

**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
- ▶ **Presentation**
  - **Pure Water Oceanside**
    - Lindsay Leahy, Principal Engineer, City of Oceanside – Water Utilities
    - Adam Hoch, Project Manager, City of Oceanside – Water Utilities
- ▶ **Standing Items**
  - State Section Update: Joone Lopez, MNWD
  - Regulatory Updates: DDW/OCHCA
  - Legislative and Regulatory Matters
  - Potential Funding for Projects
- ▶ **Conferences/Webcasts**
- ▶ **Roundtable** (using “Raise Hand” feature to be called on)
- ▶ **Adjournment**

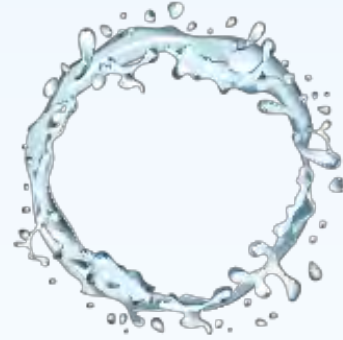


# Q&A

Have a question?

Select the “Raise Hand” button or  
select \*6 on your telephone.

We will get to your questions after each presenter.



pure water  
ceanside

# Trials, Tribulations, & Triumph

## February 2022

LINDSAY LEAHY, P.E.  
Principal Water Engineer  
City of Oceanside

ADAM HOCH, P.E.  
President/Principal Engineer  
Hoch Consulting

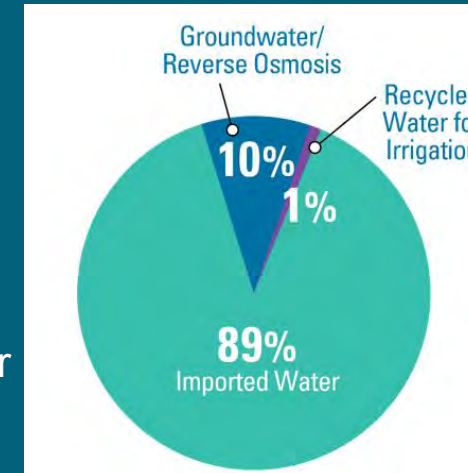


pure water  
ceanside

# City of Oceanside - Overview

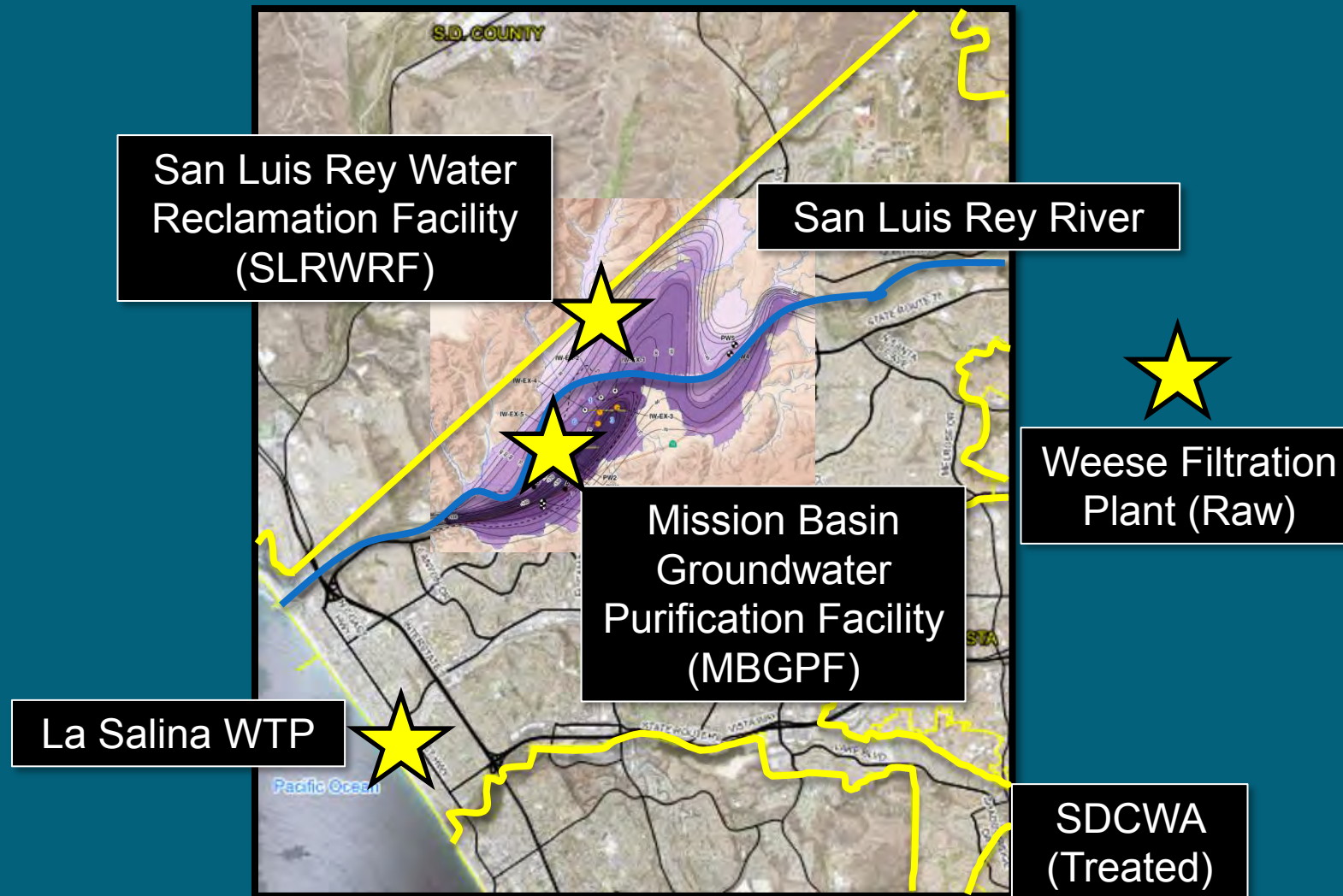


- ✓ 89% Imported Water
- ✓ 10% Groundwater
- ✓ 1% Recycled Water for Irrigation



**City Council Goal:  
50% Local Supply by 2030**

# Oceanside Water Resources

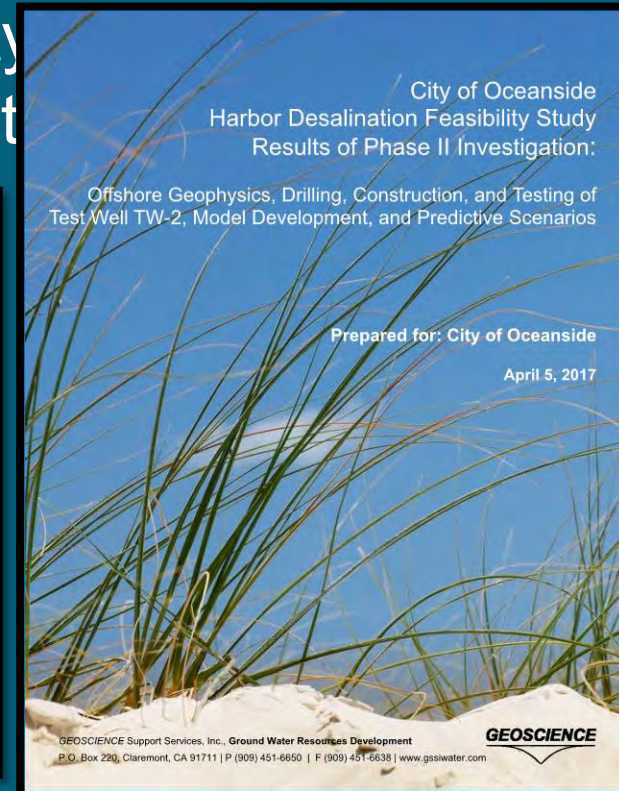
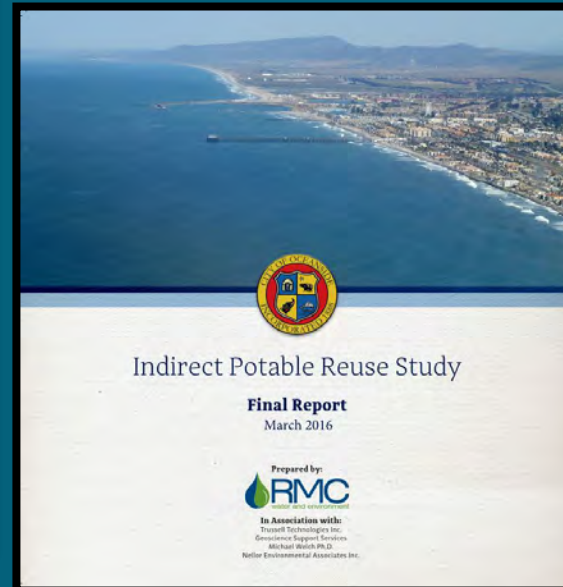




