

THANK YOU FOR JOINING US

**WaterReuse Orange County
Chapter Meeting**

WILL BEGIN SHORTLY

Agenda

- ▶ **Networking & Social Session** – 11:30 AM
- ▶ **Call to order** – 12:00 PM
- ▶ **Welcome:** Scott Lynch, Chapter President
- ▶ **Presentations**
 - **Update on OASIS Water Resource Center**
 - Laura Rocha, MNWD
 - Alex Thomas, MNWD
 - **Making DPR Reality**
 - Ufuk Erdal, Black & Veatch
- ▶ **Standing Items**
 - Regulatory Updates: DDW/OCHCA
 - Legislative and Regulatory Matters
 - Potential Funding for Projects
- ▶ **Conferences/Webcasts**
- ▶ **October Meeting: Los Angeles and Orange County WaterReuse Summit**
- ▶ **Other Announcements/Discussion Items**
- ▶ **Roundtable: What's Going On - All**
- ▶ **Adjournment**



moulton niguel water district

OASIS Water Resource Center Update

August 15, 2024





Optimized | Adaptive | Sustainable | Integrated | Supply

Sustainable Vision

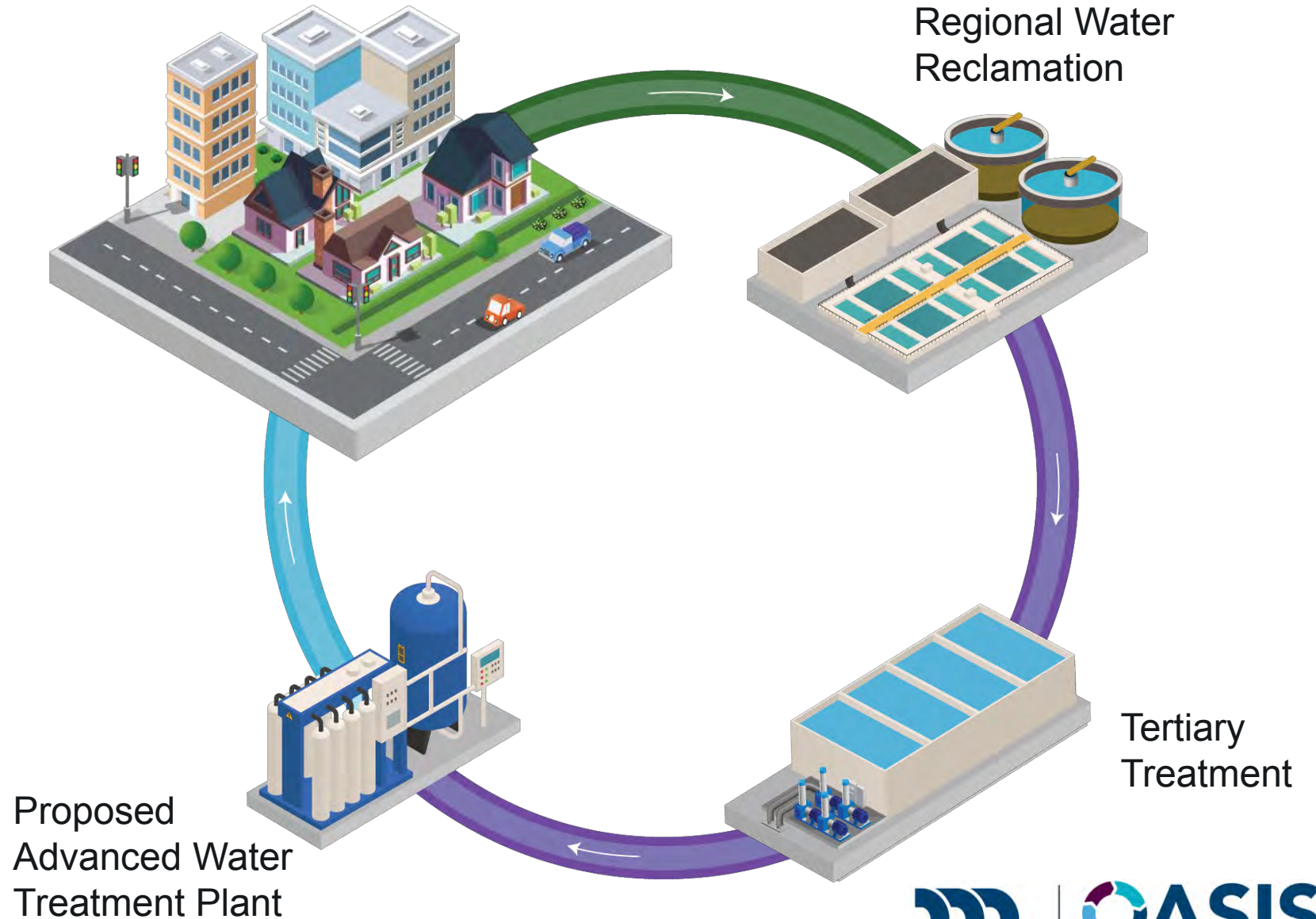
- Stakeholder Outreach
- New Local Water Supplies
- Ocean & Watershed Health
- Watershed Education Center
- Regional Partnerships



