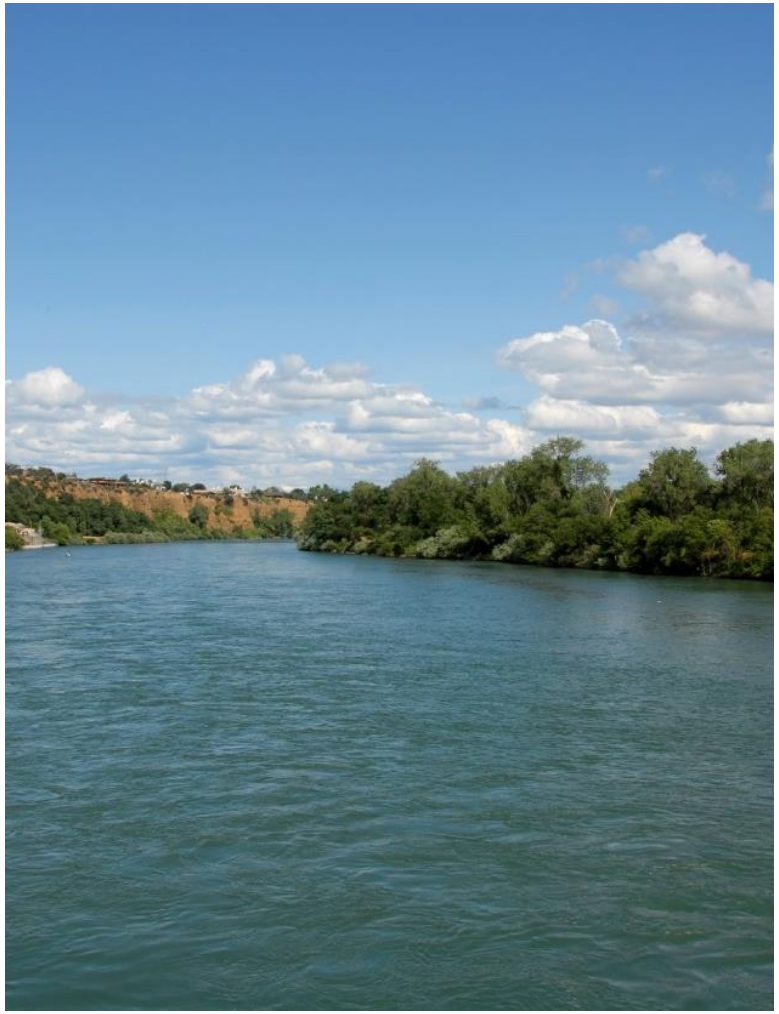


The Davis Woodland Water Supply Project

WOODLAND ROTARY CLUB

December 13, 2016

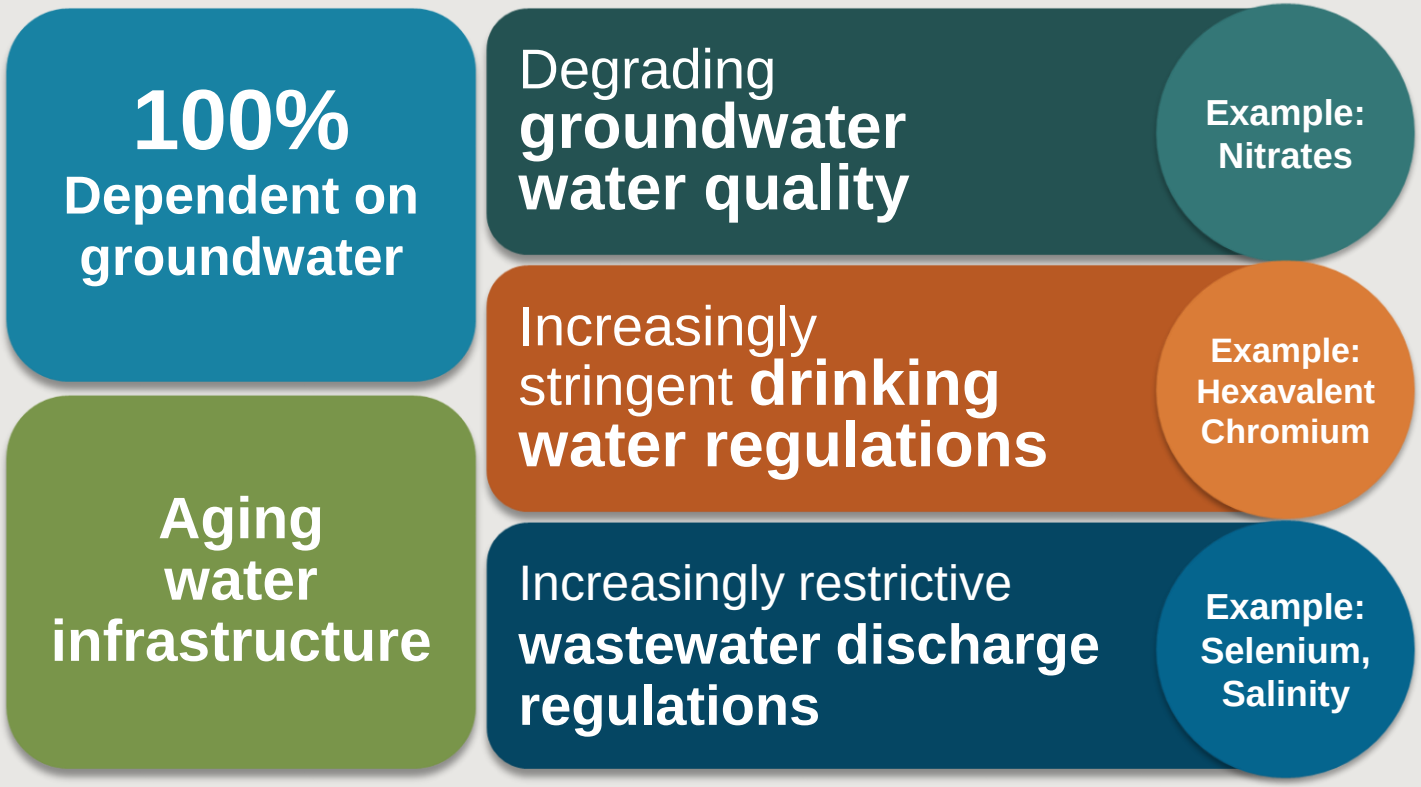
WOODLAND-DAVIS Clean Water Agency