# Local Water Supply Alternatives



Construct Expansion of the City Distribution Network



- Pursue Indirect Potable Reuse

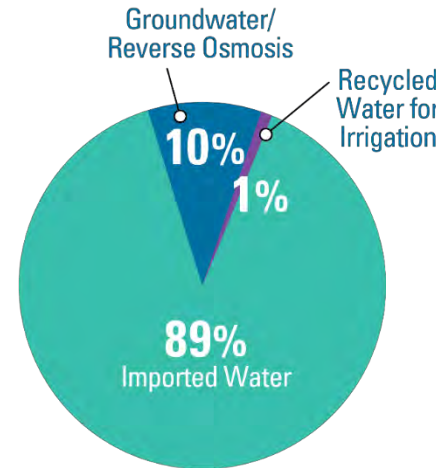
# Local Water Supply Program

YEAR

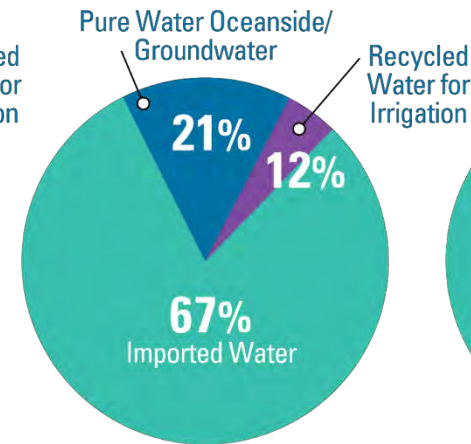
2015

2022

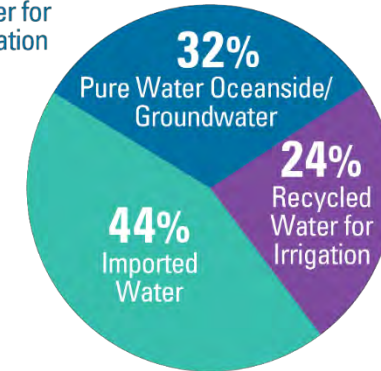
2030



**CURRENT**



**AFTER: Phase 1**



**AFTER: Phase 2**

WATER REUSE

0.25 MGD  
2.4%

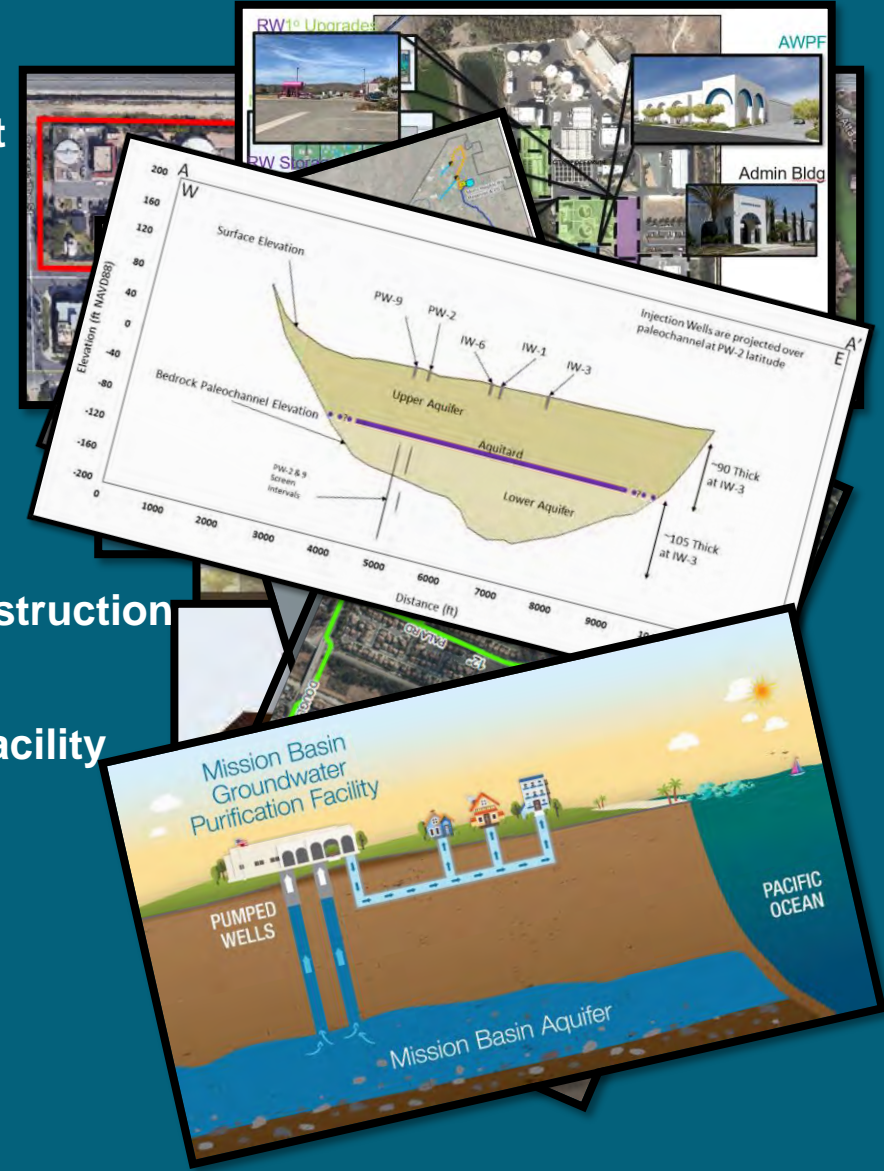
5.65 MGD  
53%

10.1 MGD  
90%+



# Near-Term Projects

- ✓ La Salina WWTP Decommissioning Project
- ✓ Buccaneer LS Project
- ✓ Buccaneer FM Project
- ✓ OMG FM & LS Project
- ✓ SLRWRF Upgrades
- ✓ RW Distribution System Expansion
- ✓ AWPf Construction
- ✓ Conveyance/Backwash Infrastructure Construction
- ✓ Injection/Monitoring Well Construction
- ✓ Mission Basin Groundwater Purification Facility



# Schedule

Task	2017	2018	2019	2020	2021	2022	2023	2024
<b>Project Administration</b>								
Project Management								
<b>Planning</b>								
Feasibility Validation								
<b>Land Purchase/Easements</b>								
Easement Procurement								
<b>Permitting/Design</b>								
Draft Title 22 Engineering Report								
Environmental Permitting								
RWQCB Permitting								
Report of Waste Discharge (ROWD)								
Final Design								
<b>Construction/Implementation</b>								
SLRWRF Upgrades								
AWPF Construction								
Conveyance/Backwash Construction								
Injection/Monitoring Well Construction								
<b>Operations</b>								
Staff Training								
AWPF Operational Test								
Tracer Study								
Operations Optimization Plan								

■ Senate Bill 606 Requirements

# Funding Sources

Pure Water Oceanside		
USBR Title XVI WIIN - Grant	\$ 7,700,000	Awarded
IRWM - Grant	\$ 3,115,000	Awarded
USBR Title XVI WIIN - Grant	\$ 10,873,697	Requested
Recycled Water		
USBR Title XVI WIIN - Grant	\$ 3,050,000	Awarded
CWSRF - Loan	\$ 17,523,327	Closing Spring 2022
CWSRF - Grant	\$ 5,000,000	Awarded
IRWM - Grant	\$ 1,450,000	Selected
Pure Water Oceanside and Recycled Water		
MWD LRP Agreement	\$ 43,099,125	Executed
WIFIA - Loan	\$ 69,115,487	Closed
Municipal Bonds	\$ 30,000,000	Closed
Centralization of Wastewater Flows Infrastructure		
WIFIA Loan	\$ 71,000,000	Selected
<b>TOTAL</b>	<b>\$ 261,926,636</b>	



# Project Management

Workplan Item	Description
Budget	\$215 million
Overall Schedule	2015 - 2024
Total Anticipated Contracts	26
Total Anticipated Permits	25
Consulting Firms Involved to Date	10 +
Anticipated Funding Sources	6
Cups of Coffee to Date	∞