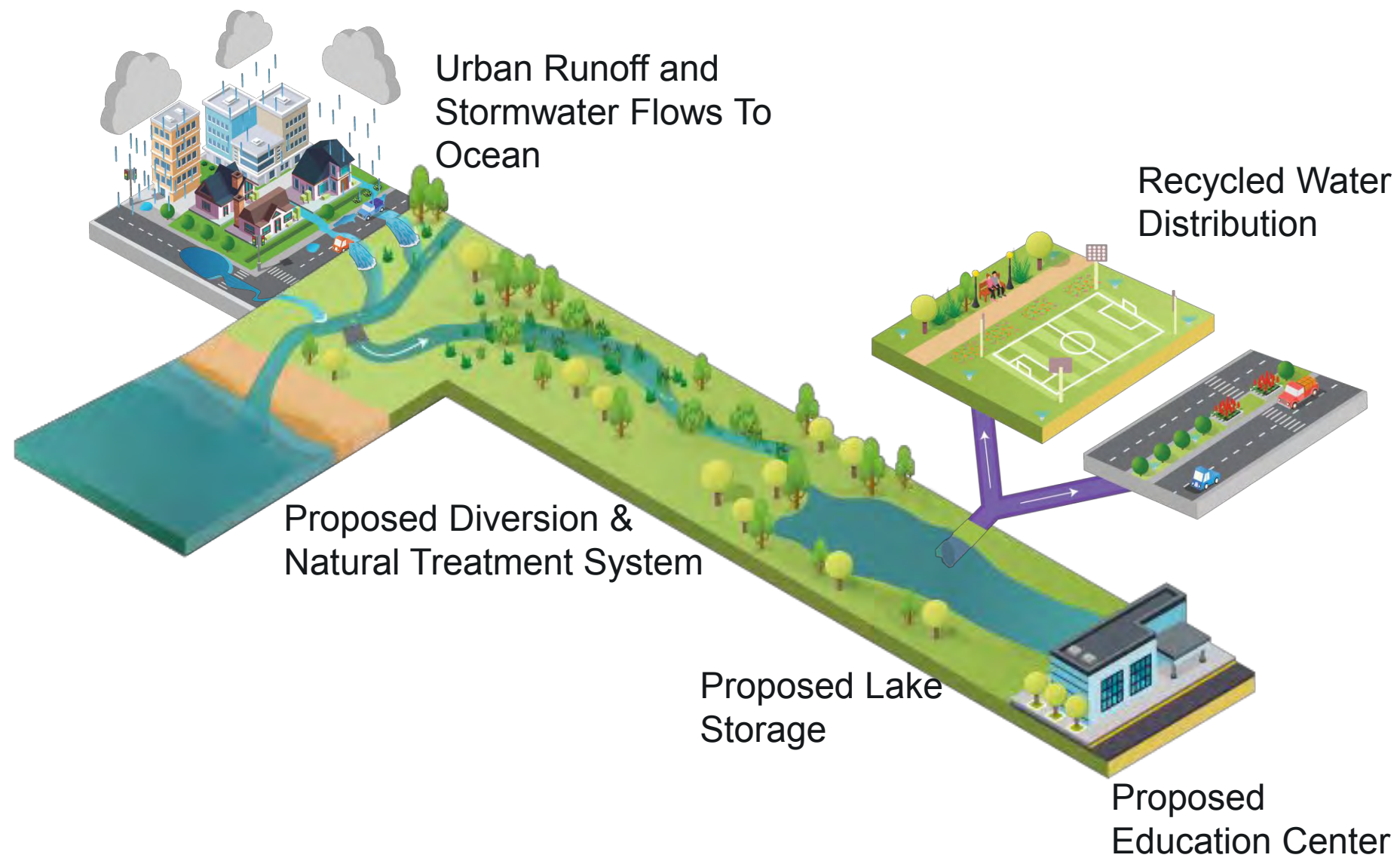
Direct Potable Reuse

Houses and Businesses

Regional Water Reclamation

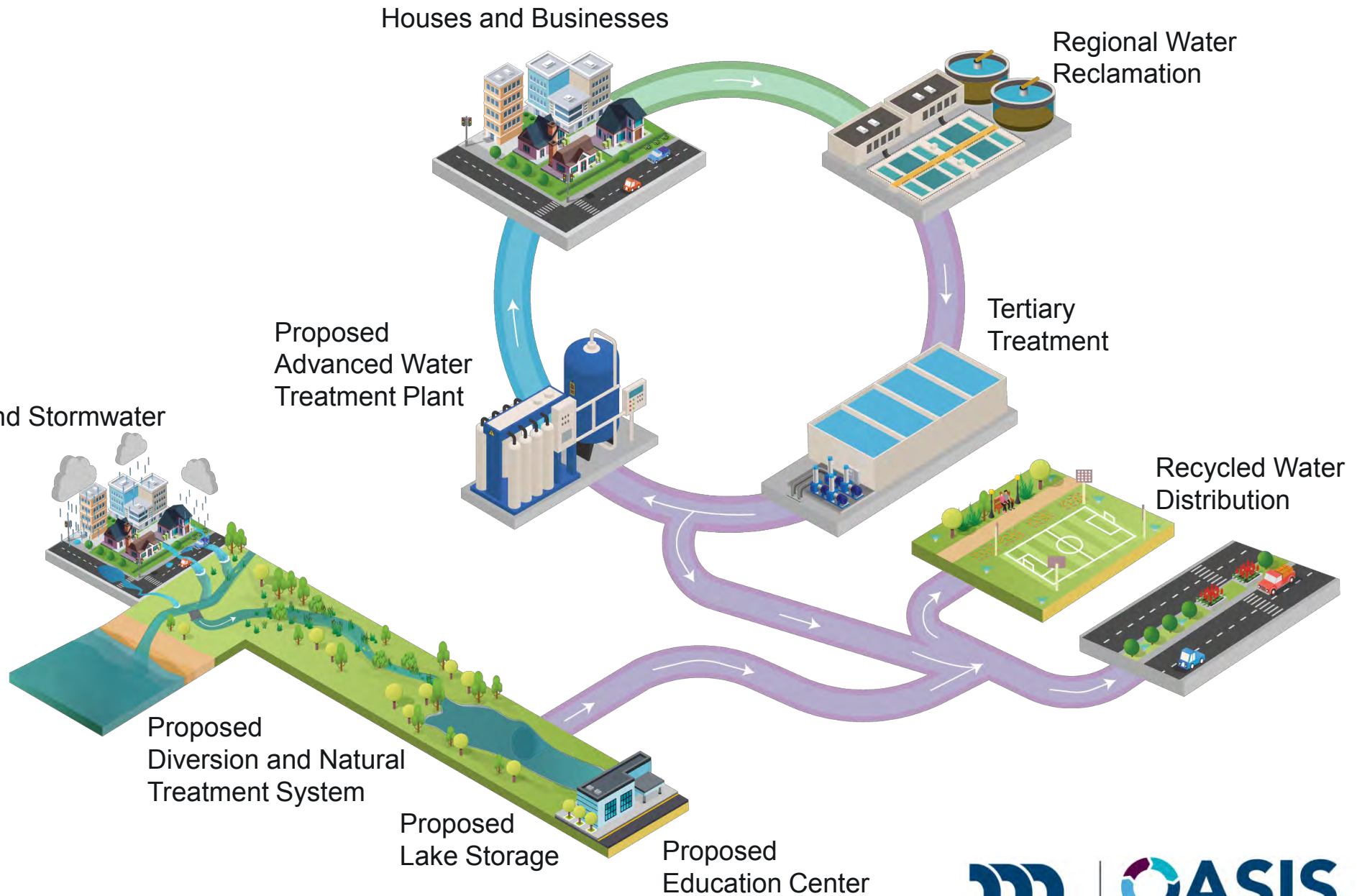


Runoff Diversion



Integrated System

Urban Runoff and Stormwater Flows to Ocean



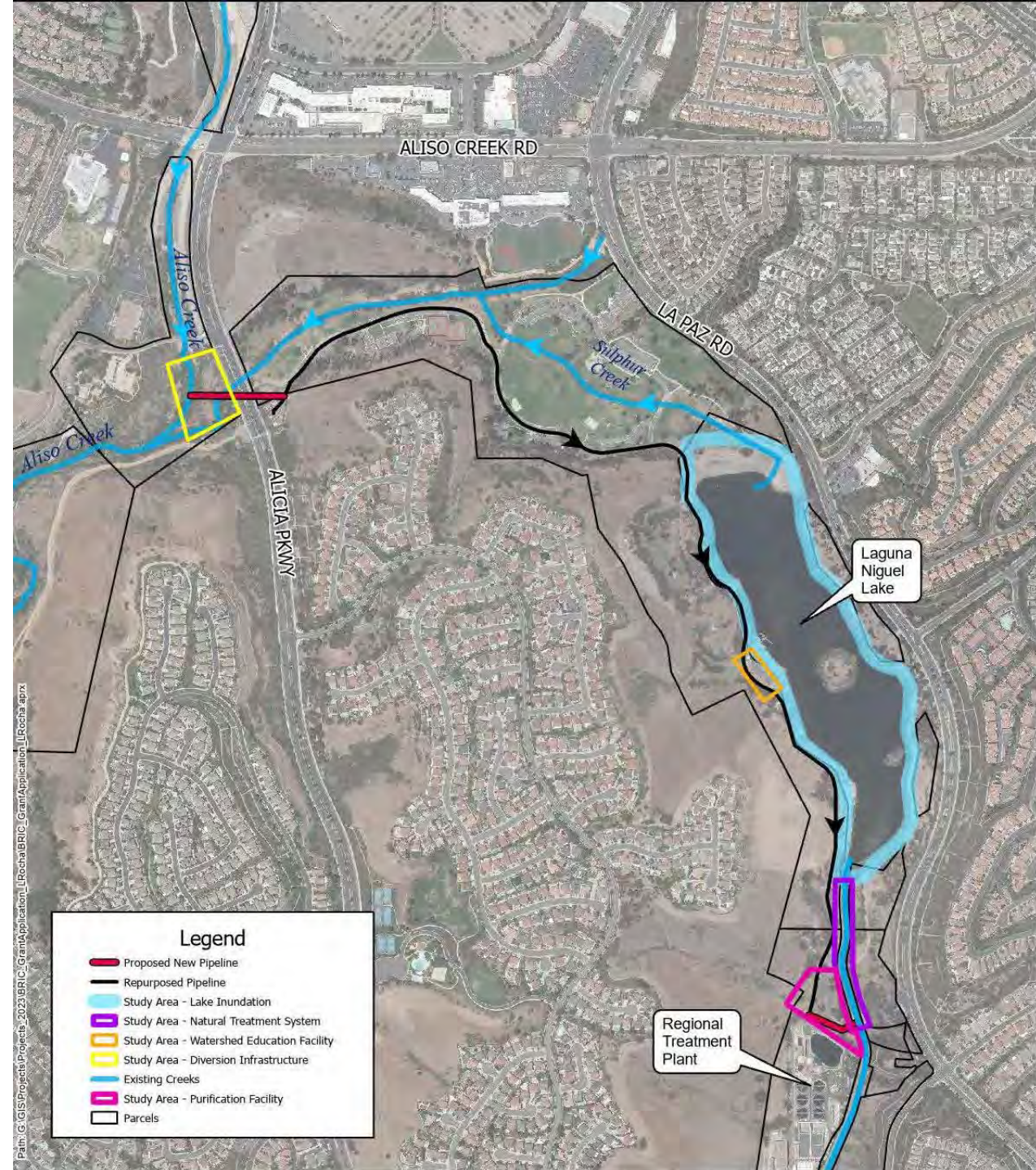
Proposed Project Facilities

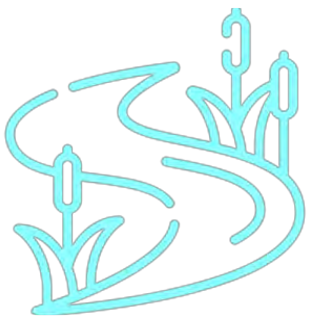
Direct Potable Reuse

Runoff Diversion Structure

Natural Treatment System

Watershed Education Center





**Runoff Diversion
Planning Study**

Outreach



**Direct Potable
Reuse Planning
Study**



**Demonstration
Facility**



Ongoing Efforts

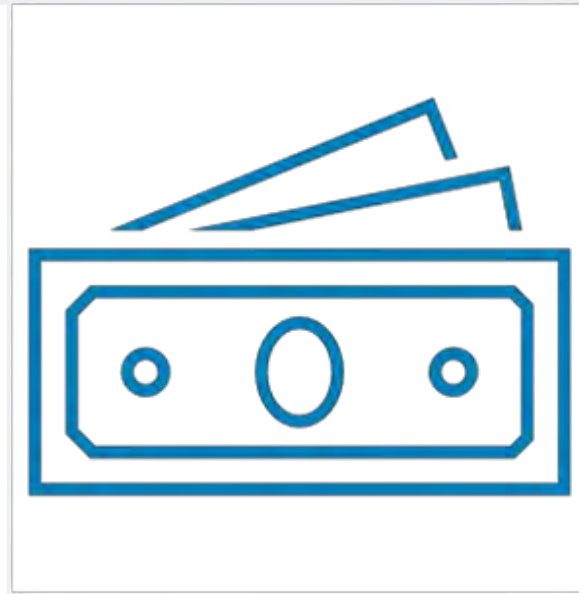


WaterSmart Planning & Project Design

- \$337,500 in Federal Funds
- Outreach and Partnership Building
- Runoff Diversion Study
- Ecosystem Restoration

Building Resilience Infrastructure Communities

- \$1.5 M in Federal Funds
- DPR Feasibility Study
- Community Outreach
- Preliminary Engineering
- Environmental Review



