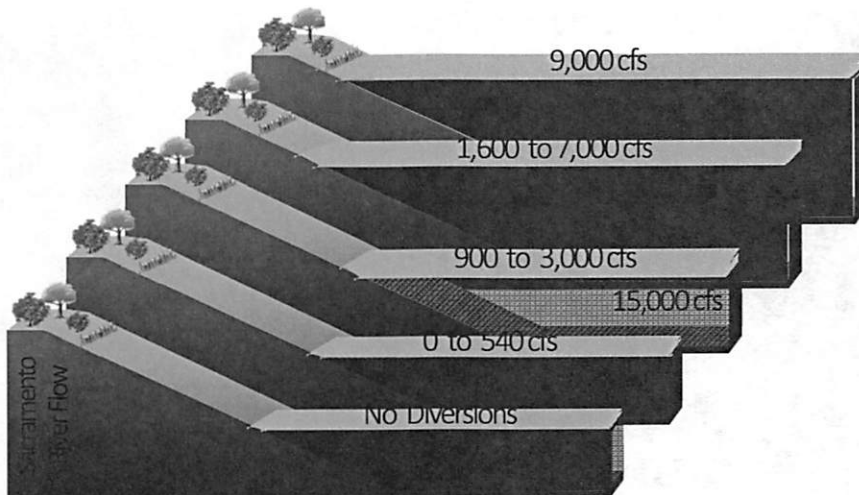
## Enhance Ecosystem Fishery Habitat Throughout Delta

- Improved flow patterns
- Reduced risk of entrainment
- Physical habitat actions

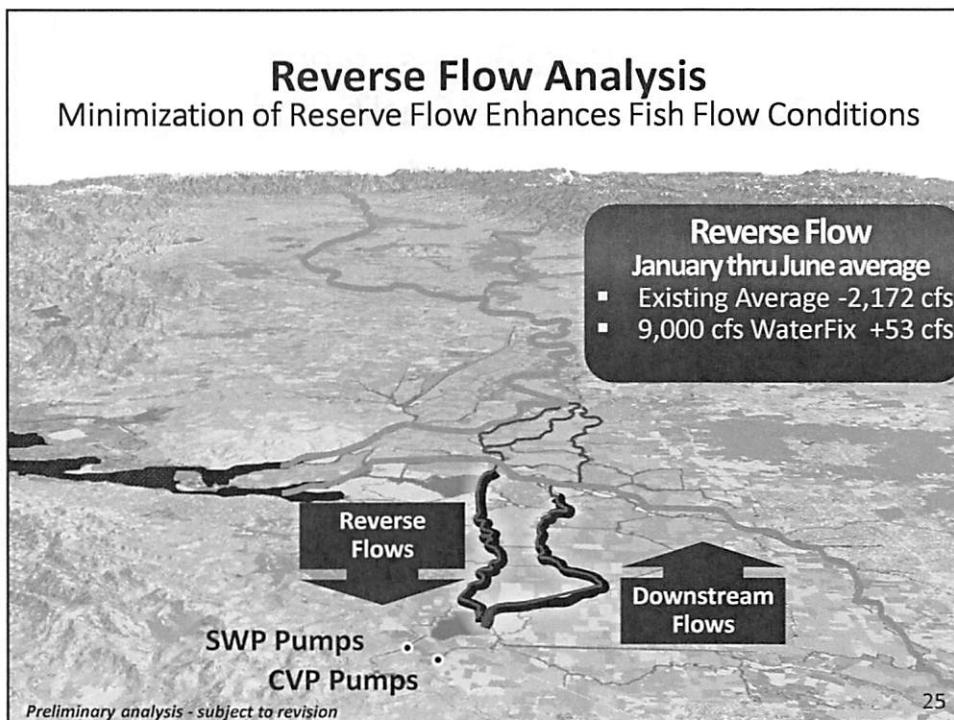
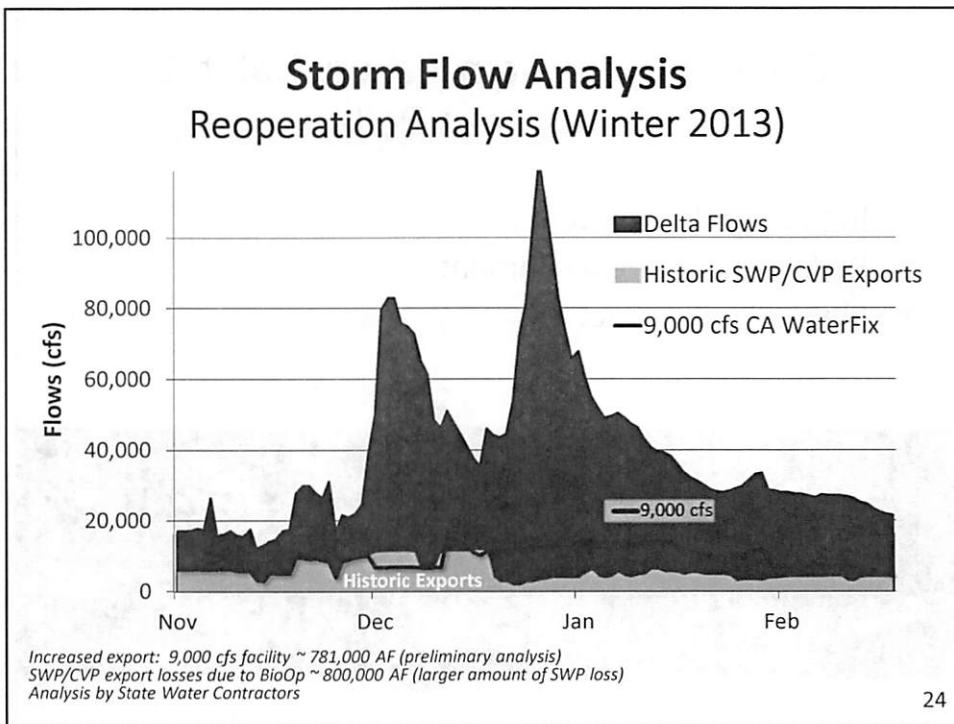


