



PURE WATER PROJECT
LAS VIRGENES-TRIUNFO

Bringing Our Water Full Circle

Pure Water Project Las Virgenes-Triunfo

WaterReuse LA Chapter Meeting
Pure Water Project Las Virgenes-Triunfo
Project Update
Oliver Slosser, PE – Program Manager

August 8, 2023

Agenda

- Why Pure Water
- Summertime Compliance
- Demonstration Facility
- Pure Water Project Overview
- Water Augmentation
- Public Outreach
- Funding and Financing
- Schedule and Procurement



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Why Pure Water?

JPA's Pure Water Project has Three Core Objectives

Protect Malibu Creek

- Comply with more stringent regulatory requirements for discharging to Malibu Creek
- Divert flows from Tapia WRF

Create a Local Drinking Water Source

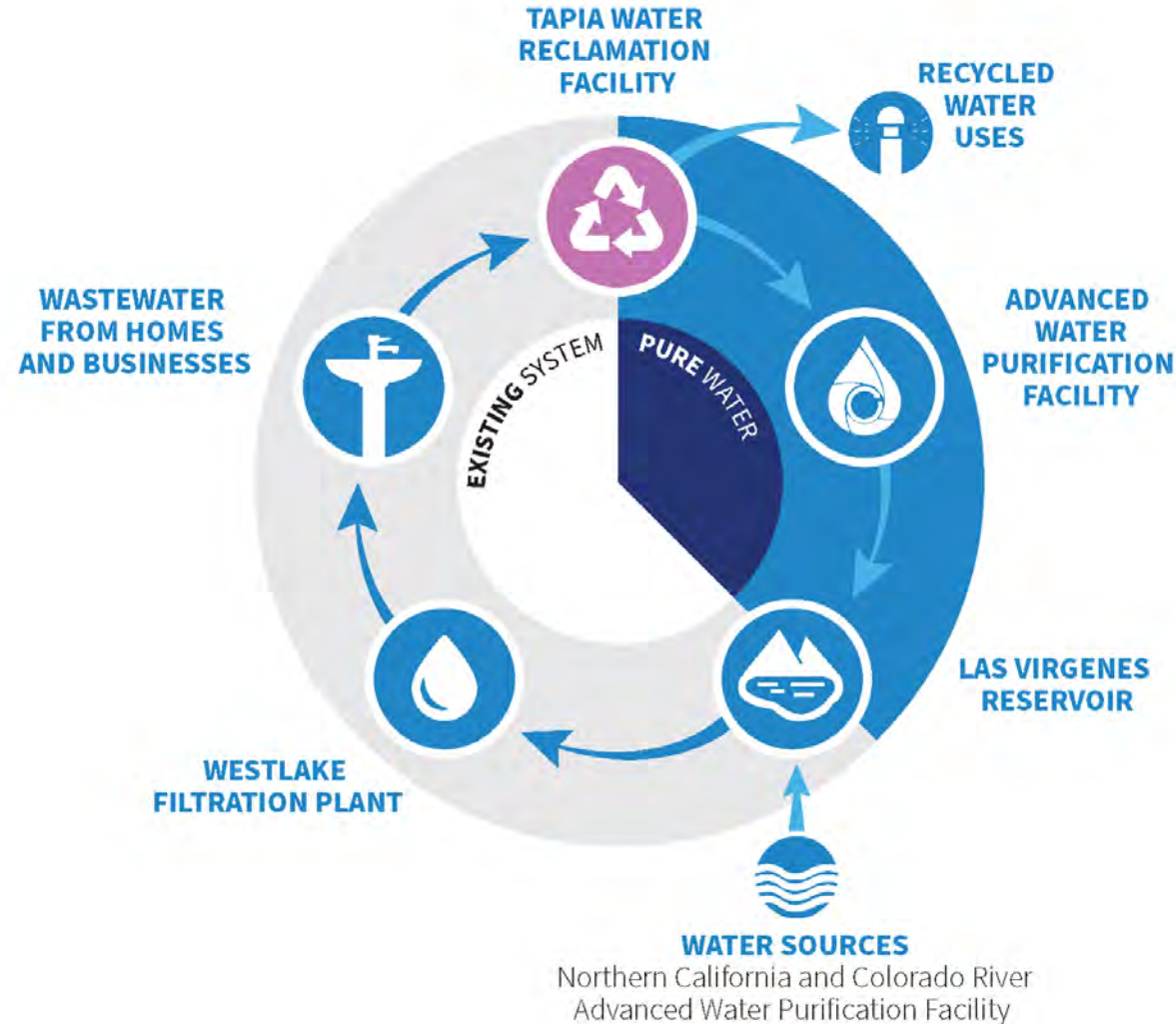
- Maximize reuse with reservoir water augmentation
- Create a viable resource to supplement the region's water supplies

Balance Seasonal Variation

- Balance seasonal variation of recycled water demand
- Manage salinity in the region with new Advanced Water Purification Facility (AWPF), conveyance, and concentrate management



All Water Has Value...Bringing Our Water Full Circle





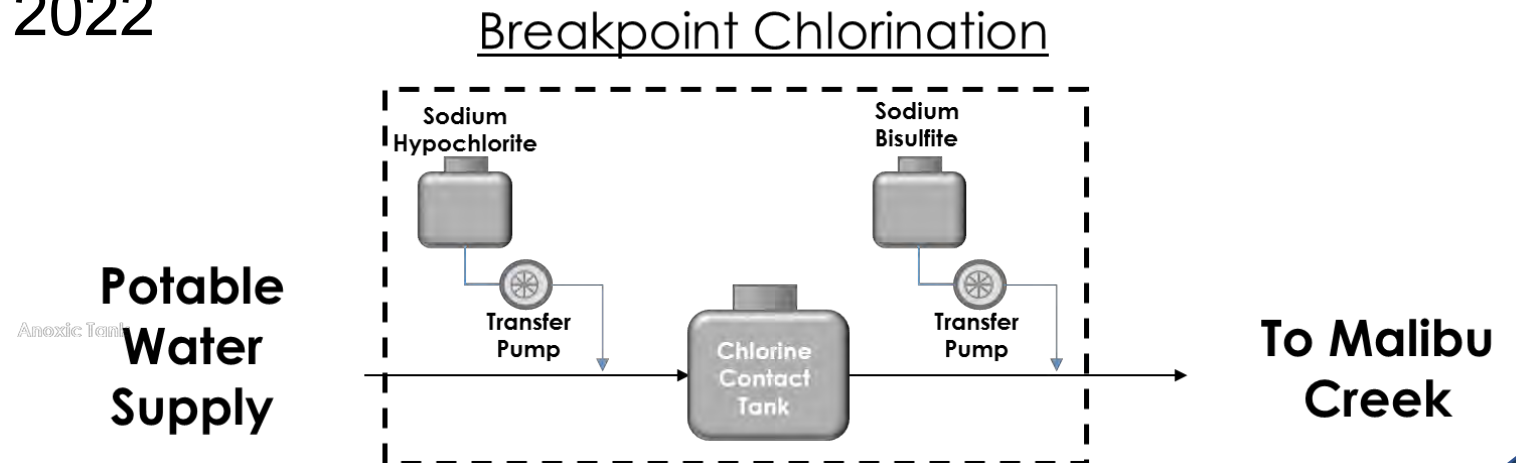
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Summertime Compliance

Summertime Compliance

- Tapia WRF new permit approved on June 2017 requires flow augmentation to Malibu Creek to maintain 2.5 cubic feet per second (CFS) for fish flows.
- Nutrient limits for summertime Augmentation Water will be:
 - *1.0 mg/L total nitrogen (TN)*
 - *0.10 mg/L total phosphorous (TP)*
- Breakpoint chlorination of potable water was selected as most cost effective solution
- Construction to be completed 2022





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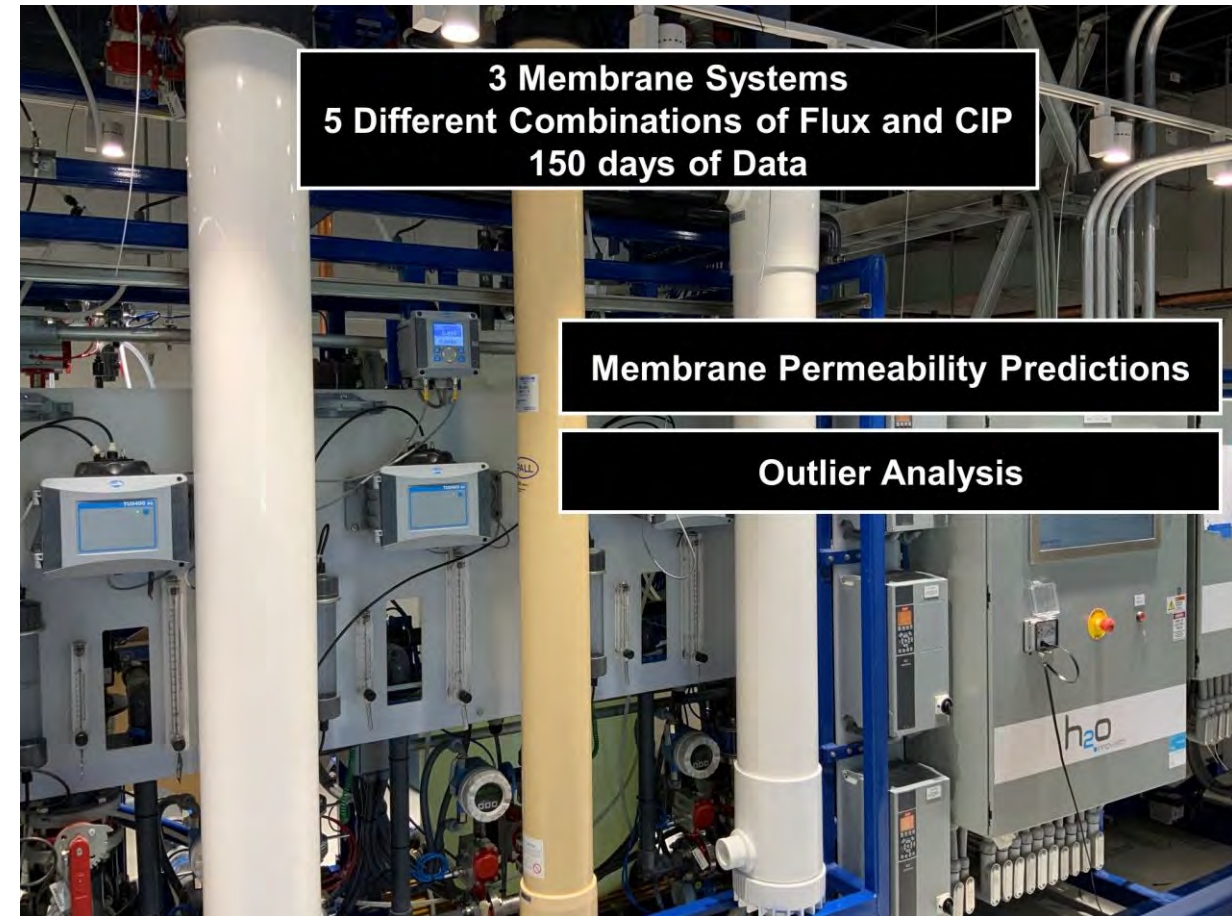
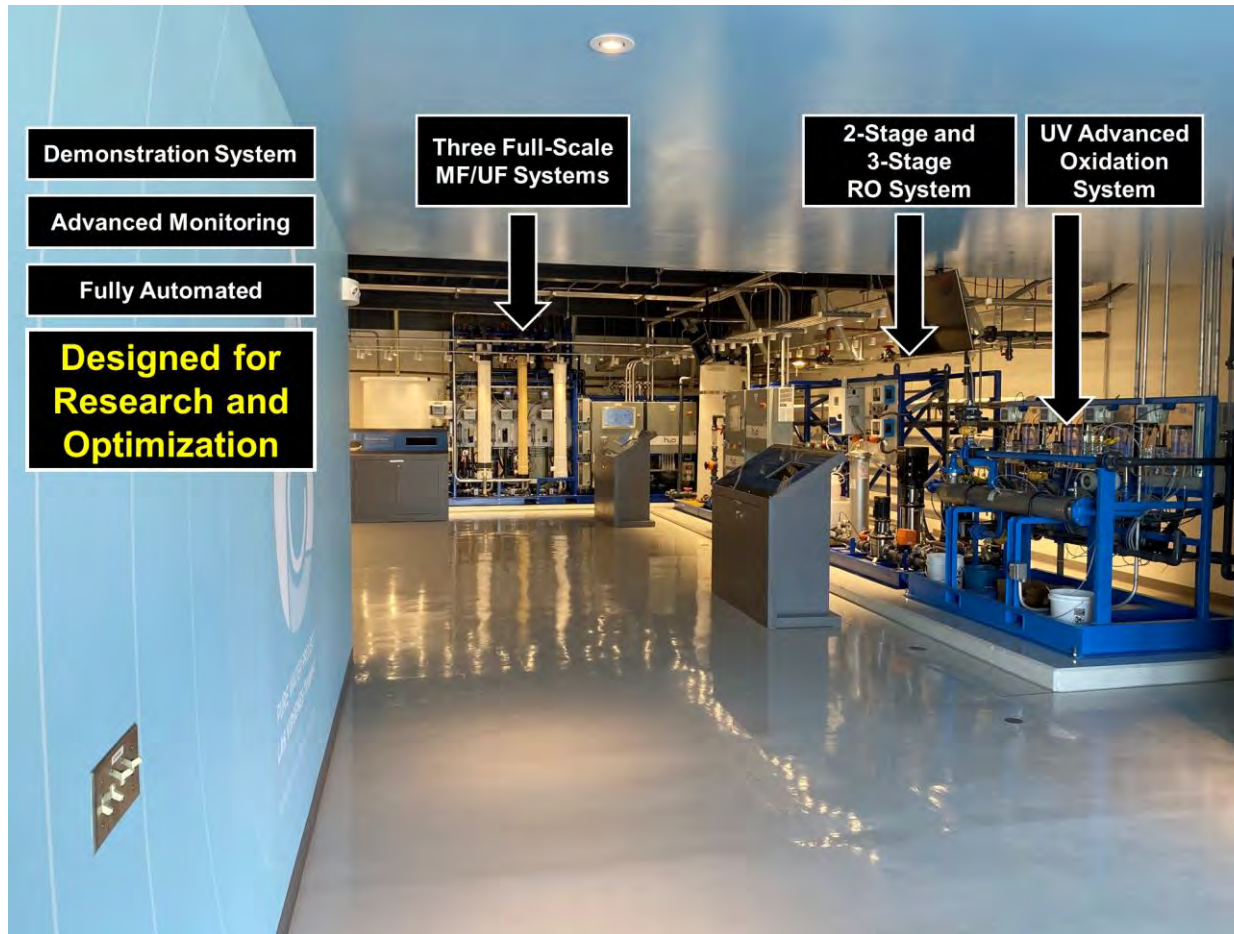
Demonstration Facility

