



**AGENDA
REGULAR WORKSHOP OF THE
BOARD OF DIRECTORS**

**WEDNESDAY, OCTOBER 4, 2023
10:00 A.M. PACIFIC TIME**

**AGENCY HEADQUARTERS
BOARD ROOM
6075 KIMBALL AVENUE, BUILDING A
CHINO, CALIFORNIA 91708**

**THE BLACKSTONE
LOBBY
636 SOUTH MICHIGAN AVENUE
CHICAGO, ILLINOIS 60605**

**VIEW THE MEETING LIVE ONLINE AT IEUA.ORG
TELEPHONE ACCESS: (415) 856-9169 / Conf Code: 169 113 791#**

The public may participate and provide public comment during the meeting by joining in-person or by calling the number provided above. Comments may also be submitted by email to the Board Secretary/Office Manager Denise Garzaro at dgarzaro@ieua.org prior to the completion of the Public Comment section of the meeting. Comments will be distributed to the Board of Directors.

CALL TO ORDER OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF DIRECTORS WORKSHOP

FLAG SALUTE

PUBLIC COMMENT

Members of the public may address the Board on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to email the Board Secretary/Office Manager prior to the public comment section or request to address the Board during the public comments section of the meeting. Comments will be limited to three minutes per speaker. Thank you.

ADDITIONS TO THE AGENDA

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

PRESENTATION

- **NATIONAL WATER RESEARCH INSTITUTE UPDATE – NWRI Executive Director Kevin Hardy**

1. WORKSHOP ITEMS

A. **MAKING CONSERVATION A CALIFORNIA WAY OF LIFE (POWERPOINT)**

B. **CHINO BASIN PROGRAM UPDATE (POWERPOINT)**

2. GENERAL MANAGER'S COMMENTS

3. BOARD OF DIRECTORS' REQUESTED FUTURE AGENDA ITEMS

4. DIRECTORS' COMMENTS

ADJOURN

Declaration of Posting

I, Denise Garzaro, CMC, Board Secretary/Office Manager of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency's website at www.ieua.org at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary at (909) 993-1736 or dgarzaro@ieua.org, 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

**WORKSHOP
ITEM**

1A



Making Conservation a California Way of Life

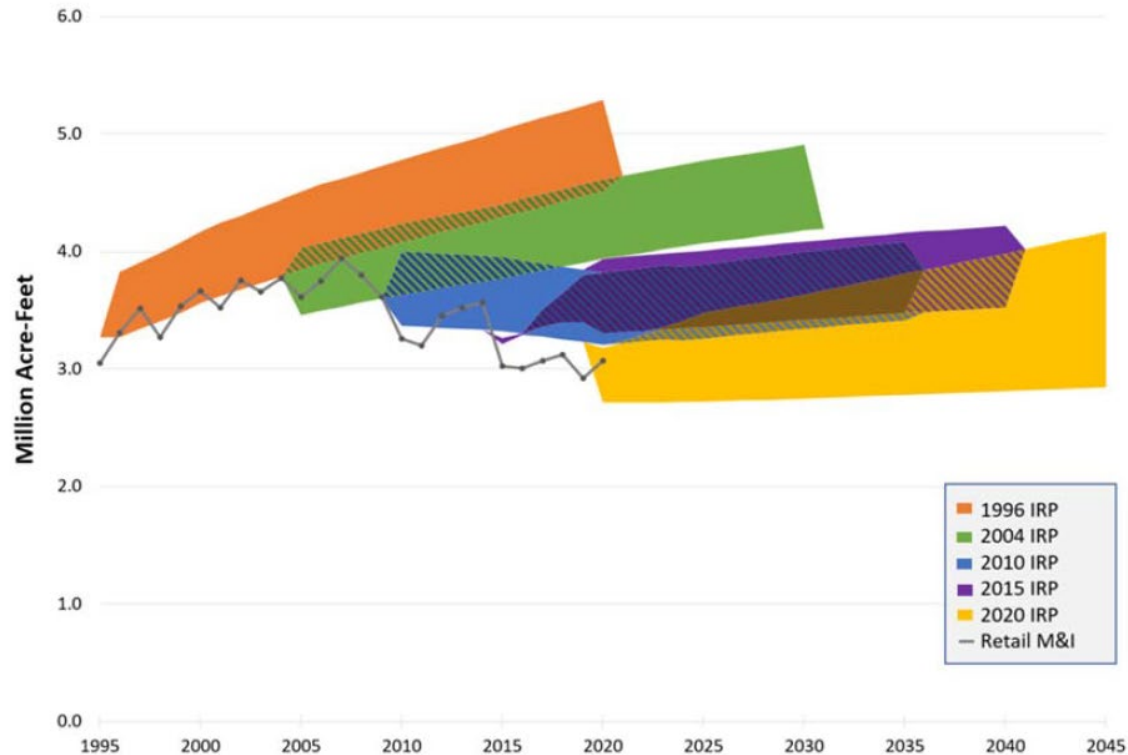
Draft Water Use Efficiency Regulations and Potential Impacts on Regional Water Demands

Cathleen Pieroni
Acting Water Resources Manager
October 2023

Estimating Future Demands is an Iterative Process

MWD's Forecasting Factors in Local Agency Forecasts

Figure 1-3: Evolution of IRP Retail M&I Demand Forecast Range and Observed Historical Demand