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## North Delta Bypass Criteria Protect Flows, Water Quality, and Fish



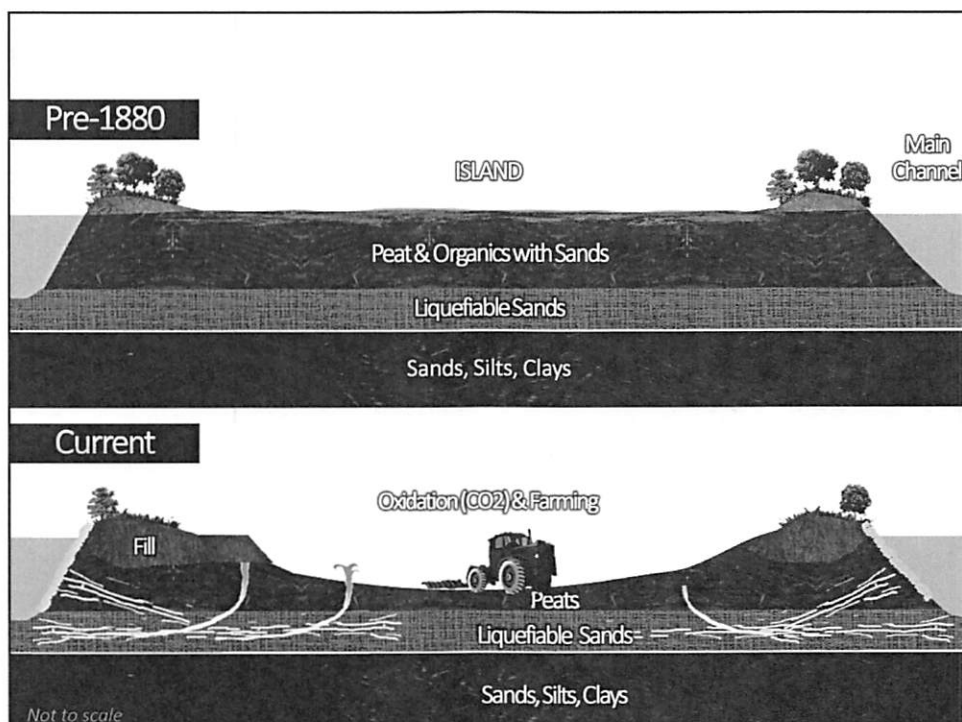
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## Water Supply Reliability

- Current Average Reliability - 60%
- W/o CA Water Fix Reliability – 48%
- W/o CA Water Fix Art. 21 – 0%
- W/CA Water Fix Reliability – 61%
- W/CA Water Fix Art. 21 – 4%