Las Virgenes-Triunfo JPA Pure Water Demonstration

- Completed in 2020
- Provides Multiple benefits to the JPA
 - *Ability to test full scale equipment*
 - *Experience running Tapia WRF effluent through advanced treatment*
 - *Investigation into disinfection byproducts, scaling potential, and other elements of the full scale facility*
 - *Public outreach and education*
 - *Operator training*
 - *System optimization*



Las Virgenes-Triunfo JPA Pure Water Demonstration



Advanced Treatment Operator Experience

- CA AWTTO accreditation requires experience.
- Operators firsthand experience full range of activities beyond that examined in accreditation:
 - *Membrane Cleaning and Repair*
 - *Troubleshooting*
 - *Instrument Calibration and Maintenance*
 - *Compliance Sampling*
- Training now means competent full scale operation.





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Pure Water Project Overview

Pure Water Project's Unique Features

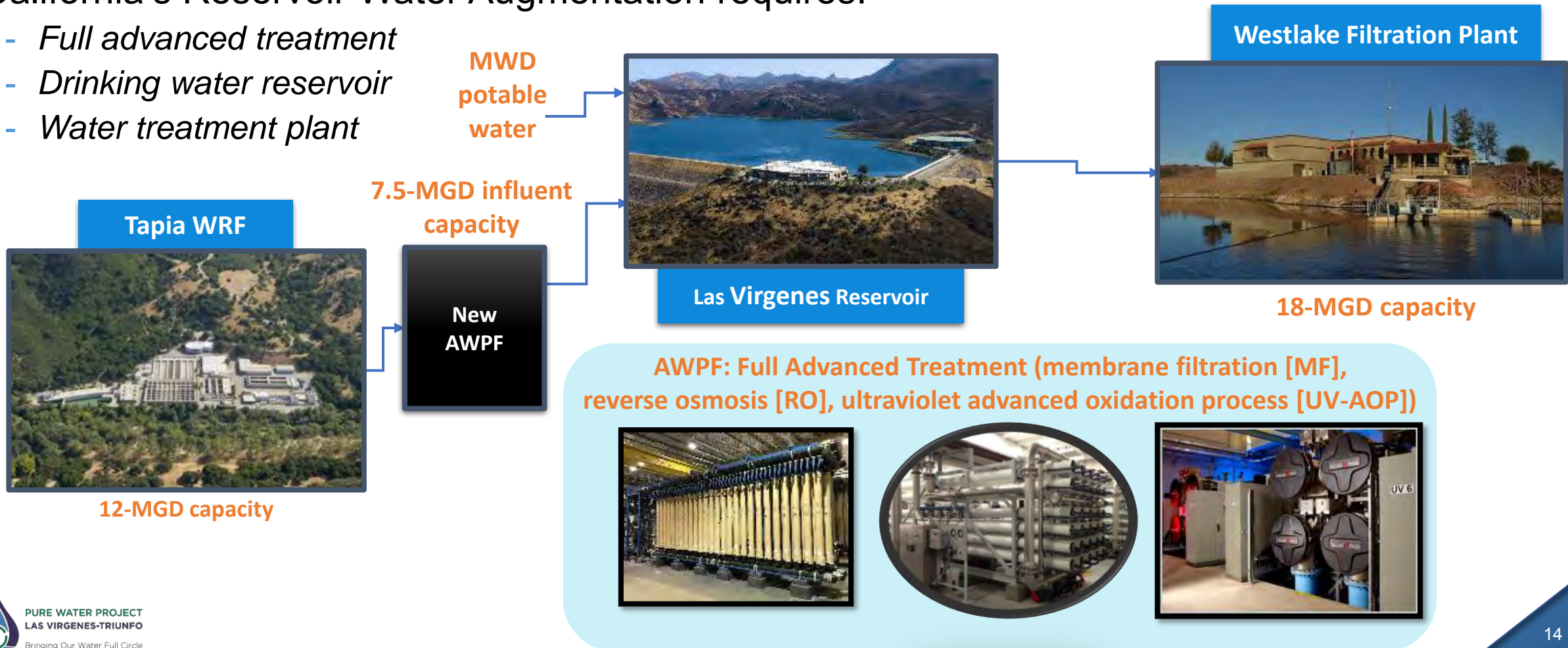
- California reservoir water augmentation (surface water source augmentation project)
- Facility locations require significant conveyance
- Utilization of existing infrastructure
- AWPf will:
 - Serve as a discharge mechanism for Tapia WRF
 - Receive seasonally variable flowrates (same source as Title 22 flows)

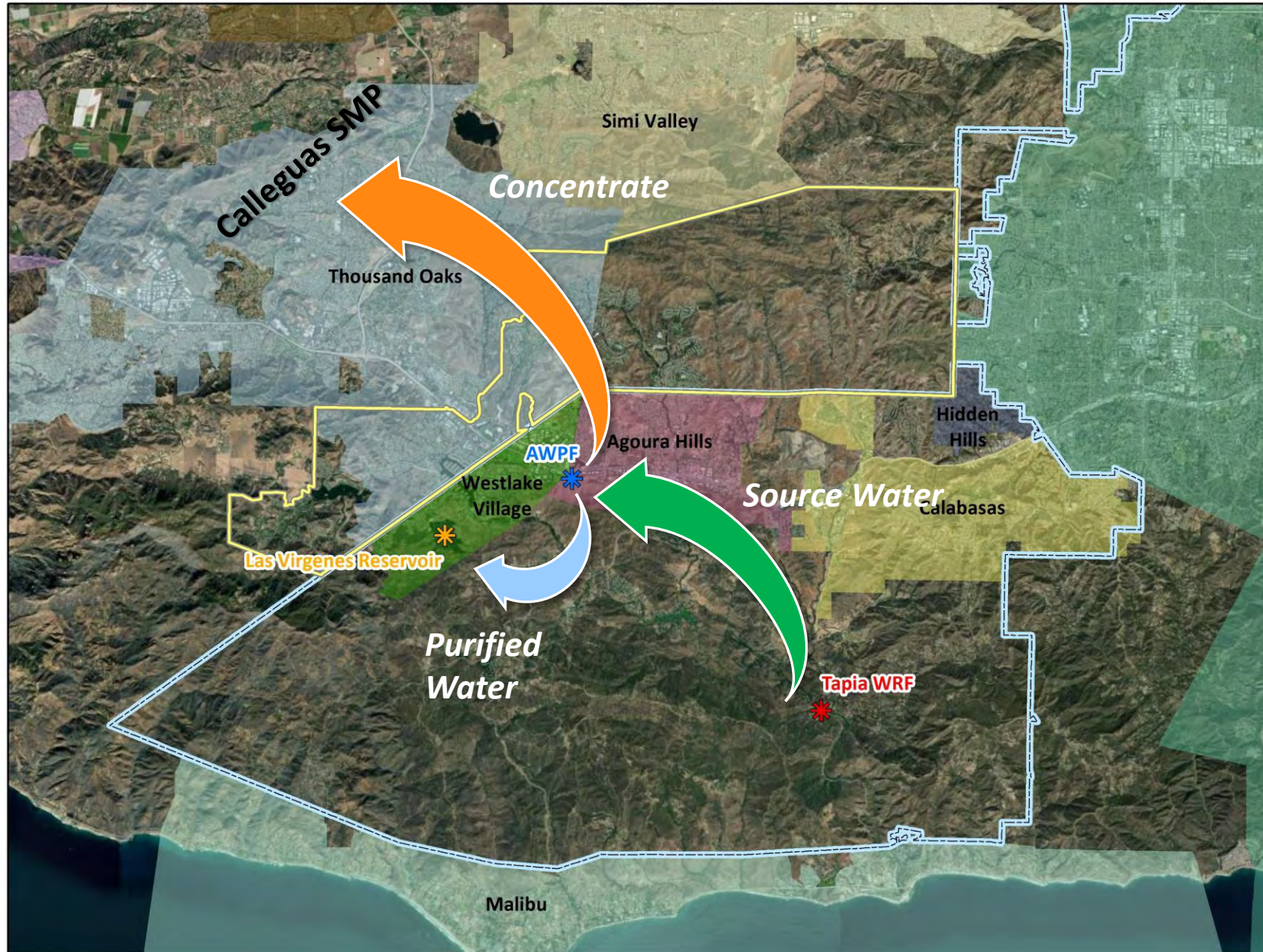


Pure Water Project Elements

- California's Reservoir Water Augmentation requires:

- Full advanced treatment
- Drinking water reservoir
- Water treatment plant





- AWPf Site on Agoura Rd
- Main conveyance
 - Source Water from Tapia WRF
 - Purified Water to Las Virgenes Reservoir
 - Concentrate to Calleguas Salinity Management Pipeline (SMP)
- Conveyance corridors are similar for both sites



