

City of Woodland

**SUSTAINABILITY ADVISORY COMMITTEE
SPECIAL MEETING
MEETING MINUTES – MAY 19, 2021
VIA TELECONFERENCE**

1. Call to Order

The meeting was called to order at 6:04 p.m.

2. Roll Call

Members Present: Mark Aulman, Liza Grandia, Rolf Frankenbach, Allison Martin, Catalina Munoz, Adelita Serena (joined 6:40 p.m.), Sara Schremmer, Raul Tadle

Absent: Robert Ullrey

Staff Present: Matthew Cohen, Stephen Coyle, Rosie Ledesma, Ken Loman, Sayetsi Sanchez

3. Public comment

There was no public comment.

4. Member reports (Information Item)

Tadle: Raul reported that he met with City Fleet and Facilities Manager Troy Thompson and Ken Loman regarding fleet electrification. He noted that the City has a point system to track when vehicles are ready for replacement and that a potential role for the committee would be to assist with research into policy options to support further fleet electrification.

Martin: Allison reported that she has a tentative meeting set with the City's new Communications Manager and Environmental Services staff to discuss opportunities for publicizing the City's sustainability efforts. She also is volunteering to lead a "coastal cleanup" day in the City and will discuss that at the meeting as well.

Frankenbach: Rolf reported that he is working with Mark on developing a heat island map for the City, and that the Woodland Tree Foundation is working to secure a grant from California ReLeaf to plant trees in identified heat island areas that have excess heat and sun. (Rolf's report included several presentation slides that are attached).

Schremmer: Sara reported that the Carbon Neutrality by 2040 transportation study she has previously mentioned is finished and includes some interesting policy recommendations. The report is available at: <https://www.ucits.org/research-project/2179/#:~:text=Project%20Description%3A%20The%20University%20of,accelerating%20the%20use%20of%20alternative>.

Grandia: Liza reported that the Woodland Joint Unified School District's sustainability committee is recruiting new members, and committee members aware of anyone interested should refer them to Liza.

Aulman: Mark reported that he will not be able to attend the next meeting and that Catalina will chair.

There were no other member reports.

5. Staff reports (Information Item)

Ken reported on several ongoing projects:

- The City has received two construction bids for the Crawford Park Rain Garden Project. The low bid was significantly higher than expected, so staff is preparing a supplemental budget request that will likely go to the City Council for approval on June 1st.
- The Water-Wise Landscape Tour will be held virtually from May 24-30 and Water Conservation Coordinator Sayetsi Sanchez has recruited 10 residential yard landscapes and a demonstration garden at the Woodland Community College that will be included with photos, videos, and plant information. The tour will be accessible at <https://waterwisewoodland.weebly.com>.
- This year's Bulky-Waste Drop-Off will be from June 1-30: residents are currently receiving a voucher in the mail that will allow them to take a load of bulky waste to the landfill for free during the month of June.
- The City has applied for 2021 Clean Air Funds Grant from the Yolo-Solano Air Quality Management District for construction of a bike parking area at the regional park under development at the City's decommissioned old landfill and surrounding buffer lands.
- Staff is working with Yolo County to join their contract with a consultant to assist with planning for implementation of the edible food recovery requirements of SB 1383. The consultant will inventory and survey generators of recoverable edible food and food recovery organizations in the county and prepare an analysis of what additional capacity will be required to implement the regulations, as well as serve as a liaison with the Yolo County Food Bank regarding their potential role in that implementation.

Additionally, Rosie provided an update on the City's service as lead agency on a countywide effort to promote reusable 1-pound propane cylinders for outdoor use and to encourage county residents to swap out single-use 1 pound propane cylinders for reusable cylinders. An online questionnaire promoted by the program has received over 1,900 responses and, between in-person events and a mail effort, the program has distributed over 400 reusable propane cylinders.

6. Approve Minutes for April 21, 2021 (Action Item)

On a motion by Raul Tadler, seconded by Allison Martin, and carried on a 5-0 vote, with two abstentions and two absences, committee members approved the minutes for the April 21, 2021 meeting.

Ayes: Aulman, Grandia, Martin, Munoz, and Tadler

Noes: None

Abstentions: Frankenbach, Schremmer

Absent: Serena, Ullrey

7. Presentation by Staff on Water Supply Outlook and Contingency Planning (Information Item)

Staff (Matthew Cohen) gave the committee an overview of the City's water sources, supply outlook, and contingency planning (presentation slides attached).

Highlights of the presentation included an assessment that the City's prior investments in developing more resilient water supplies has put the City in a strong position to weather current drought conditions. This includes two key investments: development of surface water sources through the Woodland-Davis Clean Water Agency (Agency) to replace ground water as the primary source of water and development of a system to inject treated surface water into the aquifer below the City to store water using Aquifer Storage and Recovery (ASR) wells. Because of these investments, the City now has a four-tier water supply system using (1) surface (Agency) water, (2) stored (ASR) water, (3) blended water (surface water and ground water) using special blending wells, and (4) the City's original ground water wells. Additionally, during drought conditions the Agency seeks to purchase additional water rights as needed to meet any potential gaps in demand.

Matt also reported that because of the City's investments in its tiered water supply, the primary effect of a severe shortage of surface water would be a temporary reduction in water quality because the ground water is harder than surface water. He stressed that the City's ground water still exceeds federal water quality standards, as does the Agency's surface water and the water stored through the ASR wells.