TETRA TECH

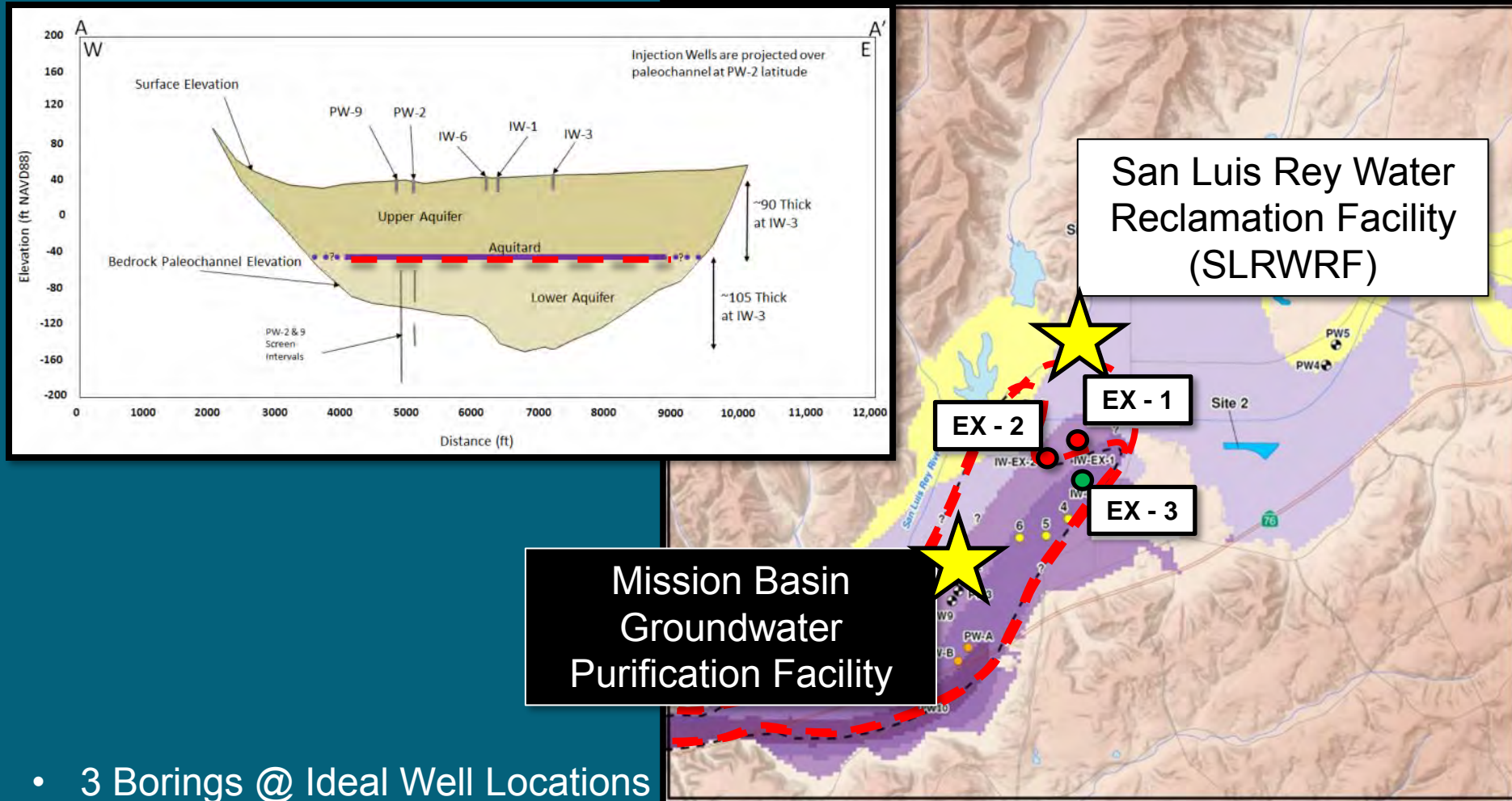


GEOSCIENCE



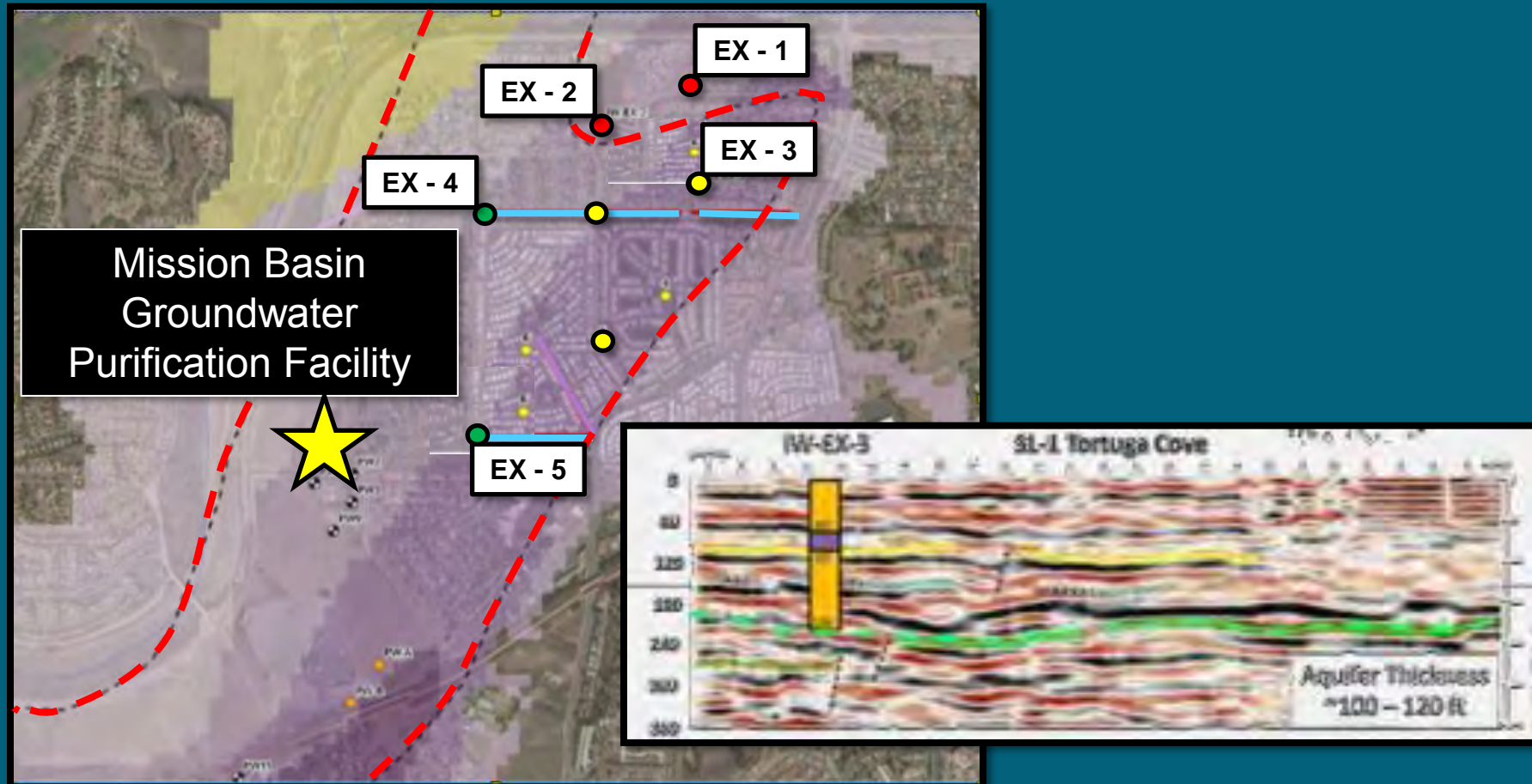
PARSONS

# Feasibility - Hydrogeology



- 3 Borings @ Ideal Well Locations

# Feasibility Validation - Hydrogeology





# Feasibility Validation/Permitting – LRV

## 2018 Proposed Credits:

	Log Reduction Values for Proposed Treatment Train						
Pathogen	SLRWRF	MF	RO	UV AOP	Underground Retention *	TOTAL	Minimum Required
Virus	1.9	0	2	6	3	12.9	12
Crypto	0.5	4	2	6	0	12.5	10
Giardia	2.4	4	2	6	0	14.4	10

## 2019 Proposed Credits:

	Log Reduction Values for Proposed Treatment Train							
Pathogen	SLRWRF	MF	RO	UV AOP	Free Chlorine	Underground Retention *	TOTAL	Minimum Required
Virus	0.4	0	1.5	6	4	3	14.9	12
Crypto	0	4	1.5	6	0	0	11.5	10
Giardia	0.2	4	1.5	6	0	0	11.7	10

\* Model results show 7 months. Claiming only 3.0 instead of 3.5 months / log removal credit

**Legend:**

- City Sewer Line
- City Storm Culvert
- Injection Well
- Backwash to Sewer
- Backwash to Storm

**Options:**

- Option 1
- Option 2
- Option 3

**MBGPF**

**SLRWR F**

**Option 3**

**Option 1**

**Option 2**

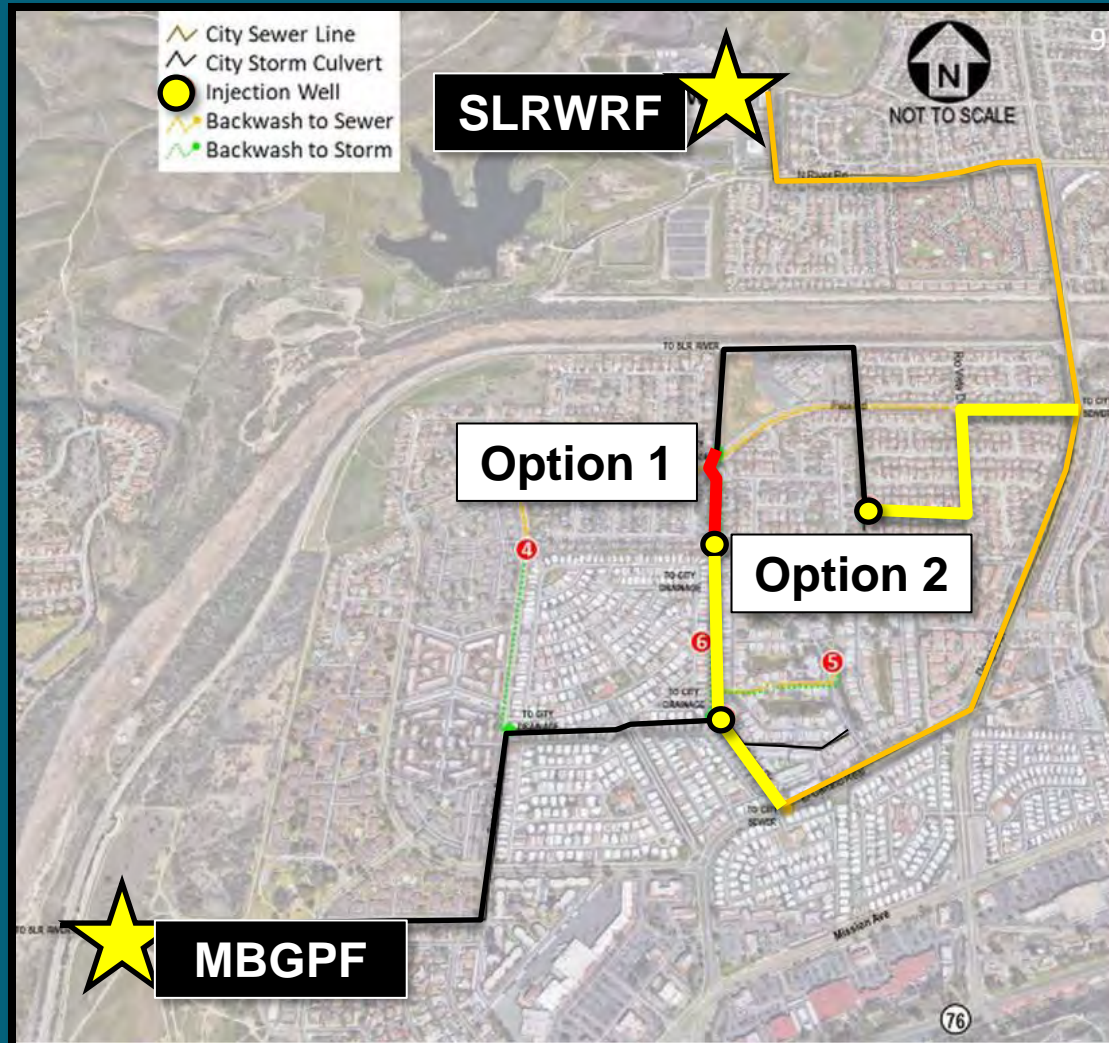
**MBGPF**

**76**



pure water  
cainside

# Permitting/Design– Backwash Infrastructure



Option	Benefits	Challenges
1 Backwash to Storm Drain	- Lowest Capital Cost	- Permitting
2 Backwash to Sewer System	- Permitting	- Highest Capital Cost (+ ~ \$1 million)



# Aggressive Schedule

- Notice to Proceed: January 2, 2020
  - Interim Milestone: January 1, 2022
- 
- 4 - Contractors
  - 3 - Construction Managers
  - 1 - Adam



# Senate Bill 606

- Approved May 31, 2018
- Urban Water Use Objective Calculation
  - 15% Bonus Incentive for “Existing Facilities”
  - 10% Bonus Incentive for “New Facilities”
- Existing Facility
  - Completed EIR no later than January 1, 2019
  - “Producing and delivering potable reuse water on or before January 1, 2022”