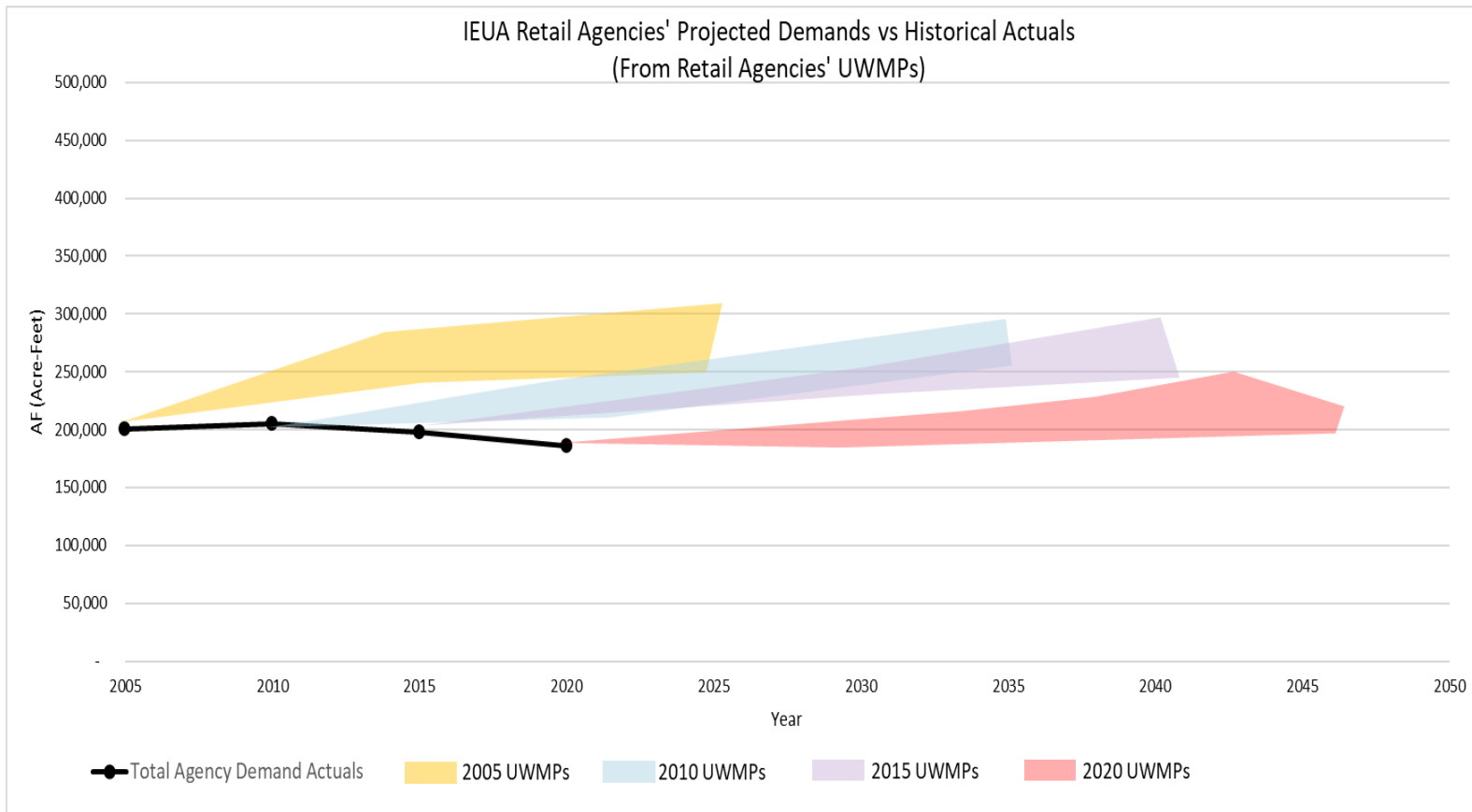


IRP = Integrated Water Resources Plan

M&I = Municipal and Industrial

- Assess gaps in demands and supplies
- Iterative process to determine most recent trends factoring in new external drivers (regulations, laws, climate change, etc.)
- Respond accordingly

Importance of “Right-Sizing” Estimated Future Demands

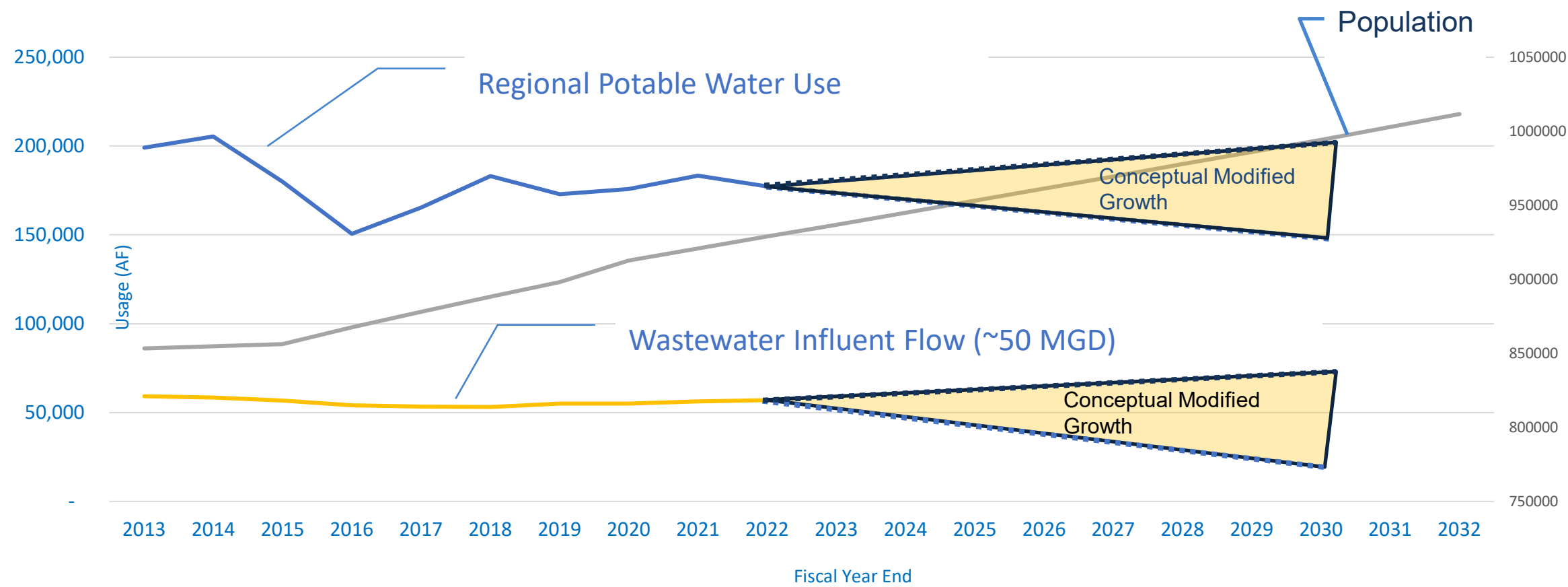


IEUA periodically calibrates anticipated future regional water demands for 4 main reasons:

1. Provide Information for Metropolitan's Planning Processes
2. Update IEUA assumptions for future wastewater flows
3. Update IEUA assumptions for recycled water production
4. Provide Information for Watermaster's Planning processes