A Partnership for a Sustainable Future

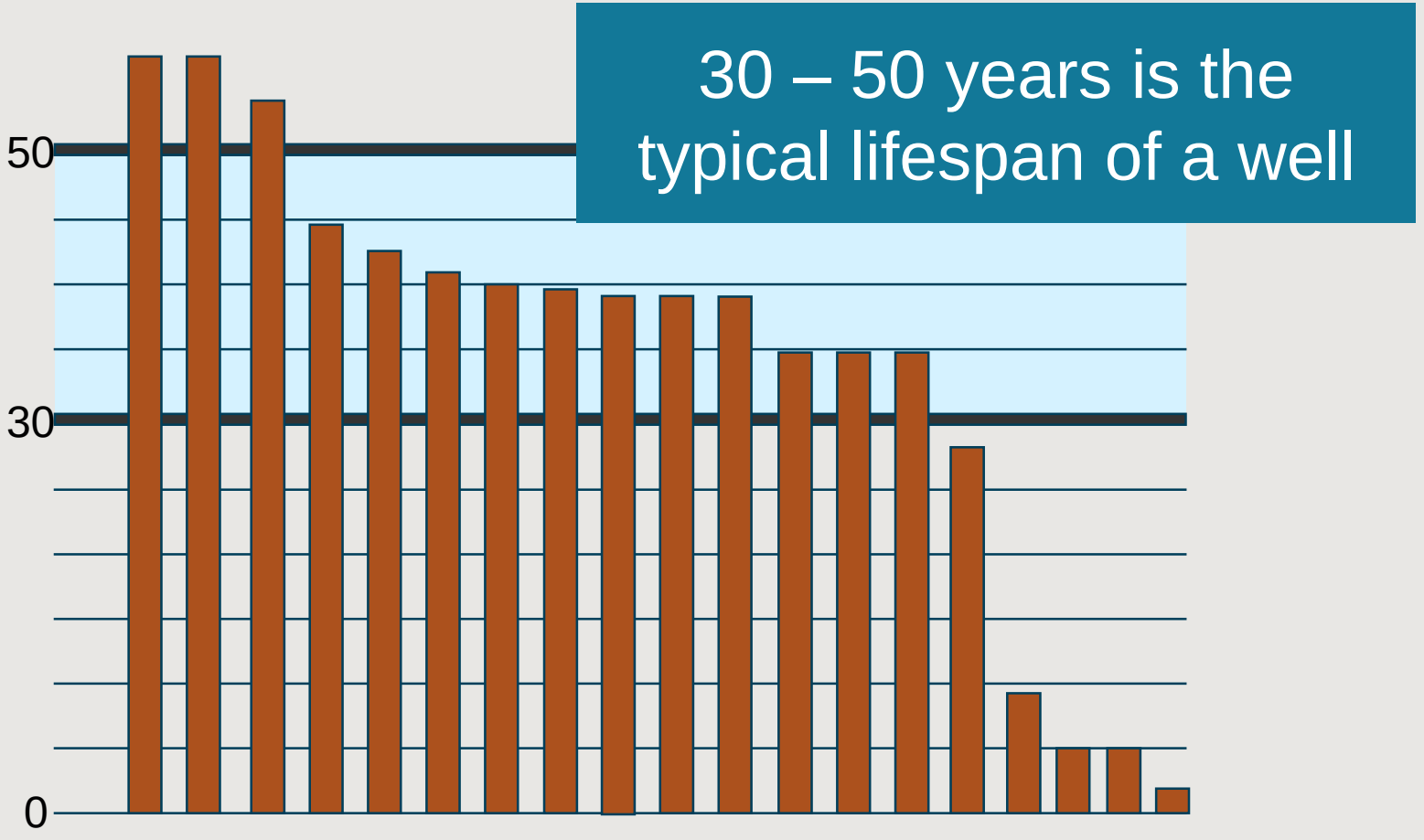
Presentation Overview

- Surface Water Project Overview
- Project Delivery Method
- Water Rights & Operations
- Budget and Schedule