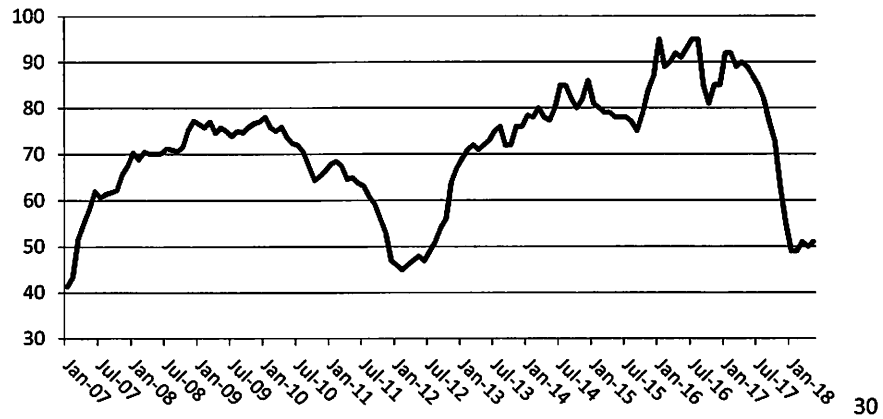
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## Water Quality

- 27 % improvement in SWP Salinity

**Castaic Lake Chloride (mg/L)**



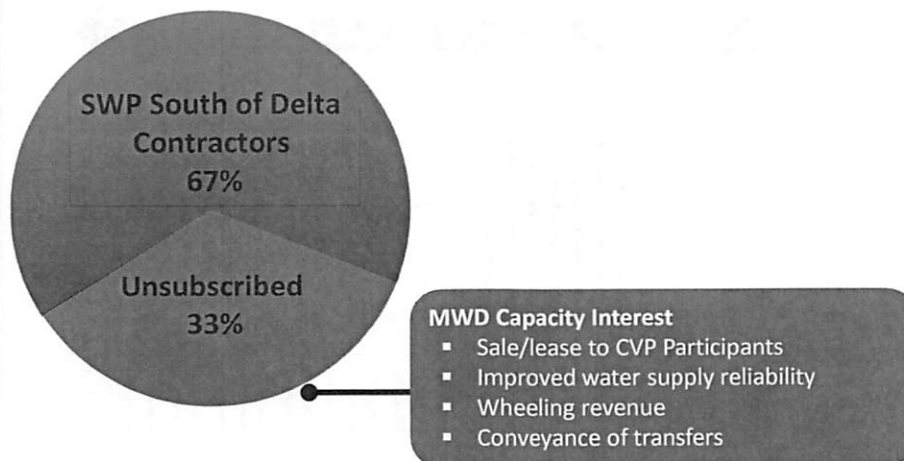
## Costs and Cost Allocation

## California WaterFix Capital (2017 dollars)

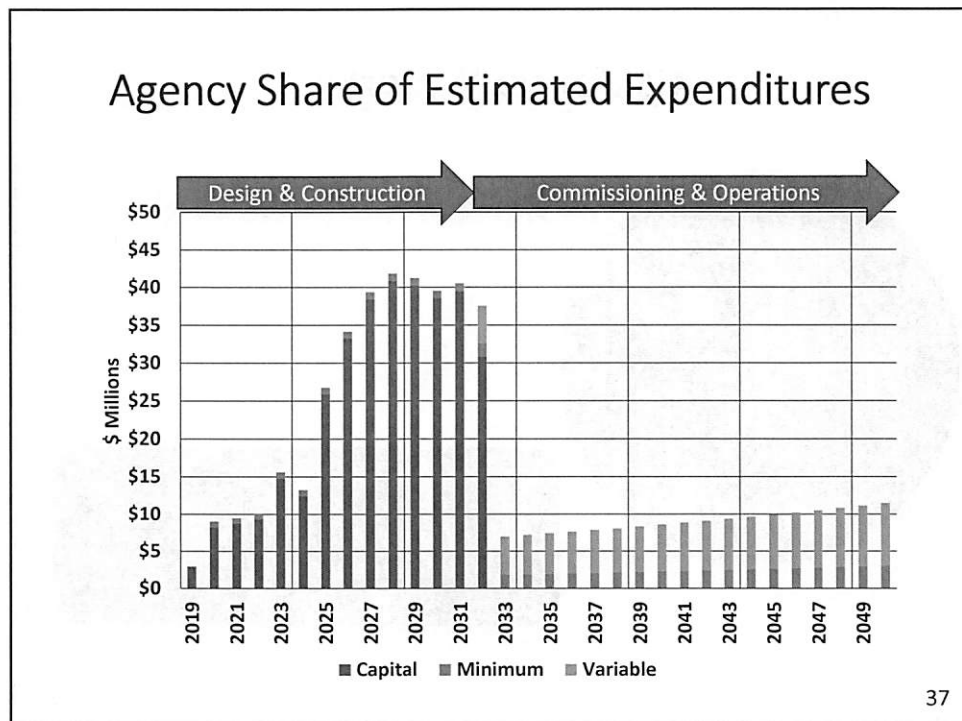
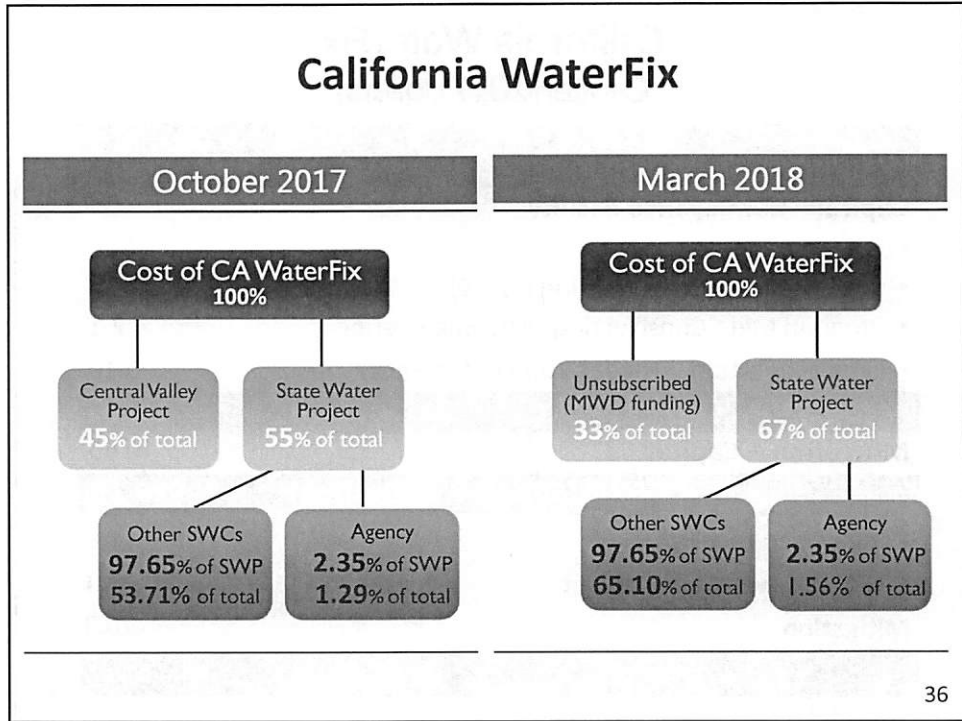
| ITEM   | 9,000 cfs<br>(\$ Billions) |
|--|----------------------------|
| <b>Capital – Conveyance Facility</b>           |                            |
| • Construction                                 | 10.4                       |
| • Contingency for construction (~36%)          | 3.7                        |
| • Program Mgt., Construction Mgt., Engineering | 2.1                        |
| • Land acquisition (includes 20% contingency)  | 0.16                       |
| <b>Subtotal</b>                                | <b>\$16.3 B</b>            |
| <b>Mitigation – Capital</b>                    | <b>0.40</b>                |
| <b>Total (Capital &amp; Mitigation)</b>        | <b>\$16.7 B</b>            |
| <b>Conveyance Facility</b>                     |                            |
| • O&M, Power, Replacement                      | 44.1                       |
| <b>Mitigation</b>                              | <b>20.3</b>                |
| <b>Total</b>                                   | <b>\$64.4 M/yr.</b>        |