Finally, Matt shared that the federal government praises Woodland's water system as an example for developing water supply resilience for recurring drought conditions.

8. Discussion of Ad-hoc Work Group Assignments (Action Item – 20 minutes)

Liza shared that she is stepping back from leadership of the outreach effort and that the Outreach work group will be led by Allison and Adelita.

Mark shared some information on work he has been doing with Rolf to map heat islands in the City and prepare a grant application to support planting trees in some of those areas (slides attached).

9. Discussion of prior presentation by Yolo Climate Emergency Coalition (Information/Action Item – 10 minutes)

Adelita reported that she attended the County sub-committee meeting regarding development of their climate change advisory committee. The County has approved that and information about the committee is on their Web site. She is working to publicize vacancies. She also reported that she met with Supervisor Barajas and briefed him on the coalition's efforts. He indicated he is supportive of the effort and is looking for ways to help, such as reaching out to his volunteers and connections in the area's farming community.

10. Discuss long-range calendar (Information/Action Item)

Mark shared that the June meeting will include a presentation by the Yolo Food Bank.

11. Adjourn

The meeting adjourned at 7:33 p.m.

Item #4, Frankenbach

Tree Planting for Heat Island Mitigation

Sustainability Advisory Committee

Woodland Tree Foundation

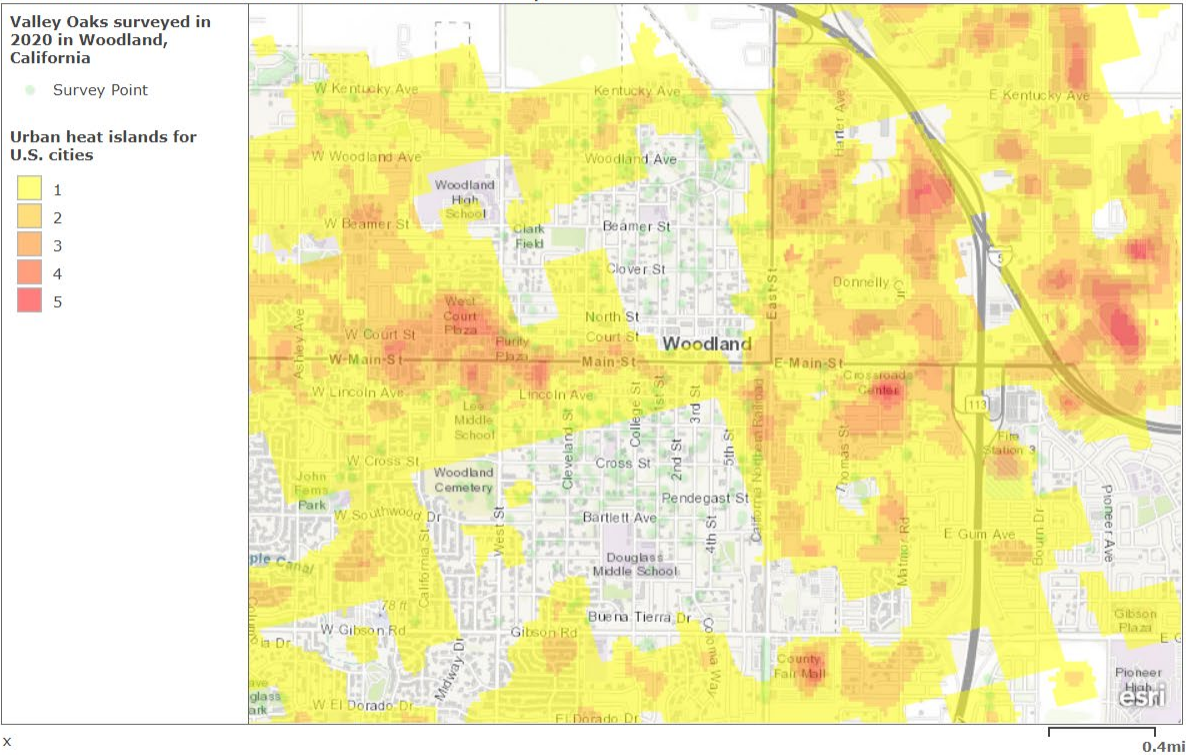
SAC Work Plan Program Element

Increasing Tree Canopy

Identify and prioritize opportunities to plant trees and protect existing trees

1. Identify heat islands in Woodland
2. Prioritize City-controlled sites in phase 1
3. Secure grant funding and implement tree planting

Oak Trees and Urban Heat Islands in Woodland, CA



City of Woodland, County of Sacramento, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA | The Trust for Public Land, Descartes Labs, USGS

Heat Islands in Woodland

Street Survey

- City Hall 1st Street Parking Lot – Phase 1 priority (see photo)
- Hotel Woodland Parking Lot – Phase 1 priority (see photo)
- Beamer Street west of freeway – median
- Industrial area parking lots
- Matmor Rd. and Beamer Street - WJUSD bus parking area
- Washington and Monroe streets – extremely wide street and no street-side planting strips *
- Ace Hardware Parking Lot – open planting islands
- West Court shopping center – vacant cutouts and ample space for more
- Woodland High School – near Bemmerly Way and Beamer Street
- Beamer and Cottonwood streets – SE corner empty parking area