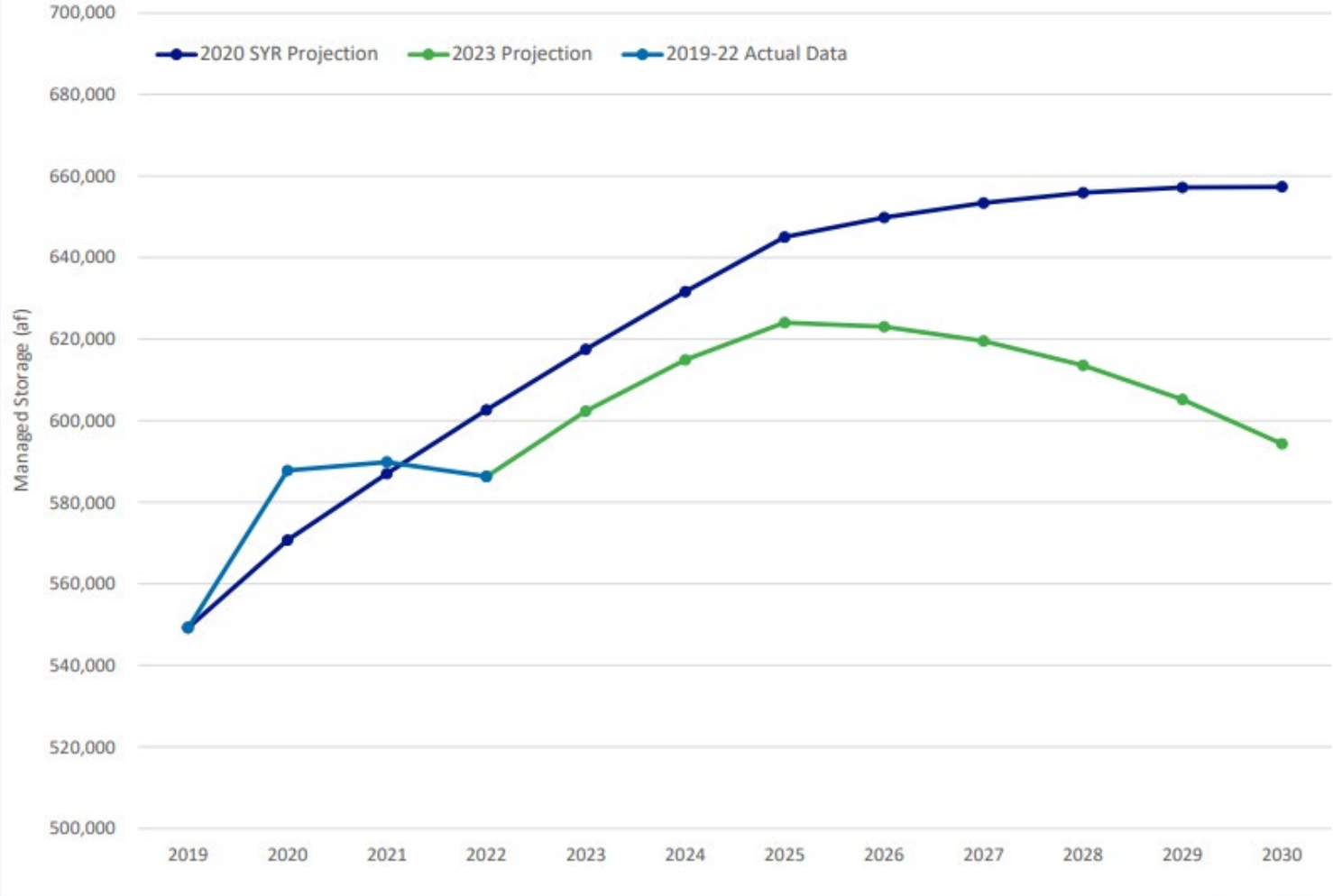
UWMP = Urban Water Management Plan

Reductions in Indoor Use Impacts Influent Flows



MGD= million gallons per day

Figure 6-1. Comparison of 2019-22 Actual Data and Projected Managed Storage in the Chino Basin, FY 2019-2030



Reductions in Outdoor Water Use

Could have Impacts on Deep Infiltration of Precipitation and Applied Water (DIPAW) in the Chino Basin

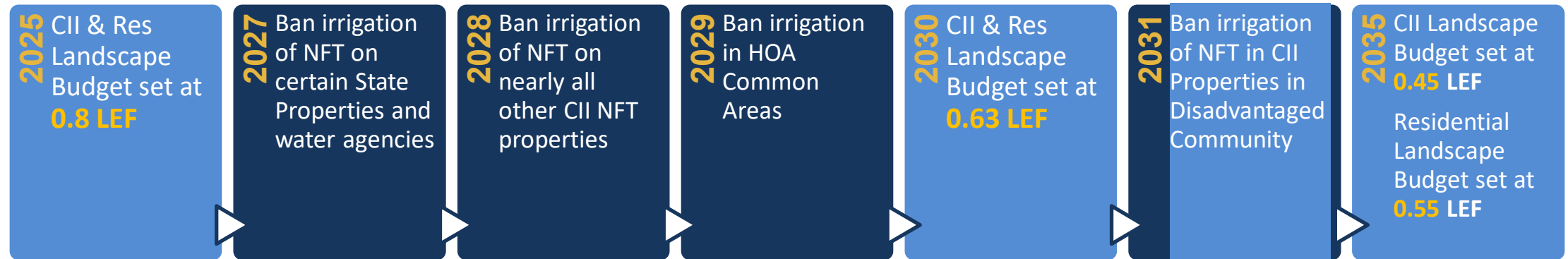
Draft Conservation Regulations and AB 1572

Draft Conservation Regulations Released by State Water Resources Control Board (State Board) on August 18, 2023

- Based on SB 606/AB 1668 (2018)
- Regulations expected to be finalized in 2024
- Reduces **Landscape Efficiency Factors (LEFs)** through 2035

AB 1572 (Friedman) Would ban the irrigation of non-functional turf with potable water supplies on CII properties

- On the Governor's Desk
- Phases in ban on CII **Non-Functional Turf (NFT)**
- Enforcement mechanism is permissive (*"public water system, city, county, or city and county may enforce the provisions of this chapter"*)



CII = Commercial, Industrial, Institutional

Requirements of Draft Conservation Regulation

The **Urban Water Use Objective** is a total water budget, in gallons per capita per day (GPCD), that is the sum of efficiency budgets for a subset of urban water uses that include:



WUO = Water Use Objective

Proposed CII Performance Measures

Jan. 1, 2025	July 1, 2025	20% by 2026 + 60% by 2028 + 100% by 2030
<ul style="list-style-type: none">• Identify all disclosable buildings in suppliers' service areas (> 50,000 SF)	<ul style="list-style-type: none">• Ban the irrigation of non-functional turf on CII landscapes	<ul style="list-style-type: none">• Classify all CII customers in accordance with ENERGY STAR Portfolio Manager's Categories (19)• Identify all CII large Landscapes that have mixed-use meters and either install dedicated irrigation meters or employ in-lieu technologies for large landscapes (500,000 gallons +)• Design and implement a conservation program for customers at or above the 80th percentile for water use in each classification category that includes a best management practice for five categories: outreach, technical assistance and education, incentive, landscape, collaboration and coordination, operational.

State Board Enforcement Timeline

January 1, 2024
(FY 2022/23 Water Use)

- The State Board may issue **informational orders** pertaining to water production, water use and water conservation to an urban retail supplier that does not meet its Urban Water Use Objective (WUO)

January 1, 2025
(FY 2023/24 Water Use)

- The State Board may issue **written notices** to an urban retail supplier that does not meet its WUO. May request that the supplier address areas of concern in its next annual report.

January 1, 2026
(FY 2024/25 Water Use)

- The State Board may issue a **conservation order** to an urban supplier that does not meet its WUO

November 1, 2027

- The State Board may impose **civil liabilities (fines)** for a violation of the regulation

SWRCB Estimates Impact of Draft Regulations on IEUA Agencies

– If 2035 Standards were Applied to 2020 Potable Demands, Regional Budget at 30 TAF/Year Lower