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AWPF

Project Location: 30800 Agoura Road in City of Agoura Hills

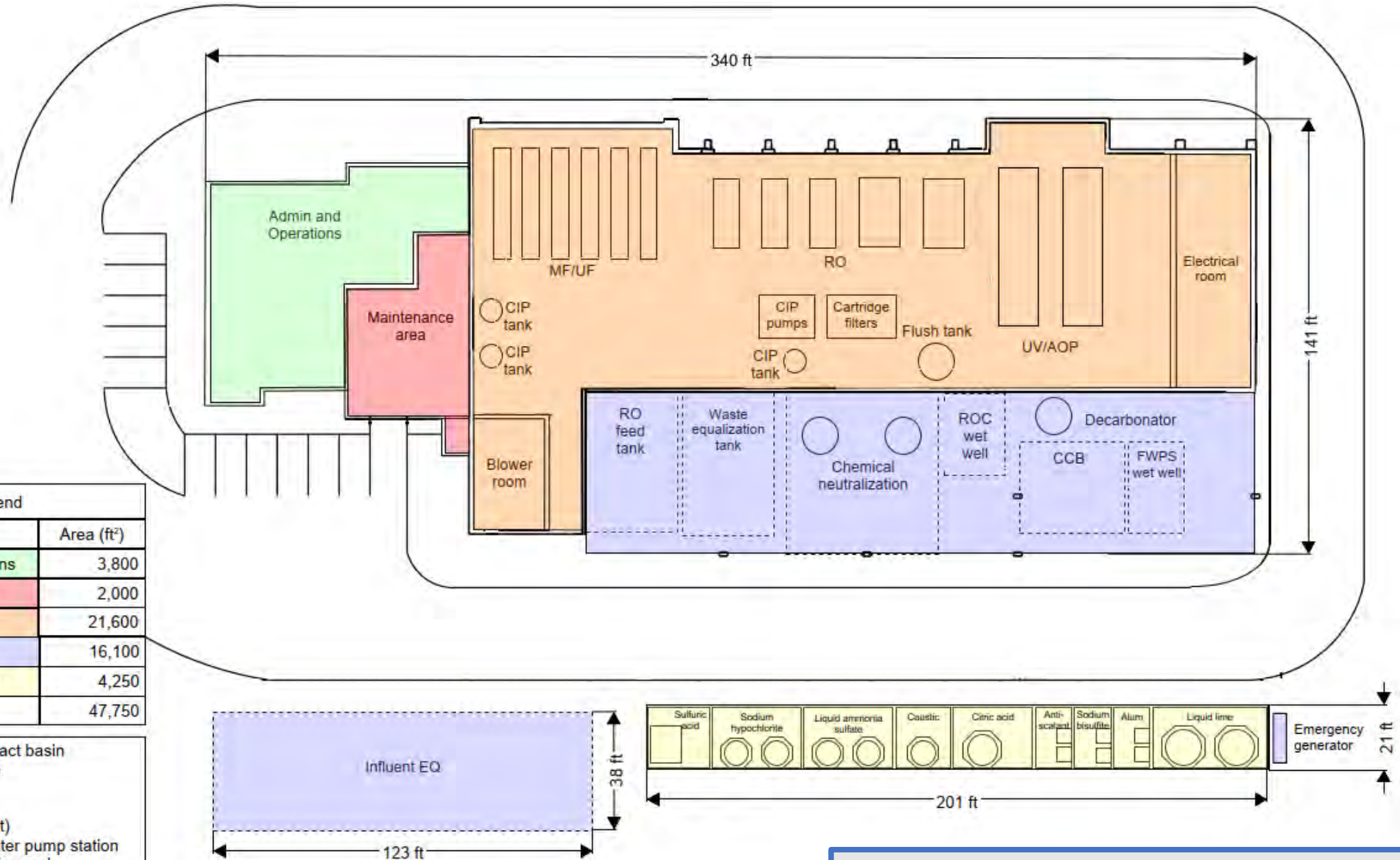


Policy Principals

1. Involve the City and the Community in the development and design of facilities.
2. Preserve the natural beauty of the site.
3. Reserve a portion of the property for public benefit in coordination with the City of Agoura Hills.
4. Minimize the impact to oak trees and other natural resources on the property.
5. Design the facilities with architecture compatible with the surrounding area.
6. Minimize the overall footprint of the facility.
7. Provide for the on-site treatment and/or capture of stormwater.
8. Keep the community and recreational users informed of any project-related activities that may affect them.
9. Minimize the potential for noise or light to emanate from the site.
10. Utilize renewable energy sources to offset demands at the site.

Legend	
Function	Area (ft ²)
Admin and Operations	3,800
Maintenance area	2,000
Process - Indoor	21,600
Process - Outdoor	16,100
Chemical - Outdoor	4,250
Total	47,750

CCB = chlorine contact basin
 CIP = clean-in-place
 EQ = equalization
 ft = foot (feet)
 ft² = square foot (feet)
 FWPS = finished water pump station
 MF/UF = microfiltration and ultrafiltration
 RO = reverse osmosis
 ROC = reverse osmosis concentrate
 UV/AOP = ultraviolet advanced oxidation process



AWPF Conceptual Layout

AWPF at Agoura Road Site



Sources: ESRI World Topo Map; ESRI World Street Map

AWPF at Agoura Road Site





AWPF at Agoura Road Site



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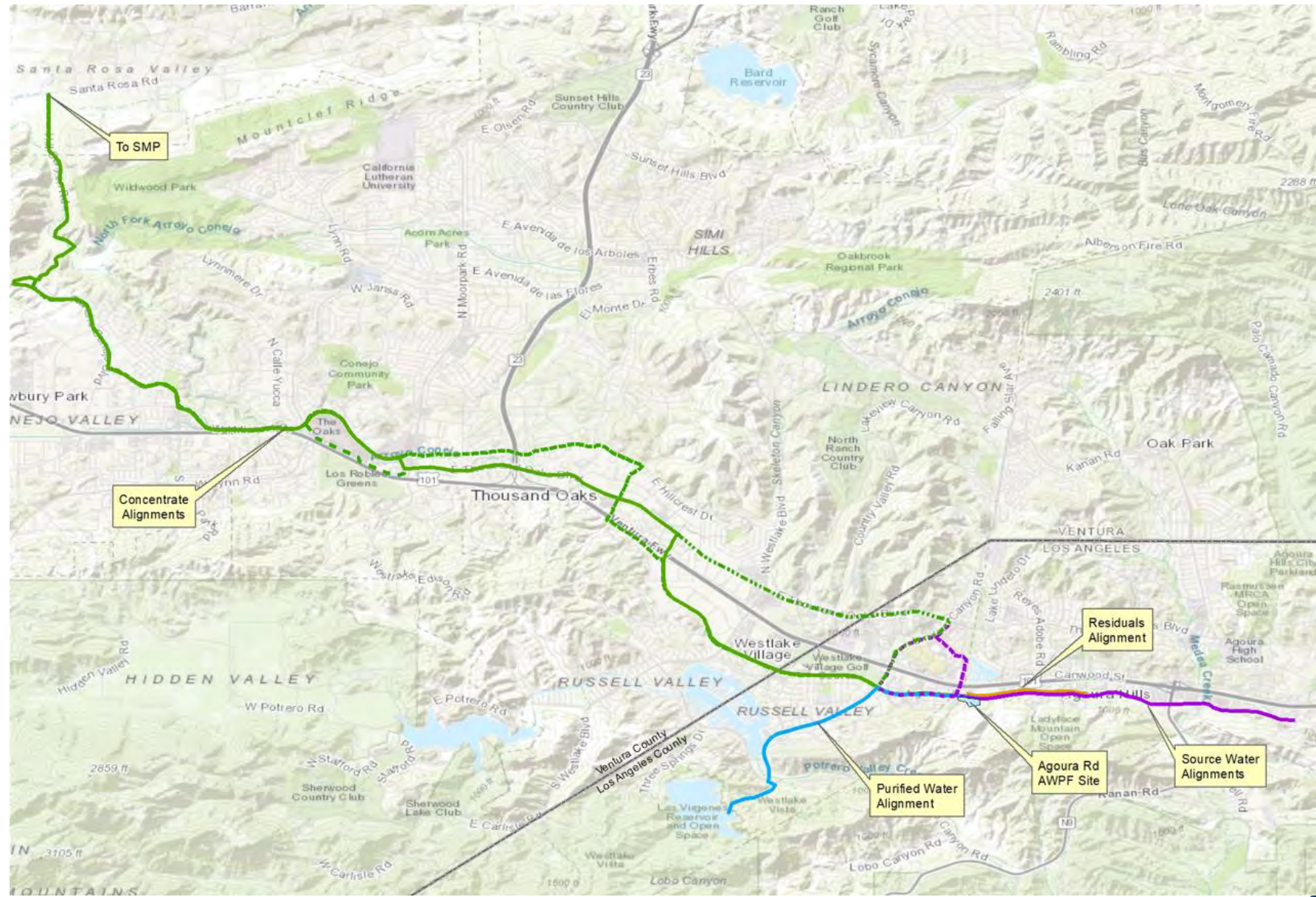
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Conveyance