Grant Funding



**County of
Orange**

**LADWP /
MWD**



**Local
Agencies**

**SOC Water
Agencies**



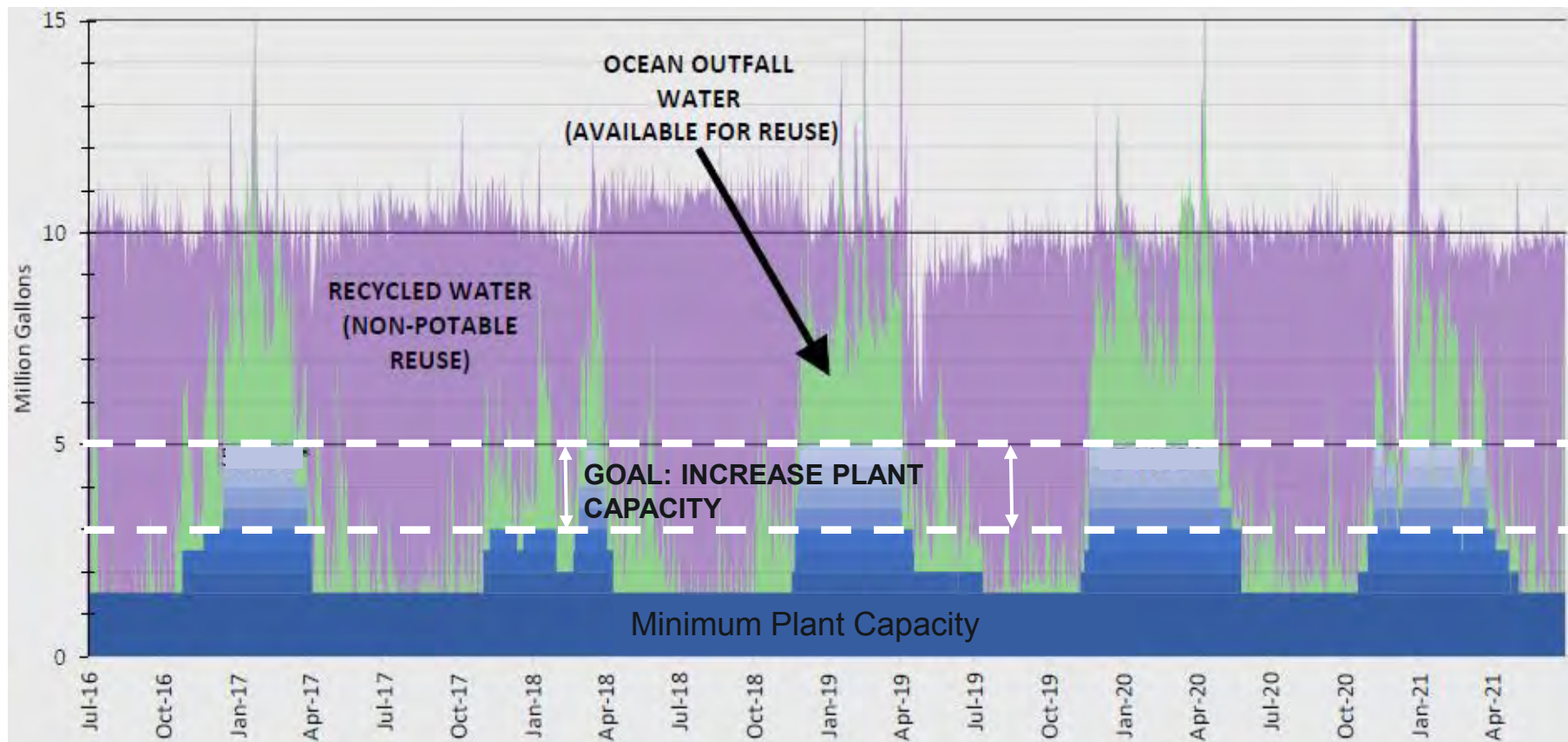
Potential Partnerships

DPR Plant Capacity

Recycled Water Supply Augmentation

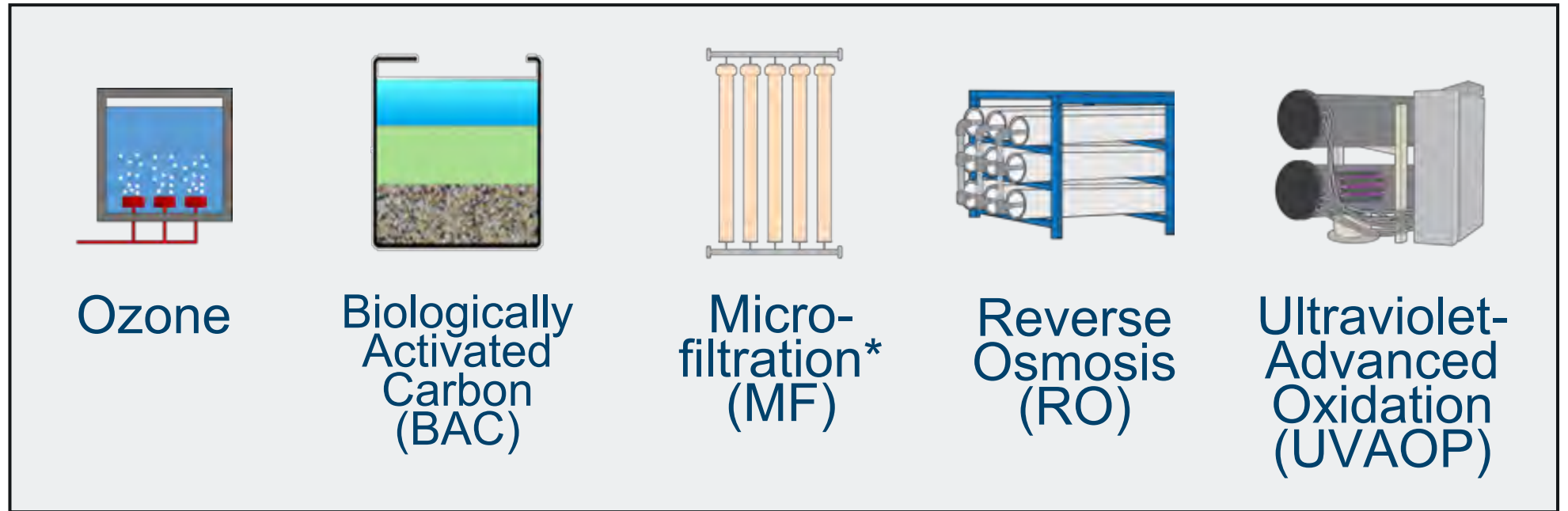
Seasonal Storage Optimization

Recycled Water Demand Management



DPR – DEFAULT ADVANCED TREATMENT TRAIN

RTP →



** Not required by regulation, but included as pretreatment for RO*

WWTP Planning Efforts

WWTP Effluent
Quality
Nutrient Removal

Space Saving
Additional
Equalization
Basin(s)