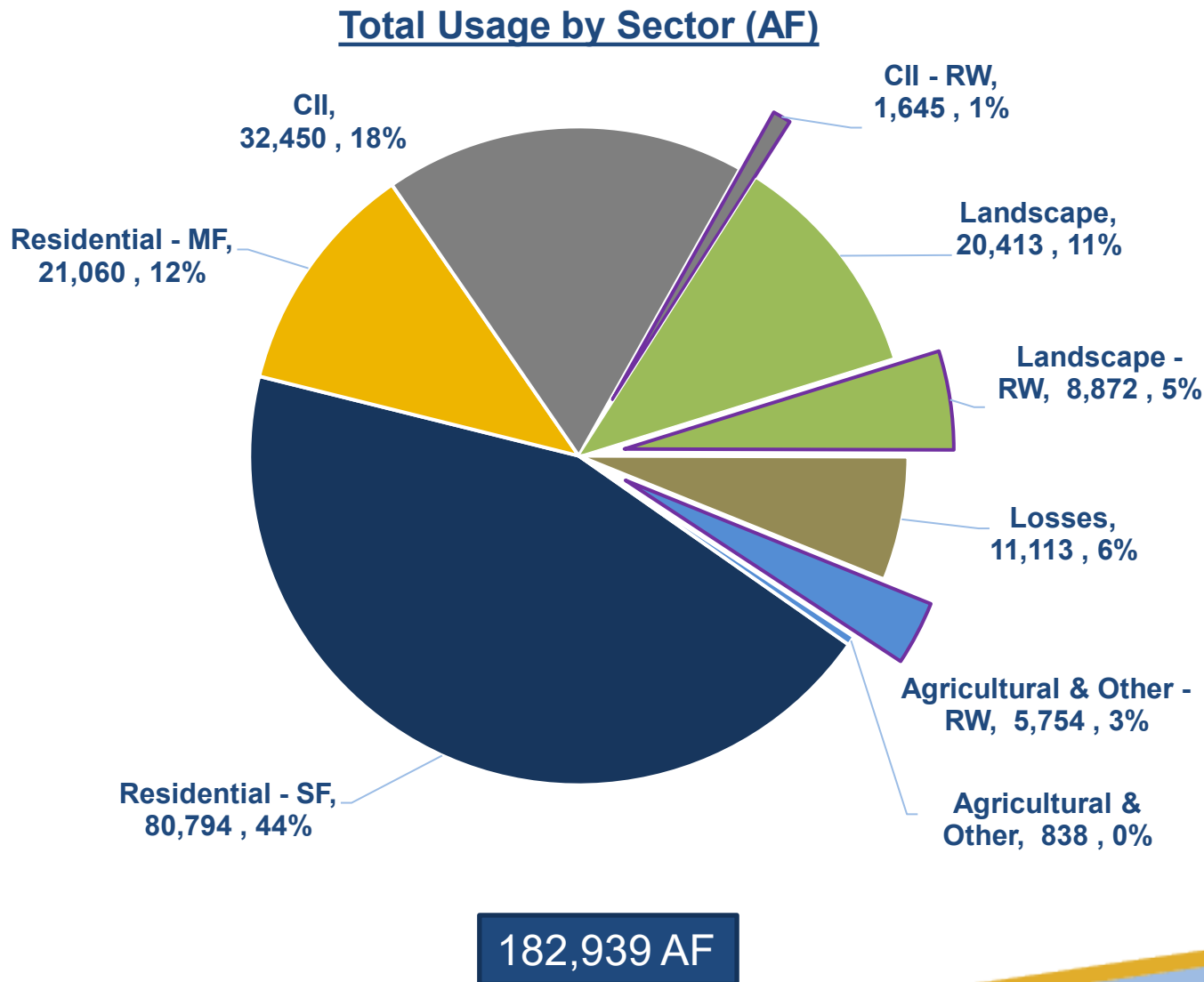
	Average Annual Potable Total Use, in AF	Use Amount Needed to Meet 2025 Standards	% Reduction for 2025 Standard	Use Amount Needed to Meet 2030 Standards	% Reduction for 2030 Standard	Use Amount Needed to Meet 2035 Standards	% Reduction for 2035 Standard
Chino	14,597	13,627	7%	11,868	19%	11,400	22%
Chino Hills	14,328	14,328	0%	12,701	11%	12,087	16%
CVWD	47,971	45,641	5%	39,884	17%	38,402	20%
MVWD	8,254	8,254	0%	8,081	2%	7,742	6%
Ontario	36,430	35,787	2%	31,811	13%	30,862	15%
SGVWC-Fontana	38,861	38,861	0%	37,612	3%	35,905	8%
Upland	<u>19,505</u>	16,816	<u>14%</u>	16,816	<u>14%</u>	14,323	<u>27%</u>
Total	179,946	173,314	4%	158,772	12%	150,720	16%



West Valley WD	19,566	16,421	16%	13,666	30%	13,016	33%
----------------	--------	--------	-----	--------	-----	--------	-----

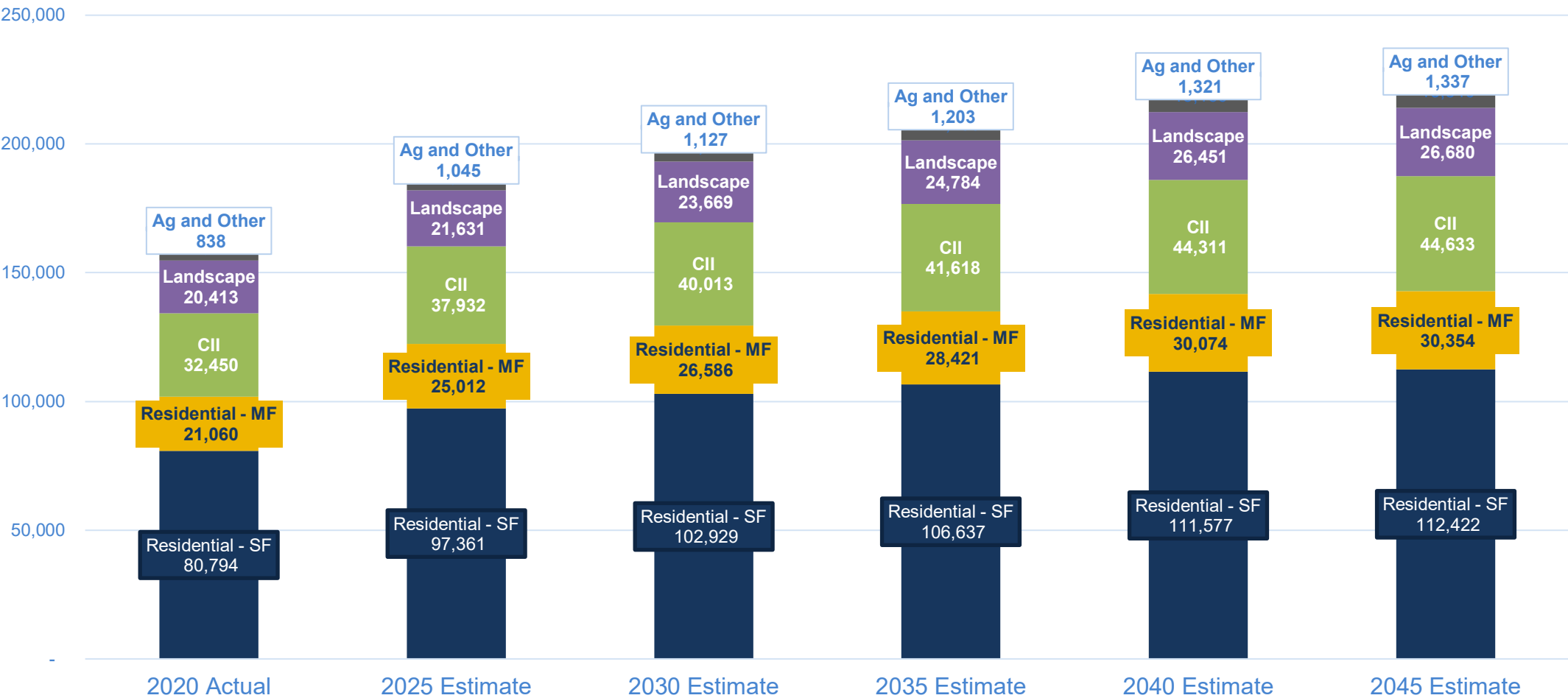
Source: www.waterboards.ca.gov/water_issues/programs/conservation_portal/water-use-explorer/, download spreadsheet and see tab “Averaged Data and Bins”

2020 Total Water Demands per Retail Agency 2020 UWMPs (Including RW)



- 56% Demands were Residential
— (SF = 44%, MF = 12%)
- 9% Demands were Recycled Water
— (CII 15%, Landscape 5%, Ag 3%)
- 19% Demands were Commercial, Industrial, and Institutional (CII)
- 16% Demands were Large Landscapes
— With Dedicated Irrigation Meters
- Agricultural & Other Demands met mostly by Recycled Water
— Does not include non-utility groundwater pumping

Anticipated Growth in Regional Potable Water Demands per Retail Agency 2020 UWMPs (Less System Losses)