# Carrots and Sticks

## Special Liquidated Damages

- \$2 Million
- At 12AM January 2, 2022



## Early Completion Incentive

- \$23,500/Day
- Up to \$2 Million
- Starting October 8, 2021





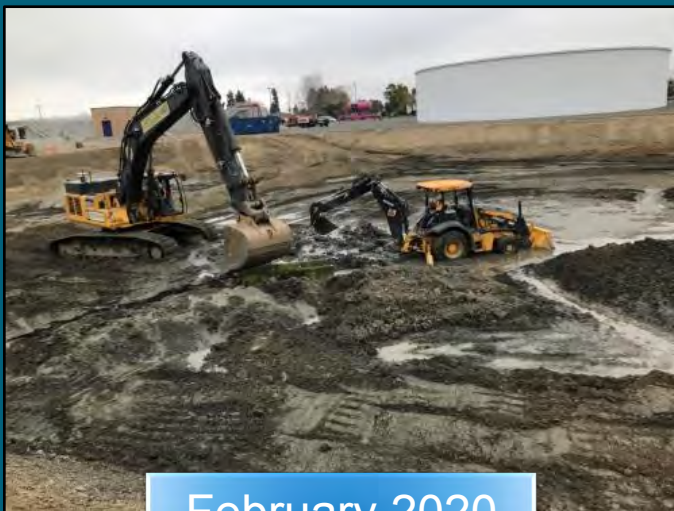
# Construction - AWPf



- AWPf NTP Issued January 2, 2020
- Groundbreaking February 19, 2020



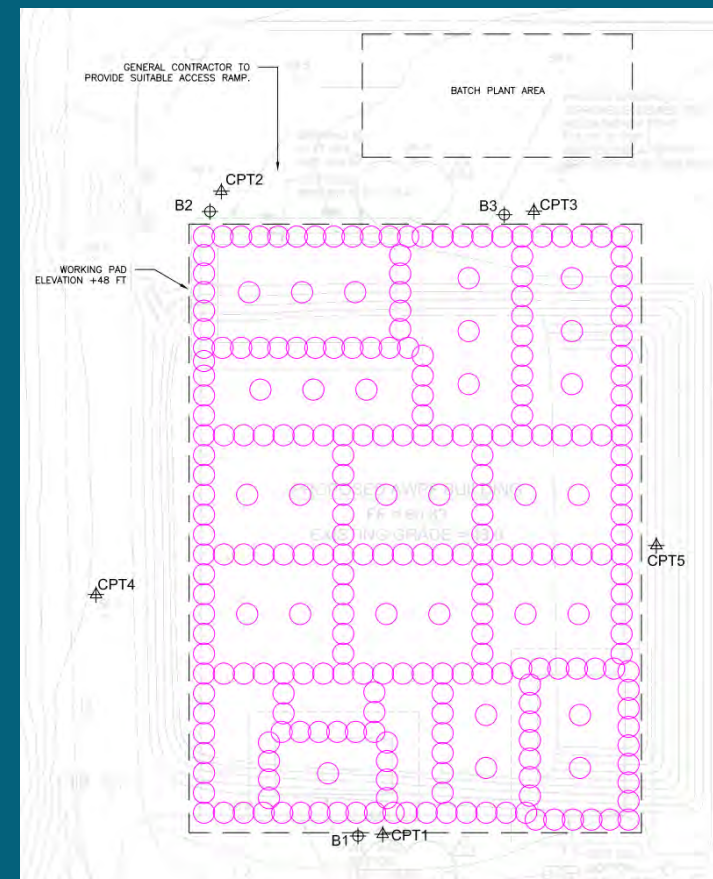
# AWPF: Soil Improvements



February 2020



March - April 2020



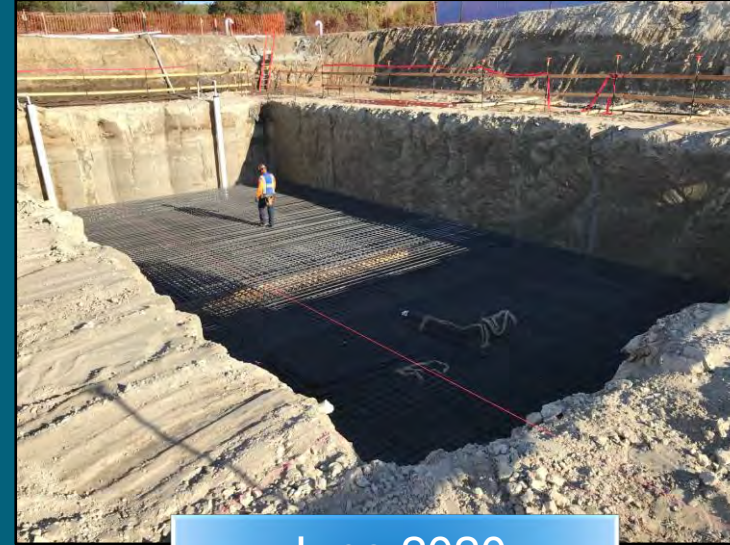
274, 8-Foot Diameter, Overlapping  
Deep Soil Mixing Columns, 48' Deep