Demonstration Plant Capacity Considerations

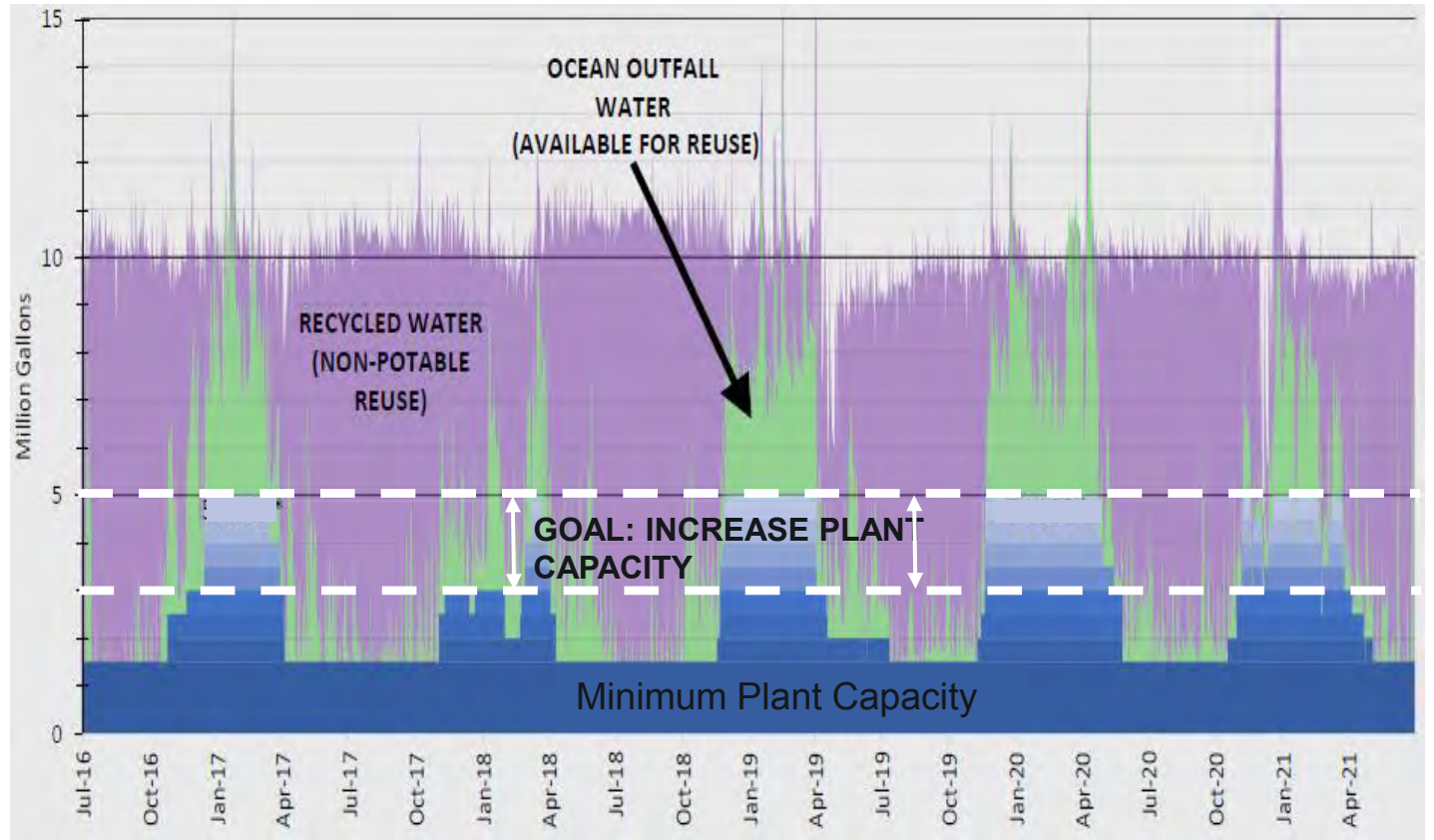


Minimum Size for
Pilot Plant

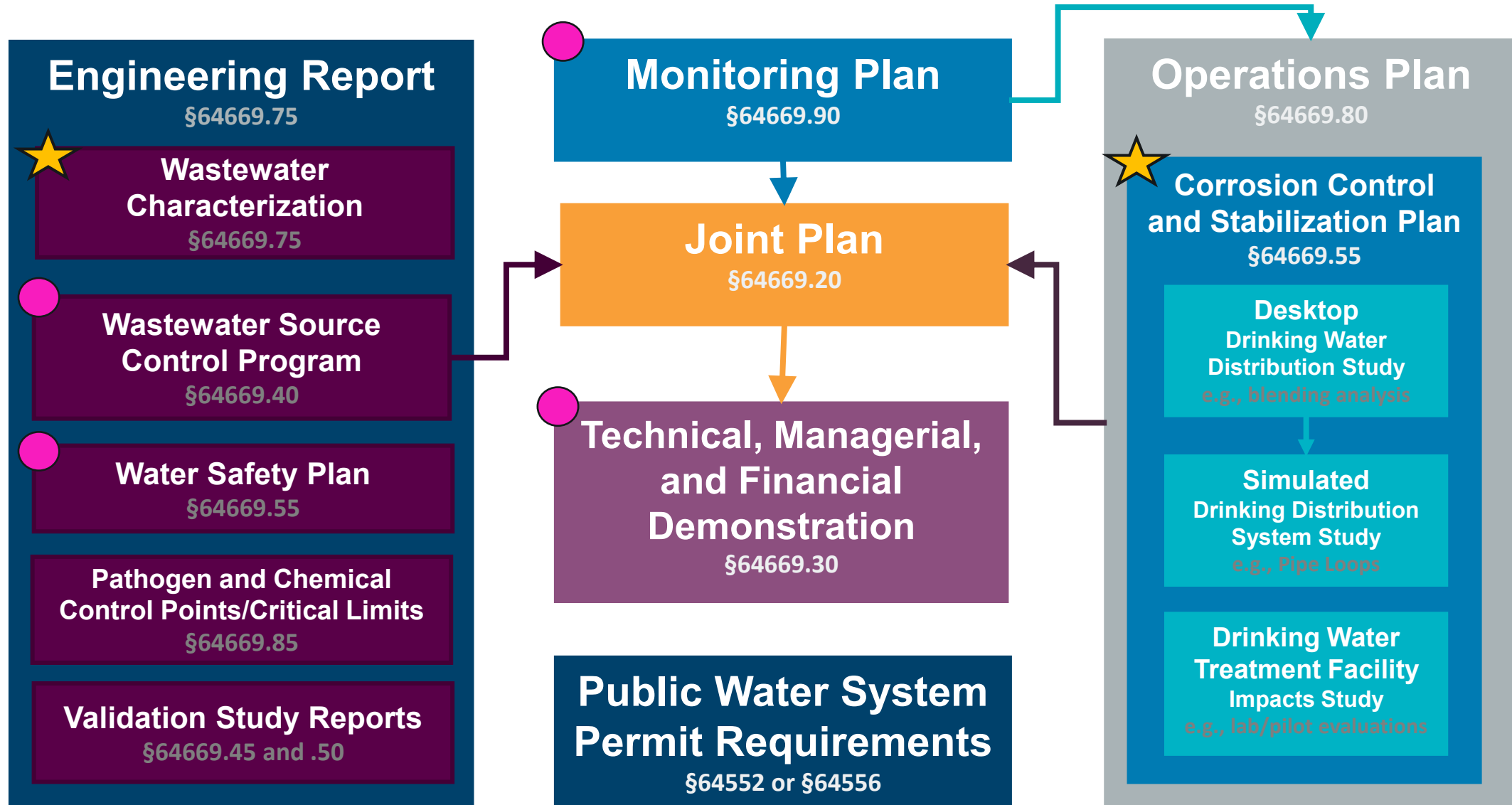
Full-Scale
Demonstration
Plant



Timing / Cost
of Options



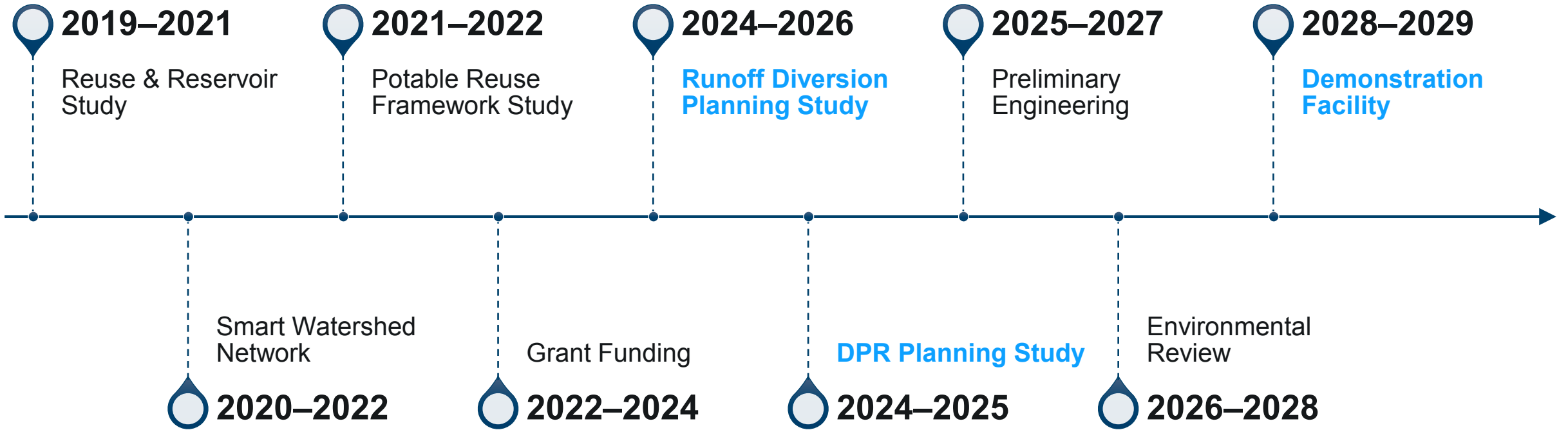
REGULATION REPORTS



● = IAP required

★ = State Board approval required

OASIS Timeline



Connect with us!

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Principal Engineer

Moulton Niguel Water District

(949) 425-3563

Laura Rocha

Water Resources Manager

Moulton Niguel Water District

(949) 448-4076





BLACK & VEATCH

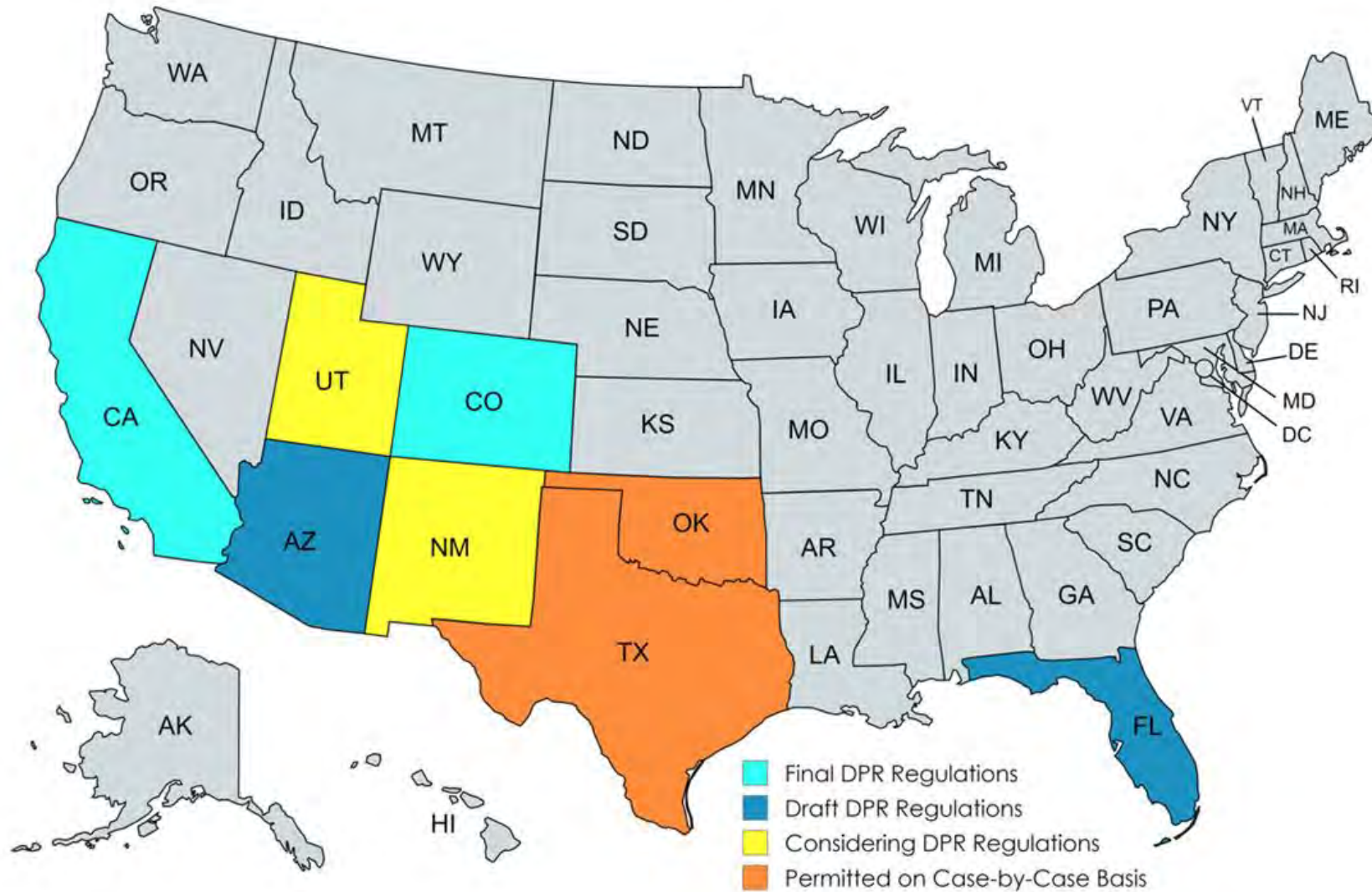
Making DPR Reality

Ufuk Erdal, PhD PE - Global Water Reuse Solutions Director

Outline

- It's all DPR
- DPR Pilot Testing In Phoenix AZ
- Q&A

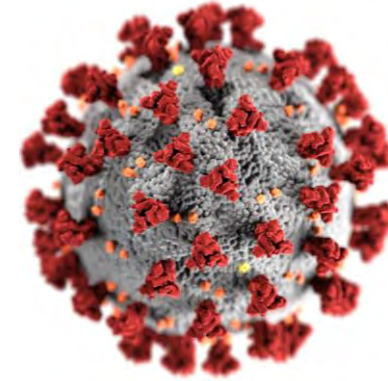
Status of DPR Regulations in USA



We Need to Properly Address

1. Pathogen Control

- Pathogens pose acute health risk
- Goal is to provide a pathogen free purified water



2. Chemical Control

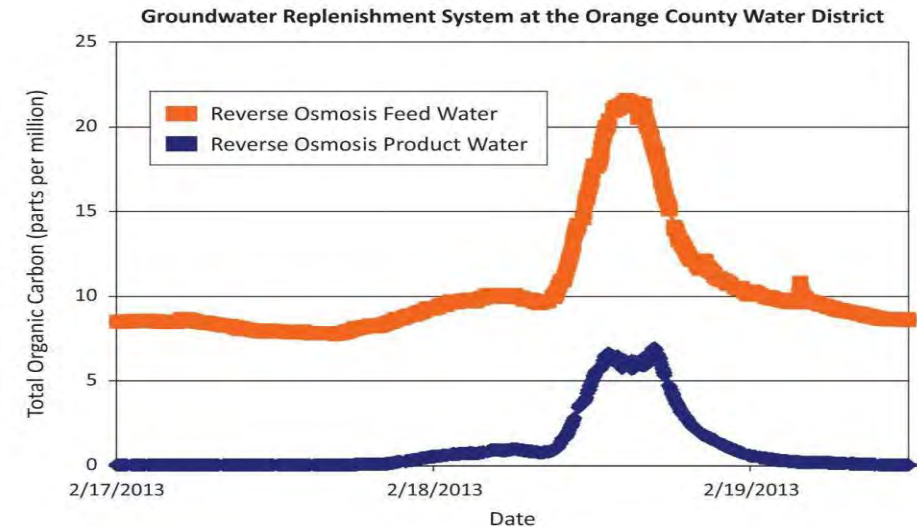
- Most cases health concerns are chronic
- But could also be acute or serious (e.g. nitrate)



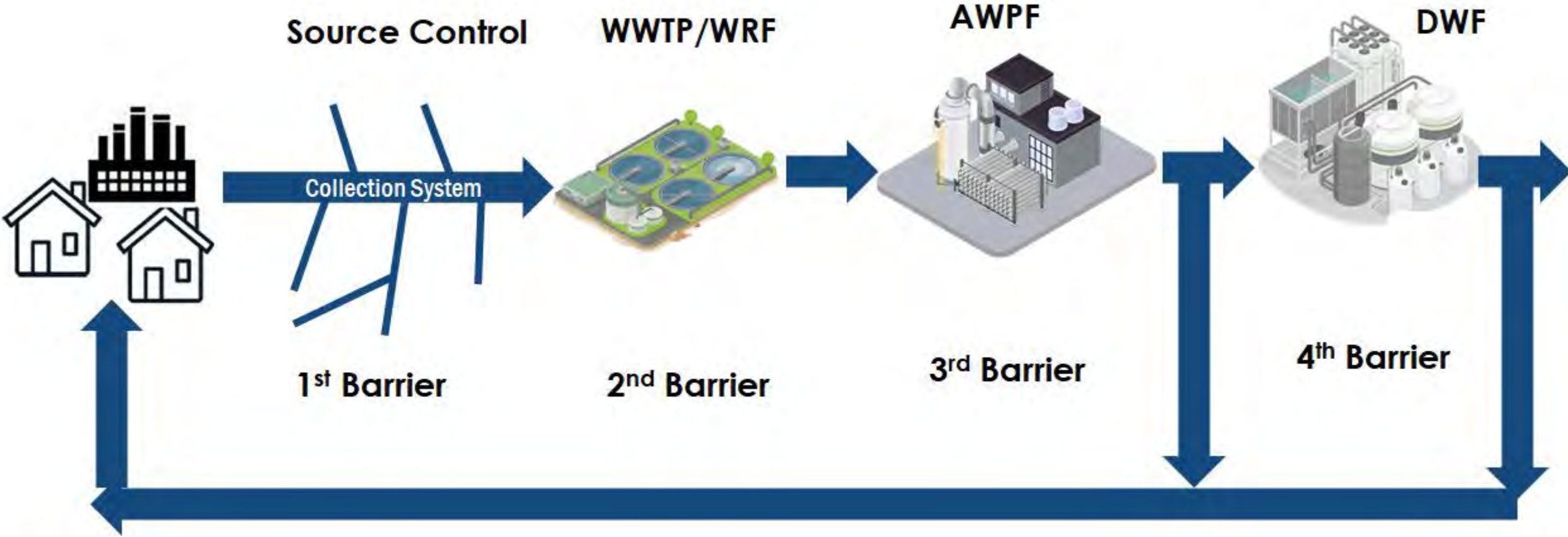
IPR vs. DPR

The threat posed by chemicals in DPR is different for IPR in two important ways per California Water State Board:

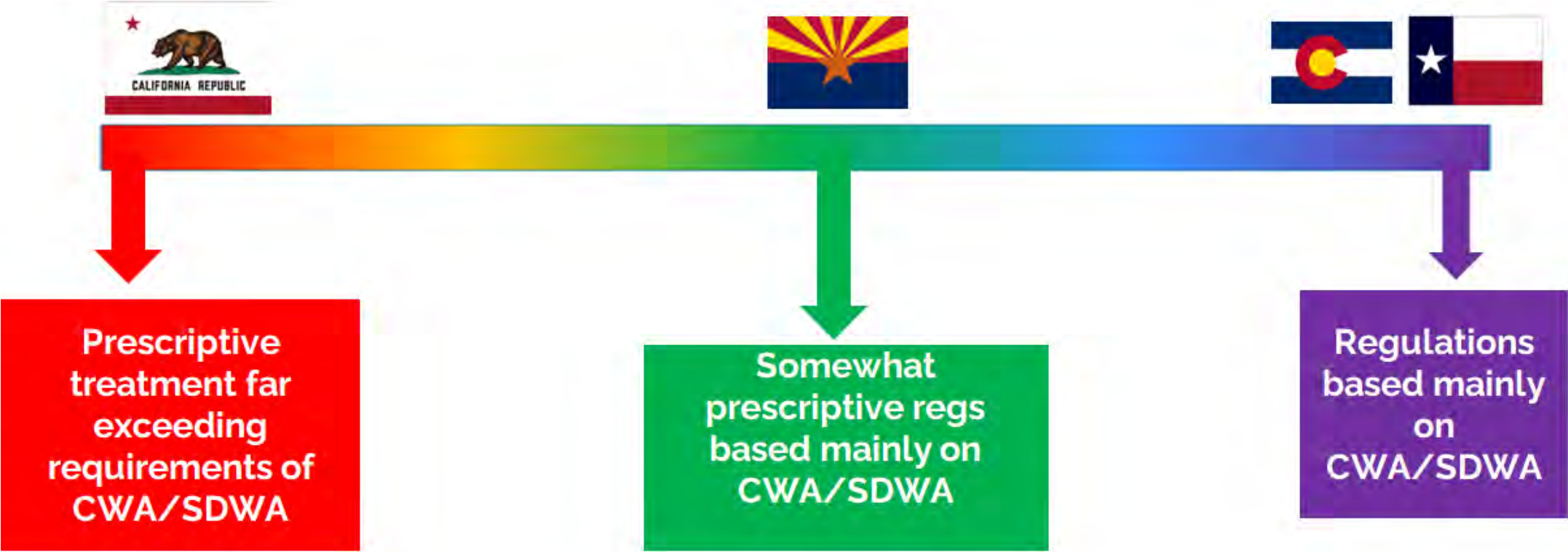
- Without an environmental buffer pulses of low molecular weight chemicals may pose an acute health risk
- Without an environmental buffer the urgency of recognizing and responding to treatment deficiencies increases



Multiple Barriers are Needed



Different Approaches but Similar Goals



Different Approaches but Similar Goals

Requirements are Quite Different

	California	Arizona	Colorado
Specific Treatment Train Required	Yes	No	No
Number of Pathogen Barriers Needed	≥4 separate processes ≥3 different mechanisms (Physical, chemical and UVD)	≥2 separate processes (filtration and disinfection)	≥3 separate processes
Number of Chemical Barriers Needed	Prescribed	≥3 separate processes (Physical separation and AOP)	≥3 separate processes
Purified Water TOC, mg/l	≤0.5	≤2.0	Purified Water Median TOC concentrations = TOC in Original Drinking Water
V/C/G LRV Requirements	20/15/14	13/10/10 (no pathogen characterization) 8/5.5/6 (Pathogen characterization)	12/10/10 (Default) 8/5.5/6 (Pathogen characterization)

Regardless Interest for DPR is Growing

- Treatment costs may be higher with DPR. However, DPR:
 - eliminates/reduces concerns with water rights
 - eliminates cross contamination concerns introduced by environmental buffer
 - reduces conveyance costs (project specific)
- Several agencies are planning, already planned or in process to implement DPR
 - MNWD, CA
 - Valley Water, CA
 - ETWD, CA
 - MWD/LACSD, CA
 - LADWP/LASAN, CA
 - City of Phoenix, AZ
 - City of Scottsdale, AZ
 - South Jordan, UT and more.....

DPR Pilot Testing City of Phoenix

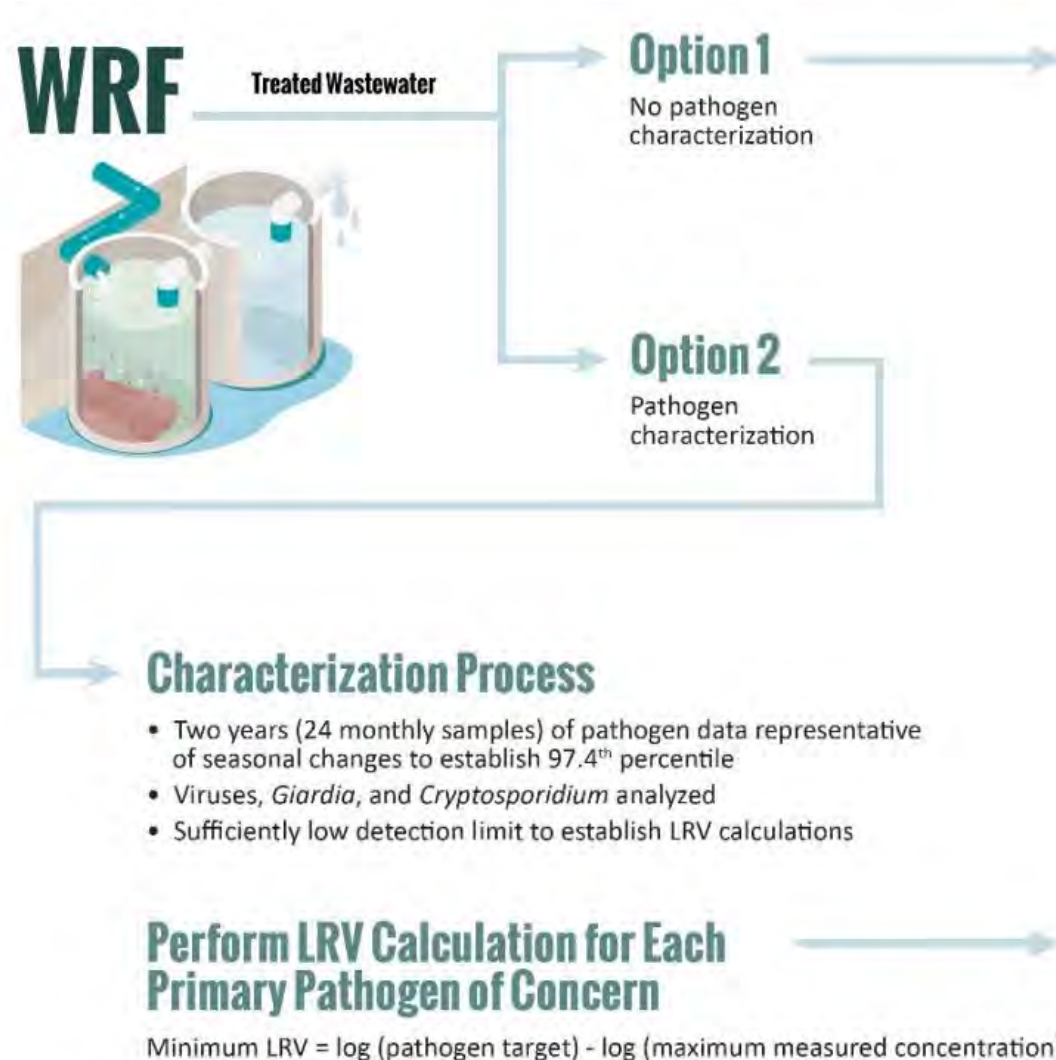
DPR Pilot/Demonstration Testing is Required in AZ

Objectives of testing are to:

- Demonstrate performance of individual unit processes as well as the entire train in meeting Federal and Arizona DW criteria
- Provide opportunities for public education and acceptance
- Provide training opportunities for operators
- Compile data to support regulatory and permitting process

Pathogen Control

- Multi-barrier approach
- At least 1 filtration and 1 disinfection step
- Pilot testing to demonstrate LRV



AWTF Minimum LRV

Virus	13
<i>Giardia</i>	10
<i>Cryptosporidium</i>	10




Both approaches must meet minimum technology requirements

AWTF Minimum LRV

Virus	8
<i>Giardia</i>	6
<i>Cryptosporidium</i>	5.5

Chemical Control

- At least 3 separate processes with diverse treatment mechanisms
- Must include physical separation and advanced oxidation

Three-Tier Monitoring Approach	 Tier 1 SDWA Regulated Contaminants	 Tier 2 AWP Specific Contaminants	 Tier 3 Performance Based Indicators
Definition	Regulated contaminants are those that have requirements under the US EPA SDWA regulated contaminants.	Contaminants, not currently regulated under the SDWA, but identified as potential risks within an AWP program due to their potential to impact human health or interfere with treatment processes.	Surrogates that are used to monitor treatment train performance.
Approach for Identification	Federal and state regulations	See description in Section Chemical Removal Standards	Site-specific pilot data, specific removal by individual treatment processes, treatment operational guidance
Example Constituents	Arsenic, nitrate, disinfection by-products (DBPs)	N-Nitrosodimethylamine, 1,4-dioxane, perfluorooctanesulfonic acid	TOC, sucralose, sulfate, carbamazepine

Trains to be Tested

1. RO Based Advanced Treatment

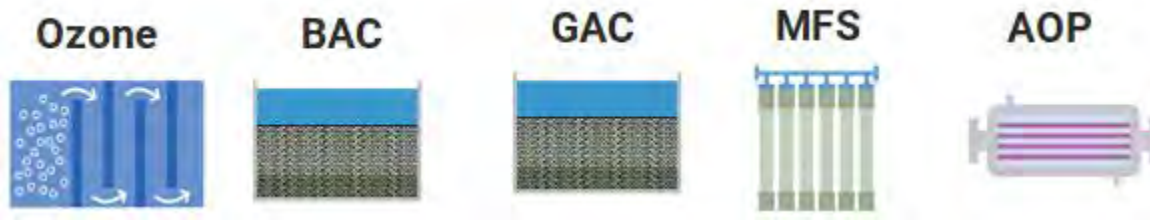


**Piping and control system will have flexibility to operate GAC Before UVAOP
A small chiller and calcite contactor will be added at the end for water testing**