* Conditions applicable to many residential areas with prevailing heat islands



Tree

Tree

Tree

Tree

Tree

Tree

Tree

Tree

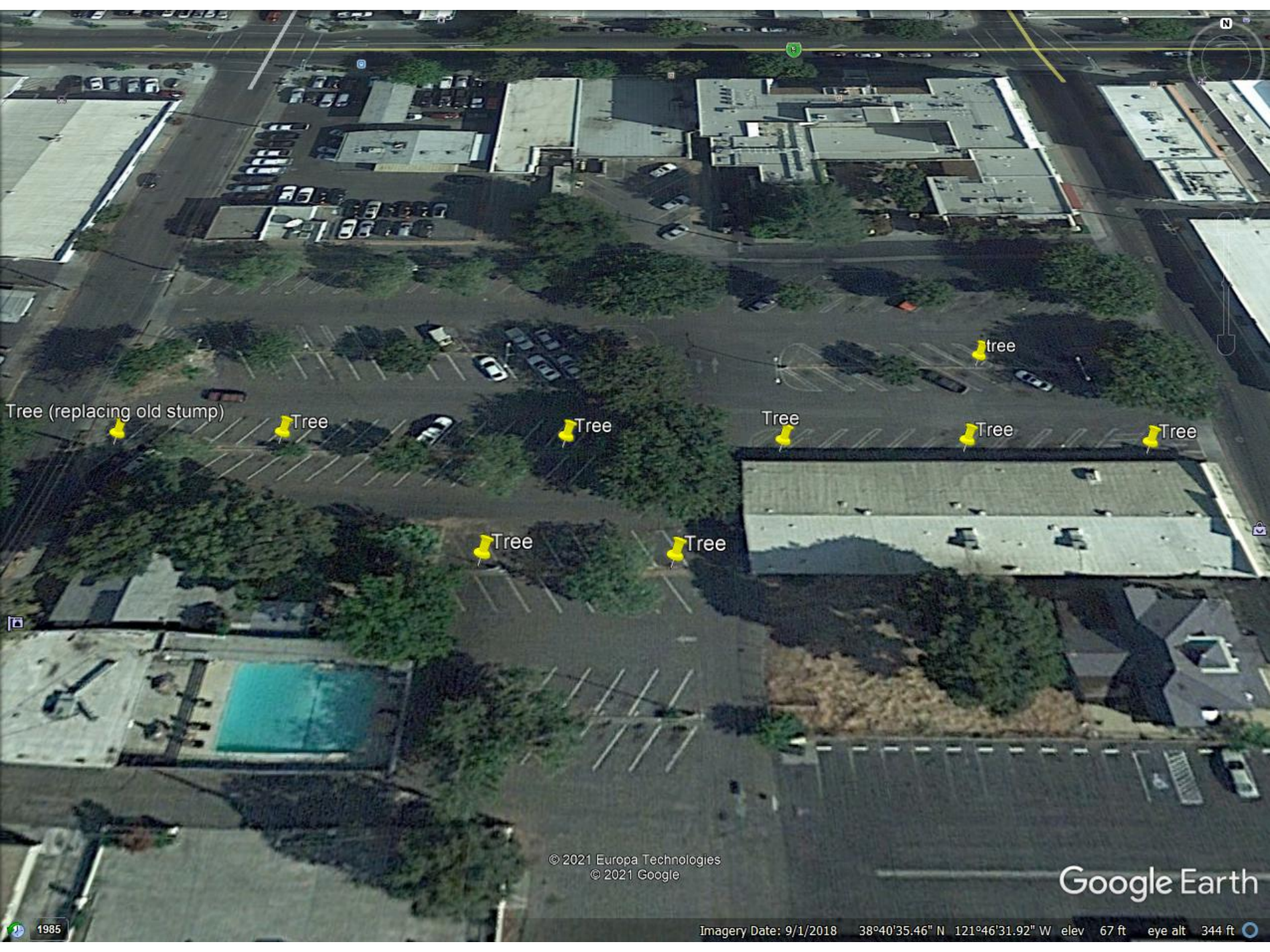
Tree

© 2021 Europa Technologies
© 2021 Google

Google Earth

1985

Imagery Date: 9/1/2018 38°40'42.07" N 121°46'21.11" W elev 64 ft eye alt 465 ft



Tree (replacing old stump)

Tree

Tree

Tree

Tree

Tree

Tree

Tree

tree

© 2021 Europa Technologies
© 2021 Google

Google Earth

1985

Imagery Date: 9/1/2018 38°40'35.46" N 121°46'31.92" W elev 67 ft eye alt 344 ft

Next Steps

- Review with City Manager Meeting conducted on May 11, 2021
- Review by City Departments
- Prepare and submit Cal Fire grant application Woodland Tree Fndn.