# AWPF: Subgrade Structures



May 2020



June 2020



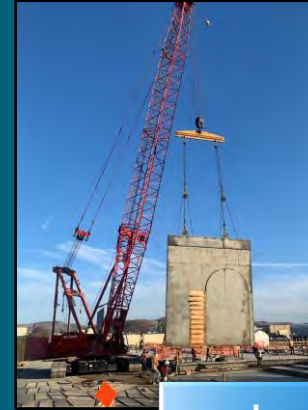
December 2020



# AWPF: Pre-Cast Concrete Tilt Up Panels



December 2020



January 2021



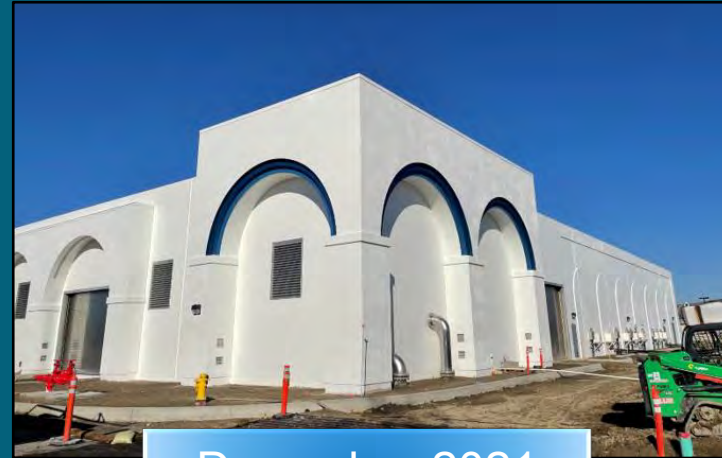
January 2021



# AWPF: Building Envelope



February 2021



December 2021

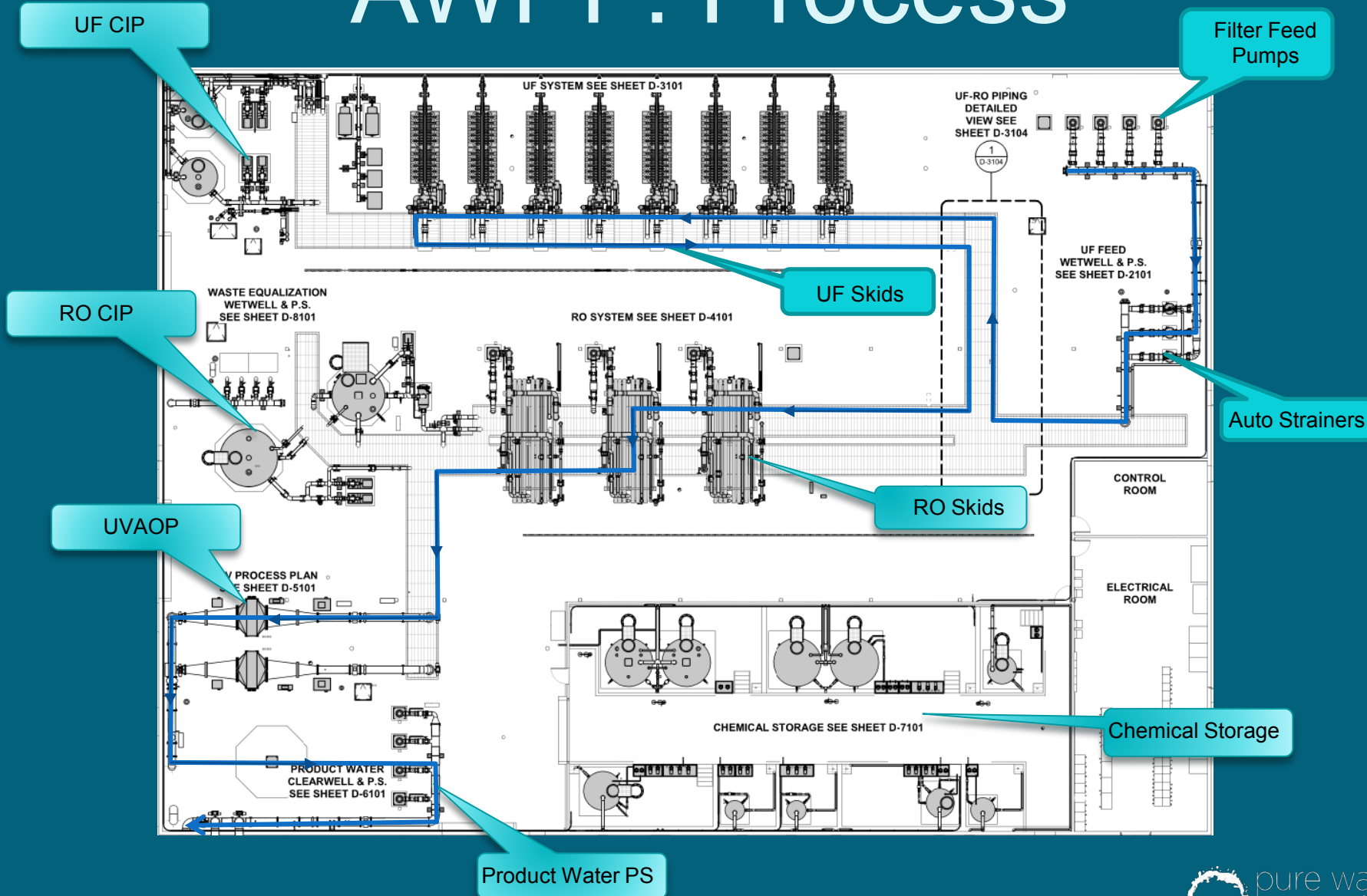


October 2021



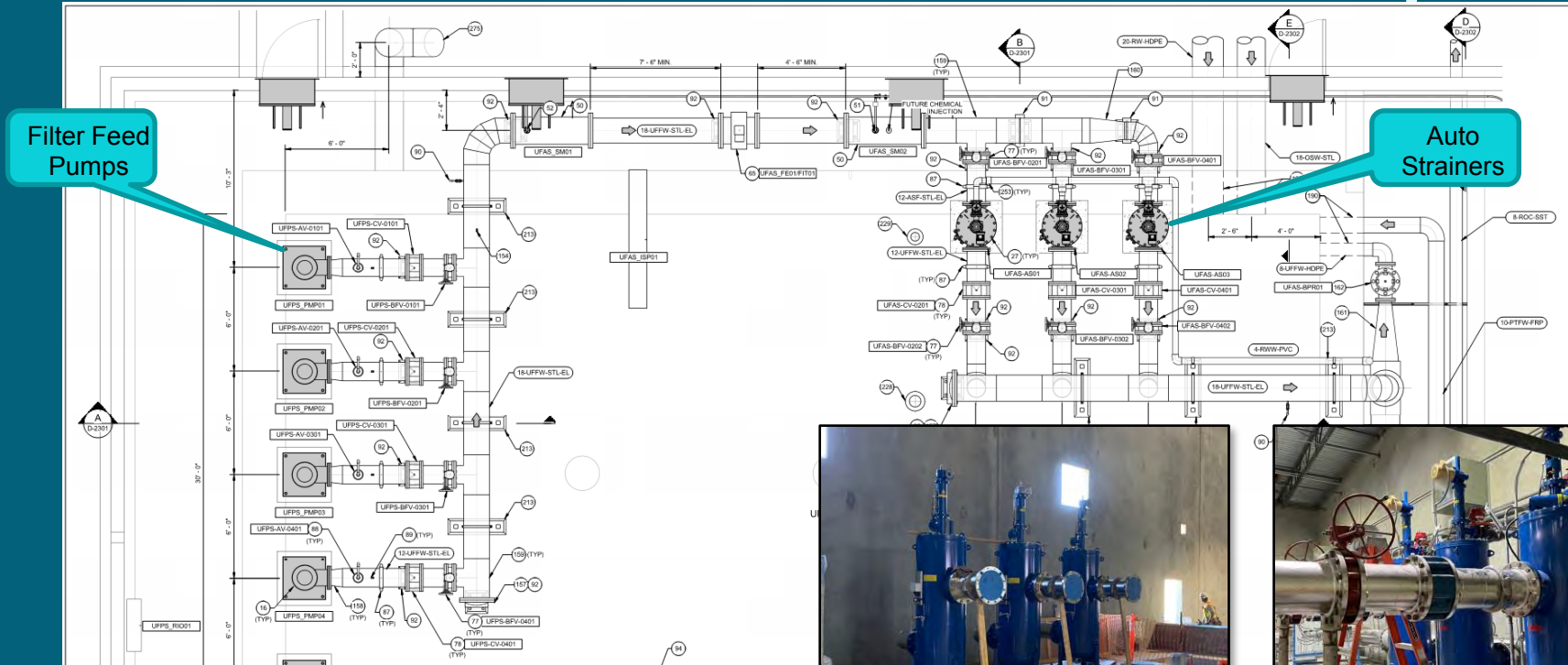
Precon Rendering

# AWPF: Process





# AWPF: Filter Feed Pumps



March 2021



September 2021



March 2021

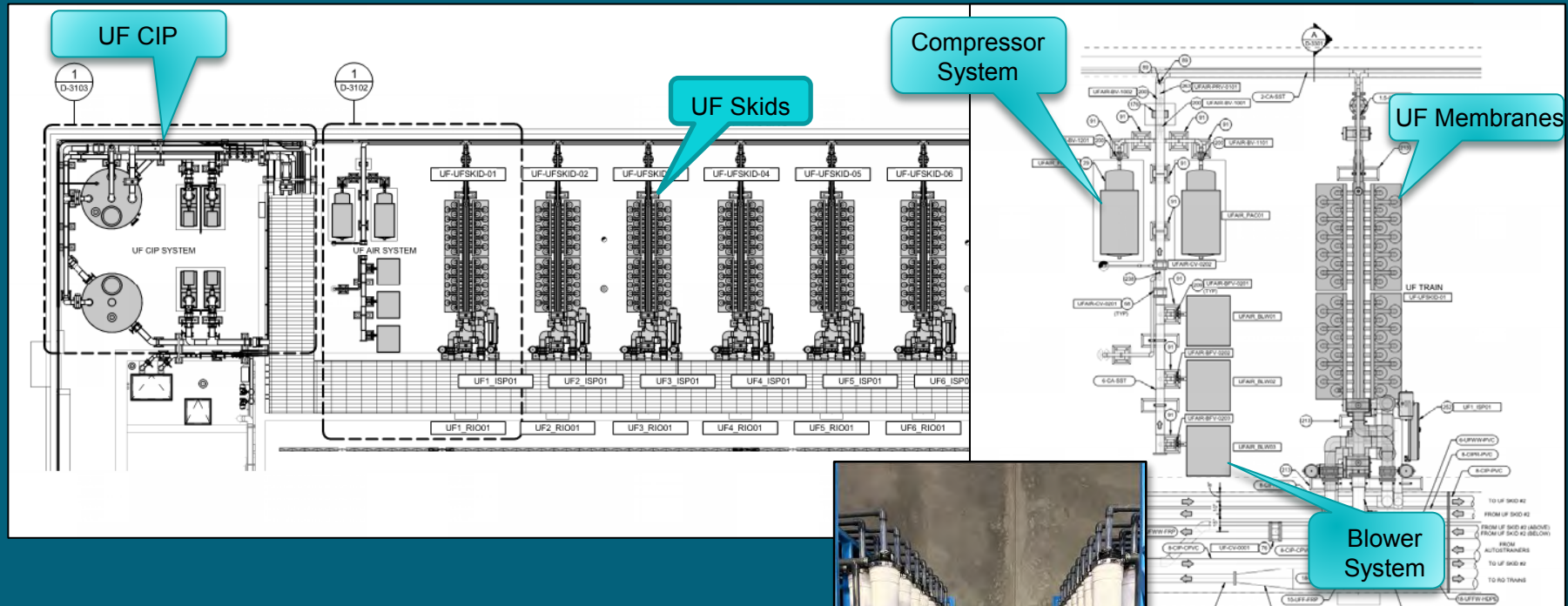


November 2021

WID: T8D		908130200715	
SHEET 129	CITY OF OCALESIDE ENGINEERING DEPARTMENT		SHEET 330
PURE WATER OCALESIDE - AWPF FINAL DESIGN			
FEED PUMP STATION & STRAINERS PLAN			
APPROVED:		APPROVED:	
ENGINEER: THOMAS		ENGINEER: THOMAS	
ENGINEER OF WORK:		ENGINEER OF WORK:	
APPROVAL DATE:		APPROVAL DATE:	
PLAN NUMBER W19-00129		PLAN NUMBER W19-00129	



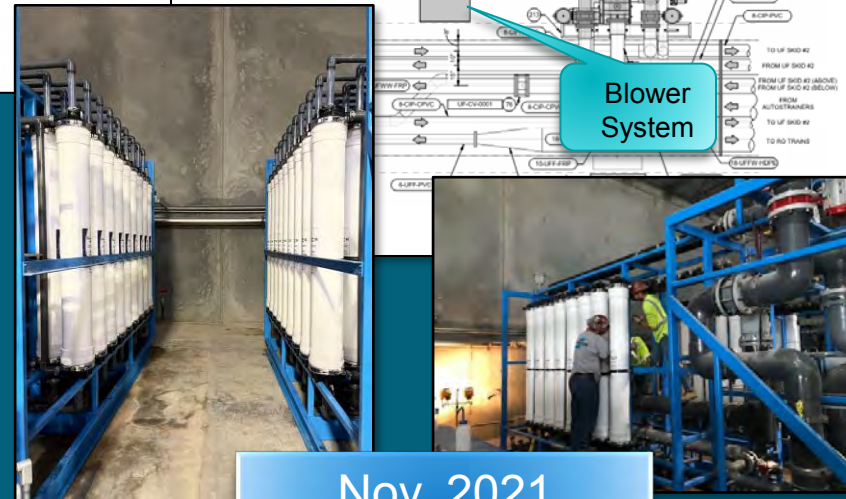
# AWPF: UF Skids



March 2021



June 2021



Nov. 2021

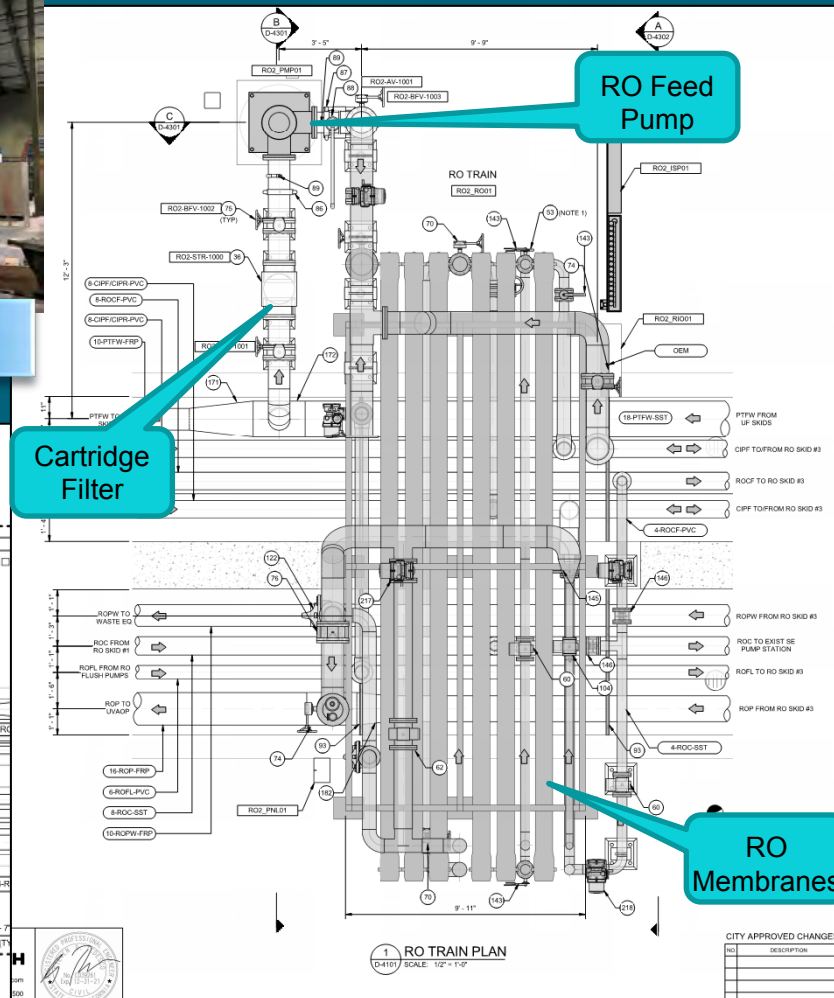
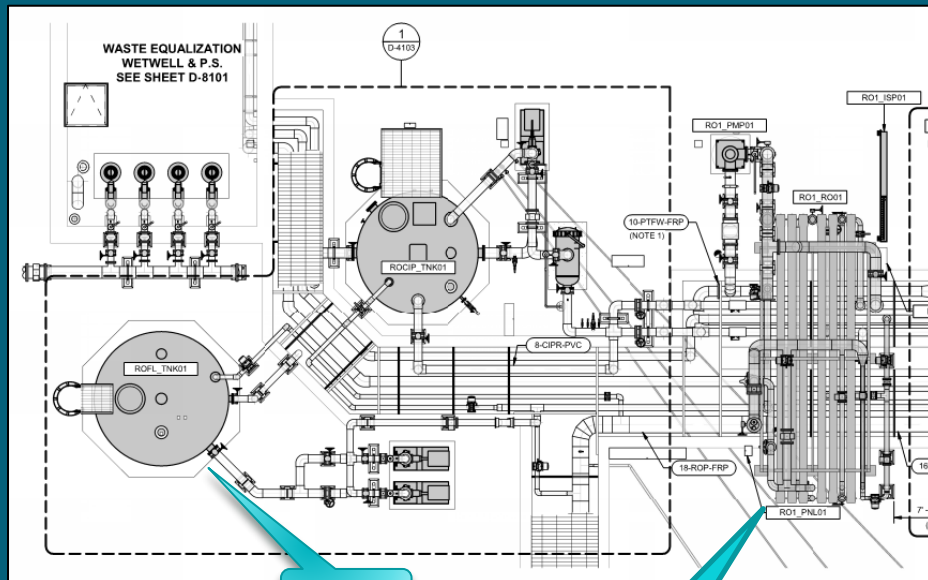
# AWPF: RO Skids