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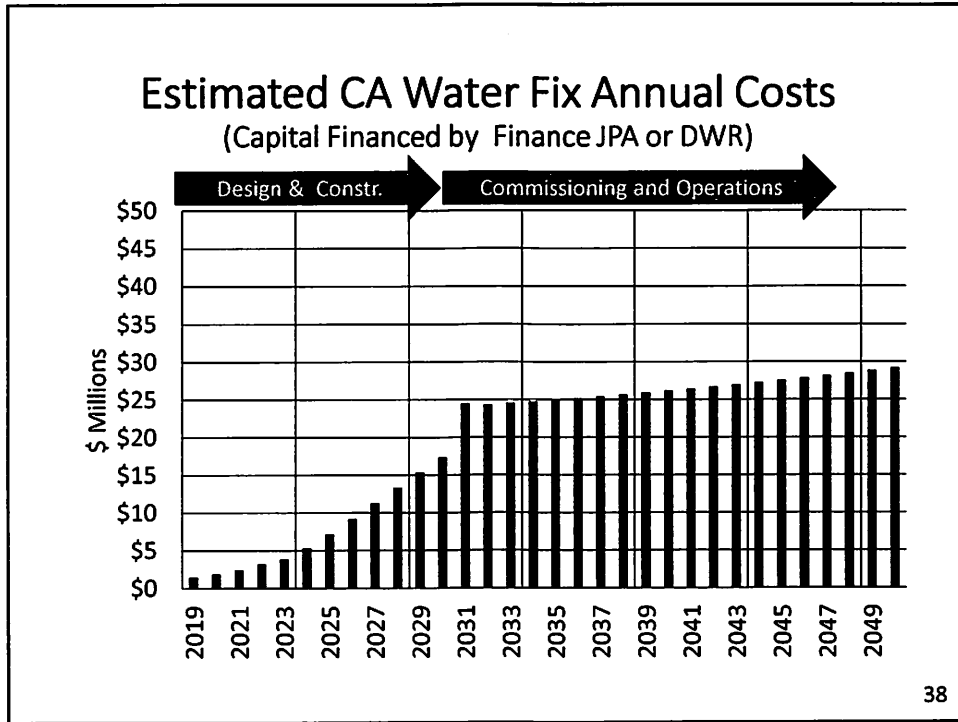
## California WaterFix



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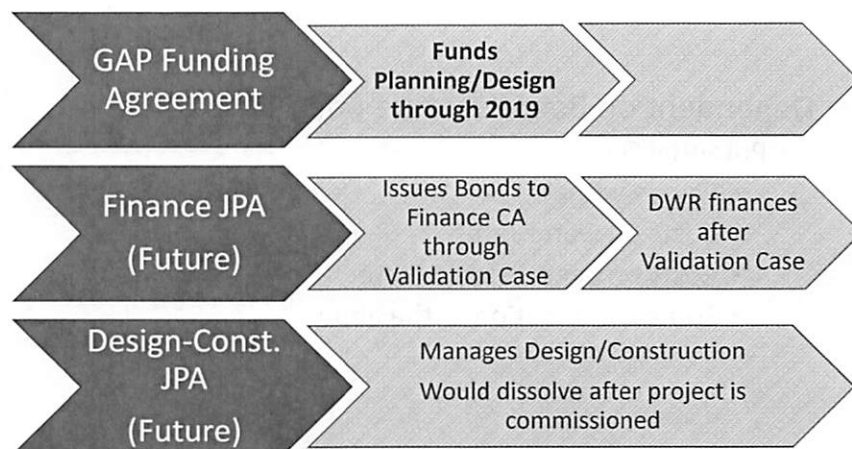


- ## Financial Impacts
- **Dependent on Board’s future policy decisions**
    - **Potential Options**
      - Pay-as-you-go
      - Costs on water rates
      - Costs on agency set tax rate
      - Some combination of the above
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### Impact on State Contract Fund (In 15 years)

- Capital Costs                   \$17.7M
- Minimum Costs                1.8M
- Variable Cost                  5.0M
- Total                             \$ 24.5M
  
- Increase in Agency Set Tax Rate - 4.5 cents
- Cost for Average \$510,000 Home - \$20/Mo

### California WaterFix – Board Actions



## GAP Funding

- Funds \$88.7 million of 2019 planning and design efforts
- Agency share is 2.35% or approximately \$2.08 million
- Costs collected monthly via SWP minimum transportation charge
- If CA WaterFix is not implemented, DWR is only obligated to return unexpended funds
- SWP Contractors contributions would be reimbursed or credited upon DWR or the Financing JPA selling revenue bonds to cover subject costs

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## Recommendations

- As a Responsible Agency under CEQA, upon review and consideration of information provided in the Lead Agency's certified Final EIR, adopt the Lead Agency's:
  - Findings
  - Statement of Overriding Consideration
  - Mitigation Monitoring and Reporting
- Authorize General Manager to execute a California Water Fix Gap Funding Agreement with the Department of Water Resources

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