- One year of continuous testing (minimum)
- Initial source characterization prior to or during pilot testing
- Monthly sampling for Tier I and selected Tier II chemicals
- Continuous monitoring of key parameters in all critical control points to assess performance

Trains to be Tested

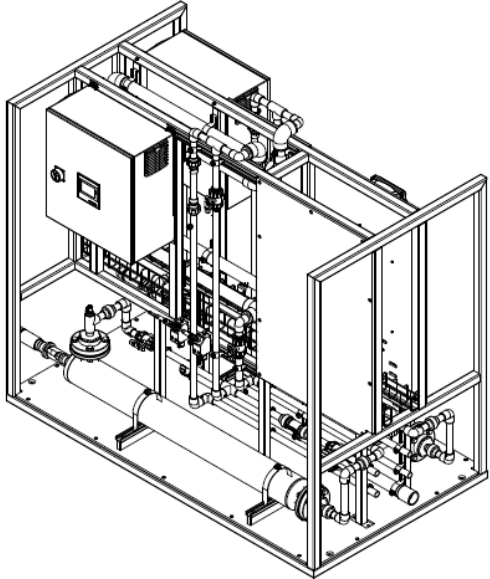
2. Carbon Based Advanced Treatment



A small chiller will be added at the end for water testing

- One year of continuous testing (minimum)
- Initial source characterization prior to or during pilot testing
- Monthly sampling for Tier I and selected Tier II chemicals
- Continuous monitoring of key parameters in all critical control points to assess performance

Pilot System Design in Progress



Q&A

For more information, please contact me at

ErdalUG@bv.com

312-213-3357

Standing Items

▶ Legislative and Regulatory Updates

- DDW
- OCHCA
- Claire Johnson, OCWD
- Alicia Harasty, OCWD

▶ Potential Funding for Projects (see handout)

PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
MWD On-Site Retrofit Program (OSRP) * <i>*only MWD members are eligible for this funding</i>	\$2M per year	\$195/acre-foot over 10 years.	Provides financial incentives directly to customers	Public and private owners to convert potable water irrigation or industrial water systems to utilize recycled water.	SOLICITATION OPEN	First come first serve basis starting 7/1 through 6/30 or until funds are exhausted.	Contact: Jessica Arm, Associate Resource Specialist jarm@mwdh2o.com http://www.bewaterwise.com/on-site-retrofit-program.html
MWD Local Resource Program (LRP)* <i>*only MWD members are eligible for this funding</i>			Provides financial incentives for the development of water recycling, groundwater recovery, and seawater desalination projects.	Projects can include: <ul style="list-style-type: none"> • Water recycling • Groundwater recovery • Seawater desalination Three incentive payment options: <ul style="list-style-type: none"> • Sliding scale incentives up to \$340/AF over 25 years, • Sliding scale incentives up to \$475/AF over 15 years, or • Fixed incentive up to \$305/AF over 25 years. 	SOLICITATION OPEN	First come first serve basis starting 7/1 through 6/30 or until funds are exhausted.	Contact: Nadia Hardjadinata Resource Specialist nhardjadinata@mwdh2o.com http://www.mwdh2o.com/AboutYourWater/Planning/Funding-Programs/Local-Resource-Program-Funding
Water Savings Incentive Program			Open to all commercial, industrial, agricultural, institutional and large Landscape customers	Project examples: <ul style="list-style-type: none"> • Replacement of older, less water-efficient equipment, • Comprehensive changes to industrial processes that reduce water consumption, • Improvements to existing irrigation systems and landscaping to improve water use efficiency. 	SOLICITATION OPEN	Payment amount is up to \$0.60 per 1,000 gallons saved per year over the project live, up to a maximum of 10%. Incentives are limited to 50% of eligible project costs	

PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
SoCal Water\$mart		Dependent on type of project	Business and residential rebates to help encourage water efficiency and conservation	Commercial Projects: Plumbing Fixtures Landscaping Equipment Food and HVAC Equipment Medical and Dental Equipment Residential Projects: Turf Removal Residential Devices	SOLICITATION OPEN		https://socalwatersmart.com/en/commercial https://socalwatersmart.com/en/residential
SWRCB Division of Financial Assistance: Drinking Water State Revolving Funding	\$650 Million		Planning/design and construction of drinking water infrastructure projects including: <ul style="list-style-type: none"> • treatment systems • distribution systems • interconnections • consolidations • pipeline extensions • water sources • water meters 	<ul style="list-style-type: none"> • Publicly-owned community water systems (e.g., counties, cities, districts) • Privately-owned community water systems (e.g., for-profit water utilities, non-profit mutual water companies) • Non-profit or publicly-owned non-community water systems (e.g., public school districts) • Community water systems created by the project 	SOLICITATION OPEN	Complete and submit an application online through the Financial Assistance Application Submittal Tool (FAAST) at https://faast.waterboards.ca.gov	The application is also available on the DWSRF website at: https://www.waterboards.ca.gov/drinking_water/services/funding/SRF.html

PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
SWRCB Division of Financial Assistance: Clean Water State Revolving Funding	\$650 Million		Construction of POTWs: <ul style="list-style-type: none"> Wastewater treatment Local sewers Sewer interceptors Water reclamation distribution Stormwater treatment Combined sewers Landfill leachate treatment Implementation of NPS projects to address pollution associated with: <ul style="list-style-type: none"> Agriculture Forestry Urban Areas Marinas Hydromodification Wetlands Development and implementation of estuary comprehensive.	<ul style="list-style-type: none"> Any city, town, district, or other public body created under state law, including state agencies A Native American tribal government or an authorized Native American tribal organization having jurisdiction over disposal of sewage, industrial wastes or other waste Any designated and approved management agency under Section 208 of the Clean Water Act 501(c)(3)'s and National Estuary Programs 	SOLICITATION OPEN	Complete and submit an application online through the Financial Assistance Application Submittal Tool (FAAST) at https://faast.waterboards.ca.gov	The application is also available on the CWSRF website at: https://www.waterboards.ca.gov/water_issues/programs/grants_loans/srf/

PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
SWRCB Division of Financial Assistance: Proposition 1 Groundwater Grant Program	Proposition 1 provided \$900 million for a Groundwater Sustainability Program	Round 3 – Implementation Project only		Proposition 1 Groundwater Grant Program (Prop 1 GWGP) eligible projects must contribute to cleanup or prevention of contamination in the aquifer. However, Sections 4.5 and 4.6 of the Guidelines also allow for Prop 1 GWGP funds to be utilized for certain drinking water and wastewater projects serving disadvantaged communities (DAC)	SOLICITATION CLOSED	Applications are submitted using the Financial Assistance Application Submittal Tool (FAAST).	https://www.waterboards.ca.gov/water_issues/programs/grants_loans/proposition1/groundwater_sustainability.html
DWR Water Use Efficiency: CalConserve Revolving Fund (Proposition 1)	\$10M	\$10M	Sustainable funding source for urban water use efficiency projects.	Projects including but not limited to: <ul style="list-style-type: none"> • Dish/clothes washer upgrades • Water-saving plumbing fixtures • Hot-water recirculating pumps • Leak detection & repair • Landscape irrigation upgrades • Commercial, institutional, and industrial water efficiency 	Solicitation Open. Proposals accepted through GRanTS application	Continuously	<ul style="list-style-type: none"> • \$1.75 million is to be loaned out for water use efficiency upgrades • \$5 million is to be loaned out for fixing expensive and difficult to repair customer leaks
DWR IRWM Grant Program Implementation Grant (Proposition 1, Round 2)	The Round 2 solicitation will make approx. \$192 million (the remaining funds for Implementation grants) for awards	TBD	Projects and programs that support IRWM.	<ul style="list-style-type: none"> • Water reuse & recycling • Water conservation • Surface storage/GW recharge • Conjunctive use • Water conveyance • Watershed restoration and protection • SW resource management • Desalination • WQ improvements 	SOLICITATION CLOSED		See link below for website: https://www.water.ca.gov/Work-With-Us/Grants-And-Loans/IRWM-Grant-Programs/Proposition-1

PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
DWR IRWM Grant Program Planning Grant (Proposition 1, Round 2)	\$5M	TBD	Projects and programs that support IRWM.	Planning projects that accomplish: <ul style="list-style-type: none"> • Development of an IRWM plan that meets the IRWM Plan Standards • Compliance with recent legislation • Improvement of an existing IRWM plan. 	SOLICITATION CLOSED		See link below for website: https://www.water.ca.gov/Work-With-Us/Grants-And-Loans/IRWM-Grant-Programs/Proposition-1
DWR IRWM Grant Program DAC Involvement (Proposition 1)	\$51M statewide \$9.8 M for LA Region	\$9.8M for LA Region	Projects and programs that support IRWM.	Projects ensuring DAC involvement in IRWM planning efforts, including but not limited to eligible projects described in the Implementation Grant list.	Solicitations Continuously Open	SOLICITATION OPEN	
DWR 2022 Urban Community Drought Relief Funding	\$200M for Urban Communities, \$75M for Conservation for Urban Suppliers, and \$75M for Turf Replacement. The same Budget Act also authorized \$100 million for the Small Community Drought	\$300M	These grants are intended to provide water to communities that face the loss or contamination of their water supplies, to address immediate impacts on human health and safety, to secure the future of California's water supply, and to protect fish and wildlife resources	Eligible project types include: <ul style="list-style-type: none"> • Projects that support immediate drought response • Projects that enhance local supply and climate resilience through source watershed improvements, consistent with Water Code section 108.5, that defines source watershed as infrastructure • Drought resilience planning • Water conservation activities, • Turf replacement with drought tolerant landscaping <ul style="list-style-type: none"> • Hauled water • Installation of temporary or permanent community water tanks • Bottled water 	SOLICITATION CLOSED	Applications were due on 1/31/2023 electronically via GRanTS.	Final 2022 Urban Community Drought Relief GL/PSP (ca.gov)

PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
	Relief Program			<ul style="list-style-type: none"> • Water vending machines • Emergency water interties • New wells or rehabilitation of existing wells • Construction of permanent connection to adjacent water systems, RW projects that provide immediate relief to potable water supplies projects that support immediate drought response • Fish and wildlife rescue, protection, and relocation 			
Integrated Climate Adaptation and Resiliency Program Regional Resilience Grant Round 1 Governor’s Office of Planning and Research	The Budget of Act of 2021 made \$25 million available for this program.	Total available is \$9.4M The funding range for planning projects is \$150,000 – \$650,000. The funding range for implementation projects is \$650,000 – \$3M	RRGP funds two project types: planning and implementation. All projects must have a regional focus and support communities most vulnerable to climate change. needs	Planning Grants are for applicants who want to involve their community in studying and determining how to address climate risks in their region. Funds can be used to assess regional climate risks, create regional plans for resilience, prepare for implementation. Implementation Grants are for applicants who already know some of the steps they need to take to address the climate risks in their region. Funds can be used for physical projects or non-physical projects like programs or processes that reduce climate risk.	SOLICITATIONS - CLOSED	Phase 1 – Request for Full Application – RRGP Intent Survey were due on 8/29/2023 and Phase 2 – Full Application were due on 8/29/2023	RRGP contact (916) 720-4439 icarp.grants@opr.ca.gov Or Dolores Barajas Dolores.barajas@opr.ca.gov https://www.opr.ca.gov/climate/icarp/grants/regional-resilience-grant.html