Feb. 2021

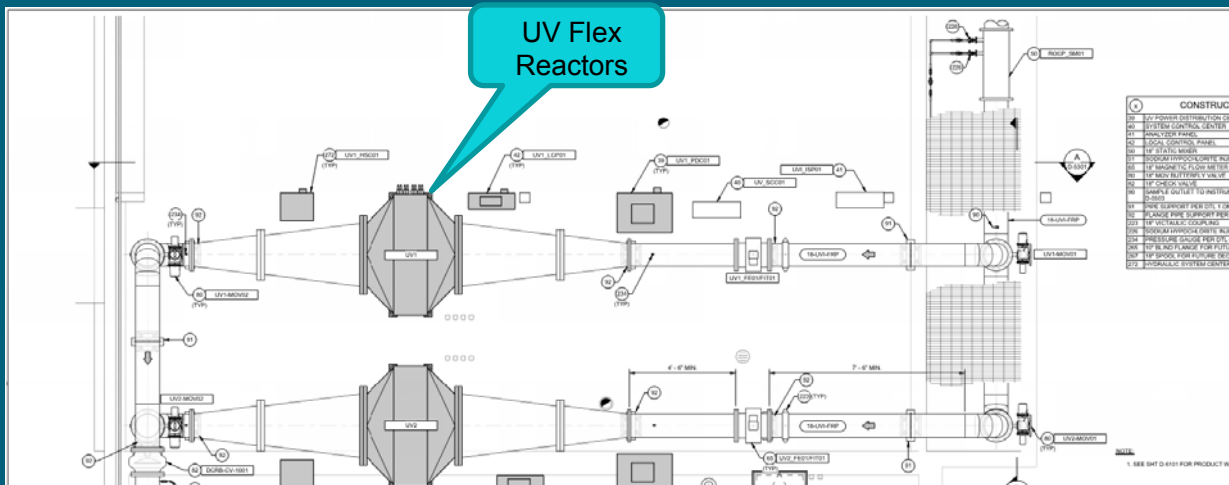


Nov. 2021





# AWPF: UVAOP & PWPS



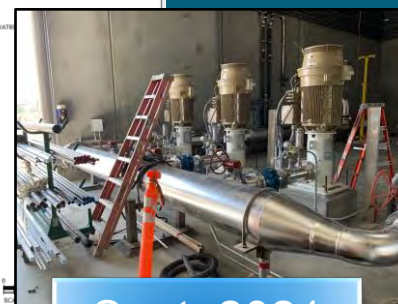
March 2021



May 2021



Sept. 2021



Sept. 2021

Permeate to Injection Wells

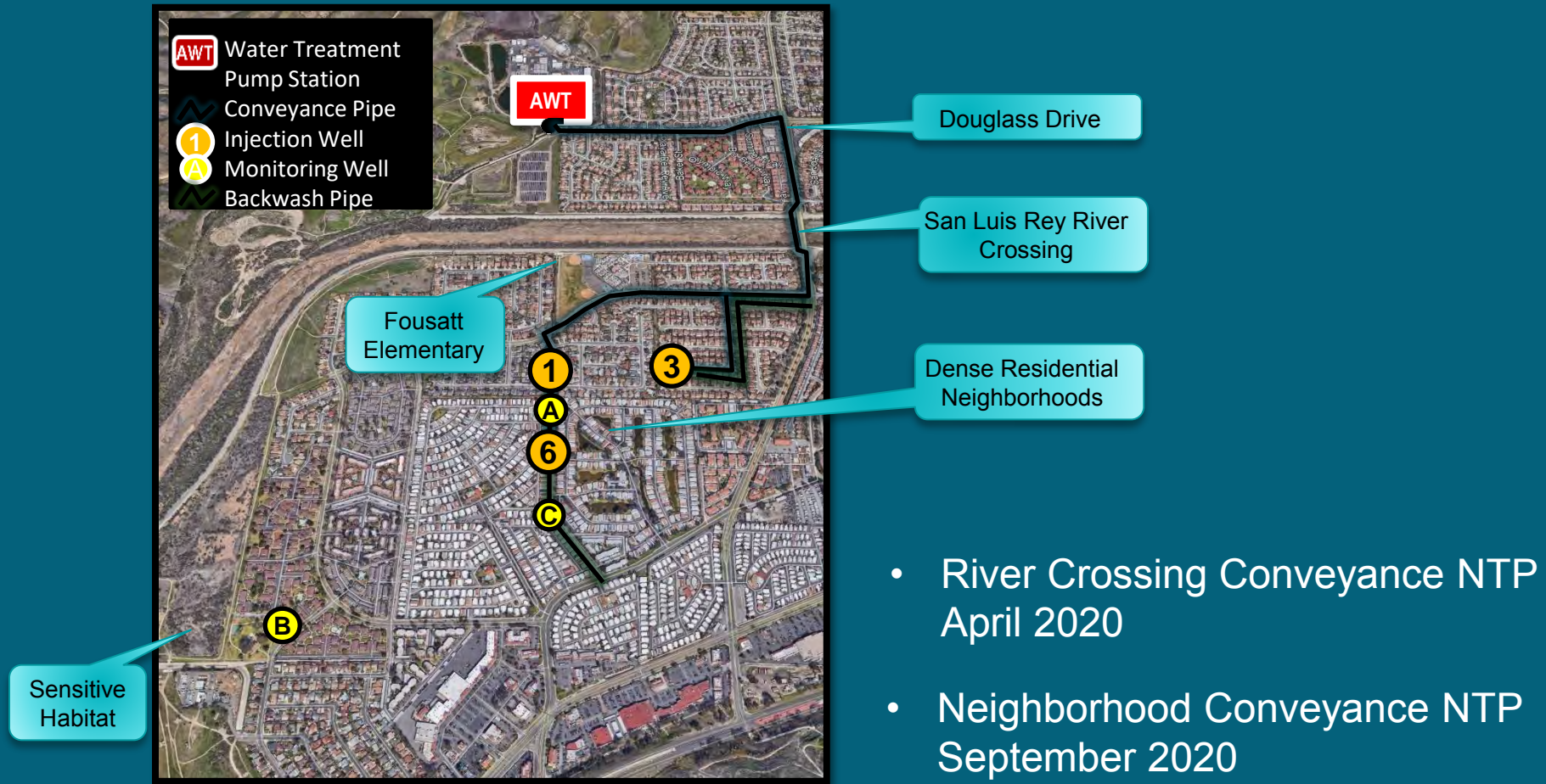
Off-Spec Diversion

Post Stabilization

Product Water Pumps

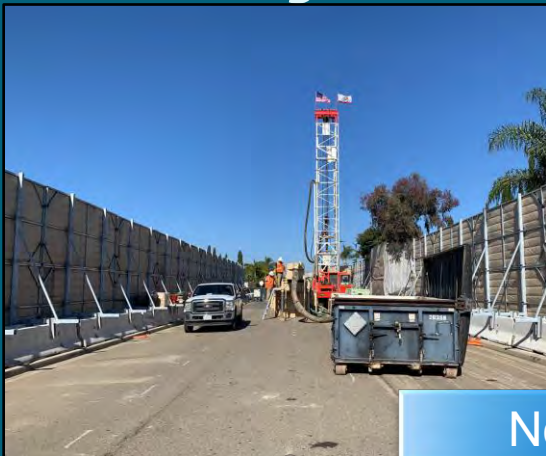


# Construction – Conveyance/Wells

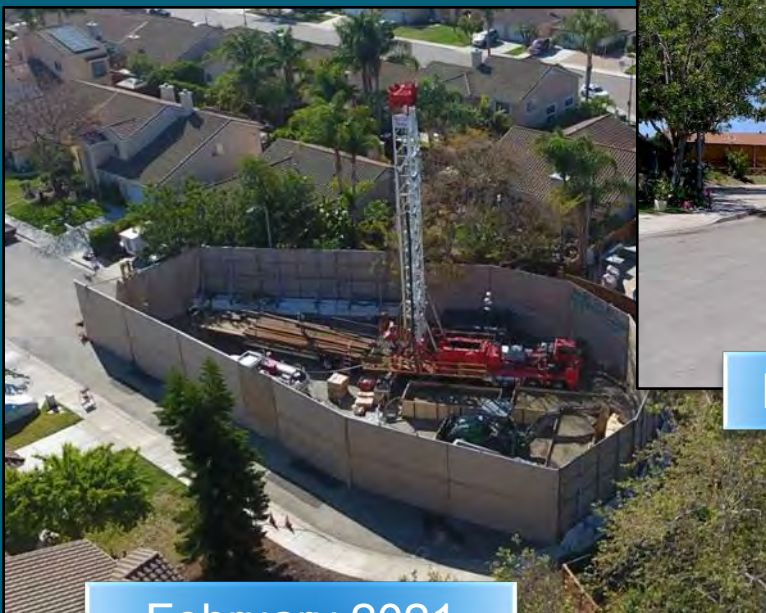




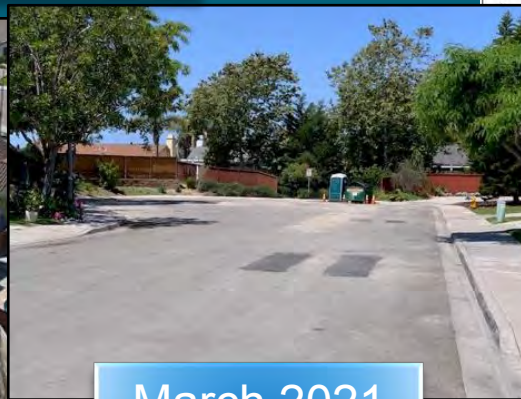
# Injection Wells: Drilling



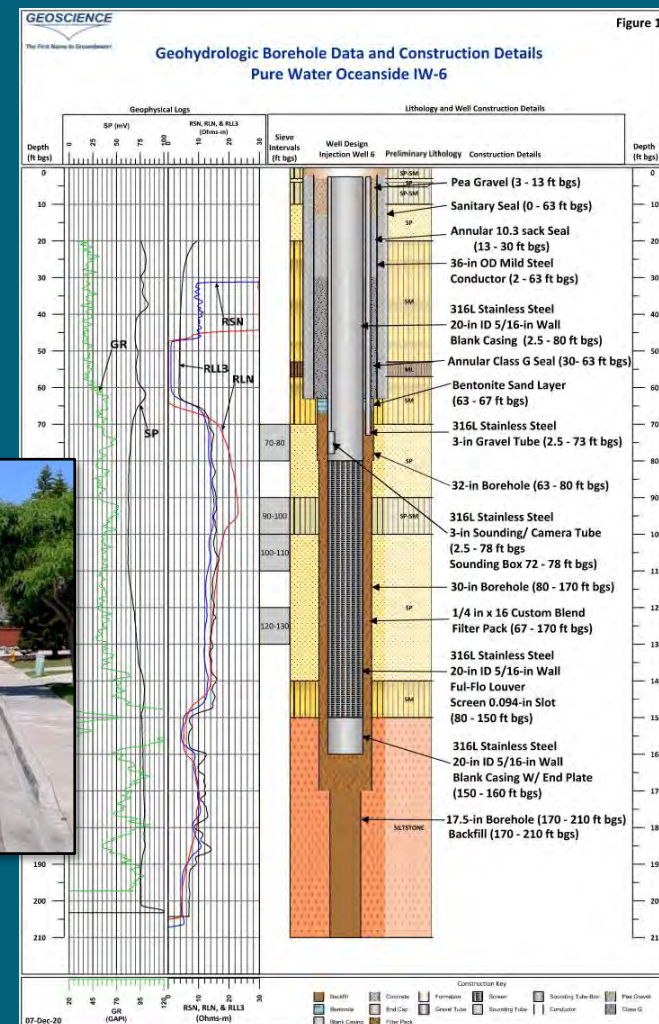
Nov. 2020