Item #7

Sustainability Advisory Committee – Water Planning

May 19, 2021



Presented & Prepared By:

Matt Cohen

Tim Busch

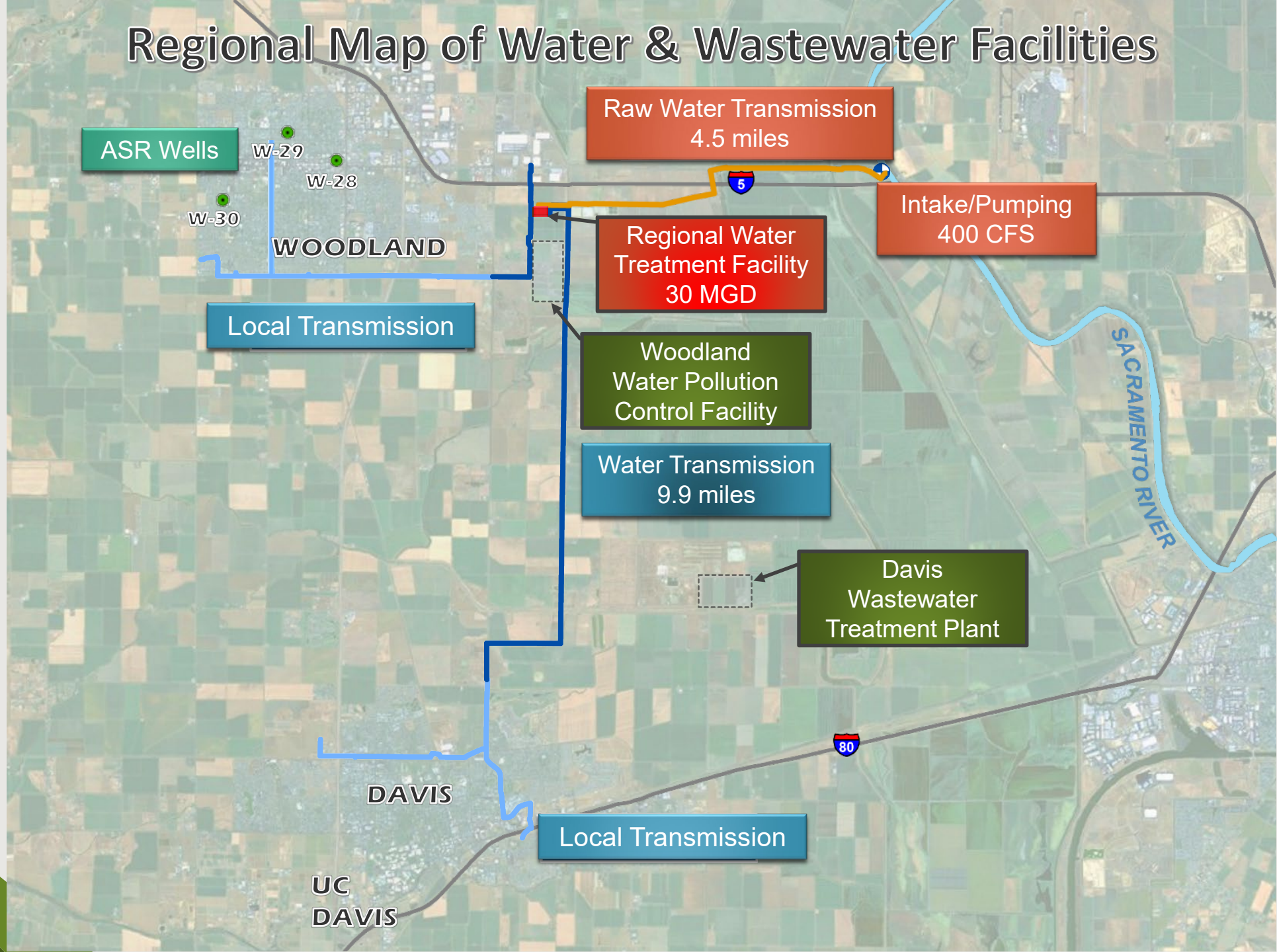
Associate Engineer, City of Woodland

Principal Utilities Civil Engineer, City of Woodland

General Manager, WDCWA



Regional Map of Water & Wastewater Facilities



Woodland Water Quality

Water Quality Parameter	Finished Surface Water (Current Supply)	Groundwater (Former Supply)	Percentage Change
Magnesium (mg/L)	5.4	48.0	89% reduction
Chromium VI (ppb)	0 (non detect)	18	Not Present
Nitrate (as N) (mg/L)	0 (non detect)	5-40	Not Present
Total Hardness as CaCO ₃ (mg/L)	47 (2.8 grains)	382 (22 grains)	87% reduction
Sodium (mg/L)	14	60	77% reduction
Chloride (mg/L)	12	73	84% reduction
Sulfate (mg/L)	5.0	38	87% reduction
Total Dissolved Solids (mg/L)	105	531	80% reduction
Specific Conductance (EC)	160	926	83% reduction
Lead (mg/L)	0 (non detect)	Non detect	Not Present
Alkalinity (mg/L as CaCO ₃)	53	338	84% reduction
Boron (mg/L)	0 (non detect)	2.35	Not Present