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
WaterSMART Grants Drought Response Program Drought Resiliency Projects	Purpose: Funding for on-the-ground projects and modeling tools that will increase water reliability and improve water management.	Category A Applicants: States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority. Category B Applicants: Nonprofit conservation organizations that are acting in partnership and with the agreement of an entity described above. Applicants must be located in the Western United States or United States Territories specifically: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming (the "Western United States").	Funding Group I: Up to \$500,000 per agreement for smaller, on-the-ground projects that should be completed within 2 years. Funding Group II: Up to \$2 million for projects to be completed within 3years; and beginning this year, up to \$5 million for large projects to be completed within three years. Non-Federal Cost Share: 50% or greater.	A Funding Opportunity to allocate FY23 appropriations and Bipartisan Infrastructure Law funding <u>has been</u> posted on grants.gov. For more information: https://www.grants.gov/web/grants/view-opportunity.html?oppld=335035 Closed on November 7, 2023.
WaterSMART Grants Water and Energy Efficiency Grants	Purpose: On-the-ground water management improvement projects, including projects that conserve water and address water supply reliability.	Category A Applicants: States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority. Category B Applicants: Nonprofit conservation organizations that are acting in partnership and with the agreement of an entity described above. Applicants must be located in the Western United States or United States Territories specifically: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming (the "Western United States"), and American Samoa, Guam, the Northern Mariana Islands, the Virgin Islands, and Puerto Rico ("Territories") (collectively "Western United States or Territories").	Funding Group I: Up to \$500,000 per agreement for smaller, on-the-ground projects that should be completed within 2 years. Funding Group II: Up to \$2 million for projects to be completed within 3years; and beginning this year, up to \$5 million for large projects to be completed within three years. Non-Federal Cost Share: 50% or greater.	FY23 selections were announced on April 21, 2023. 84 projects were selected to receive \$140 million in federal funding, including Bipartisan Infrastructure Law funding. The FY24 Funding Opportunity is anticipated in mid-November 2023. For more information: https://www.grants.gov/web/grants/view-opportunity.html?oppld=335103 Closed on July 27, 2022.

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
WaterSMART Grants Small-Scale Water Efficiency Projects	Purpose: To support small water efficiency improvements that have been identified through previous planning efforts.	Category A Applicants: States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority. Category B Applicants: Nonprofit conservation organizations that are acting in partnership and with the agreement of an entity described above. Applicants must be located in the Western United States or United States Territories specifically: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming (the "Western United States"),	Up to \$100,000 for projects to be completed within two years. Total project costs should generally be less than \$225,000. Non-Federal Cost Share: 50% or greater.	FY22 selections were announced on January 5, 2023. 82 projects were selected to receive \$7 million in Bipartisan Infrastructure Law funding. The FY24/25 Funding Opportunity was posted November 2, 2023. The first round for FY24 funding closed on January 16, 2024.
WaterSMART Grants – FY 2023 Water Strategy Grants	Purpose: Planning activities to develop water marketing strategies that establish or expand water markets or water marketing activities between willing participants.	Category A Applicants: States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority. Category B Applicants: Nonprofit conservation organizations that are acting in partnership and with the agreement of an entity described above. Applicants must be located in the Western United States or United States Territories specifically: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming (the "Western United States"), and American Samoa, Guam, the Northern Mariana Islands, the Virgin Islands, and Puerto Rico ("Territories") (collectively "Western United States or Territories").	Up to \$200,000 for projects to be completed within two years; or up to \$400,000 for projects to be completed within three years. Non-Federal Cost Share: 50% or greater.	The FY23 Planning and Design Grants funding opportunity was announced August 7, 2023 Closed on October 17, 2023.

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
WaterSMART Grants – FY 2024 Environmental Water Resources Projects	Purpose: Eligible projects under this funding opportunity include Environmental Water Resources Projects, including water conservation and efficiency projects that result in quantifiable and sustained water savings and benefit ecological values or watershed health, water management or infrastructure improvements to benefit ecological values or watershed health, and restoration projects benefitting ecological values or watershed health that have a nexus to water resources or water resources management.	Category A Applicants: States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority. Category B Applicants: Nonprofit conservation organizations that are acting in partnership and with the agreement of an entity described above. Applicants must be located in the Western United States or United States Territories specifically: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming (the “Western United States”), and American Samoa, Guam, the Northern Mariana Islands, the Virgin Islands, and Puerto Rico (“Territories”) (collectively “Western United States or Territories”).	Reclamation will provide Federal financial assistance of up to \$3 million in Federal funding for projects with a total project cost of \$6 million or less that can be completed in three years. Applicants can receive 75% Federal cost-share if the application demonstrates that the project increases water supply reliability for ecological values, was developed as part of a collaborative process, and the project benefits will advance an established strategy or plan to increase the reliability of water supply for consumptive and non-consumptive ecological values.	The FY24 funding opportunity released on 4/18/2024 1st submittals CLOSED on June 18th 2024 at 4:00 p.m. MST. 2nd submittals are due on March 11, 2025 at 4:00 p.m. MST. For more information: https://www.usbr.gov/watersmart/ewrp/index.html
WaterSMART Grants – FY 2023 Applied Science Grants	Phase I Projects to develop hydrologic information and water management tools and to improve modeling and forecasting capabilities.	States, Indian tribes, local and special districts (e.g., irrigation and water districts), local governmental entities, and non-profit organizations that are located in the Western United States or Territories.	Up to \$1.5 million was available in FY 2022. Up to \$200,000 per agreement for a project that can be completed within 2 years. Non-Federal Cost Share: 50% or greater	The FY23 Funding Opportunity was posted June 28, 2023. The FY23 Applied Science Grants funding opportunity selections were announced April 17, 2024.

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
WaterSMART Grants FY 2023/24 Cooperative Watershed Management Program – Phase I	Phase I Watershed group development, watershed restoration planning, and watershed management project design.	States, Indian tribes, local and special districts (e.g., irrigation and water districts), local governmental entities, and non-profit organizations that are located in the Western United States or Territories.	Up to \$200,000 may be awarded to an applicant per year, for a period of up to two years. Non-Federal Cost Share: No non-Federal cost-share required.	The FY23/24 Cooperative Watershed Management Program Phase I funding opportunity posted August 7, 2023. First round closed on December 5, 2023. 2ND round of applications are due by September 4, 2024.
WaterSMART Grants – FY 2023 Desalination and Water Purification Research Program	Laboratory-scale and pilot-scale research projects to increase water supplies by reducing the cost, energy consumption, and environmental impacts of treating impaired or otherwise unusable waters.	States, Indian tribes, local and special districts (e.g., irrigation and water districts), local governmental entities, and non-profit organizations that are located in the Western United States or Territories. Universities, private industry, water utilities, and other research sponsors may submit proposals.	Up to \$2 million is available. Laboratory-scale projects are eligible for up to \$250,000 in funding over two years. Pilot-scale projects are eligible for up to \$800,000 in funding over three years.	To view this funding opportunity, please visit www.grants.gov and search for funding opportunity number R23AS00390. Closed on November 15, 2023.
WaterSMART Grants – FY 2024 Small Storage Program	The upcoming funding opportunity supports the implementation of small surface storage, groundwater storage, and conveyance projects that will enhance water storage opportunities.	Through this funding opportunity, Reclamation will provide financial assistance for projects that, when implemented, will increase water supply reliability, improve operational flexibility, and enhance climate resiliency of water and related infrastructure throughout the 17 western states, Alaska, and Hawaii.	The Federal cost share for small surface water and groundwater storage projects are limited by law to not more than 25 percent of the total cost of planning, design, and construction and to not exceed \$20 million.	The Fiscal Year 2024 Small Storage Program funding opportunity opened on September 18, 2023. Reclamation continues to accept feasibility study submissions at any time from eligible non-Federal entities.

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
<p>WaterSMART Grants – FY 2023 and FY 2024</p> <p>Water Conservation Field Services Program</p>	<p>The Water Conservation Field Services Program (WCFSP) was established by Reclamation in 1996 to proactively encourage water conservation in the operations of recipients of water from Federal water projects and to assist agricultural and urban water districts in preparing and implementing water conservation plans in accordance with the Reclamation Reform Act of 1982.</p>	<p>The WCFSP is managed by each of Reclamation’s regional offices and implemented at the local level through Reclamation’s area offices to address Reclamation-wide water conservation priorities and to meet local goals. Funding is used to make cost-shared financial assistance available on a competitive basis at the area and regional office levels, as well as for technical assistance from Reclamation staff. Funding may be used to develop water conservation plans, identify water management improvements through System Optimization Reviews, design water management improvements, and to improve application of water conservation technologies through demonstration activities.</p>	<p>The Federal cost share is 50 percent of the total cost and up to \$100,000 per entity.</p>	<p>For more information regarding the Water Conservation Field Services Program, please contact Sheri Looper at 303-445-2232 or slooper@usbr.gov. Or you may contact your regional contact:</p> <p>Columbia-Pacific Northwest: Leah Meeks, (208) 378-5025, lmeeks@usbr.gov Lower Colorado Basin: Ken Isakson, (702) 293-8537, kisakson@usbr.gov Missouri Basin: Denis Kelsch, (406)247-7664, dkelsch@usbr.gov Upper Colorado Basin: Gary McRae, (801) 524-3656, gmcrae@usbr.gov</p> <p>2nd Closing Date was June 1, 2023 for FY 2023 proposal</p> <p>Closed on October 13, 2023 for FY 2023 proposals</p>