Conveyance Overview

- Source Water
- Purified Water
- Concentrate
- Residuals

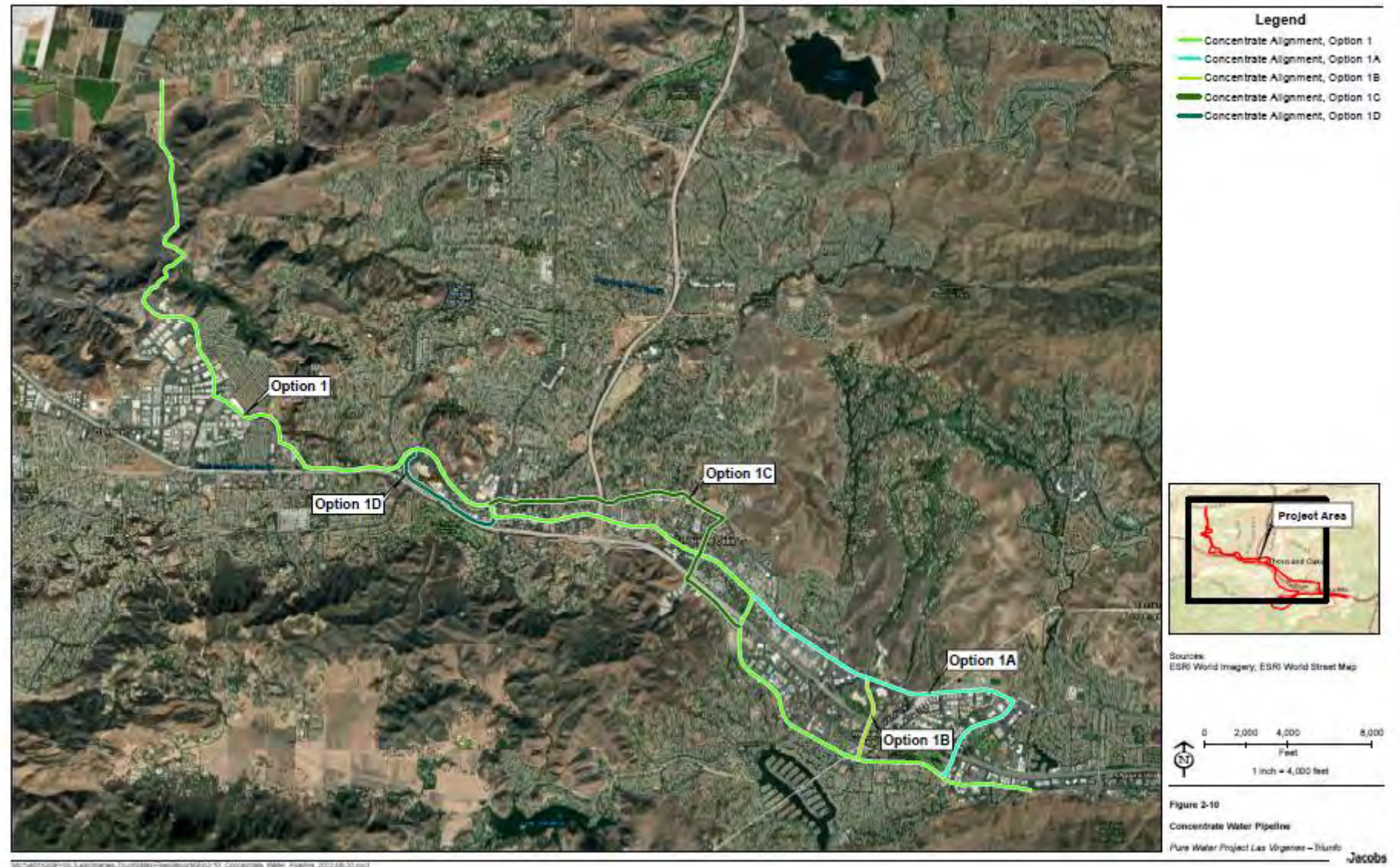
≈ 20 miles of pipelines



Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

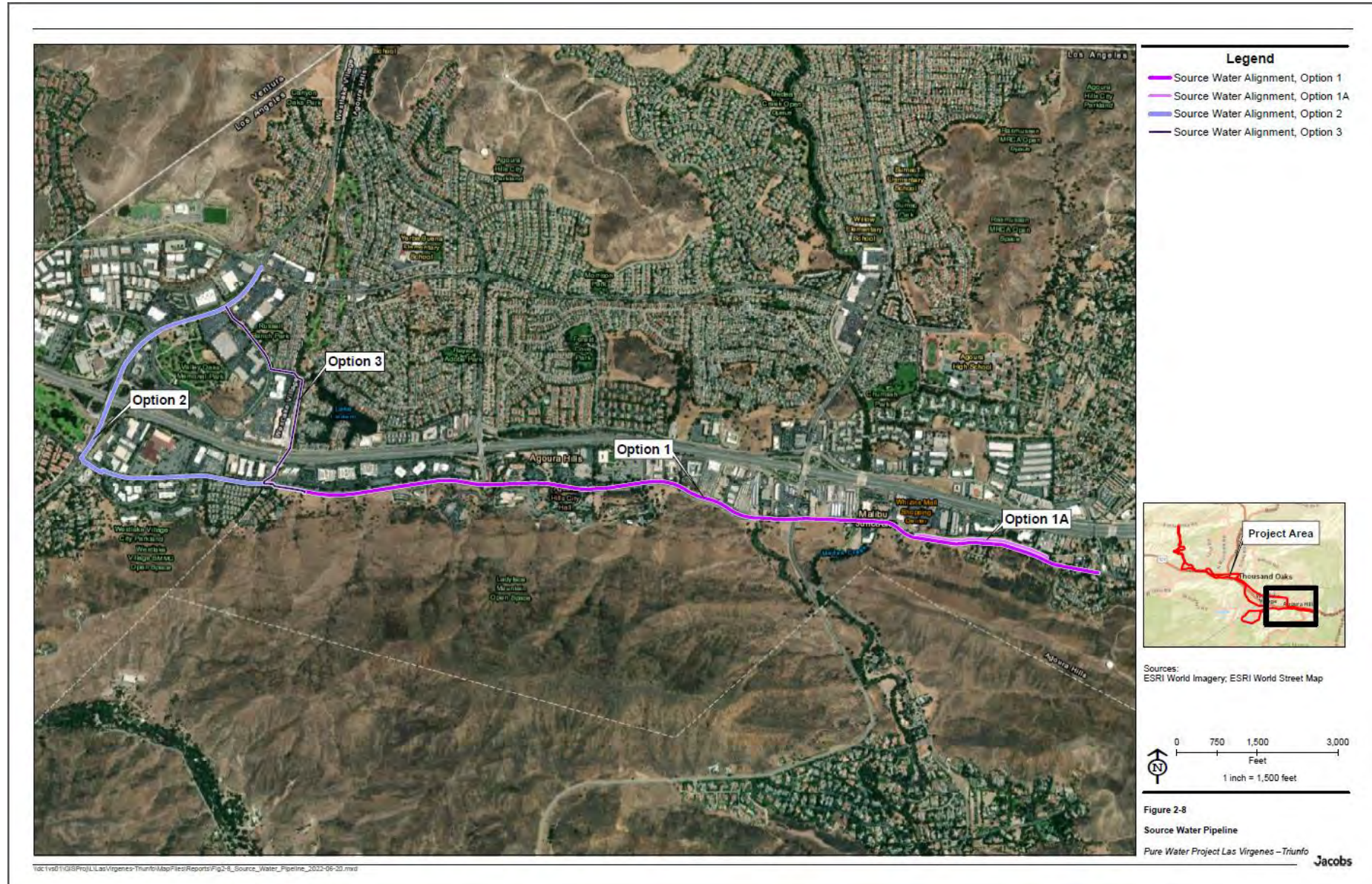
Concentrate Pipeline

- Several Alternatives are being considered
- Finding alternatives that minimize impacts to residents and businesses, and minimize construction time



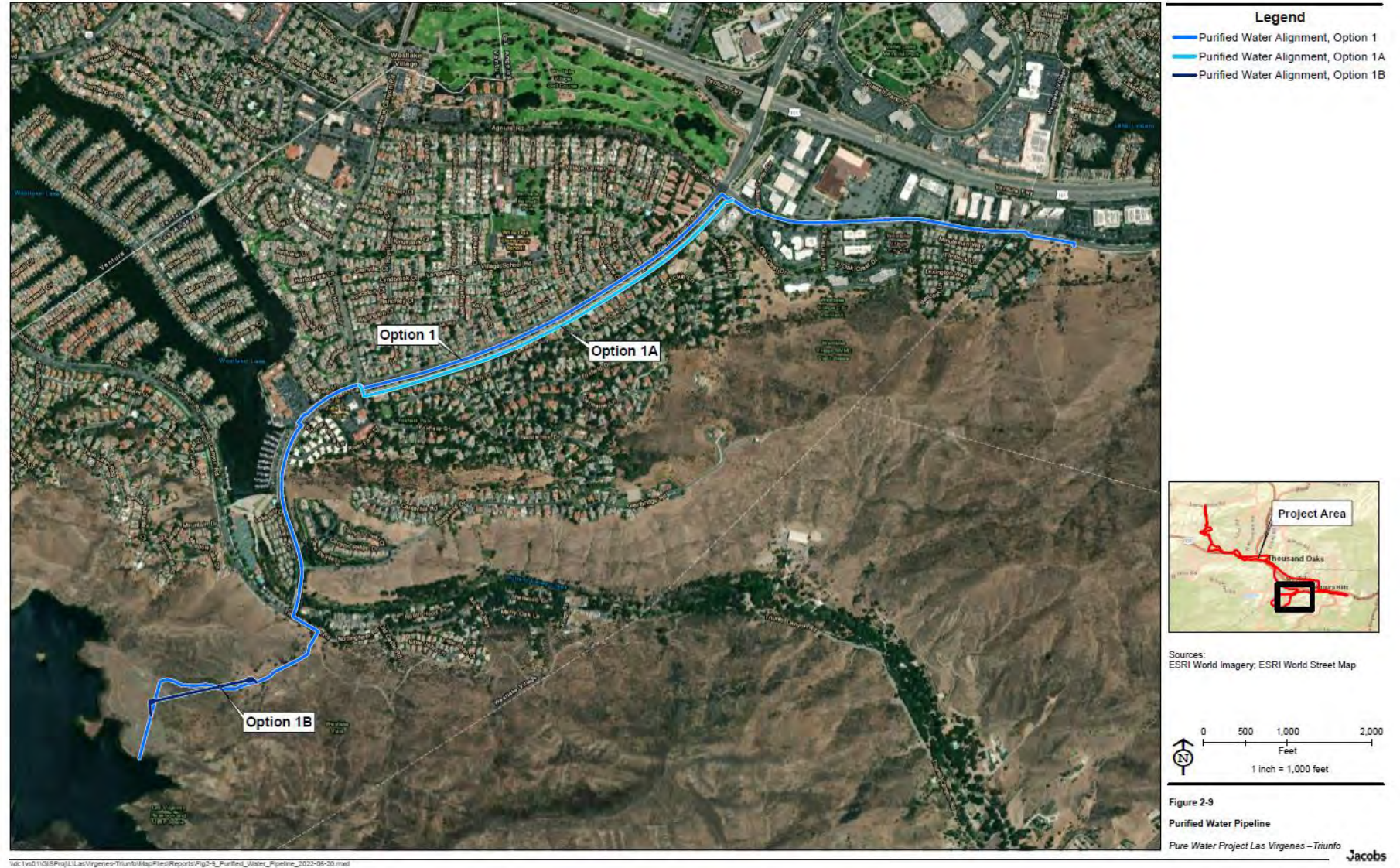
Raw Water Pipeline

- Conveys water from the recycled water distribution system to the AWPf
- Image assumes Agoura Road site for AWPf



Product Water Pipeline

- Conveys highly purified water from the AWPf to Las Virgenes Reservoir
- Image assumes Agoura Road site for AWPf





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Augmentation

Augmentation Sources



- Additional Sources of water for the AWPf are currently being investigated including:
 - *Impaired groundwater from neighboring agencies, such as the Los Robles Wells in Thousand Oaks, CA*
 - *Excess Reclaimed water from Hill Canyon Treatment Plant*
 - *Stormwater and dry water diversions that may help neighboring cities meet their MS4 requirements*
- These sources will help maximize use of the AWPf, create more local water, improve operability of the AWPf, and help neighboring cities and agencies meet their regulatory requirements
- Initial expansion is maximizing seasonal utilization



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Public Outreach

Public Outreach Efforts to Date

- 5 "Taste The Water, Explore The Garden" Tours
- 31 Pure Water School Tours
- 57 Pure Water Tours (General Public)
- 26 Pure Water Tours for consultants, water boards and staff, and politicians' staffs
- 2021 Earth Day – Virtual Garden Tour featuring Urban Water Group, Inc.
- 2022 Earth Day – Pure Water Demo Facility & Sustainability Garden Tour
- Pure Water Tasting Series Pt. 1 – “Pure Coffee” – 3 Pure Water Tours
- Pure Water Tasting Series Pt. 2 – “Pure Gelato” – 5 Pure Water Tours
- Pure Water Tasting Series Pt. 3 – “Pure Beer”

Full Circle Podcast



Here you can find the latest episodes and hear the story of how the Las Virgenes - Triunfo Joint Powers Authority, a partnership between Las Virgenes Municipal Water District and Triunfo Water & Sanitation District - is meeting 21st century water supply issues while protecting the natural beauty of the incredible Malibu Creek Watershed.



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Funding and Financing

Funding and Financing

- In 2022, secured \$10.2M in Grant Funding from Bureau of Reclamation WaterSMART: Title XVI WIIN Water Reclamation and Reuse Program Funding
- Current Projected Project Cost of project is \$364M
- Received invitation to apply for WIFIA loan which can cover up to 49% of project costs
- JPA has a detailed plan for funding and financing, and seeks to limit the impact to customer rates as much as possible
 - SRF
 - WIFIA
 - MWD LRP Program
 - BOR WaterSmart