Woodland Water Supply Sources

Primary Water Supply
**Sacramento River
Surface Water**

Limits:
Term 91,
Shasta
Critical
Year

Secondary – Tier 1 Backup
**Aquifer Storage
& Recovery Wells**

Limits:
Stored
Capacity

Tertiary – Tier 2 Backup
Blending Wells

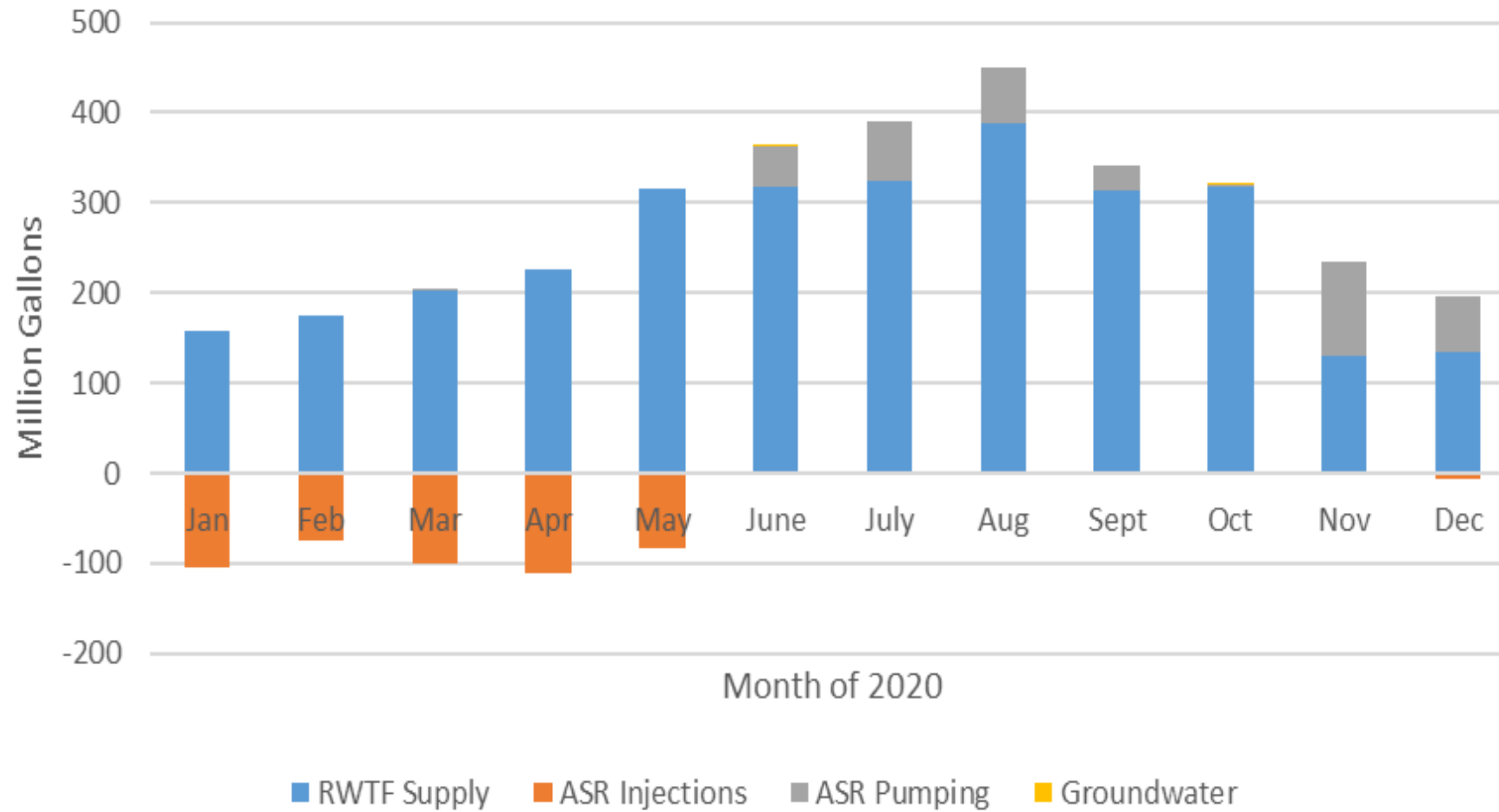
Limits:
water
quality,
hardness

Quaternary – Tier 3 Backup
Groundwater Wells

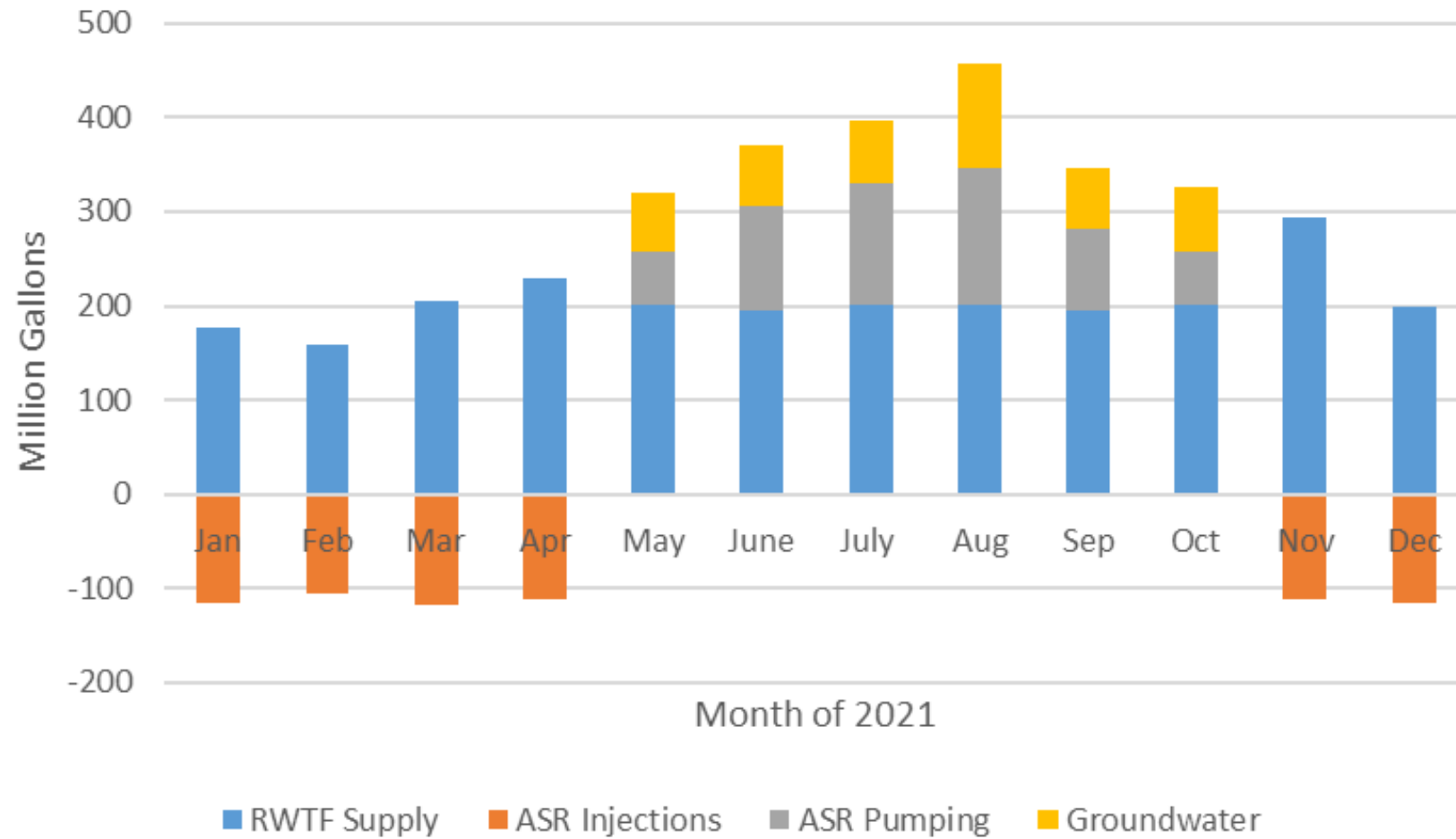
Limits:
water
quality,
hardness



2020 Woodland Water Portfolio



2021 Woodland Projected Water Portfolio



Recycled Water Utility

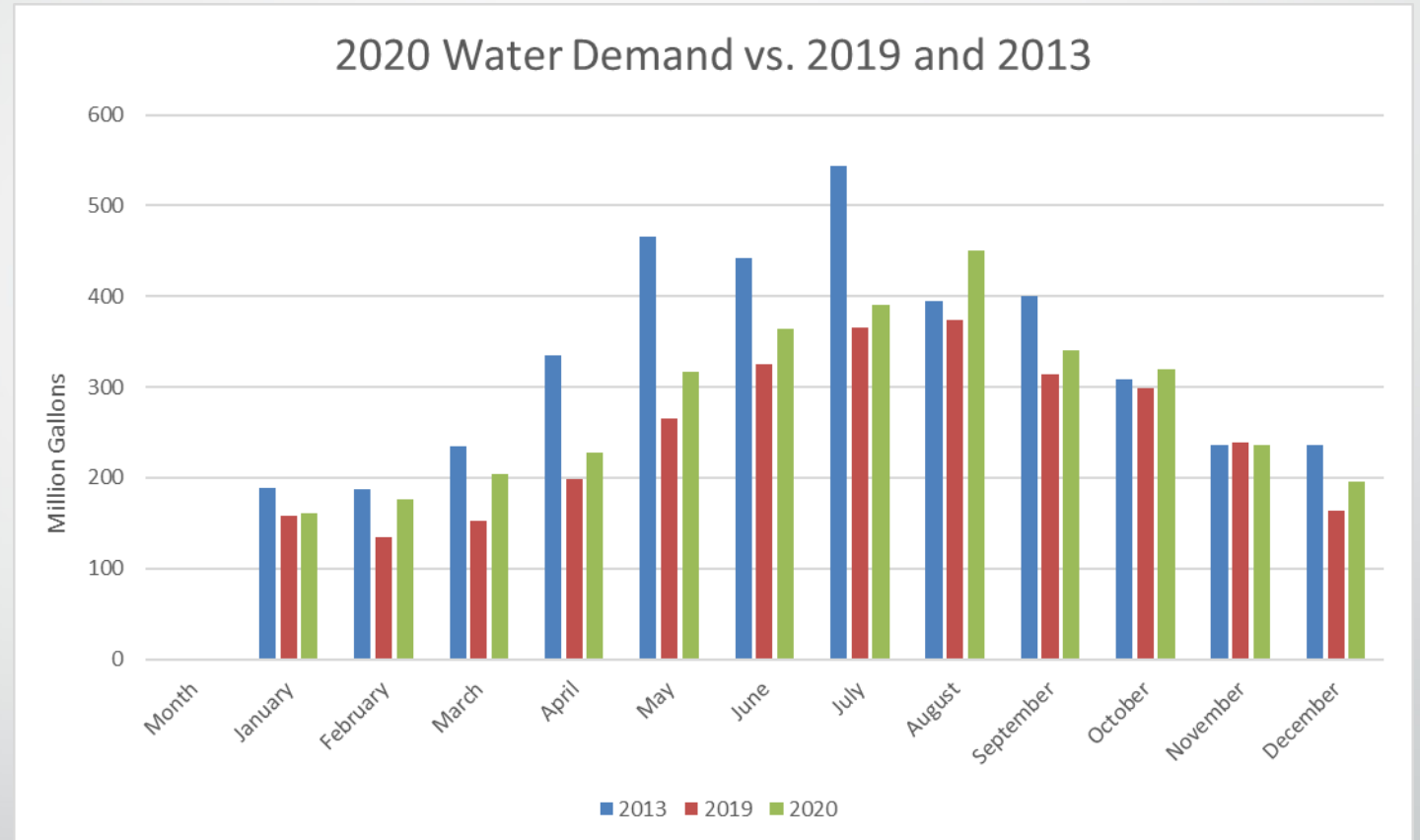
City of Woodland

- Approximately 0.5 MGD
- Industrial – power plant
- Landscape irrigation – parks
- Planned expansion for landscape irrigation



Water Conservation

- Fully Metered – AMI
- Recycled Water Utility
- Aquahawk & Water Conservation Team
- Water Rates
