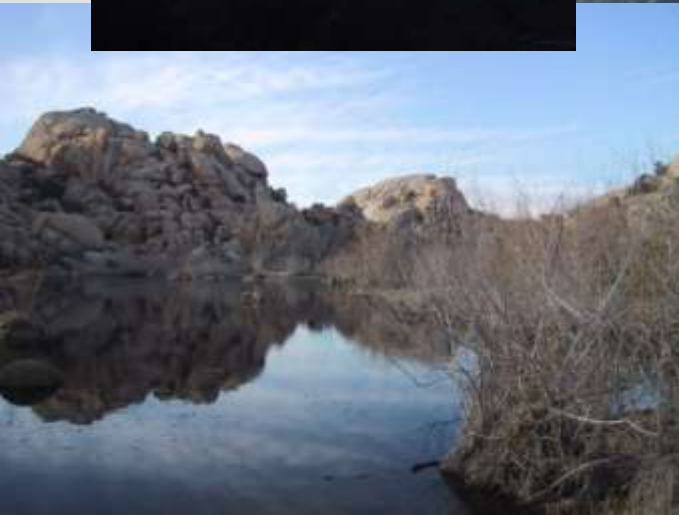




WOODLAND-DAVIS  
Clean Water Agency

[wdcwa.com](http://wdcwa.com)



**Quality Drinking Water for our Future**

Rotary Presentation by Bill Marble: Jan 4, 2011



WOODLAND - DAVIS  
Clean Water Agency

**Formed: Sept 15, 2009**

**JPA: Woodland, Davis, (U.C. Davis)**

**Board of Directors (4):**

- |                       |            |
|-----------------------|------------|
| • Dr. Bill Marble (W) | Chair      |
| • Stephen Souza (D)   | Vice-Chair |
| • Martie Dote (W)     | Director   |
| • Joe Krovoza (D)     | Director   |

**General Manager:**

- Dr. Eric Mishe, P.E.





**WDCWA Team**



# ***WHY CHANGE OUR WATER SOURCE?***



**WHAT GOES IN...**

**...MUST GO OUT**



## WASTEWATER CONCERNS

Constituent	Discharge Limit	Current Woodland	Current Davis	Projected WDCWA
Salts, (TDS) ppm	450 (future)	1,040	1,060	<450
Boron, ppb	700 (future)	2,430	1,800	<100
Selenium, ppb	4.4 (Davis) 3.2 (Woodland)	2 - 8.4	1.2 - 5.6	<0.1

*Source: Woodland & Davis Wastewater Discharge Permits as of Oct, 2010 and discussions with the Regional Water Quality Control Board*





## WATER QUALITY CONCERNS

Constituent	Groundwater	Sacramento River
Salts (TDS), ppm	400-710	120-130
Boron ppb	500-2,300	<100
Selenium, ppb	0-40	<0.1
Nitrates, ppm	1-40	<1
Iron, ppb	0-720	0.32
Managanese, ppb	0-110	<15