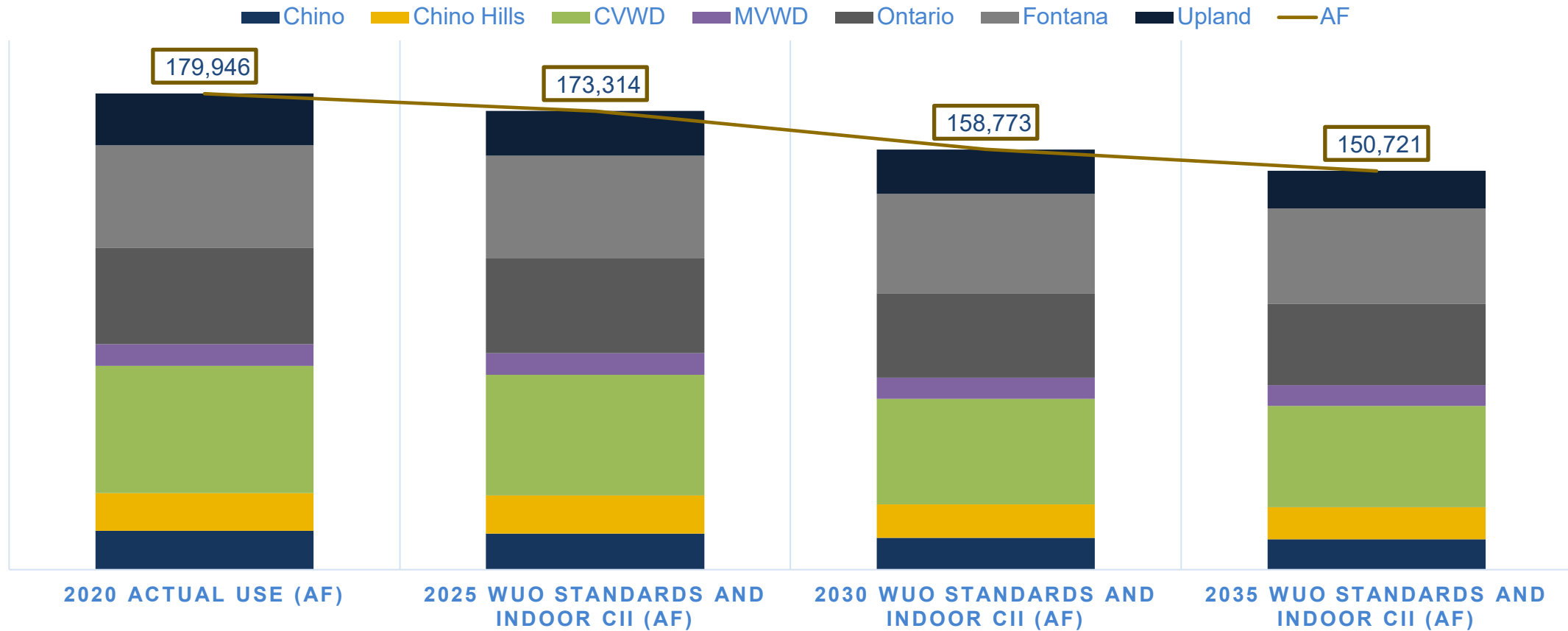


SF/MF = Single Family, Multifamily

Draft Standards Reduce 2020 Potable Demands by ~30 TAF/Y+

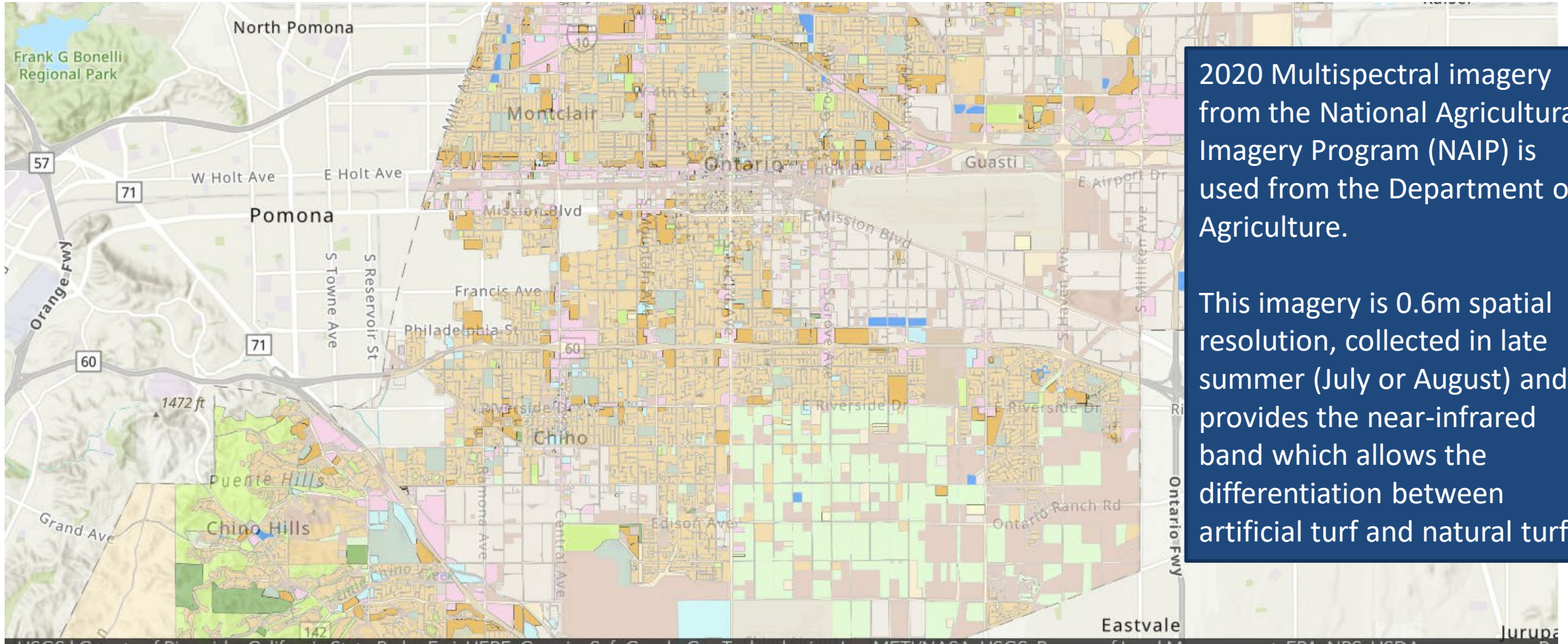
- Data from State Water Resources Control Board's Online Estimates – Does Not Include Growth