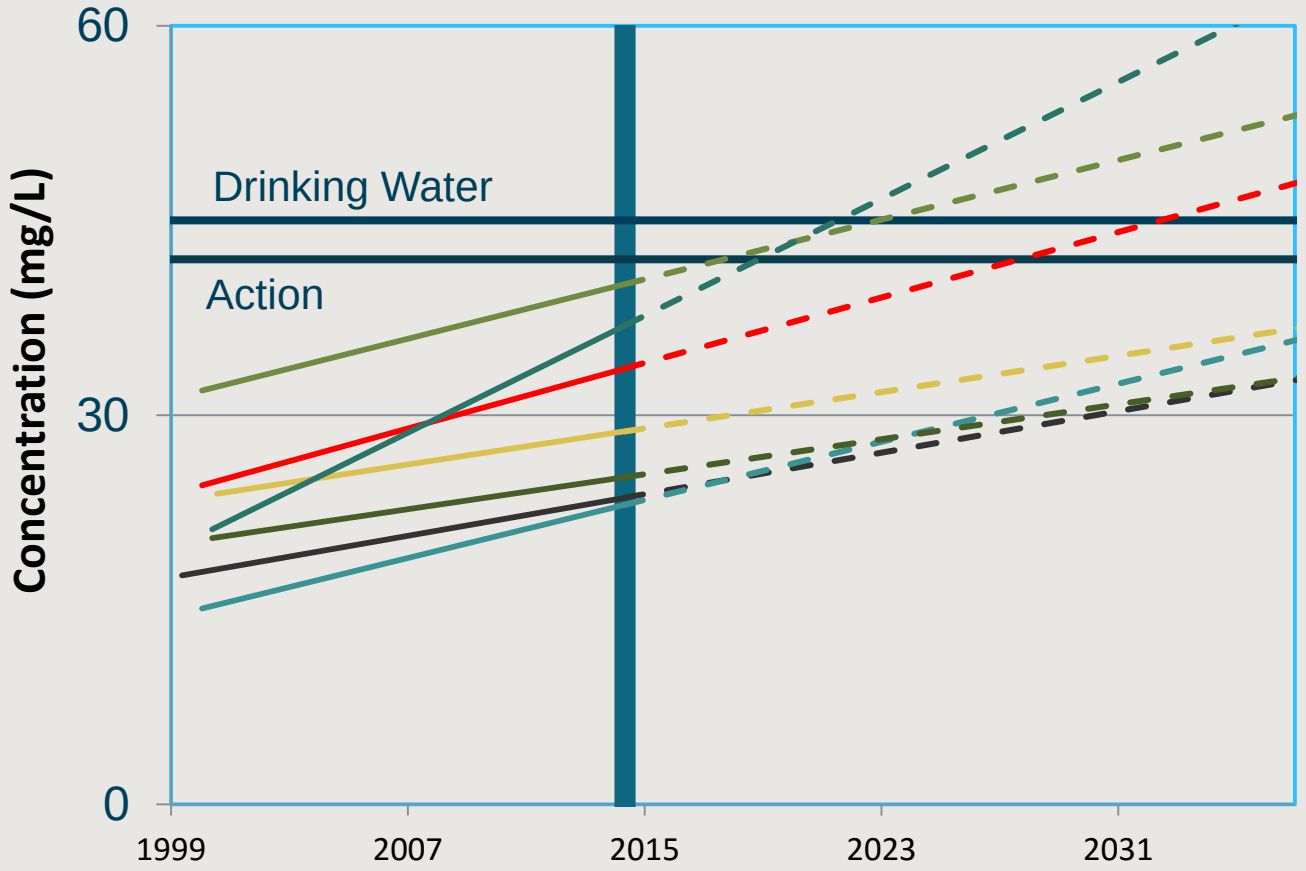
Water Supply Issues



Woodland Aging Well System



City of Davis Well Nitrate Levels



Well Shutdowns

Well shut downs

Active wells

Under Construction

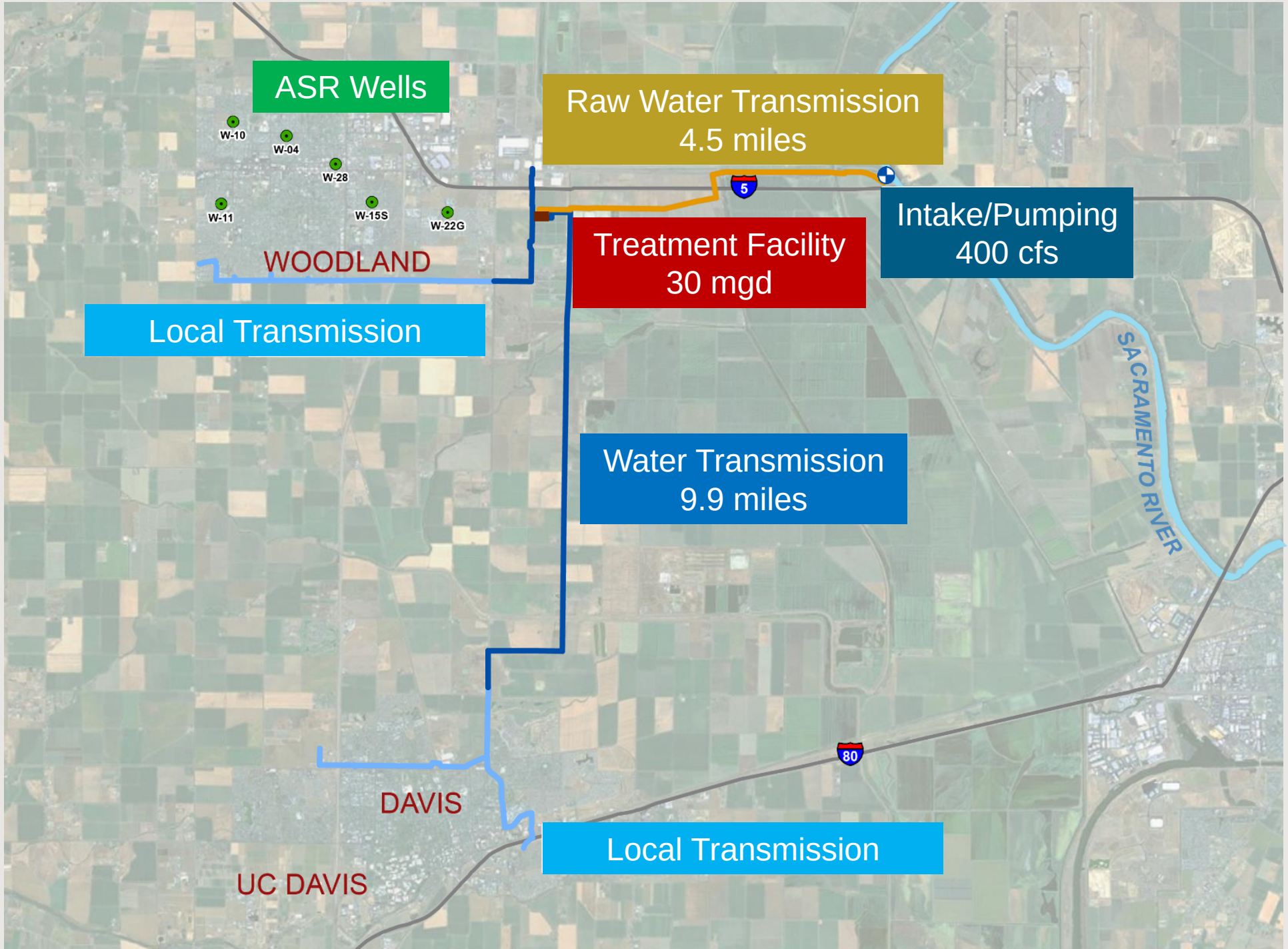
WOODLAND-DAVIS Clean Water Agency

Governing Board:
2 council members from each city
Non-voting representative from UC Davis and Yolo County

FORMED	September 15, 2009
JPA	Davis and Woodland UC Davis a Contracting Agency
Funded	User fees in each city; cost sharing based on capacity allocation

Project Goals and Objectives

Quantity & Quality	Improve water supply quantity and quality
Regulations	Comply with drinking water & wastewater discharge regulatory requirements
Environmental	Provide environmental benefits and minimize impacts
Diversify	Diversify supply portfolio to improve supply reliability
Sustainable GW	Allow sustainable groundwater pumping integrated with ASR wells
Conservation	Integrate water conservation elements


ASR Wells
W-10
W-04
W-28
W-11
W-15S
W-22G
WOODLAND
Local Transmission
Raw Water Transmission
4.5 miles
Intake/Pumping
400 cfs
Treatment Facility
30 mgd
Water Transmission
9.9 miles
SACRAMENTO RIVER
5
80
DAVIS
UC DAVIS
Local Transmission