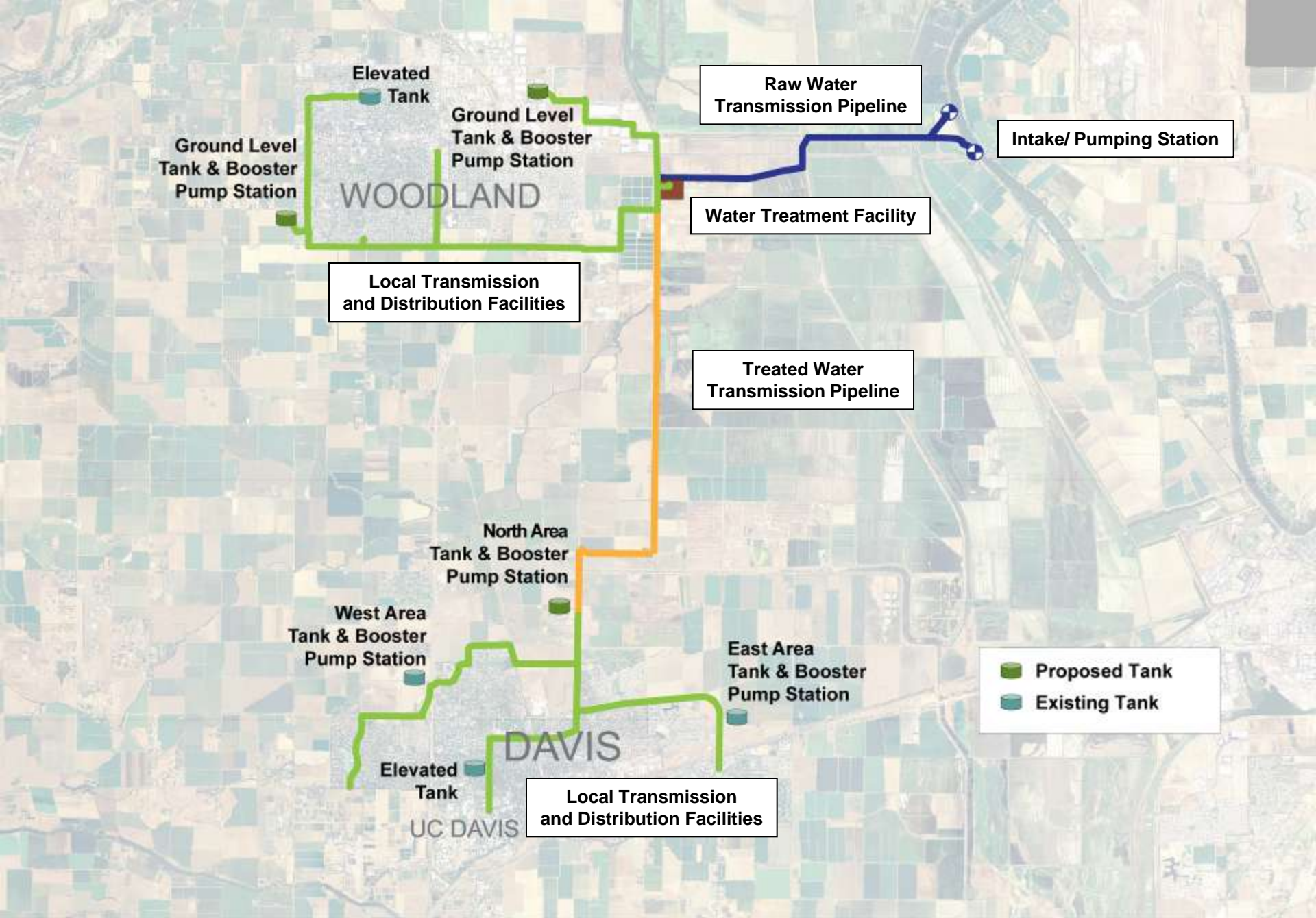
*Sources: Woodland & Davis Annual Water Quality Reports for Groundwater; 2009 Treated Water Quality Reports for the West Sacramento Water Treatment Plant (Sacramento River)*





# WDCWA PRIMARY GOALS

- *Meet wastewater requirements*
- *Provide high-quality water*
- *Sustainability & Affordability*
- *Startup in 2016*