- SB X7-7 (Water Conservation Act) required 20% reduction in urban water per capita use by 2020.
 - 1995 – 2005 Baseline water demand = 290 gal/person per day (GPCD)
 - Goal: 232 GPCD
 - 2020 Actual: 152 GPCD



Urban Water Management Plan (UWMP) & Water Shortage Contingency Plan (WSCP)

- UWMP Public Draft Available:
www.cityofwoodland.org/2020UWMPpublicdraft
- June 1st Public Hearing at City Council Meeting
- WSCP – 6 stages now but not intending to implement them this year
 - Currently in Stage 1: 10% voluntary reduction
- Focused on water supply
- Preemptive Public Messaging
 - Conservation improves water quality



Water Resiliency & Climate Change Adaptation

Woodland-Davis Clean Water Agency,
California



Sacramento River joint water new and old water intake facilities

The Woodland-Davis Clean Water Agency (WDCWA) is a joint powers authority responsible for managing a sustainable, high-quality water supply for the City of Woodland, City of Davis, and UC Davis. WDCWA has faced extreme drought conditions in recent years. With projections of increased temperatures and decreased precipitation, WDCWA could see lower reservoir levels and continued curtailments of surface water flows. WDCWA is taking action to improve its overall resilience, including installing automated meters, implementing a purchase agreement for 2,000 acre-feet of additional water, and building three aquifer storage and recovery (ASR) wells. Using the results of the CREAT assessment, WDCWA was able to evaluate the performance and costs of several drought management strategies that, if implemented, could further strengthen the operational resilience of the system.

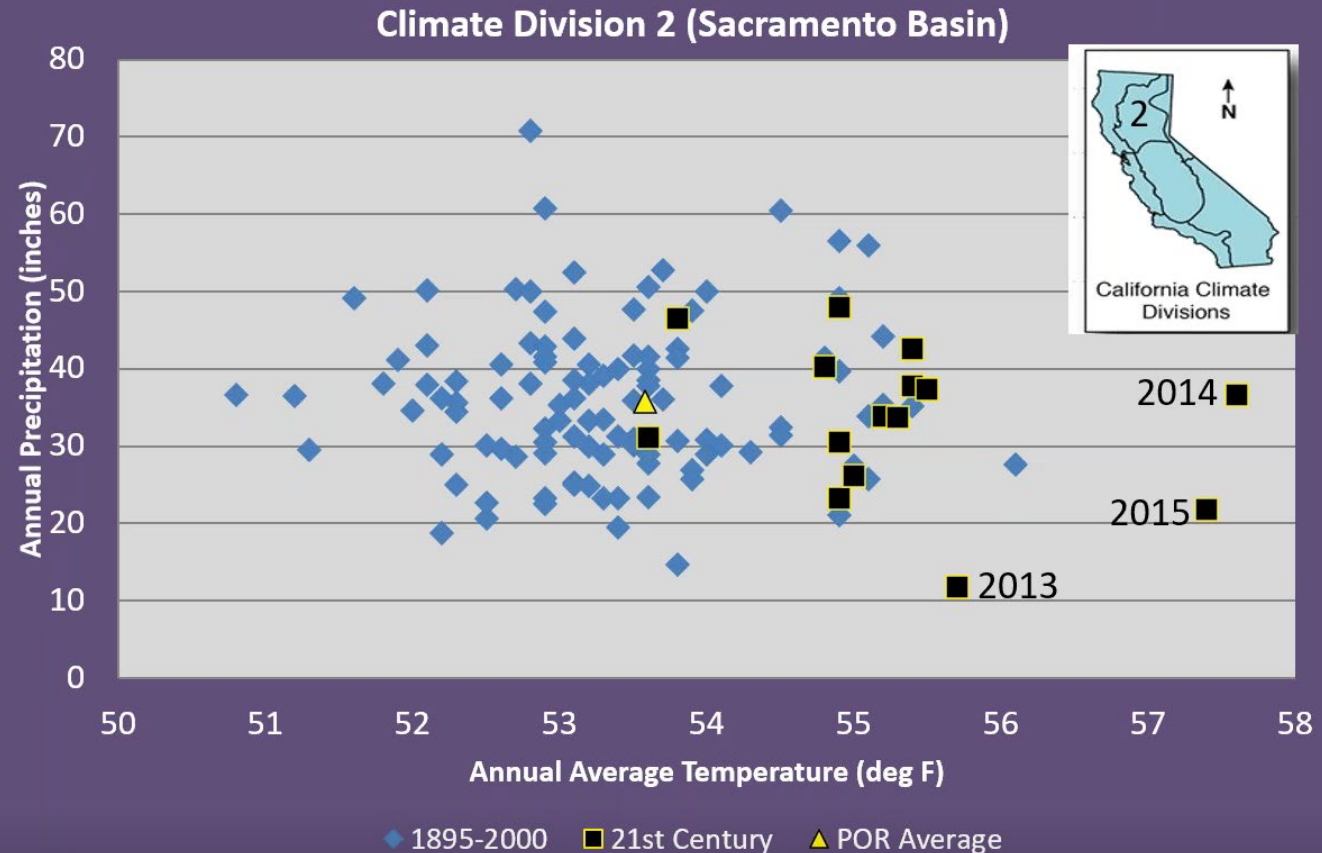
[Read more information](#)