Project Partners

Intake

Davis-Woodland Water Supply Project

Reclamation District 2035

City of Davis

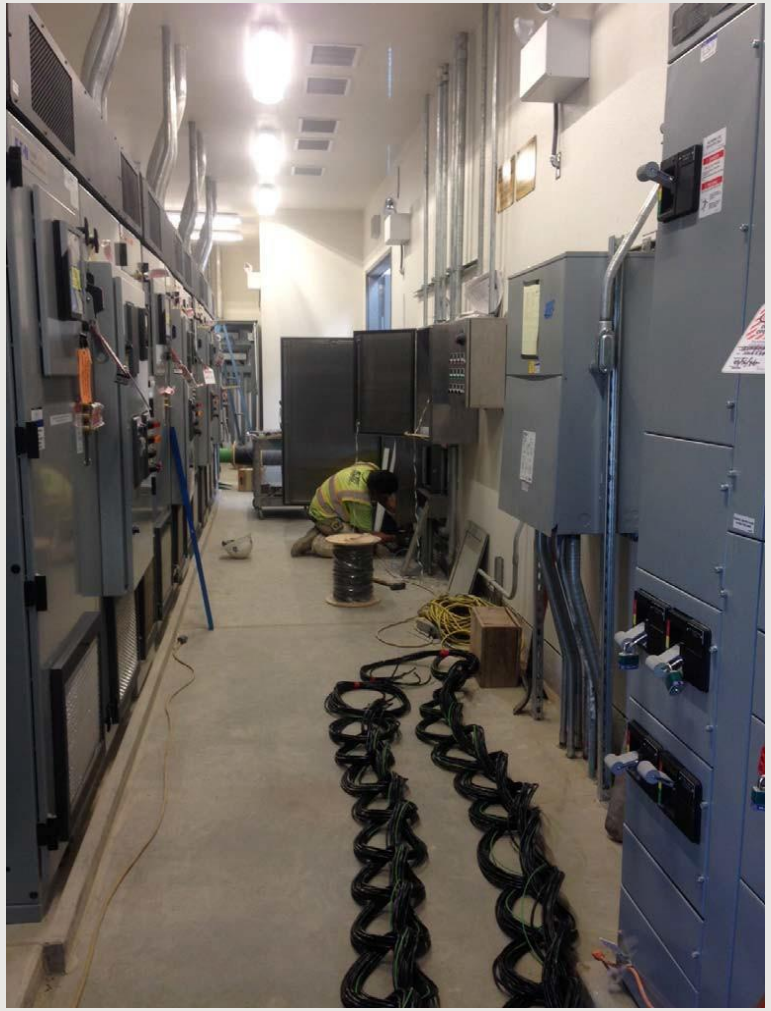
City of Woodland

UC DAVIS
UNIVERSITY OF CALIFORNIA

Joint Intake Concept Drawing

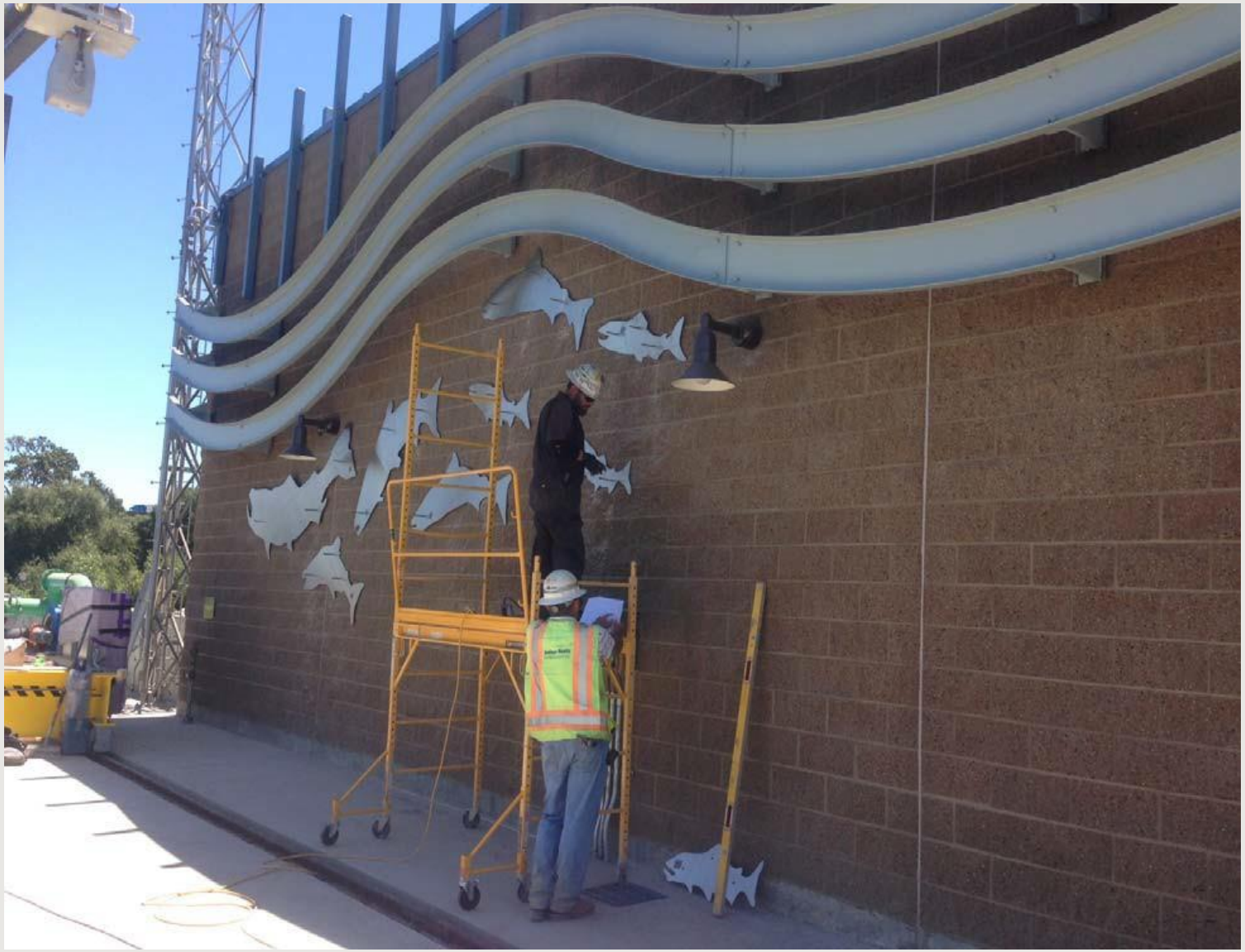
Joint Intake

Raw Water Piping in Pump Room



Joint Intake

Installation of vibration sensors (left), ongoing electrical work (right)



Joint Intake

Architectural work on building exterior

Groundbreaking Ceremony- April 10, 2014

May 2, 2016


CH2MHILL - Davis Woodland Water Supply Project / Photo by Multivista / San Francisco
Slideshows - May 2 2016 - P