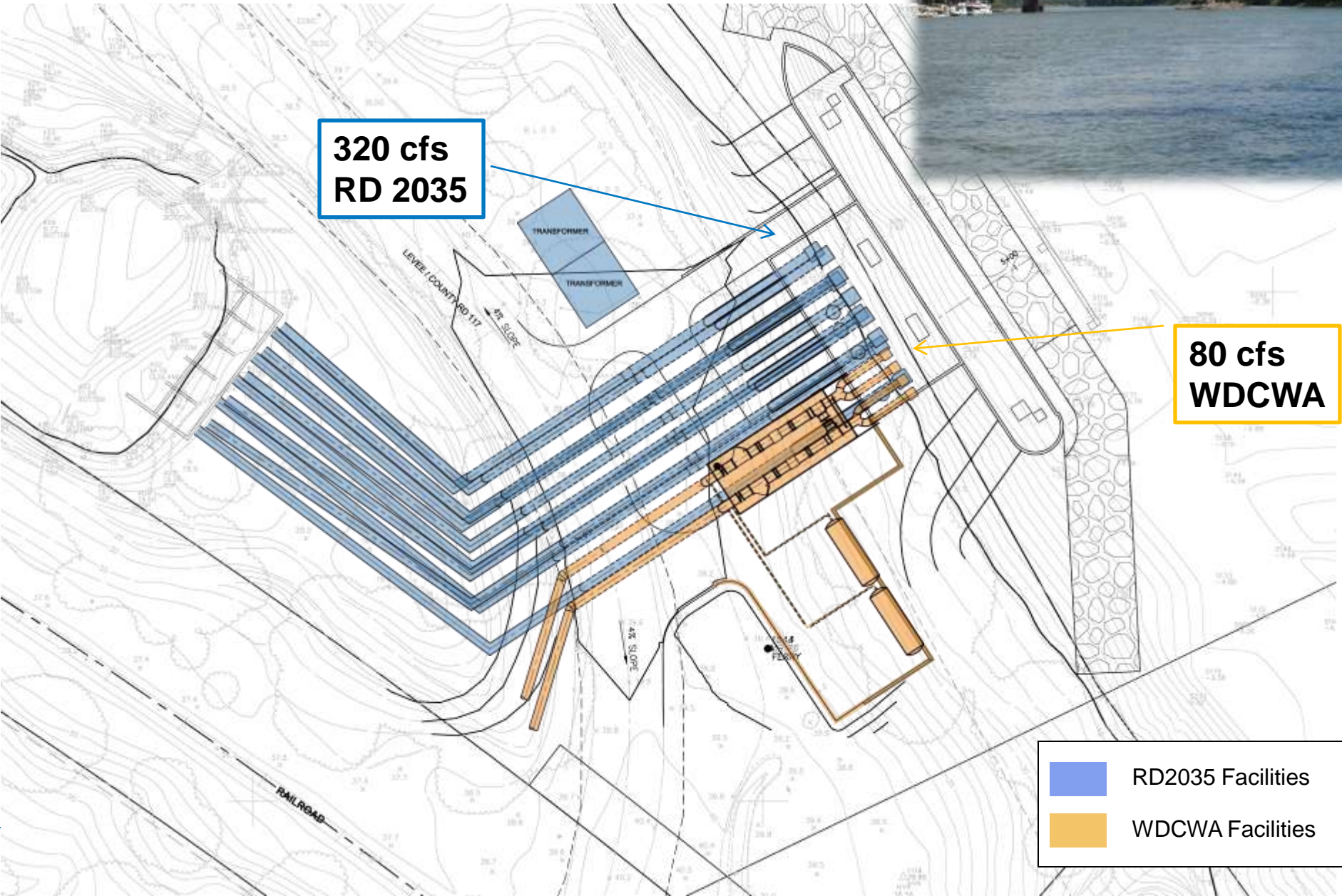




# Environmental Concerns





# Sacramento River Intake



**320 cfs  
RD 2035**

**80 cfs  
WDCWA**

-  RD2035 Facilities
-  WDCWA Facilities

# Sacramento River Intake Alternatives



# DWWSP Schedule

Task	Start	Finish
<b>Preliminary Engineering</b>	Q3 2009	Q2 2011
Water Rights	1994	Q2 2011
Intake Site Selection	Q4 2009	Q2 2011
Facility Location & Alignments	Q2 2009	Q2 2011
Summer Water Transfers	Q3 2010	Q2 2013
Permitting	Q3 2010	Q2 2012
Land Acquisition	Q3 2010	Q2 2013
Project Funding/Financing	2011	2014
<b>Design</b>	Q3 2011	2011-2012
<b>Construction</b>	Q1 2013	Q4 2015
<b>Operation</b>	Q1 2016	

# Savings at Home

## \$200 + per year

- Increases plumbing lifespan
- Increases water appliance lifespan
  - Faucets, water heaters, dishwashers, clothes washers
- Eliminates need for softeners
- Eliminates need for filtration
- Reduces need for bottled water