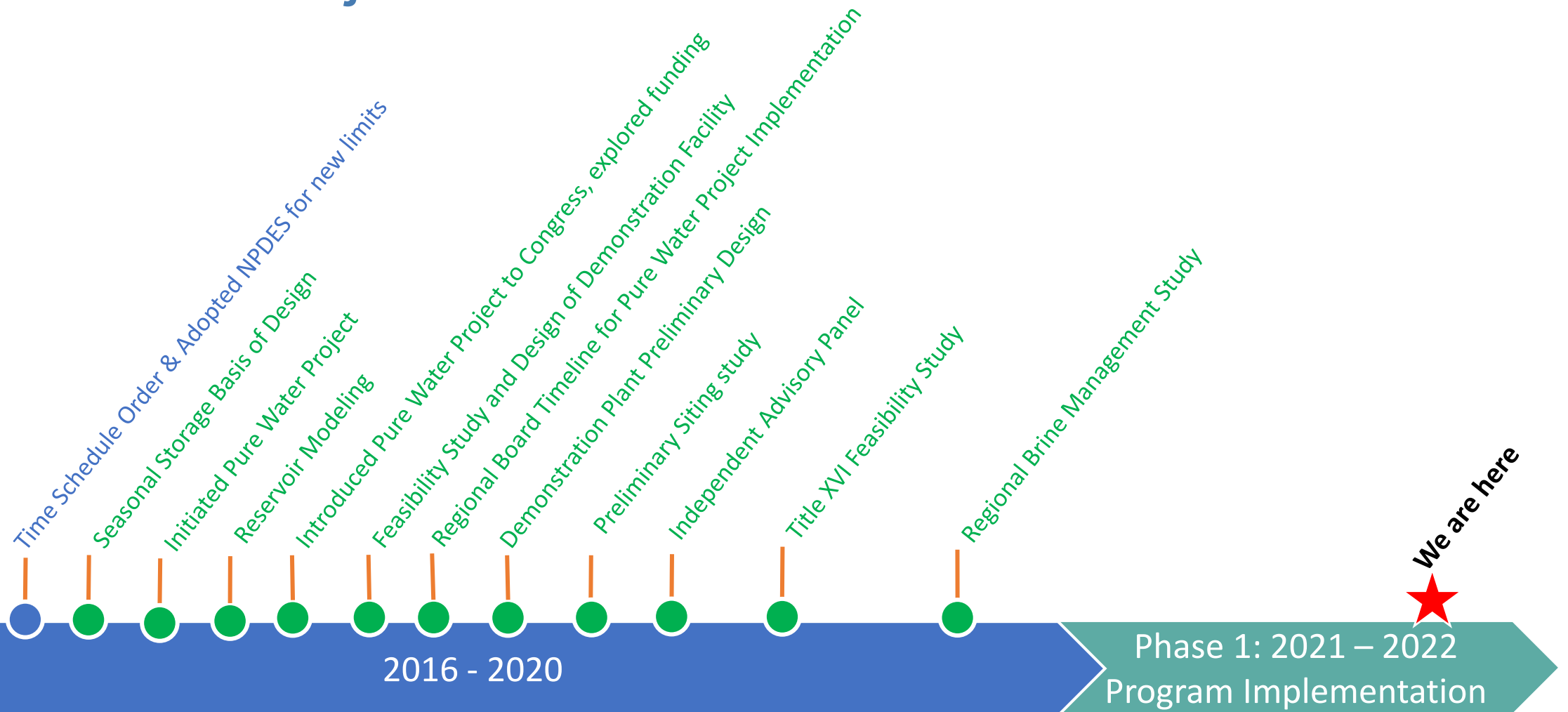


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Schedule and Procurement

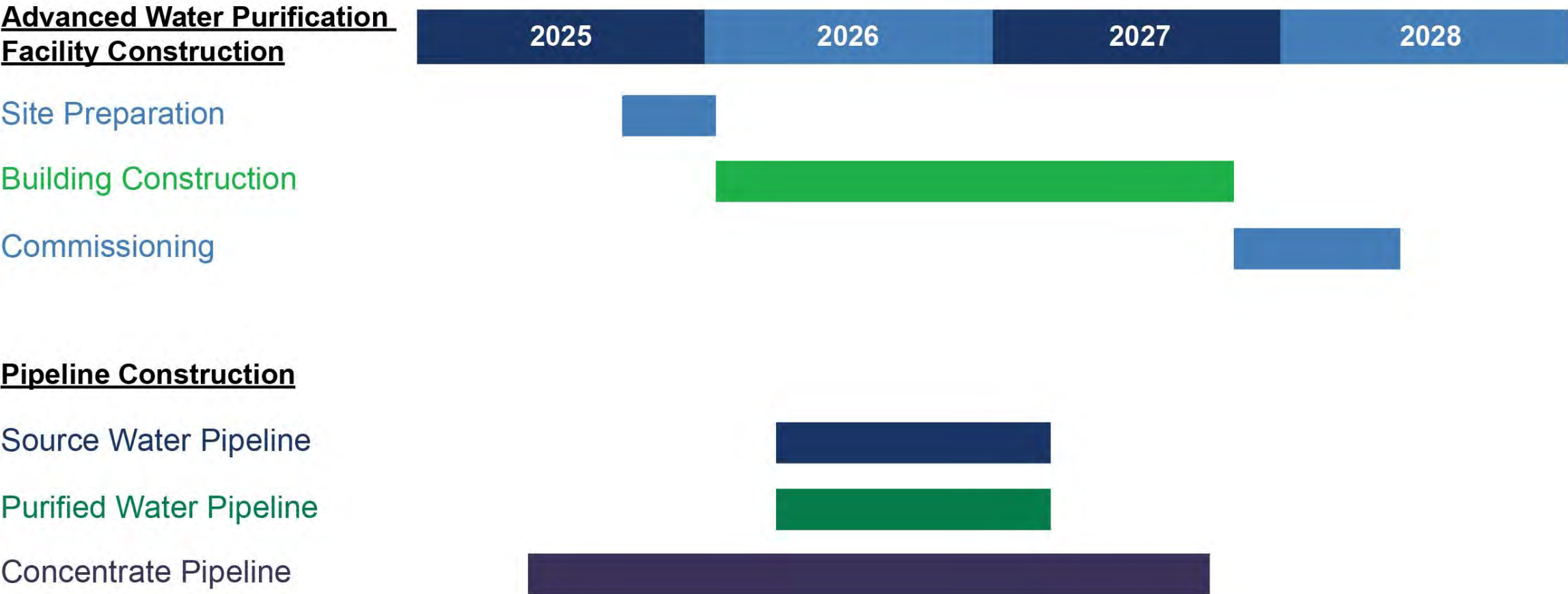
Pure Water Project Timeline



Procurement

- RFQ for AWPf and ROC pipeline release April 2023; seven SOQs were received
- Three teams were shortlisted in June, 2023
- RFP release in July/August. Interviews and Confidential Meetings to follow.
- JPA wishes to have a PDB Team on Board by February 2024
- AWPf and ROC Pipeline contract estimated at \$245M, 67% of Project Budget
- Other Procurements (DBB) to include:
 - *Reservoir testing*
 - *Other pipelines*
 - *Pump System Upgrades*
 - *EQ Storage at Tapia*
 - *Disinfection changeover to address CTR*

Project Construction Schedule





Malibu Creek

Thank You



WaterReuse LA Chapter Meeting FRRRO for High Recovery: Next Stop, Reuse?

August 8, 2023 / Adam Zacheis



Contents

- City of Santa Monica Arcadia Water Treatment Plant Expansion Project
- Overview of Flow Reversal RO (FRRO)
- Pilot System
- Full-Scale Design



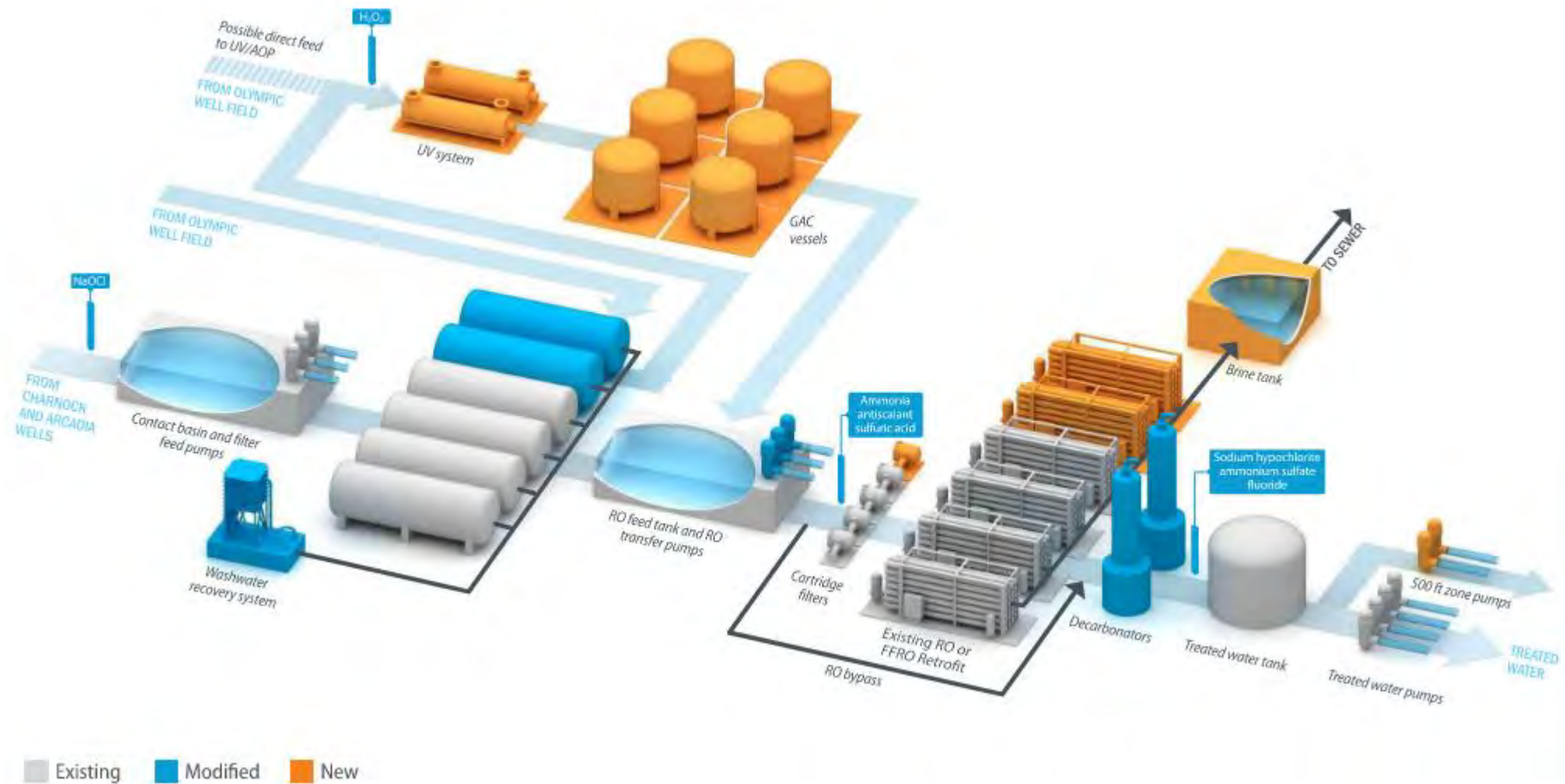
City of Santa Monica Arcadia Water Treatment Plant Expansion Project

City of Santa Monica aims for water self-sufficiency.

- Currently 60% local supply, 40% imported
- Arcadia WTP currently treats groundwater from Arcadia and Charnock well fields
- Groundwater production nearly capped
- New Olympic Wells require VOC and 1,4-dioxane treatment



Arcadia WTP Expansion and Olympic Well Field Restoration Project Process Flow Diagram



Looking Beyond Conventional RO for Higher Recovery

- Increase RO system recovery to 90% to minimize groundwater pumping
- Pilot testing completed
 - Refine design criteria
 - Confirm RO permeate water quality (contaminant rejection and adjustments to post treatment)

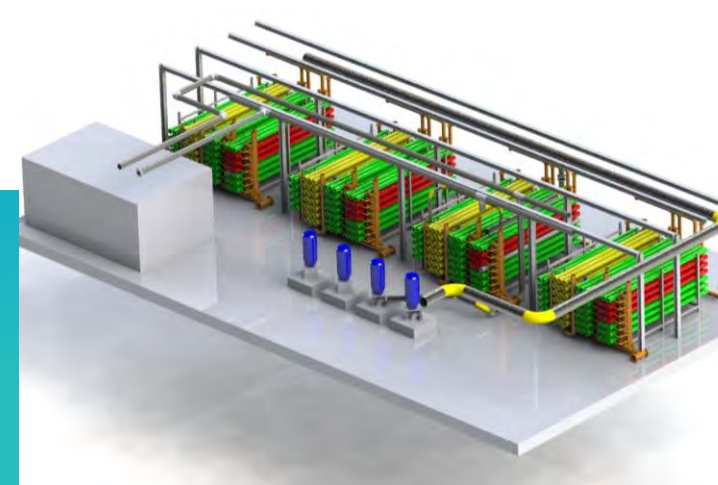
Existing RO System



CCRO



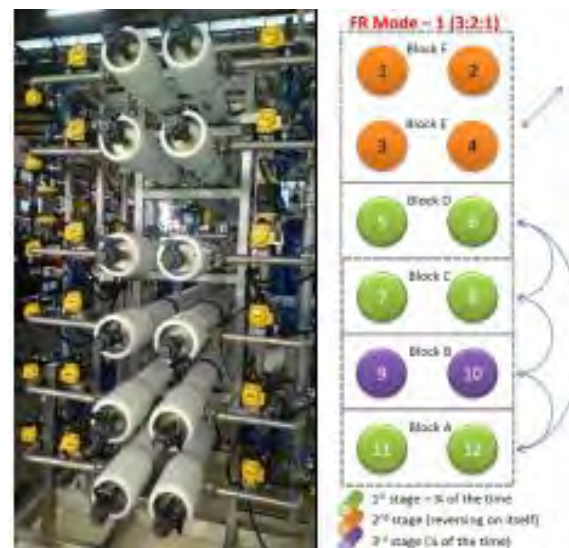
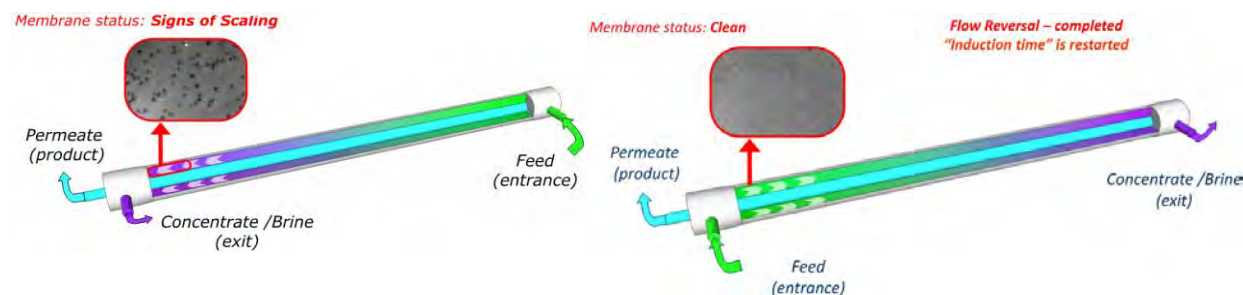
FRRO