Presentation Overview

Surface Water Project Overview

Project Delivery Method

Water Rights & Operations

Budget and Schedule

Delivery Methods Selected

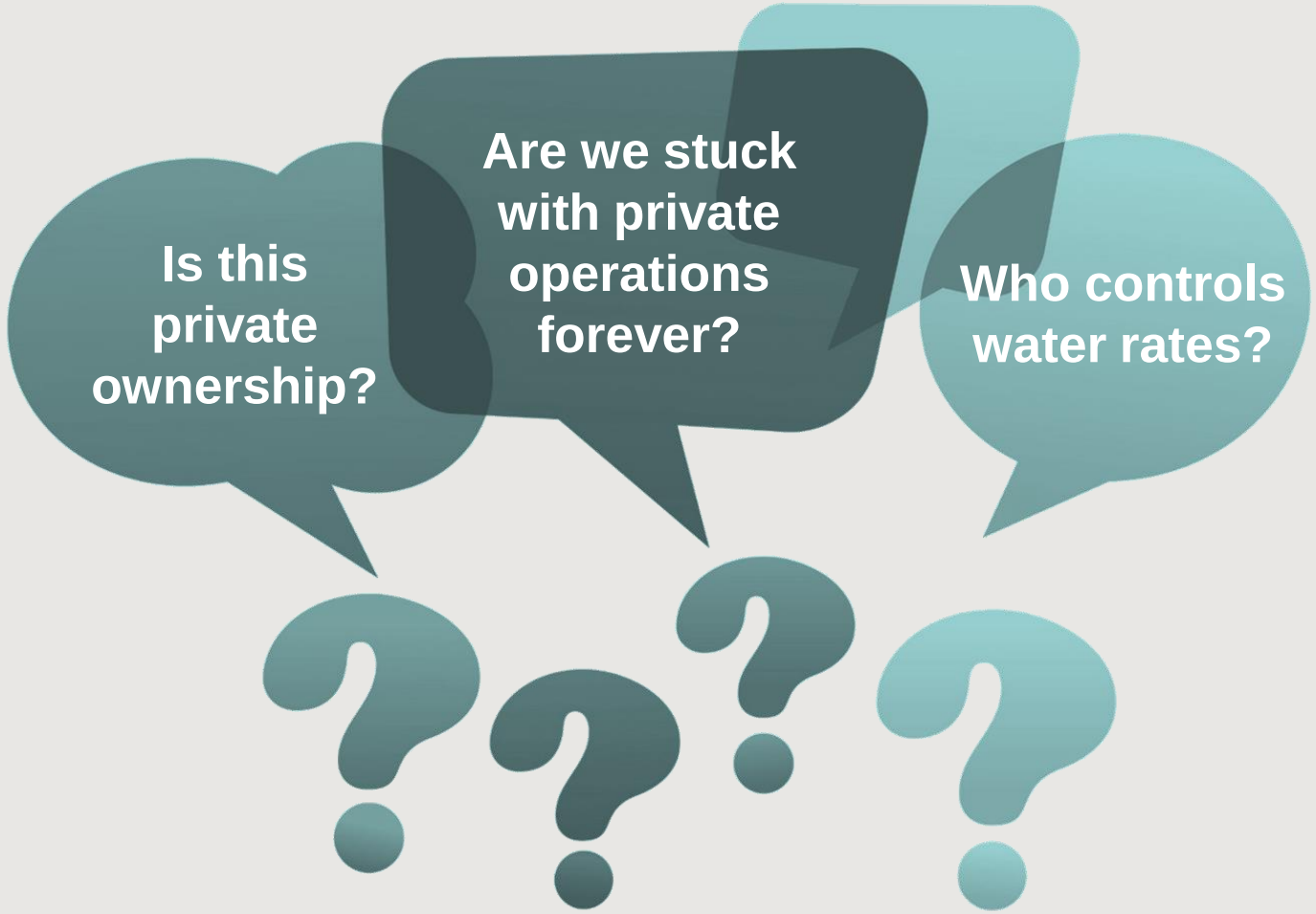
Design-Build-Operate

- Treatment Plant & Transmission Pipelines

Design-Bid-Build:

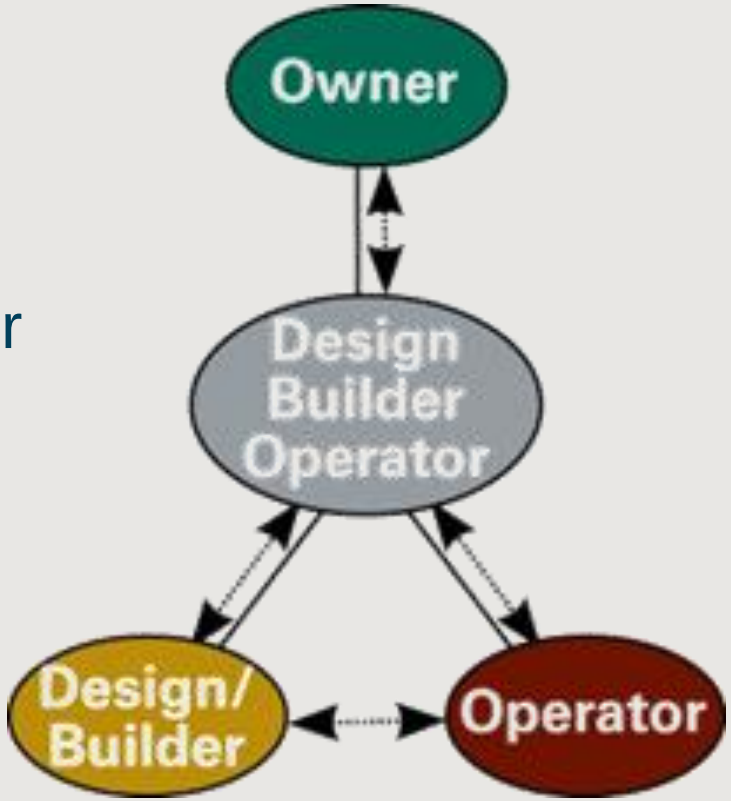
- Intake
- City distribution pipelines

Design-Build-Operate
Initial DWWSP Concerns



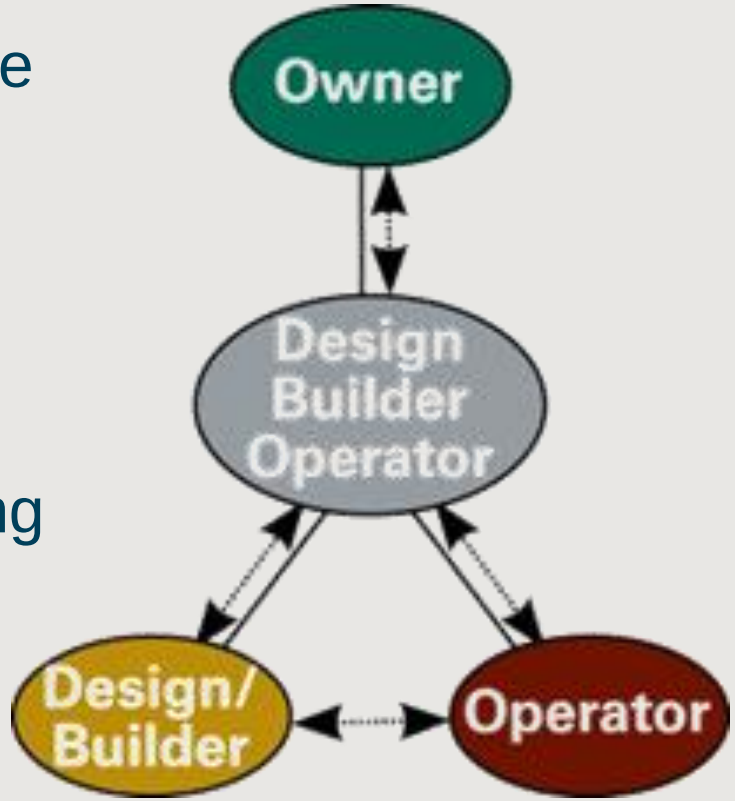
DBO is NOT…

- Private ownership
- Establishment or control of water rates
- Private determination of customer water quality
- Permanent private operation
- Replacement of city staff



DBO is…

- Guaranteed price for performance
- Cost-effective operations
- Timely project completion
- Facilities repair and replacement program
- Local employment and contracting
- Allocation of risk between public and private



Design-Build-Operate
Benefits to DWWSP

- Faster Delivery
- Life Cycle Cost Savings
- Early Price Certainty
- Opportunity for Innovation
- Collaborative Selection and Negotiation Process
- Singular Responsibility
- Appropriate Allocation of Risk
- Long-Term Operations