<p>WaterSMART Grants – FY 2023 and FY 2024</p> <p>Planning and Project Design Grants</p>	<p>Through Planning and Project Design Grants, Reclamation provides funding for collaborative planning and design projects to support water management improvements. This includes funding for: (1) Water Strategy Grants to conduct planning activities to improve water supplies (2) Project Design Grants to conduct project-specific design for projects to improve water management; and (3) comprehensive Drought Contingency Plans. Note that funding to develop a water marketing strategy – formerly funded through Water Marketing Strategy Grants, a stand-alone funding opportunity under WaterSMART - is now available through (1) Water Strategy Grants.</p>	<p><u>Water Strategy Grants and Project Design Grants</u></p> <p>States, Tribes, irrigation districts, and water districts; State, regional, or local authorities, the members of which include one or more organizations with water or power delivery authority; and other organizations with water or power delivery authority.</p> <p>Nonprofit conservation organizations that are acting in partnership with, and with the agreement of, an entity described above.</p> <p><u>Drought Contingency Planning</u></p> <p>A State, Tribe, irrigation district, water district, or other organization with water or power delivery</p>	<p>0 percent, 25 percent or 50 percent, depending on the project type.</p> <p>Up to \$400,000 per application for projects that can be completed within 3 years.</p> <p>Approximately \$35,000,000 is available under this program. Approximately 60-70 projects, contingent on appropriations.</p>	<p>This NOFO covers two application submittal periods.</p> <p>Proposals received prior before Tuesday, October 17, 2023, at 4:00 p.m. Mountain Daylight Savings Time will be considered for FY 2023 funding.</p> <p>Closed on May 21, 2024 for FY 2024 proposal.</p>
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PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
<p>Planning and Project Design Grants</p> <p>Approximately \$35 million in available program funds, including BIL funding (including funding for Section 40904 Multi-Benefit Projects To Improve Watershed Health) will be provided through this Funding Opportunity.</p>	<p>Collaborative planning and design projects to support water management improvements, include the following activities:</p> <p>Water Strategy Grants (WSG):Planning projects to support water management solutions, such as water marketing, water conservation, drought resilience, and ecological resilience</p> <p>Project Design Grants (PDG):Projects to develop the final design of on-the-ground water management construction and restoration projects.</p> <p>Drought Contingency Planning (DCP):Projects to develop a new or update an existing Drought Contingency Plan.</p>	<p>Category A Applicants: States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority.</p> <p>Category B Applicants: Nonprofit conservation organizations that are acting in partnership and an entity described above. Applicants must be located in the 17 Western States, Alaska, Hawaii, American Samoa, Guam, the Northern Mariana Islands, the Virgin Islands, or Puerto Rico.</p> <p>Note: Drought Contingency Planning funding is limited to Category A and applicants located in the 17 Western States, Hawaii, American Samoa, Guam, the Northern Mariana Islands, or the Virgin Islands.</p>	<p>Up to \$400,000 for projects that can be completed within 3 years.</p> <p>Non-Federal Cost Share: 25 - 50%</p>	<p>The FY23 Funding Opportunity was posted August 7, 2023.</p> <p>The first round of applications were due October 17, 2023 and are currently under review. Selections are expected March 2024.</p> <p>The second round of applications closed on April 4, 2024.</p>

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
Title XVI Water Recycling and Desalination Planning	<p>The objective of this NOFO is to invite eligible applicants to leverage their funds and resources by cost sharing with Reclamation on the following activities:</p> <ul style="list-style-type: none"> • The development of new water recycling and desalination feasibility studies. • Planning and preliminary design activities for water recycling or desalination construction projects. • Environmental compliance activities for water recycling or desalination construction projects 	<p>Funding Group I: States, Indian Tribes, irrigation districts, and water districts; and any state, regional, or local authority. All applicants must be located in the Western United States or United States Territories as identified in the Reclamation Act of June 17, 1902, as amended or Hawaii.</p> <p>Funding Group II: States, Indian Tribes, municipalities, irrigation districts, water districts, wastewater districts; and any state, regional, or local organization with water or power delivery authority. All applicants must be located in the Western United States or United States Territories as identified in the Reclamation Act of June 17, 1902, as amended.</p>	<p>Funding Group I applicants may request up to \$1 million in federal funding for projects with an anticipated total project cost of less than \$500 million.</p> <p>Funding Group II applicants may request up to \$5 million in federal funding for projects with an anticipated total project cost of greater than \$500 million.</p> <p>Applicants may request reimbursement for work that can be completed within two years. Federal cost-share is limited to 50% of total costs for projects under Funding Group I and 25% of total costs for projects under Funding Group II.</p>	<p>FY23 Funding Opportunity selections were announced on September 27, 2023. 31 projects were selected to receive \$29 million in appropriated funds</p> <p>To view this funding opportunity, please visit www.grants.gov and search for funding opportunity number R23AS00076.</p>
Title XVI Congressionally Authorized Projects – FY 2023 and 2024	Funding for planning, design, and construction of specific congressionally authorized water recycling and reuse projects	Sponsors of water reclamation and reuse projects specifically authorized for funding under Title XVI of P.L. 102-575.	<p>Typically, between \$1 million and \$6 million per applicant.</p> <p>Non-Federal Cost Share: 75% or greater.</p>	<p>The FY 23 and FY 24 Funding Opportunity was posted September 28, 2023.</p> <p>First round closed on December 7, 2023.</p> <p>2ND round of applications are due by September 30, 2024.</p>

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
Title XVI WIIN Act Water Reclamation and Reuse Projects – FY 2023 and 2024	Funding for planning, design, and construction of WIIN Act water recycling and reuse projects	Sponsors of water reclamation and reuse projects with completed feasibility studies that have been submitted to Reclamation for review.	Typically, between \$1 million and \$6 million per applicant. Non-Federal Cost Share: 75% or greater.	The FY 23 and FY 24 Funding Opportunity was posted September 28, 2023. First round closed on December 7, 2023. 2ND round of applications are due by September 30, 2024.
USBR Large-Scale Water Recycling Projects - FY 2023 and 2024	As part of the implementation of the new Large-Scale Water Recycling Program, Reclamation has identified four stages of project development: planning; 30% design; 100% design; and construction. As each project proposed for funding progresses through those stages, Reclamation will work with the project sponsor to gather and review updated information to ensure that the project meets all statutory and programmatic requirements.	Applicants eligible to receive financial assistance to fund activities under this NOFO include: <ul style="list-style-type: none"> • States, Indian Tribes, municipalities, irrigation districts, water districts, wastewater districts; and any state, regional, or other organization with water or power delivery authority, • State, regional, or local authorities, the members of which include one or more organizations with water or power delivery authority; and • An agency established under State law for the joint exercise of powers, or a combination of entities described above. <p>All applicants must be located in the Western United States; specifically: Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming.</p>	Up to \$180 Million. Federal Funding Amount is based on max 25 percent of the total cost of planning, design, and construction completed after the date of Reclamation’s feasibility study review findings within three years of the application’s submittal period deadline. Non-Federal Cost Share: 75% or greater.	Rolling NOFO will have three submission periods: First round closed on November 21, 2023; Second round due March 29, 2024; Final round of applications are due September 30, 2024.

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
<p>WaterSMART Desalination Construction Projects Under the WIIN Act - FY 2023 and 2024</p>	<p>The objective of this Notice of Funding Opportunity (NOFO) is to invite sponsors of eligible seawater and brackish water desalination projects to request cost-shared funding for planning, design, and/or construction of those projects. The NOFO is issued under the authority of the Water Desalination Act of 1996, Public Law (P.L.) 104-298, as amended by section 4009(a) of Title II, Subtitle J of the Water Infrastructure Improvements for the Nation (WIIN) Act, P.L. 114-322. The DOI WaterSMART (Sustain and Manage America’s Resources for Tomorrow) Program provides a framework for Federal leadership and assistance to stretch and secure water supplies for future generations in support of the Department’s priorities.</p>	<p>Sponsors of seawater or brackish water desalination projects eligible to receive financial assistance to fund activities under this NOFO include state or local sponsors, which may include but is not limited to:</p> <ul style="list-style-type: none"> • States, Indian Tribes, municipalities, irrigation districts, water districts, wastewater districts; and any state, regional, or other organization with water or power delivery authority, • State, regional, or local authorities, the members of which include one or more organizations with water or power delivery authority; and • An agency established under State law for the joint exercise of powers, or a combination of entities described above. <p>All applicants must be located in the Western United States; specifically: Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming.</p>	<p>Up to \$30 Million. Federal Funding Amount is based on max 25 percent of the total cost of planning, design, and construction completed after the date of Reclamation’s feasibility study review findings within three years of the application’s submittal period deadline.</p> <p>Non-Federal Cost Share: 75% or greater.</p>	<p>This is a Rolling NOFO and will remain open until September 30, 2024, with two application submittal periods. Due date for applications:</p> <p>First Application Submittal Period due date was December 7, 2023.</p> <p>First round of applications closed on December 7, 2023.</p> <p>Second and Final Application Submittal Period due date is September 30, 2024, 4:00 p.m. MDT.</p>

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
USEPA Water and Infrastructure Finance and Innovation Act (WIFIA) Program	<p>Wastewater conveyance and treatment projects</p> <p>Drinking water treatment and distribution projects</p> <p>Enhanced energy efficiency projects at drinking water and wastewater facilities</p> <p>Desalination, aquifer recharge and water recycling projects</p>	<p>Local, state, tribal and federal government entities</p> <p>Partnerships and joint ventures</p> <p>Corporations and trusts</p> <p>CWSRF and DWSRF programs</p>	<p>\$20M minimum project size for large communities</p> <p>\$5M minimum project size for small communities (<25,000)</p>	<p>Funding available now</p> <p>49% maximum portion of eligible project costs that WIFIA can fund</p> <p>EPA announces WIFIA funding availability and application process details in the Federal Register and on its website (www.epa.gov/wifia)</p> <p>NEPA, Davis-Bacon, American Iron and Steel and all federal crosscutter provisions apply.</p> <p>Includes acquisition of property if it is integral to the project or will mitigate the environ. impact of a project.</p>

(1) The Summary of Funding Opportunities for local, State and Federal is not an exhaustive recycled water opportunities and welcome any input from the WaterReuse membership to add additional opportunities from other organizations.

Upcoming Conferences, Webcasts & Meetings

- **Incorporating Academic Research into the Coordinated National Research Strategy for Water Reuse** | *Webcast: Aug. 20, 1 pm PST*
- **Realizing the Untapped Potential for Stormwater Capture & Reuse Across the U.S.** | *Webcast: Aug. 22, 12pm PST*
- **2024 WaterReuse at Pacific Northwest Clean Water Assoc. Conf.** | Sep. 8 - 11 | Boise
- **2024 WaterReuse Texas Conference** | Sep. 9-11 | Austin
- **2024 WaterReuse California Conference** | Sep. 15 - 17 | Garden Grove
- **2024 Industrial & Commercial Water Reuse Conference** | Nov. 19 - 21 | Indian Wells
- **2025 WaterReuse Symposium** | March 16 - 19 | Tampa (*Abstracts due on Aug-16*)

See www.watereuse.org to register and for more information



Save the Date!

Los Angeles and Orange County WaterReuse Summit

Ripple Effect: Recycle, Recharge, Repeat!

October 8, 2024

11 am – 3 pm

Long Beach Aquarium of the Pacific

100 Aquarium Way
Long Beach, CA 90802

Pacific Visions Auditorium Capacity of
190 Attendees!

Featuring:

- Expert panel discussion
- Presentations by local reuse leaders
- Networking opportunities
- Complimentary parking and lunch!





Los Angeles and Orange County WaterReuse Summit



Don't Miss the Opportunity to Sponsor!

► Blue Whale Sponsorship \$1000

- 20-minute presentation on water reuse topic
 - Company/agency logo on event flyer, handouts, and intro slides
 - Limited slots remaining!
- Must respond by August 23, 2024**

► Dolphin Sponsorship \$500

- Company/agency logo on event flyer, handouts, and intro slides

Contact Alex Waite (alex.waite@santamonica.gov) or LA & OC chapter board member for more information.

➤ Meeting Hosts for 2024

➤ Oct. 8th – Aquarium of the Pacific (joint meeting with LA Chapter)

➤ Dec – TBD

➤ Feb – TBD

➤ Other Announcements/Discussion Items

➤ Roundtable: What's going on?

THANK YOU

Meeting Adjourned