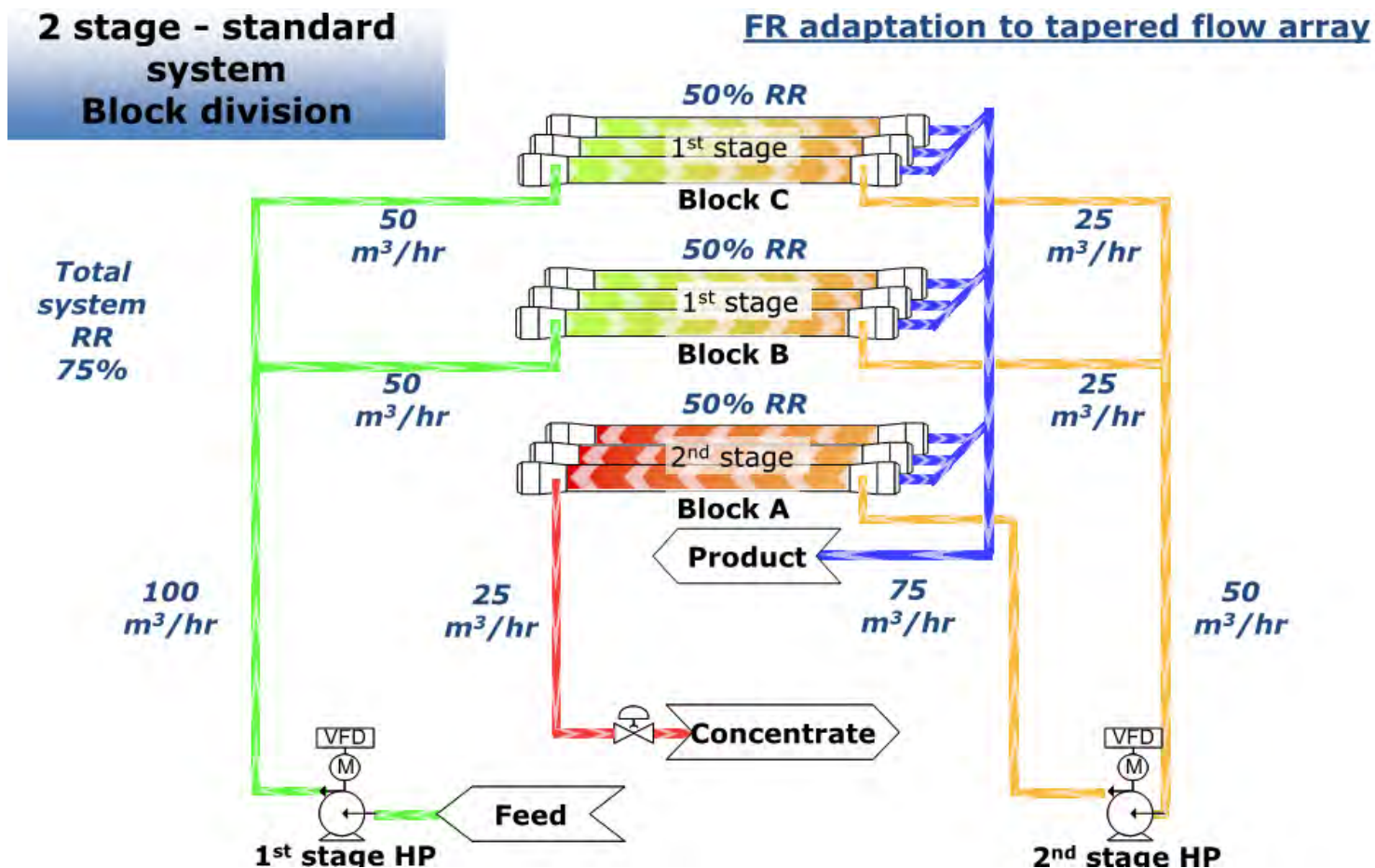
Overview of Flow Reversal Reverse Osmosis

FRR0 employs two techniques to increase recovery

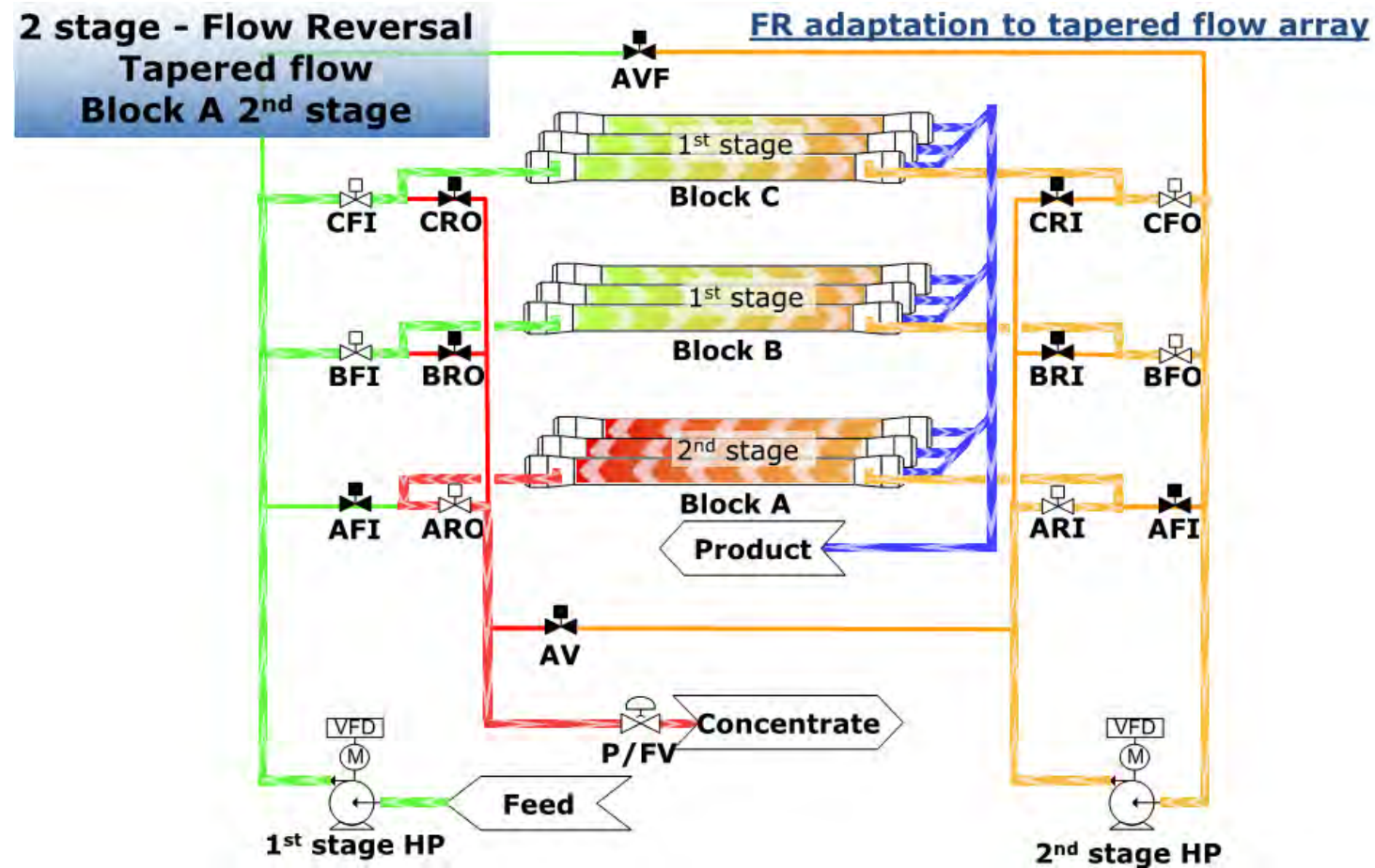
1. **Flow reversal:** pneumatic valves on each set of pressure vessels occasionally actuate to reverse flow to restart induction time by maintaining under-saturated conditions and sweep away the beginning scale particles in the concentrate before they exceed a critical size to prevent precipitation
2. **Stage rotation:** each flow reversal cycle also rotates the last stage, which typically treats the most challenging water quality, within first stage of pressure vessels to reduce the load on any given set of pressure vessels



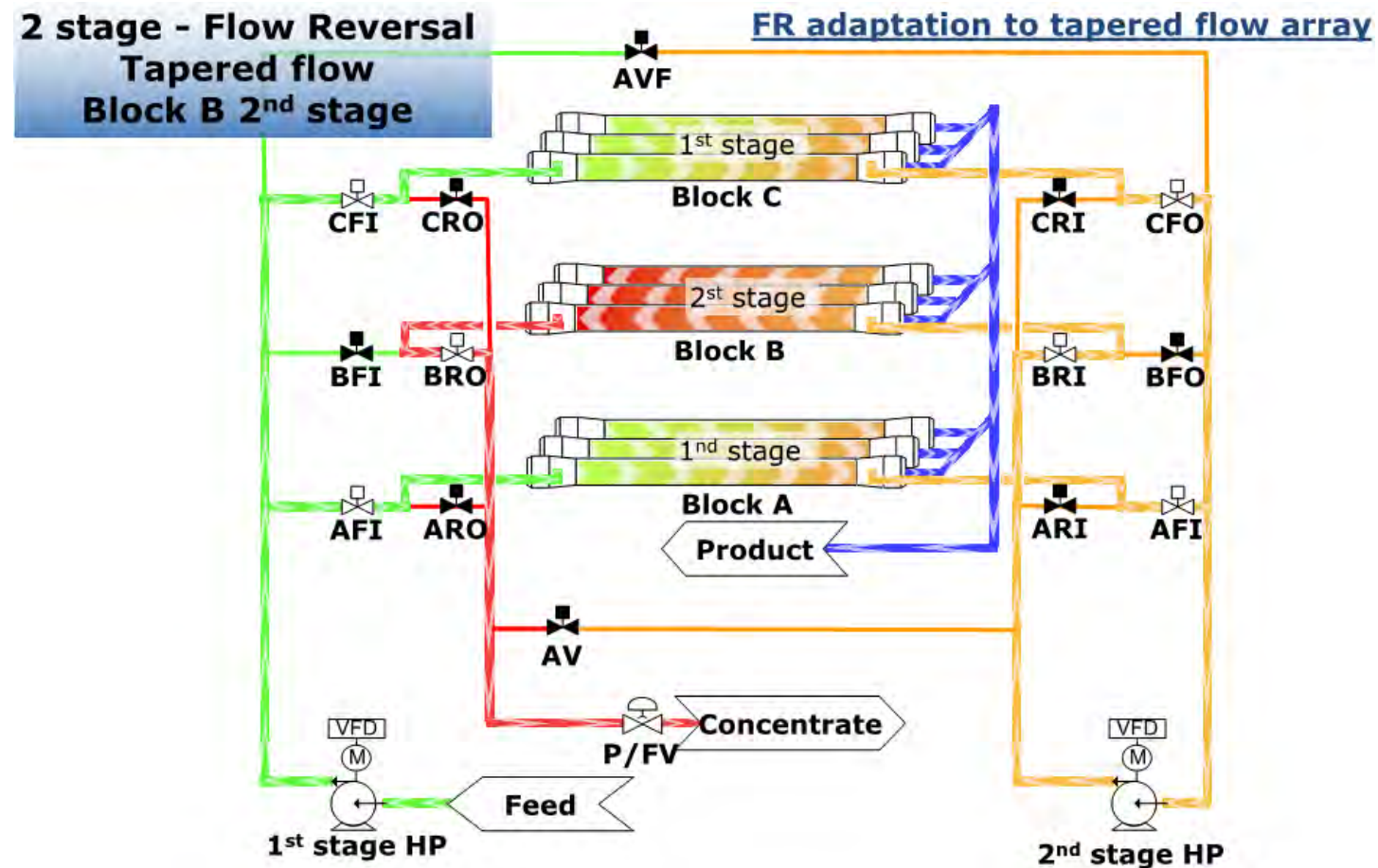
Conventional RO System



FRR0 System – 2 Stage



FRR0 System – Block Rotation



FRR0 Pilot System



Full-Scale System Design

Brown AND **Caldwell** :