Service Contract Items Important to Community

Local employment and contracting

Pre-approval of subcontractors and key personnel

Quality Management Plan

Presentation Overview

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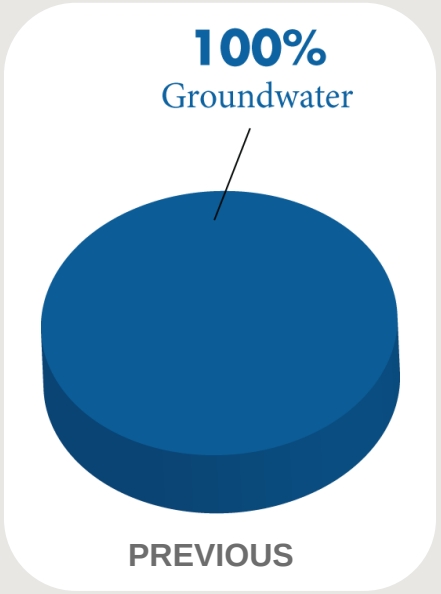
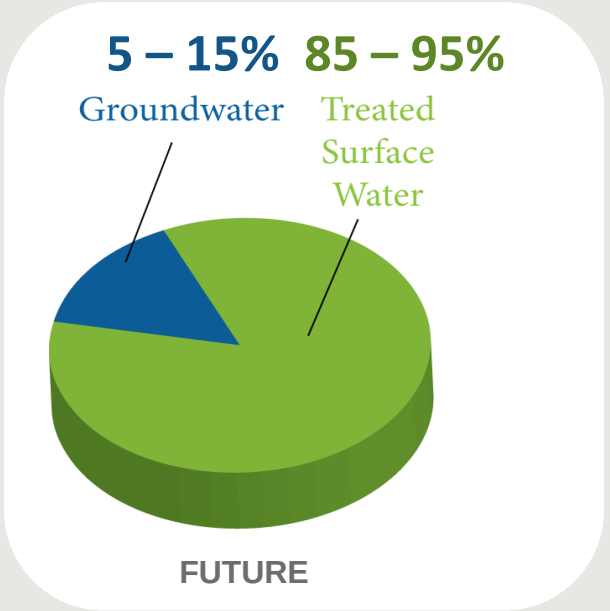
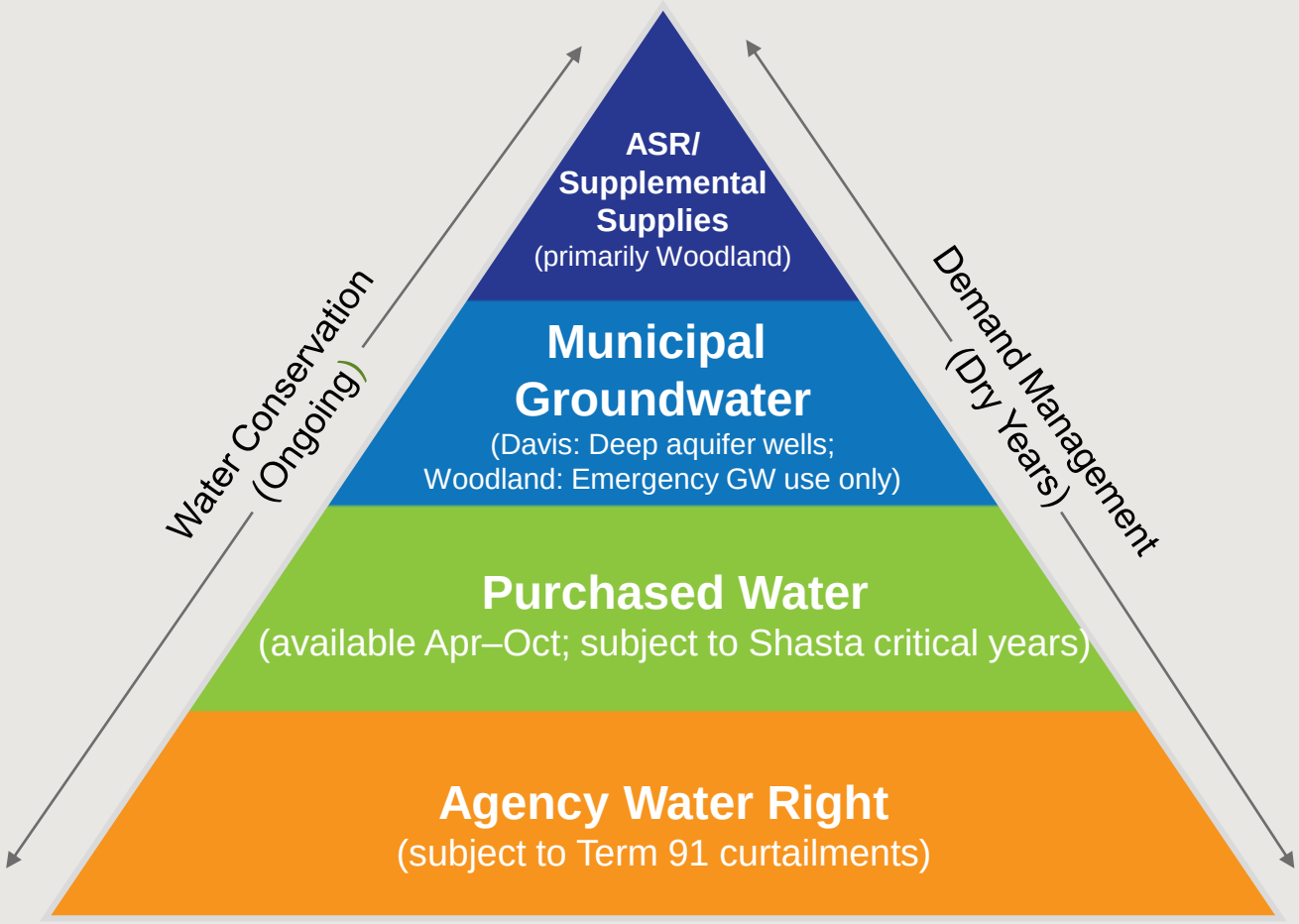
Balancing Supply and Demand