# February 2021



# March 2021





# Injection Wells: Development



Jan. - March 2021



February 2021



# Injection Wells: Vaults



February 2021



March 2021

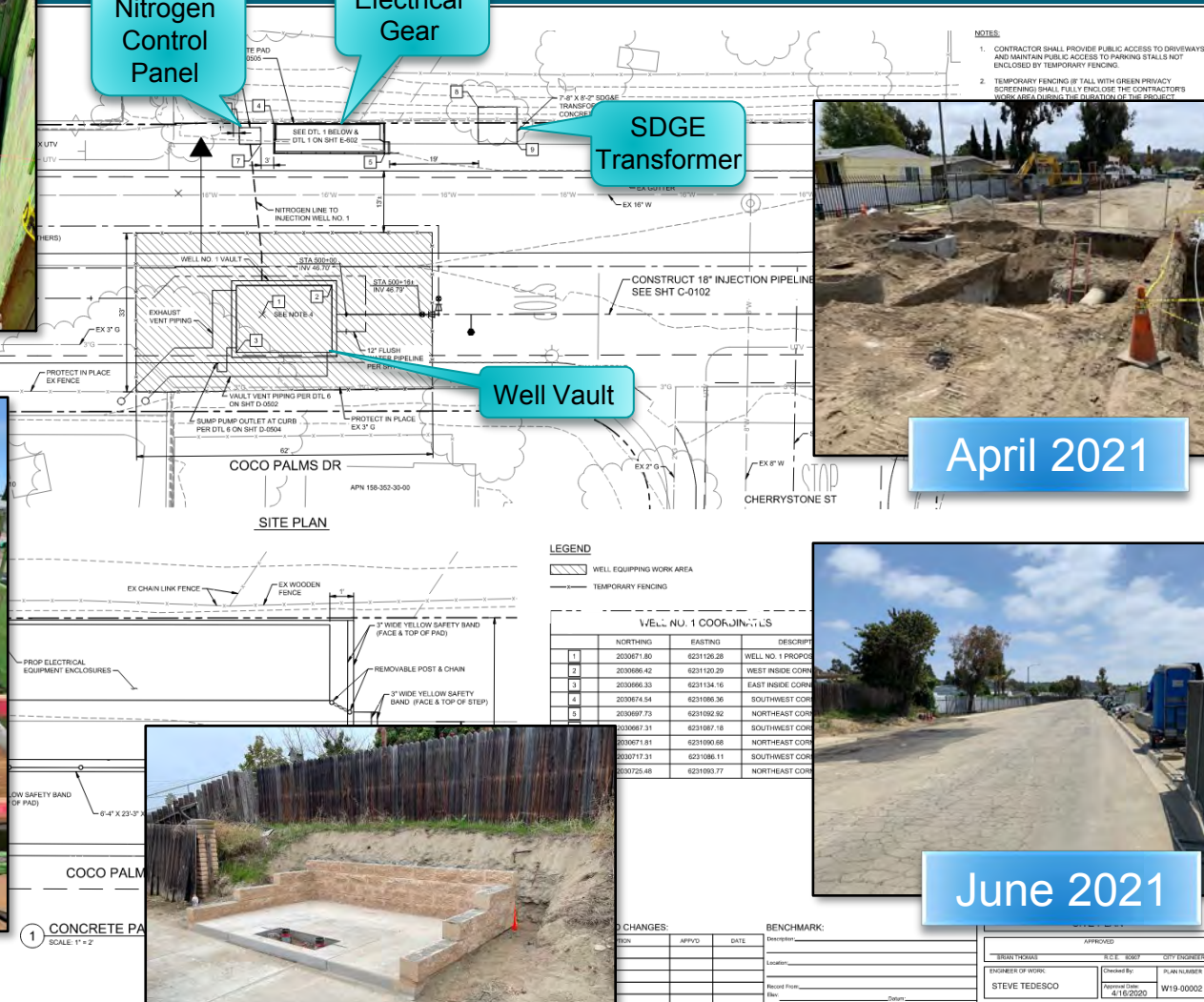


Nitrogen Control Panel

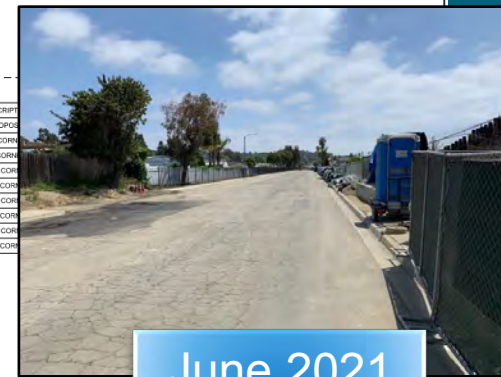
Electrical Gear

SDGE Transformer

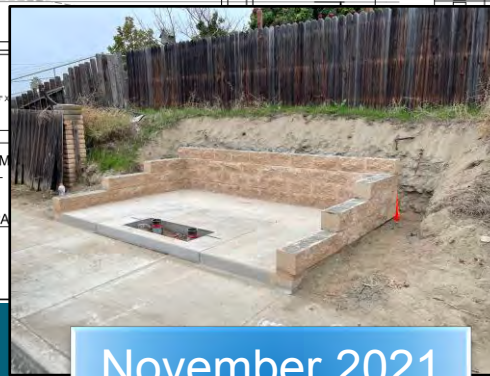
Well Vault



April 2021



June 2021



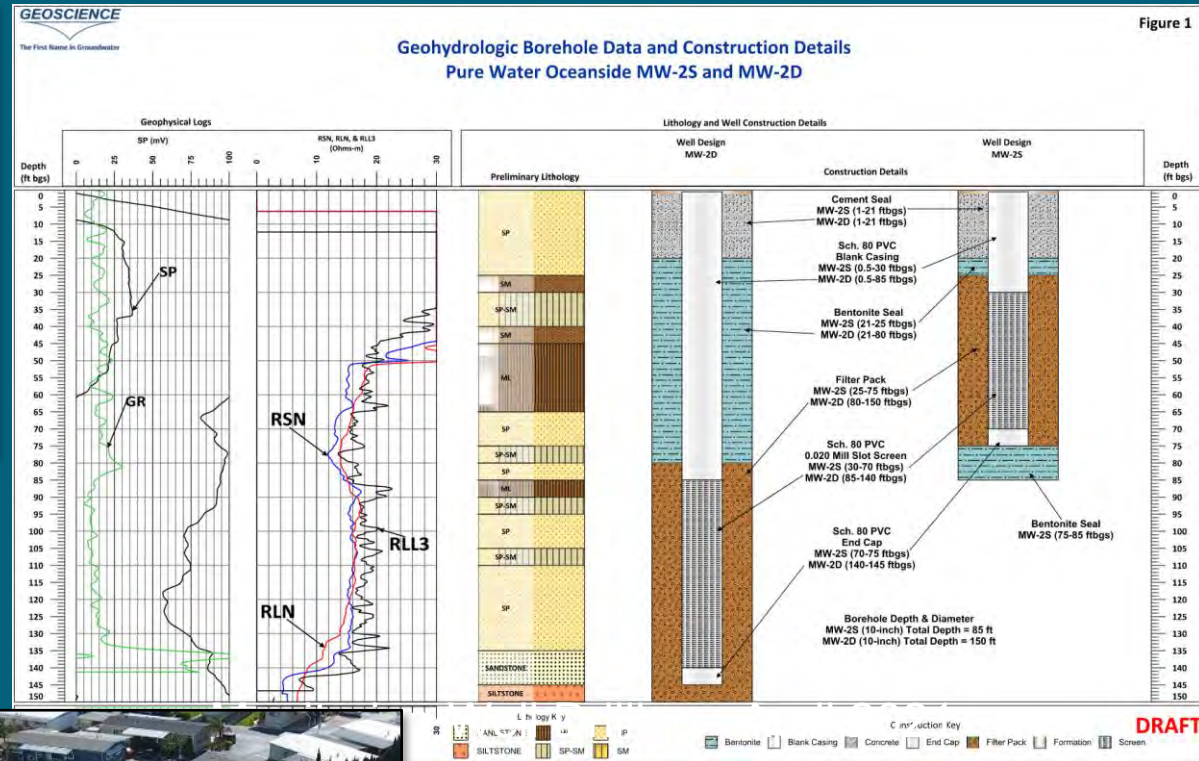
November 2021



# Construction – Monitoring Wells



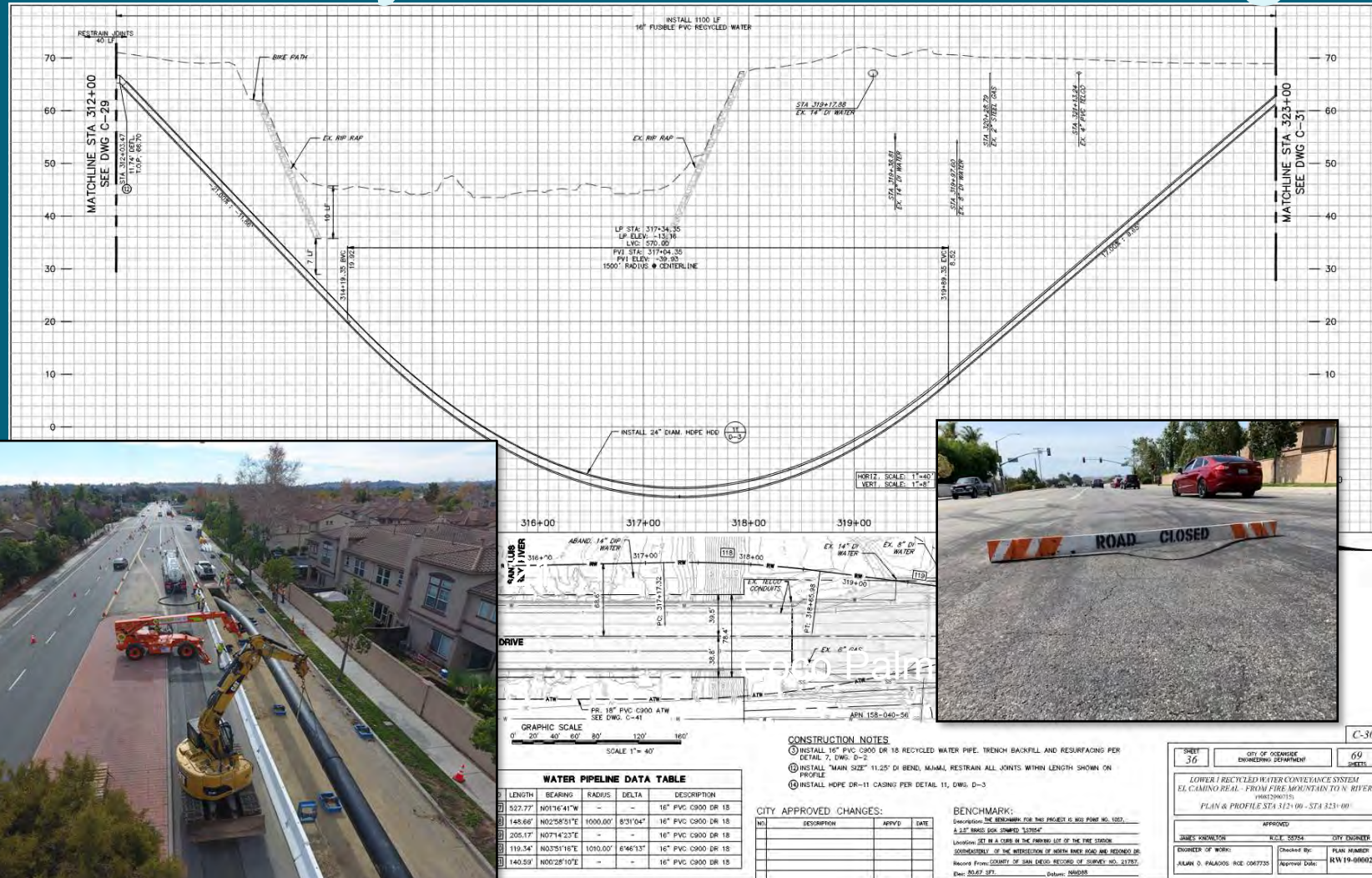
Feb. – March 2021



March - April 2021



# Conveyance: SLR Crossing



January 2021