FRRRO Allows for Retrofitting Existing Skids

3D concept Design – Before (original design)

Front view



Back view

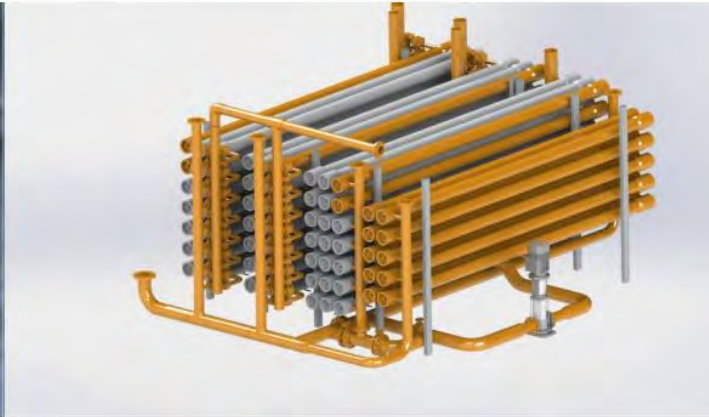


3D concept Design- After + additional parts

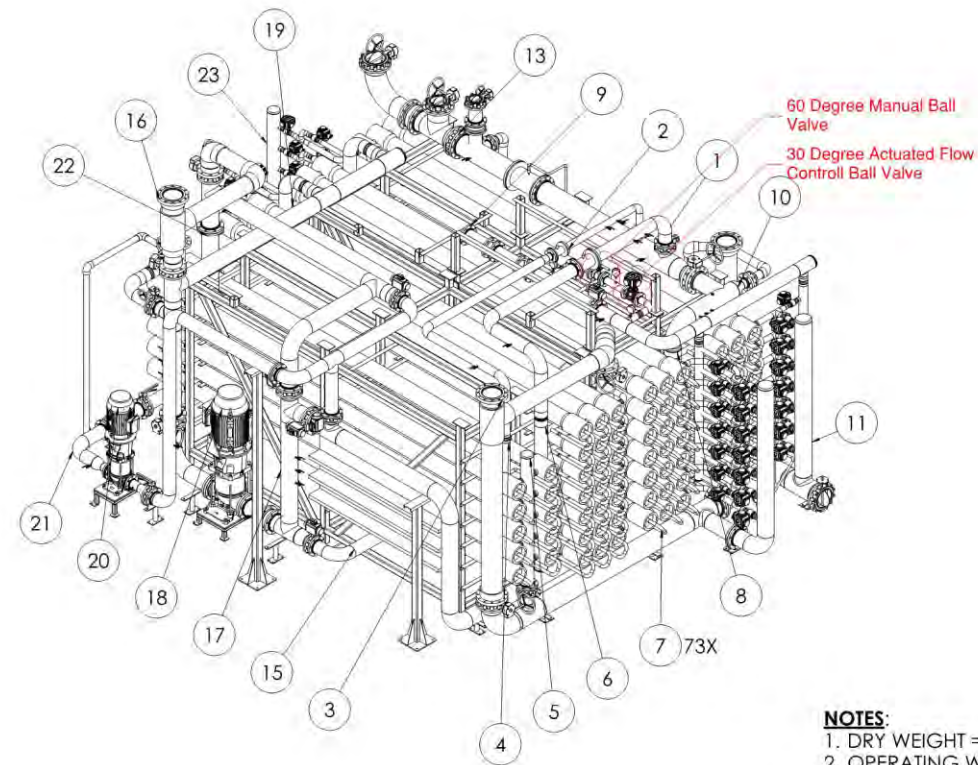
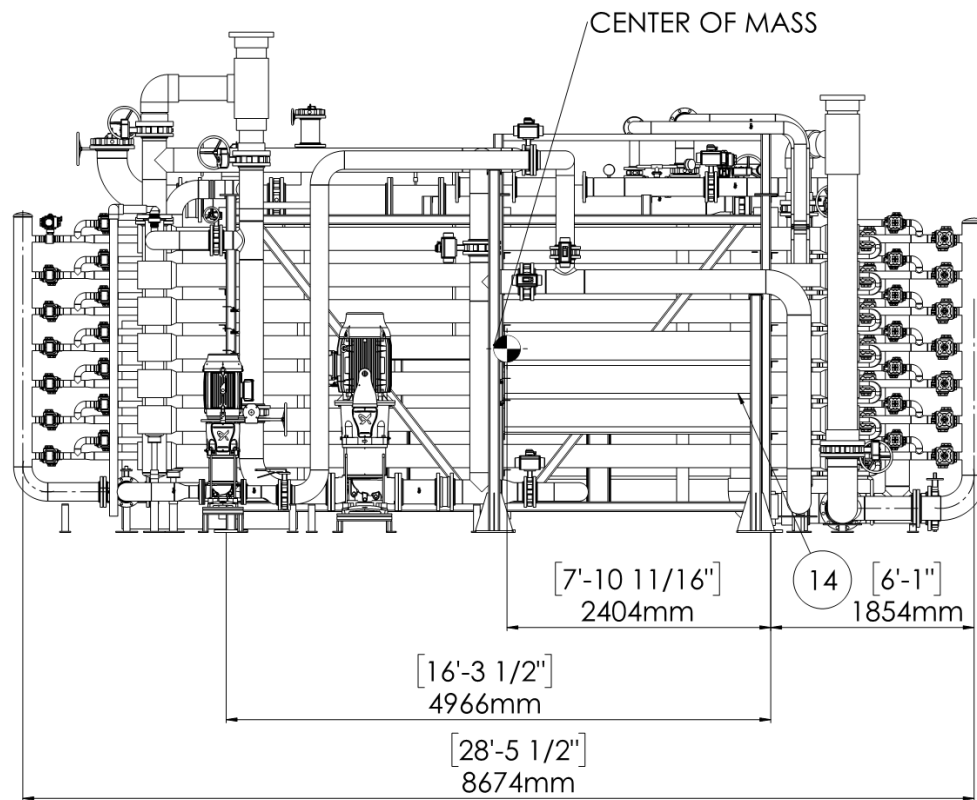
Front view



Back view



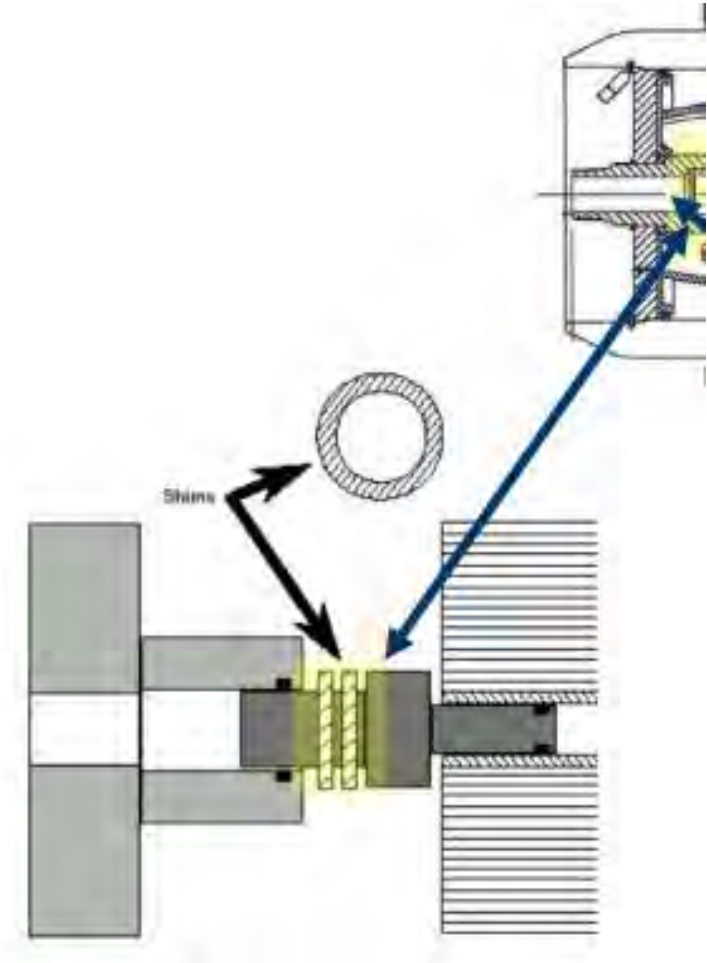
FRR0 System Full Retrofit of Existing System



- NOTES:**
 1. DRY WEIGHT = 43000 LBS
 2. OPERATING WEIGHT = 73000 LBS

Membrane Element and Support Considerations

- Thrust cones on both ends of vessel
- Proper shimming
- Comments from Membrane Vendors
 - Toray – patented "bi-directional" split-ring brine seal required (e.g., TMG20D-400SR)
 - Hydranautics – any membrane element is acceptable but patent-pending support system is required



Photos from the Field





Potential Application to Potable Reuse

- Higher recovery process with reduced scaling potential
- Potential reduced biofouling
- More rigorous cleaning
- Flow reversal versus “standard” RO operation mode

Acknowledgements

- City of Santa Monica
 - Alex Waite
 - Sunny Wang
- Walsh Group
 - Blayne Goodman
 - Shaun Jameson
- ROTECH

Thank you.
Questions?

Brown AND **Caldwell** :



WateReuse California LA Chapter Meeting



August 8, 2023

Legislation & Regulation Update

Raymond Jay
Metropolitan Water District of Southern California
(213) 217-5777 or rjay@mwdh2o.com

2023 California Legislative Calendar

- Jan. 1 Statutes take effect
- Jan. 4 Legislature reconvenes
- Jan. 10 Governor submits budget to Legislature
- Feb. 17 Last day for bills to be introduced
- Apr. 28 Last day policy comm. to report fiscal bills
- May 5 Last day fiscal comm. to report fiscal bills
- June 2 Last day for bills to pass house of origin
- June 15 Last day to pass budget
- Sept. 14 Last day for any bill to be passed
- Oct. 14 Last day for Governor to sign or veto bills
- See: <http://assembly.ca.gov/legislativedeadlines>

2023 Related Water Legislation

- SB 366 (Caballero): The California Water Plan: long-term supply targets; WRCA = Support
- SB 745 (Cortese) Drought Resistant Building Standards; WRCA = Neutral after amendments to remain voluntary
- AB 682 (Mathis): SWRCB: online search tool: funding applications; WRCA = Support
- AB 1572 (Friedman): Potable water: nonfunctional turf; WRCA = Watch
- AB 1573 (Friedman): Water Conservation: Landscape Design: model ordinances; WRCA = Watch
- https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202320240AB1573
- <https://watereuse.org/sections/watereuse-california/legislative-and-regulatory-committee/>

California Recycled Water Funding

- Estimated Budget deficit of ~\$9B for FY 23/24
- May Revise proposed to shift \$270 million in budget for recycled water to water bond(s)
- WRCA comment letter – request \$1.8B in Bonds
- Budget Trailer Bill with new RW fee expected

Regulatory Update

● Direct Potable Reuse Regulations

- SWRCB to adopt regulations by December 31, 2023
- Draft and Formal Rule making to begin; comments by September 7th
https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/dpr-criteria-panel.html

● Water Use Efficiency Regulations

- Formal Rule making to begin in Summer 2023
- Includes potential Potable Reuse Bonus Incentive up to 15%
<https://water.ca.gov/Programs/Water-Use-And-Efficiency/2018-Water-Conservation-Legislation/Urban-Water-Use-Efficiency-Standards-Variations-and-Performance-Measures>

● On-Site Treatment & Reuse of Non-Potable Water

- SWRCB over due to adopt regulations by December 1, 2022
- OAL rulemaking to begin in Fall 2023; SWRCB adoption spring 2024
https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/onsite_nonpotable_reuse_regulations.html

● Cross Connection Control Handbook

- Allows swivel ell as a change over device; Board Adoption Meeting: TBD
https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/cccp.html

Federal Update

- FY23 Appropriations – concern over SRF funding
- Large Scale Water Recycling program
 - Funding announcement this Summer
 - Awaiting WS:WR&DP grant awards
- Alternative Water Supply program
 - Initial funding proposed in FY 24 appropriations
- BABAA Waivers
 - Request additional waivers
- PFAS
 - WRA submitted comment letter
 - EPA Public comments period extended