Demands/Plant Sizing | **Supply Yield Analysis** | **Supplemental Supply Sources**





Water Supplies



Presentation Overview

Surface Water Project Overview

Project Delivery Method

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Budget and Schedule

Project Costs – June 2016 (million dollars)

Construction Costs

Project Component	Cost
DBO Contract	145.86
Agency Quality Assurance & Contract Compliance[(a)]	7.52
Joint Intake	17.57
TOTAL	**170.95**

(a) Includes Agency design review, construction quality assurance and contract compliance, submittal and RFI review, environmental construction monitoring, environmental mitigation, Agency permitting and incidental costs.

Capital Costs, 2009-2016

Cost Category	Total	Woodland	Davis	UC Davis
Agency Administration	3.18	1.56	1.47	0.16
Program Management	4.40	2.17	2.05	0.17
Water Supply	1.81	1.29	0.50	0.02
Environmental & Permitting	1.27	0.62	0.60	0.06
Land/ROW Acquisition	4.24	2.00	2.00	0.25
Pre-Design	5.94	3.21	2.51	0.22
Construction	170.95	91.26	68.74	10.94
Capital Contingency	5.19	2.63	2.34	0.22
Costs Expended 2009-2011	7.59	4.02	3.48	0.06
Total Regional Costs	**204.54**	**108.75**	**83.69**	**12.11**
Woodland and Davis Local Facilities	74.70	31.50	35.50	7.70
TOTAL CAPITAL COSTS	**279.2**	**140.2**	**119.2**	**19.8**

Project Funding

Intake

Federal/State Grants

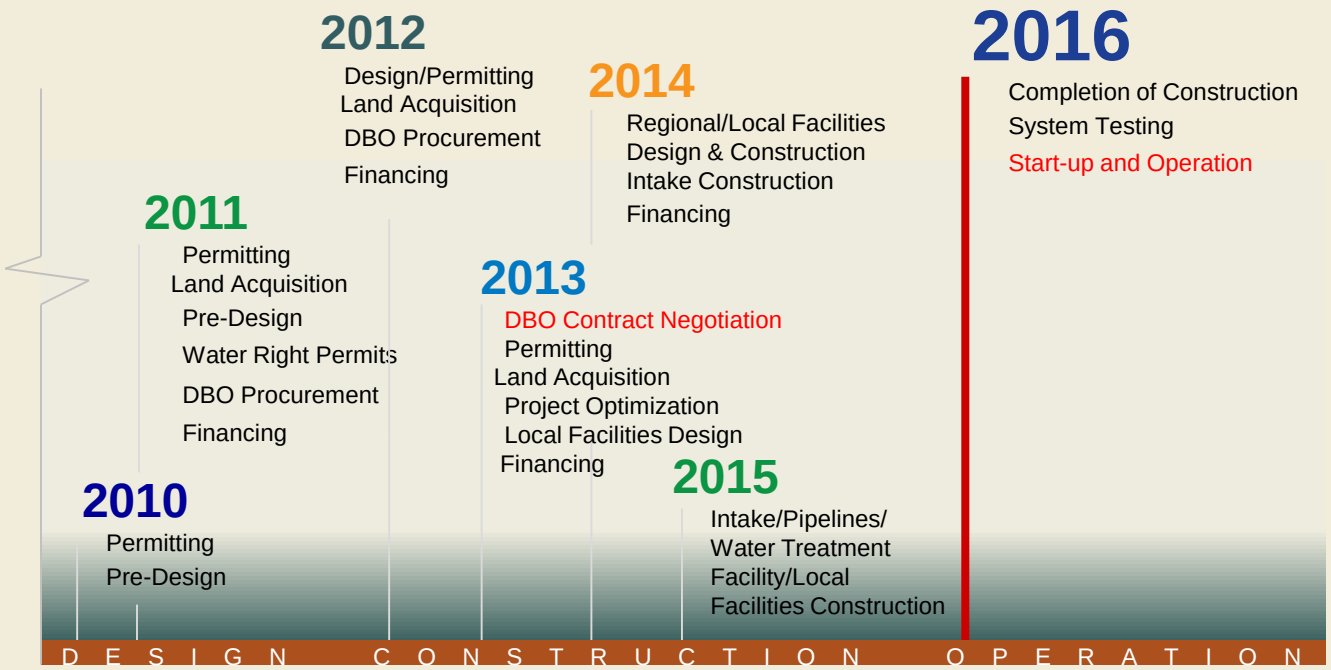
- $40.2M obtained ($20.1M each)
- Local WDCWA Share

Project

State Revolving Fund Loans

- Wastewater Nexus
- Safe Drinking Water and Clean Water SRF loan programs
- $274M of SRF loans secured

Project Implementation Schedule
2010-2016



Schedule Milestones

Task	Completion By
Begin Initial Water Deliveries to Cities	Early June 1 2016
Completion of Acceptance Test and Commencement of Operations Period	June 29, 2016
Begin deliveries of raw water through Joint Intake Facility	September 2016
Substantial Completion of Joint Intake Facility	December 2016

Updated: 9/14/16

Dedication and ribbon cutting ceremony at the new RWTF – July 28, 2016

Joint Intake Dedication Ceremony
September 13, 2016

Operations

- Currently delivering ~ 12 mgd of treated surface water:
  - Woodland: ~ 6 mgd
  - Davis: ~ 6 mgd
- Meeting all regulatory and contract drinking water requirements
- CH2M working to optimize process operations

Questions