WOODLAND - DAVIS  
Clean Water Agency

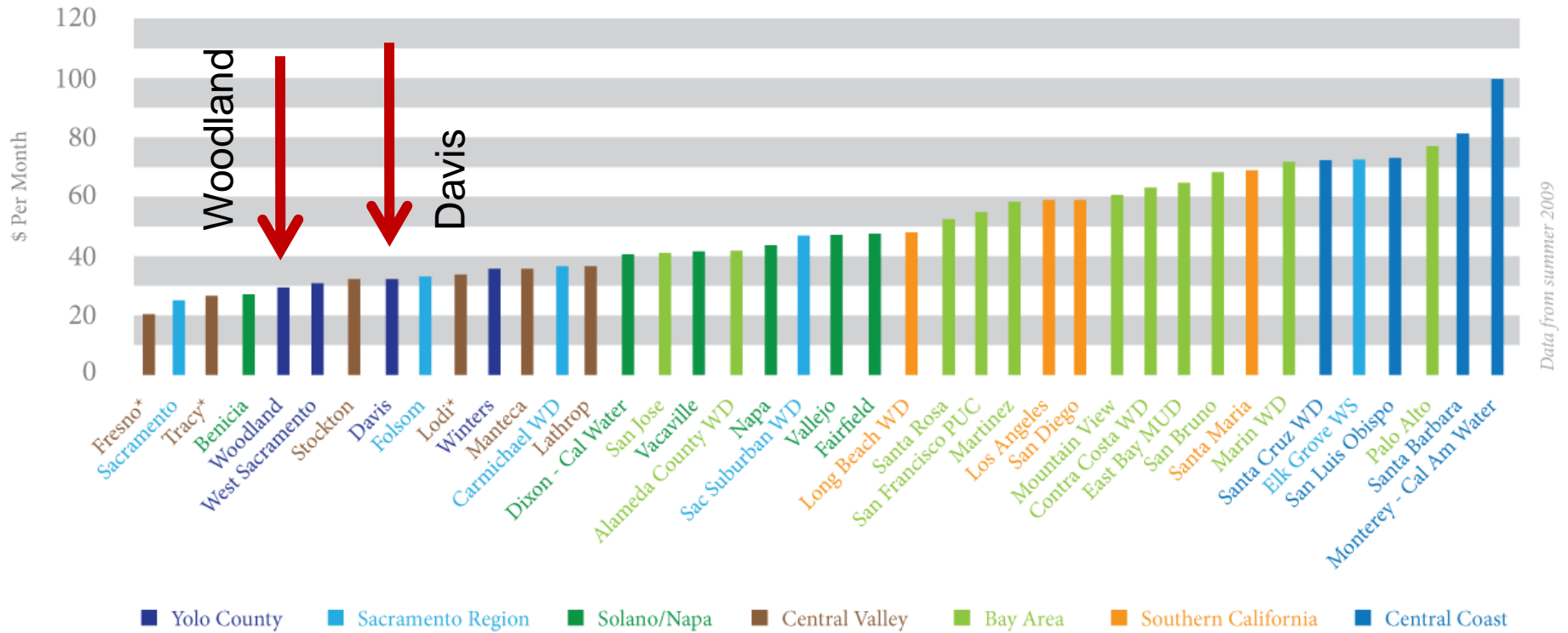
- **YCFCWCD application (45,000 af/yr)**
- **1994 priority filing**
- **2001 assignment**
- **2005 split**
- **Permit Term 91 Prohibition**
- **11 protests**
  - **10 resolved**
  - **California Sportfishing Protection Alliance**
  - **SWRCB Hearing Jan 18-19, 2011**

# CONAWAY AGREEMENTS



- Additional Permanent Senior Water Right
  - 10,000 acre-feet
  - Important summer supply
  - \$2.6 million annual cost (2% annual increase)
  - All payments end after 24 years.
- Joint Intake Facility
- Land Easements