REDUCTIONS IN POTABLE WATER PER DRAFT REGS

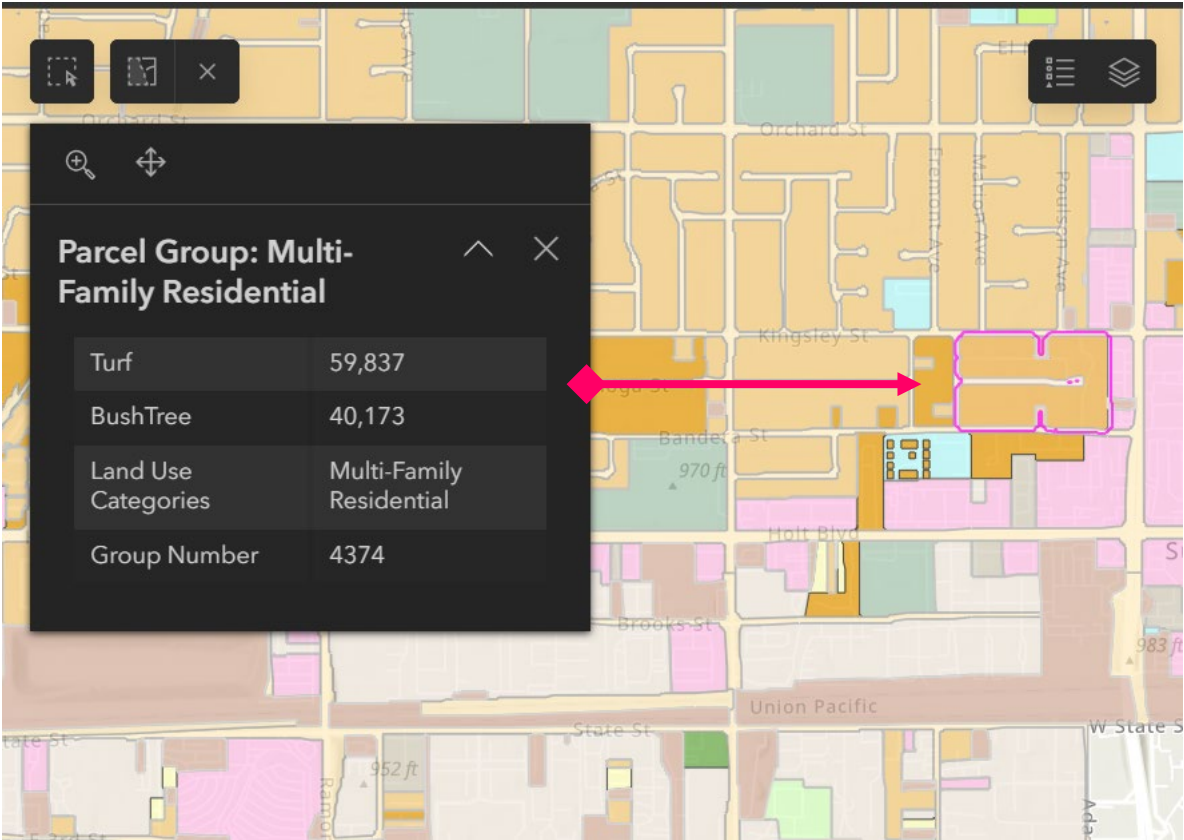


Source: https://www.waterboards.ca.gov/water_issues/programs/conservation_portal/water-use-explorer/

MWD Inventory of Turf: IEUA Service Area



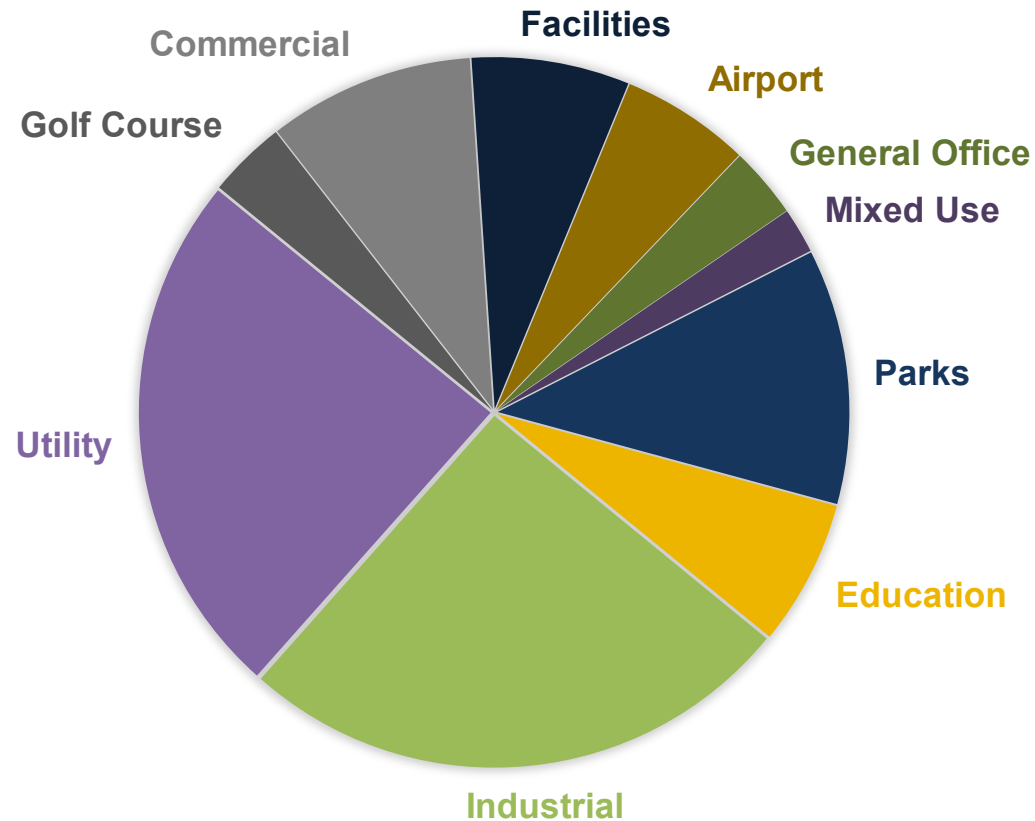
MWD Estimate of Turf Square Footage and Baseline Water Demands: Residential



✓ Check: DWR Data

Sq. Ft.	MWD Tool Turf Only	DWR Tool Irrigated Area
SF & MF Res	320,741,737	551,098,112

Rough Estimate of Amount of NFT in IEUA's Service Area with Dedicated Irrigation Meters



- **CII Turf = ~140 million sq. ft.**
 - Parks (quarter)
 - Airport
 - Golf Courses (quarter)
 - General Office
 - Education (quarter)
 - Commercial
 - Industrial/Institutional
 - Mixed Use/Facilities
 - Transportation and Utility
- **A percentage of this turf is irrigated with recycled water (~30% est.)**
 - Landscapes irrigated with recycled water should not be impacted by WUE regulations
- **Leaves balance of ~100 million sq. ft**

Options to Reduce Potable Demands by 2035: Rough Numbers

The **Urban Water Use Objective** is a total water budget, in gallons per capita per day (GPCD), that is the sum of efficiency budgets for a subset of urban water uses that include:



Initial Findings Based on Discussions with Retail Agencies

1. IEUA Region Would Face Compliance Challenges, as Currently Drafted

- Aggressive action would be needed to reduce demands sufficient for retail agencies to meet regulatory mandates, as currently drafted, and reduce demands by at least 30 TAF/year

2. Turf Conversion Would Yield Savings, but Magnitude of Effort May be Infeasible

- Converting a rough estimate of **100 million square feet** of CII-DIMs **non-functional turf** in IEUA's service to new landscaping, with a 0.45 LEF would be a monumental undertaking
 - A rebate incentive of \$4/sq foot would total \$400 million, which would likely be insufficient since rebates alone have not effectuated this level of activity to date
- By comparison, MWD/IEUA/Retail Agency incentives have sponsored over 9 million square feet of landscape conversion over the past 20 years

3. Recycled Water and Potable Reuse Offer Alternative Compliance Opportunity

- Direct application of recycled water allowed 1.0 LEF, but requires annual application for Special Landscape Area variance as currently written - should not be treated as a variance
- Potable reuse offers 10% bonus for amount produced

Next Steps

Task	Start date	End Date
First public comment period	Aug 18, 2023	Oct 17, 2023
Public workshop	Oct 4, 2023	
First comment letter due	Oct 17, 2023	
Second comment period	<i>TBD</i>	<i>TBD</i>
Adoption hearing	<i>TBD</i>	
Submit to OAL	<i>TBD</i>	
Rulemaking becomes effective	<i>TBD</i>	