Utility type: Drinking Water

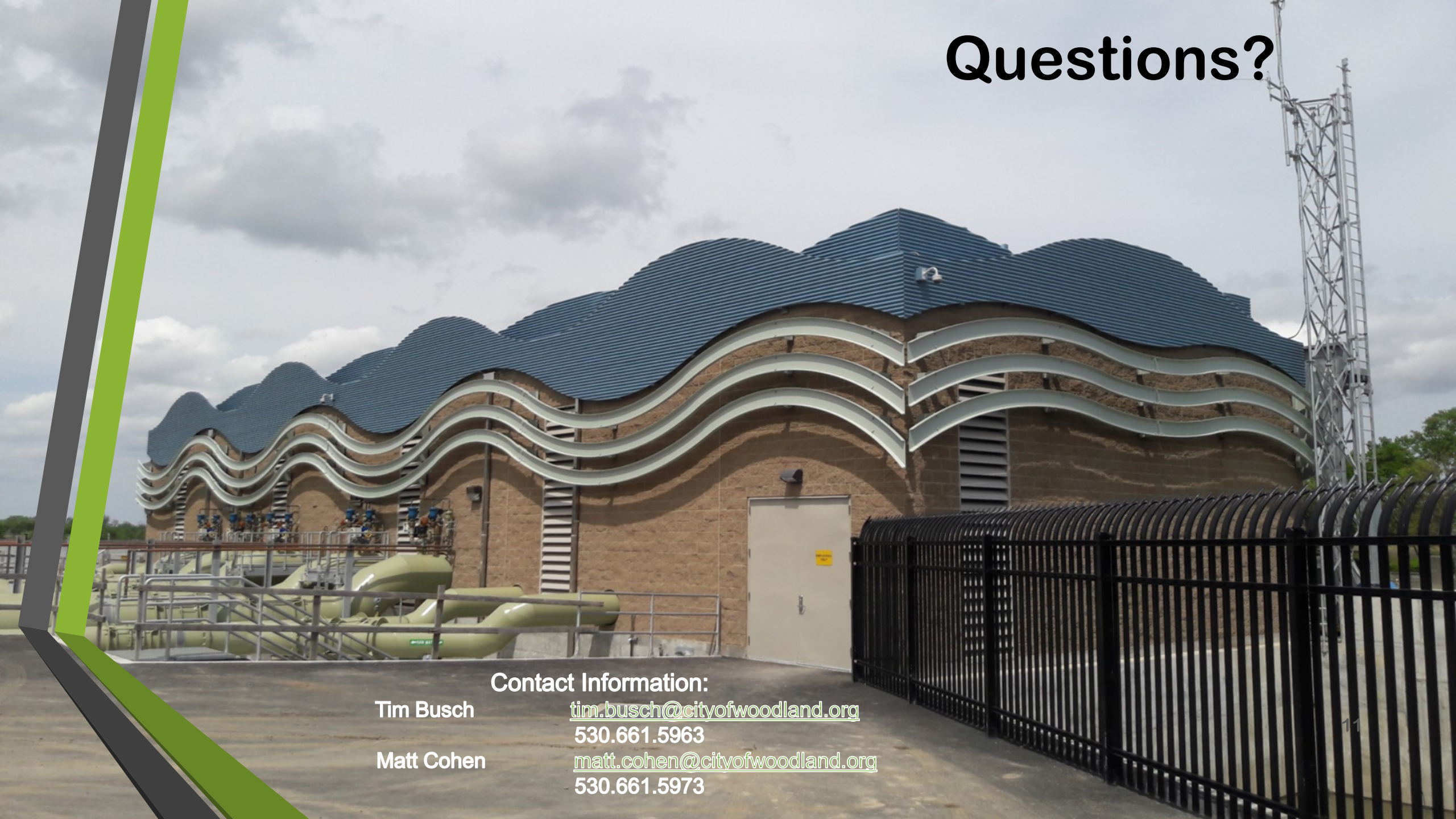
Threats Addressed: Drought

Adaptive Measures Used: Additional Water Sources and Interconnections, Conservation Measures, Metering Upgrades

The Drought, *Last Time* (2015): Hot and Dry



Questions?



Contact Information:

Tim Busch

tim.busch@cityofwoodland.org

530.661.5963

Matt Cohen

matt.cohen@cityofwoodland.org

530.661.5973