WaterSMART Funding

U.S. Department of the Interior
Bureau of Reclamation
WaterSMART



Status of WaterSMART Program Funding Opportunities


Program	Eligible Applicants	Federal/Non-Federal Cost Share	Funding	Current Status
Water and Energy Efficiency Grants On-the-ground water management improvement projects, including projects that conserve water and address water supply reliability. Program Contact: Josh German jgerman@usbr.gov	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 with the agreement of an entity described above. Applicants must be located in the Western United States or United States Possessions: American Samoa, Guam, the Northern Mariana Islands, the Virgin Islands, and the Commonwealth of the Northern Mariana Islands.	Up to \$500,000 for projects to be completed within two years; up to \$2 million for projects to be completed within three years; and up to \$5 million for large projects to be completed within three years. Non-Federal Cost Share: 50% or greater.	Reclamation's FY 2022 and FY 2023 spend plans for Bipartisan Infrastructure Law funding together include \$310 million for these funding opportunities. Consistent with the Bipartisan Infrastructure Law, 25% of that amount is designated for Environmental Water Resources Projects that improve natural infrastructure.	FY23 selections were announced on April 21, 2023. 84 projects were selected to receive \$140 million in federal funding, including Bipartisan Infrastructure Law funding. FY24 Funding Opportunity is expected late August 2023.
Title XVI Authorized Projects Funding for planning, design, and construction of specific congressionally authorized water recycling and reuse projects. Program Contact: Maribeth Menendez mmenendez@usbr.gov	Sponsors of water reclamation and reuse projects specifically authorized for funding under Title XVI of P.L. 102-575.	Federal funding is limited to 25% of the total project cost, up to \$20 million, unless otherwise specified by Congress. Non-Federal Cost Share: 75% or greater.	Funding opportunities planned for August 2023 will be used to allocate up to \$179 million in Bipartisan Infrastructure Law funding and a portion of \$60 million in annual appropriations for this program.	FY23 selections were announced August 18, 2022. 25 water reuse projects were selected to receive \$310 million in federal funding, including Bipartisan Infrastructure Law funding. The next Funding Opportunities are expected in August 2023.
Title XVI WIIN Act Water Reclamation and Reuse Projects Funding for planning, design, and construction of WIIN Act water recycling and reuse projects. Program Contact: Maribeth Menendez mmenendez@usbr.gov	Sponsors of water reclamation and reuse projects with completed feasibility studies that have been submitted to Reclamation for review. Entities must be located in the 17 Western States, Hawaii, American Samoa, Guam, the Northern Mariana Islands, or the Virgin Islands.	Federal funding is limited to 25% of the total project cost, up to \$30 million. Non-Federal Cost Share: 75% or greater.		The next Funding Opportunity is expected in August 2023.
Desalination Construction Funding for planning, design, and construction of WIIN Act brackish groundwater and ocean desalination projects. Program Contact: Maribeth Menendez mmenendez@usbr.gov	Sponsors of desalination projects with completed feasibility studies that have been submitted to Reclamation for review. Entities must be located in the 17 western states.	Federal funding is limited to 25% of the total project cost, up to \$30 million. Non-Federal Cost Share: 75% or greater.	The funding opportunity planned for August 2023 will be used to allocate over \$30 million in Bipartisan Infrastructure Law funding and \$12 million in annual appropriations for this program, along with other available program funding.	The next Funding Opportunity is expected in August 2023.
Large-Scale Water Recycling Projects Funding for planning, design, and construction of Large-Scale Water Recycling Projects with a total project cost greater than \$500 million. Program Contact: Maribeth Menendez mmenendez@usbr.gov	Sponsors of water recycling projects with a total project cost greater than \$500 million with completed feasibility studies that have been submitted to Reclamation for review. Entities must be located in the 17 Western States.	Federal funding is limited to 25% of the total project cost. Non-Federal Cost Share: 75% or greater.	The FY23 BIL spend plan includes \$50 million for these projects.	FY23 Funding Opportunity to allocate Bipartisan Infrastructure Law funding is expected late July 2023.
Water Recycling and Desalination Planning Funding for planning and pre-construction activities, including the development of water recycling and desalination feasibility studies, to facilitate project development under the Title XVI Program, the Desalination Construction Program, and the Large-Scale Water Recycling Program. Program Contact: Maribeth Menendez mmenendez@usbr.gov	States, Indian Tribes, irrigation districts, and water districts; and any state, regional, or local authority located in the 17 Western States, Hawaii, American Samoa, Guam, the Northern Mariana Islands, or the Virgin Islands.	Non-Federal Cost Share: 50% or greater for planning and pre-construction activities for Title XVI and Desalination Construction projects. Non-Federal Cost Share: 75% or greater for planning and pre-construction activities for Large-Scale Water Recycling Projects with an anticipated total project cost greater than \$500 million.	Approximately \$30 million in available program funds will be provided through this Funding Opportunity.	FY23 Funding Opportunity was posted on grants.gov on December 23, 2022. Applications received by February 28, 2023, are currently under review. Selections are expected late summer 2023.

This table is intended as a summary of programs including some basic program requirements.

Refer to each Notice of Funding Opportunity for details on program requirements, eligible projects, eligible applicants, and cost share.

For the U.S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianan Islands, all non-federal cost-share requirements are waived per Public Law 96-205, title VI, section 601, as amended, in conjunction with 48 U.S.C. § 1469a(d).

Local, State and Federal Funding Opportunities

 Local, State and Federal Funding Opportunities ⁽¹⁾ APRIL 2023							
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	


<https://watereuse.org/wp-content/uploads/2023/03/Summary-of-Funding-Opportunities-as-of-04-01-23.pdf>

Questions?

If you have any questions, please contact:

Raymond Jay,



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Los Angeles, CA 90054
(213) 217-5777
rjay@mwd.h2o.com



WaterReuse LA Chapter Meeting

August 8, 2023

Division of Drinking Water Updates

Rebecca Christmann, Recycled Water Unit
rebecca.christmann@waterboards.ca.gov



Direct Potable Reuse (DRP) Regulations

- July 21, 2023: Notice of Proposed Rulemaking
- September 7, 2023, 9:30 am: APA Public hearing
- September 8, 2023, 12:00 pm: End of Public Comment Period
- Contact: Jing Chao at Jing-Tying.Chao@waterboards.ca.gov
- https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/dpr-regs.html
- Background information:
https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/direct_potable_reuse.html

Recycled Water Regulatory Updates

- Regulations for Onsite Treatment and Reuse of Non-potable Water
 - https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/onsite_nonpotable_reuse_regulations.html
- Water Recycling Criteria Update (Title 22, Division 4, Chapter 3)
 - www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/water-recycling-criteria.html
- Cross-Connection Control Policy Handbook
 - Second Public Comment Period ended December 9, 2022
 - www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/cccp.html

Drinking Water Regulatory Updates

- Proposed Hexavalent Chromium MCL of 10 ppb (0.01 mg/L)
 - August 18, 2023, 12:00 pm: End of Public Comment Period
 - https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/SWRCBDDW-21-003_hexavalent_chromium.html
- PFAS: Per- and Polyfluoroalkyl Substances
 - https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/pfas.html
- Metal Detection Limit for Purposes of Reporting
 - www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/swrcbddw21-001-metal.html

Updated Documents

- Alternative Treatment Technology Report for Recycled Water
 - https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/recycled_water/alternative-treatment-technology-report-recycled-water-2023.pdf
- Guidelines for the Preparation of an Engineering Report for the Production, Distribution and Use of Recycled Water
 - https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/recharge/ERGUIDE2023.pdf

Chapter Trustee Updates

WATEREUSE LA Chapter – August 08, 2023



Next Board of Trustees Meeting: August 11, 2023



Funding Opportunities

- House Appropriations Bill Includes First-Time Funding for Nationwide Water Reuse Program



Forecasted Information for 8/11/23 Mtg

- Board of Directors approved a new standing Potable Reuse and Compliance Committee



Chapter Trustee Updates

WATEREUSE LA Chapter – August 08, 2023



Next Board of Trustees Meeting: August 11, 2023



On July 21, the California State Water Resources Control Board (Water Board) released a new draft of the Direct Potable Reuse regulations

- Began the formal Administrative Procedure Act (APA) process to adopt the statewide regulations
- The final Water Board vote and presumed adoption is planned for December 19, 2023



Chapter Trustee Updates

WATEREUSE LA Chapter – August 08, 2023



- **Reminder!**
- **All reservations to the Hyatt Regency Indian Wells Resort & Spa must be made by October 5th, 2023, to take advantage of the discounted rate**



**2023 WATEREUSE
CALIFORNIA
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Chapter Trustee Updates

WATEREUSE LA Chapter – August 08, 2023



Reimagining Water Together

Schedule and Technical Program are currently being continually updated



REMOVING
BARRIERS,
ELEVATING
OPPORTUNITIES



Chapter Trustee Updates

WATEREUSE LA Chapter – August 08, 2023



2024 WaterReuse Symposium: Call for Presentations

- The WaterReuse Association invites proposals for presentations at the 39th Annual WaterReuse Symposium.

Key Dates	
September 14, 2023	Proposals Due via Online Submission Form
November 10, 2023	Speakers Notified
January 15, 2024	Deadline for Speaker Registration Discount
February 16, 2024	PowerPoint Presentations Due

LA Chapter Update

➤ Emerging Professionals Committee

- Chair: *Seto Cherchian*
Scherchian@BrwnCald.com

➤ Communications Lead

- Chair: *Oliver Slosser*
oslosser@lvmwd.com

➤ Awards Champion

- Chair: *Everett Ferguson*
eferguson@wrd.org

➤ Technical Topics Committee

- Chair: *Alex Franchi*
alex.franchi@aecom.com

➤ Meeting Summary - June 2023

- *Coming soon.*
- *Thank you Karina Gonzalez,
LA Sanitation & Environment*

➤ Volunteer Opportunity

- *Leg/Reg Updates – Thank you
Raymond Jay for years of service!*

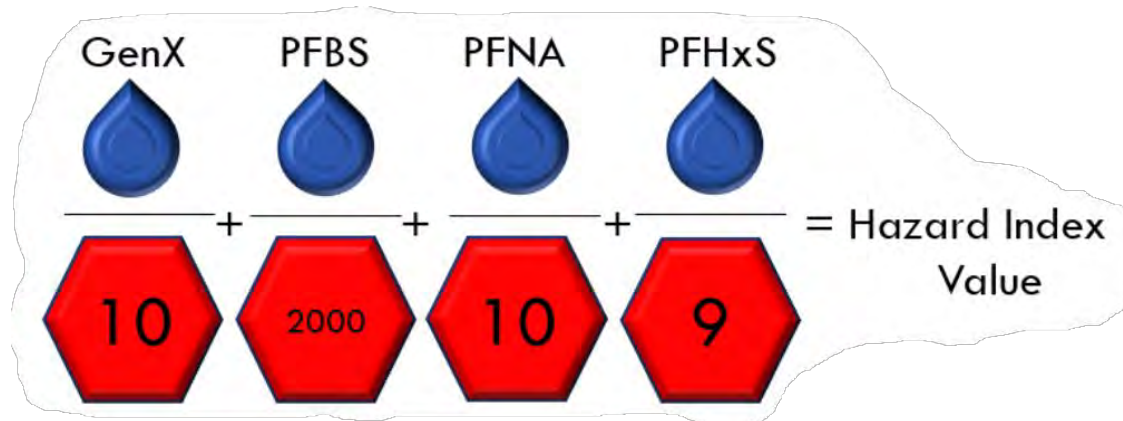
Membership Roundtable

EPA's Proposed Action for the PFAS NPDWR

Compound	Proposed MCLG	Proposed MCL (enforceable levels)
PFOA	0 ppt*	4.0 ppt*
PFOS	0 ppt*	4.0 ppt*
PFNA	1.0 (unitless) Hazard Index	1.0 (unitless) Hazard Index
PFHxS		
PFBS		
HFPO-DA (commonly referred to as GenX Chemicals)		

How does the proposed action affect your recycled water system?

What actions are you taking to mitigate PFAS contamination at the source and within the fenceline?



Next Meetings

- Tuesday, October 10, 2023:
 - Host opportunity
 - Sponsorship opportunity
- Tuesday, December 5, 2023:
 - Host opportunity
 - Sponsorship opportunity