Questions

**WORKSHOP
ITEM**

1B



Chino Basin Program Update


Elizabeth Hurst

Chino Basin Program Manager

October 4, 2023



CBP Update Overview

- 
- Capital Project Overview
 - Schedule & Upcoming Milestones
 - Preliminary Design Status Update
 - Agreements
 - Stakeholder Outreach
 - Budget
 - Next Steps



Capital Project Overview

	Facility	Baseline Compliance at RP-4		Recycled Water Program Expansion	CBP WSIP
		Salinity (9 TAFY)	PFAS (15 TAFY)	(15 TAFY)	(15 TAFY)
PUT	Advanced Water Purification Facility [AWPF]	✓	✓	✓	✓
	External Supplies <ul style="list-style-type: none">City of Rialto RWWRCRWA RW		✓ ✓	✓ ✓	✓ ✓
	Aquifer Replenishing Wells			✓	✓
TAKE	Extraction and Regional Distribution System <ul style="list-style-type: none">Wells and LateralsBackbone Distribution System				✓ ✓
	MWD Interconnection				✓



Schedule & Upcoming Milestones

✓ Complete PDR Work (PUT):

- AWPf
- City of Rialto RW Interconnection
- Replenishing Wells
- Permitting and Regulatory Strategy
- Updated cost estimates

✓ Award PM/OE Contract

✓ Finalize City of Rialto RW Purchase Agreement

✓ Initiate Term Sheet Discussions with WRCRWA

Summer 2023

Execute City of Rialto RW Purchase Agreement

Replenishing Wells Exploratory Boreholes

Initiate PDR Work (TAKE):

- MWD interconnection
- Extraction Wells

Agreement Terms Local & State Agencies:

- CVWD | FWC
- MWD
- CDFW
- DWR
- WRCRWA

Fall/Winter 2023

Final Design PUT Facilities

Construction of Pilot AWPf and Test Replenishing Well

Complete PDR Work (TAKE)

- Updated cost estimates

Finalize Agreements

Initiate Final Design TAKE Facilities

CWC Final Funding Award

FY 2024-2025

Construction:

- Rialto RW Interconnection
- AWPf
- Replenishing Wells
- MWD interconnection
- Extraction Wells
- WRCRWA RW Interconnection