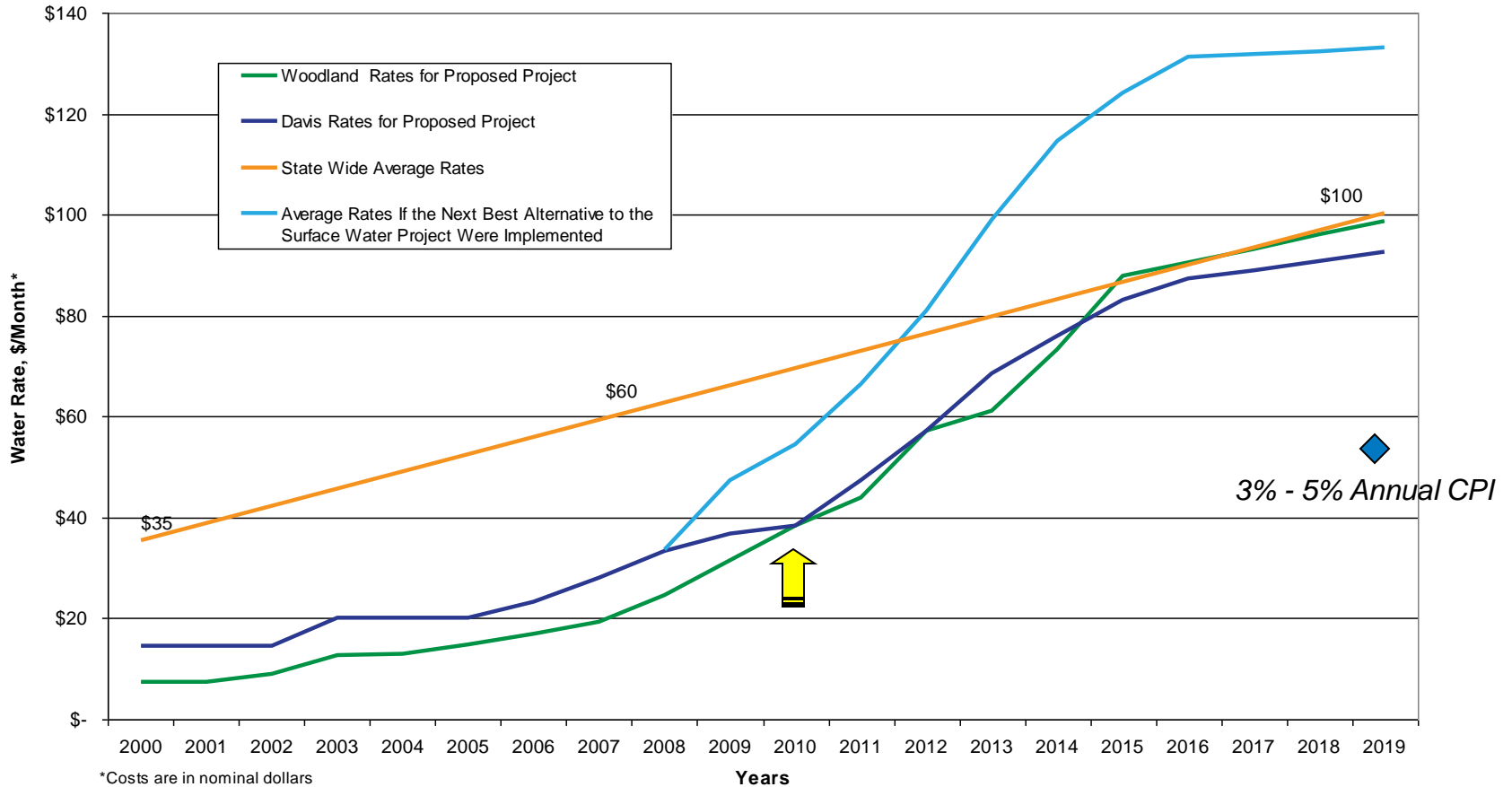
# Water Rates – 2009 Comparison



# Projected Rate Impacts

(Avg. Monthly Single Family Residential Rate)

Estimated 2020 Water Rates  
SFR Davis and Woodland



\*Costs are in nominal dollars

\*Rates shown do not include potential rate reductions, including water demand reductions, project phasing, or outside funding assistance.

# \$325 Million Project Funding



- Ratepayers
- Cal State Revolving low interest loans
- Cal Infrastructure Bank low interest loans
- Cal Prop 84 grant funds
- Future State Water Bonds
- Revenue Bonds
- Federal appropriations/grant funding