FY 2026-2030

PUT- Infrastructure



RW Supply External

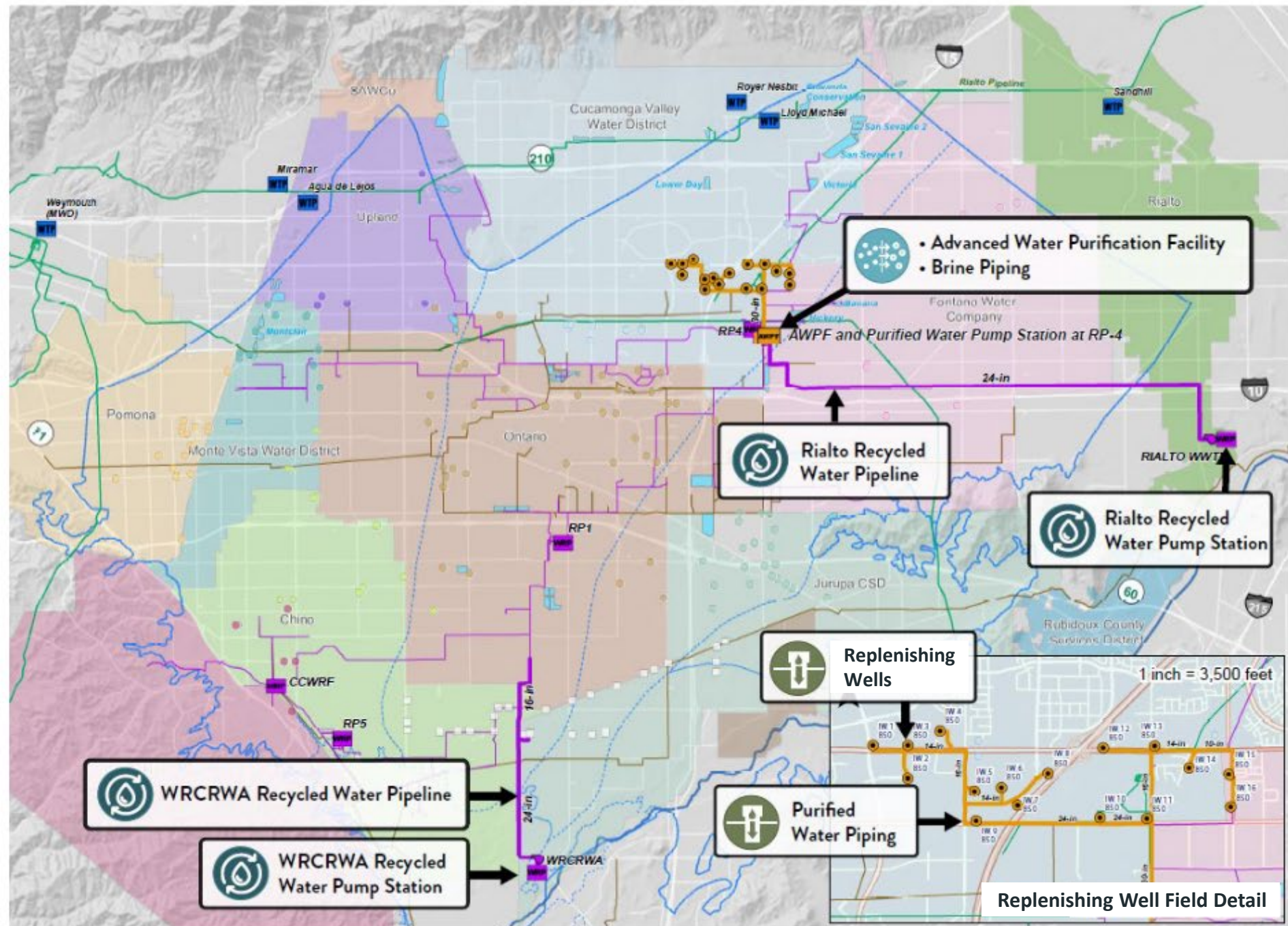
- City of Rialto
- WRCRWA



AWPF



Replenishing Wells





AWPF Rendering



Chino Basin Program Fly Over

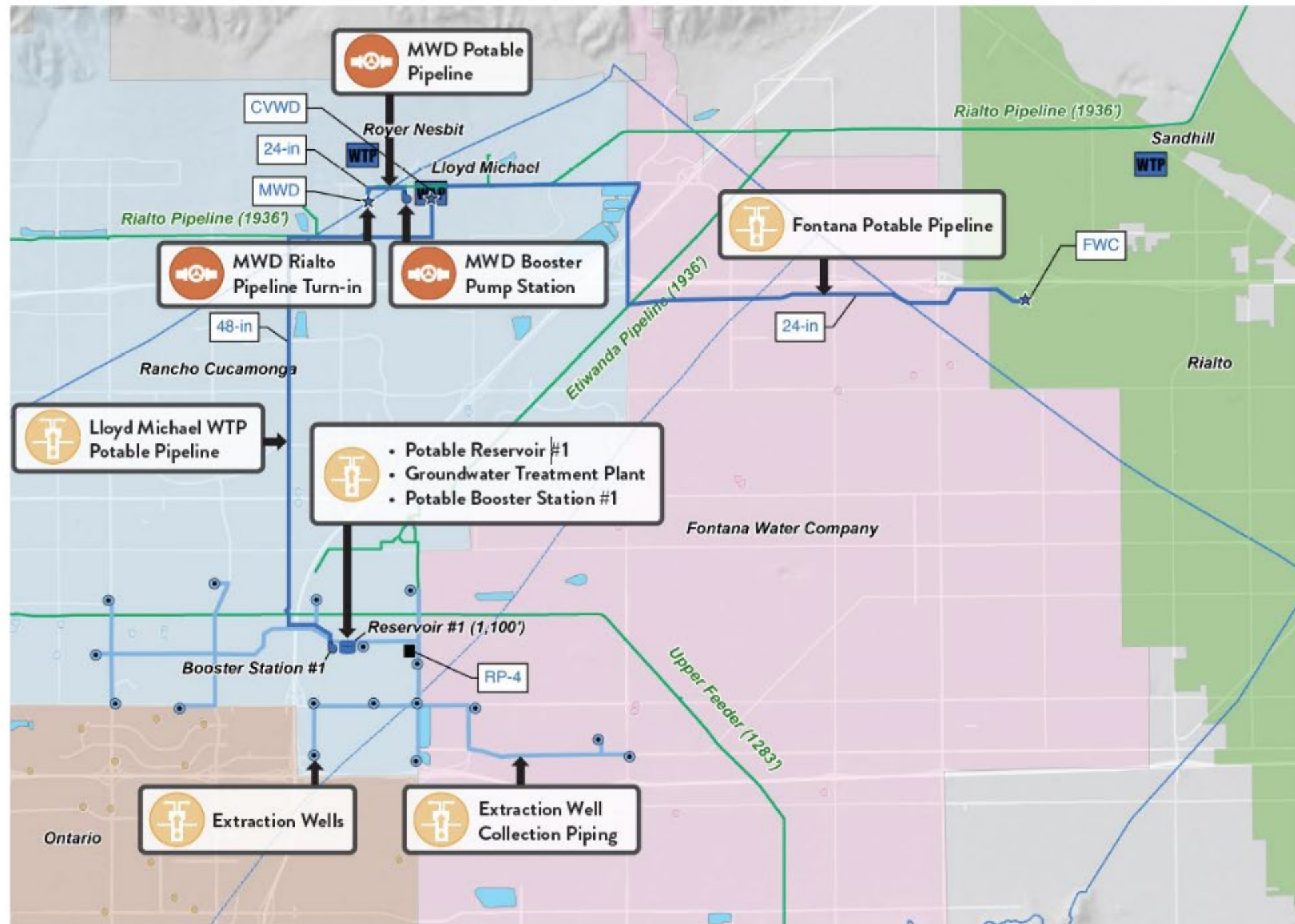
TAKE-Infrastructure



Extraction &
Regional
Distribution



MWD
Interconnection





CBP Update- Local Agreements

Major Activity	Schedule
Rialto Recycled Water Purchase Agreement (IEUA, City of Rialto)	Fall 2023
WRCRWA Recycled Water Purchase Term Sheet (IEUA, WRCRWA)	Winter 2023/2024
CBP Performing Agency Term Sheet (CVWD, FWC, IEUA) <ul style="list-style-type: none">• Purchase and storage agreement for recycled water• Operations and performance criteria• Ownership and cost allocation• Establish CBP Operating Committee	December 2023
CBP Exchange Agreement (IEUA, MWD) <ul style="list-style-type: none">• Operations and performance criteria• Inter-agency coordination with State for exchange	December 2023



CBP Update- State Agreements

Major Activity	Schedule
Public Benefit Agreements: 1. Environmental (IEUA, CDFW) 2. Water Quality (IEUA, SWRCB) 3. Emergency Response (IEUA, DWR)	Initiate negotiations September 2023
Pulse Flow Agreement (DWR, CDFW)	2024
Water Exchange Agreements (IEUA, MWD, DWR)	2024
CWC Final Funding Award (IEUA, CWC)	2025



Stakeholder Outreach

» Support by Arellano and Assoc. to conduct local community outreach

» 14 workshops held to date

- Assemblymember Freddie Rodriguez's 10th Annual Summer Community Awards & BBQ
- Brookfield Properties Development
- Builders Industry of America Southern California Water Conference
- California State University of San Bernardino's Institute for Watershed Resiliency
- California Water Environmental Association
- Chaffey College
- Chino Valley Chamber of Commerce
- Fontana Chamber of Commerce
- Greater Ontario Business Council
- Inland Empire Regional Economic Partnership
- Rancho Cucamonga Chamber of Commerce

» Received 7 additional letters of support!

- California State University of San Bernardino's Institute for Watershed Resiliency
- Chaffey College
- Chino Valley Chamber of Commerce
- Fontana Chamber of Commerce
- Inland Empire Regional Economic Partnership
- Inland Empire Water Keeper / Orange County Coast Keeper
- Ultimate Source Inc.

- Inland Empire Water Keeper and CA-NV Section of American Water Works Association
- Rialto Chamber of Commerce
- The River Project



CHINO BASIN PROGRAM

- » Support CBP
- » Project Materials
- » Learn More About the Program



10



Additional Grant Applications

The screenshot shows the FEMA website's 'Emergency Management' section. The main heading is 'California: Inland Empire Recycled Water and Aquifer Storage Project'. Below it, a summary states: 'The Inland Empire of San Bernardino County project harnesses recycled water to address drought challenges'. A callout box indicates 'Chino, California: \$46.33 million'. The 'Project Description' section begins with: 'The Inland Empire of San Bernardino County faces a severe drought due to its arid climate and limited rainfall. The existing water infrastructure cannot meet the demand caused by population growth, heatwaves, droughts, and wildfires.' The project aims to provide drought relief to residents of Fontana by using recycled water for outdoor irrigation and groundwater recharge.

Emergency Management

- Tools for Practitioners
- Case Study Library**
- Interagency Recovery Coordination Case Studies
- Integrated Public Alert & Warning System (IPAWS)
- Planning Guides
- Community Lifelines
- Environmental Planning & Historic Preservation
- Recovery Resources
- PrepTalks
- National Preparedness
- Risk Management

California: Inland Empire Recycled Water and Aquifer Storage Project

The Inland Empire of San Bernardino County project harnesses recycled water to address drought challenges

→ **Chino, California: \$46.33 million**

Project Description

The Inland Empire of San Bernardino County faces a severe drought due to its arid climate and limited rainfall. The existing water infrastructure cannot meet the demand caused by population growth, heatwaves, droughts, and wildfires.

The project aims to provide drought relief to residents of Fontana. It will use recycled water for outdoor irrigation and groundwater recharge. This will conserve potable

- FEMA BRIC Application for City of Rialto Recycled Water Interconnection request for \$46.33M
- 8/31/2023 Received notice that the project is moving forward for additional review



- \$2.8M for CBP Planning
- Anticipate decision Fall 2023



Next Steps



November:

- Request Execution of City of Rialto RW Purchase Agreement
- Request contract award for Aquifer Replenishing Wells Exploratory Boreholes
- Request “TAKE” facilities Preliminary Design contract amendment
- Staff request to CWC for remaining Early Funding (\$1.8M)

December/January:

- Request Execution of CBP Performing Agency Term Sheet (CVWD, FWC, IEUA)
- Request Execution of CBP Exchange Agreement (IEUA, MWD)

2024:

- Progressive design-build services RFPs for AWPf and Rialto RW pipeline
- Design services RFP for aquifer replenishing wells
- Complete exploratory boreholes & monitoring wells
- Design AWPf demonstration facility
- Conduct “TAKE” Preliminary Design work



Discussion