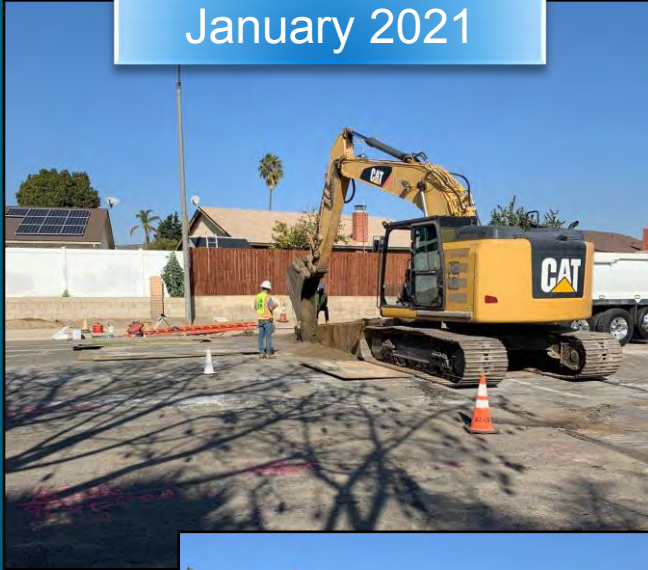
• 24" Diameter HDPE HDD



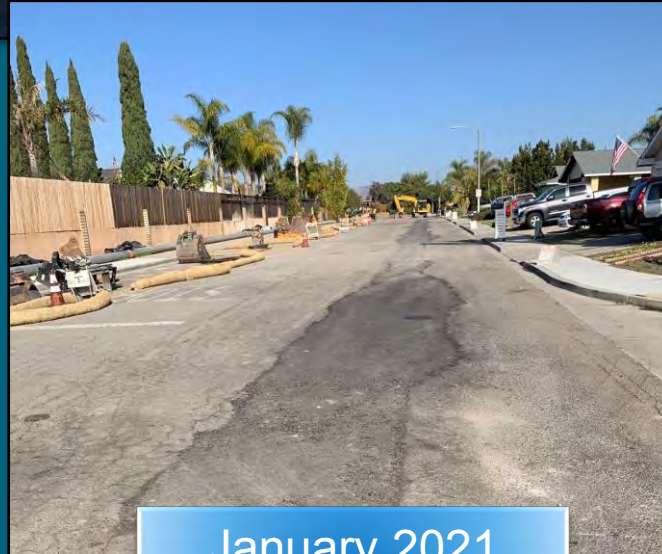
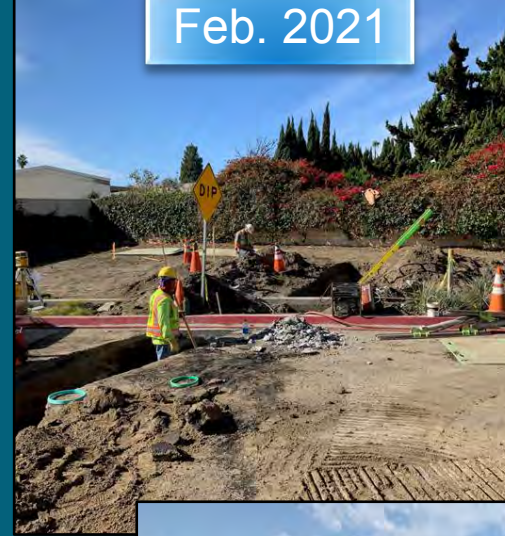


# Conveyance: Coco Palms

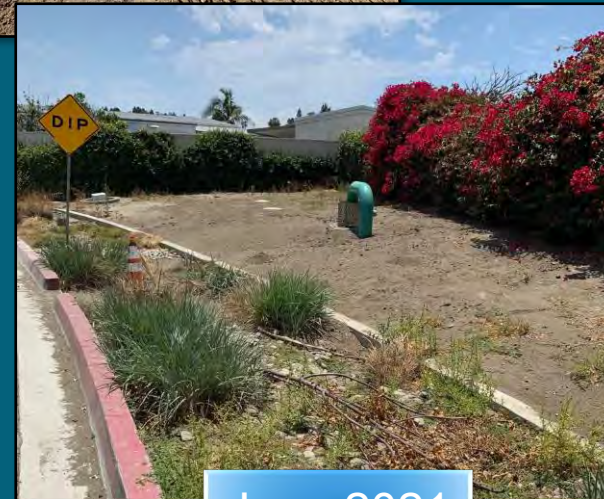
January 2021



Feb. 2021



January 2021



June 2021



# Startup/Commissioning: Nov. – Dec. 2021



Auto Strainer  
Fouling

Laguna Vista  
RW Conversion

SDGE  
Coordination

Easement  
Acquisition

DEH  
Coordination

Ordinance  
Adoption

Free  $\text{Cl}_2$  Tracer  
Study

48-Hour  
Performance Test

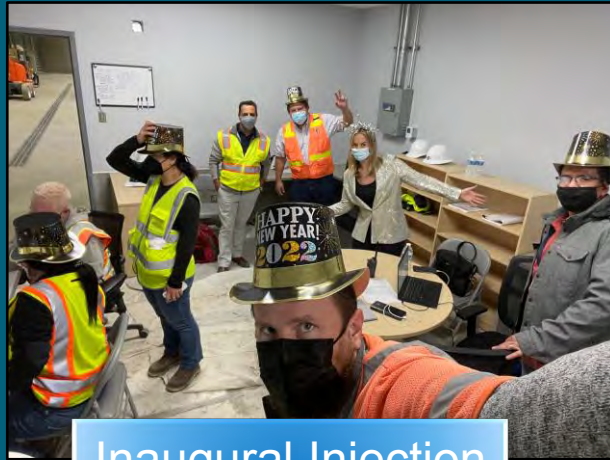


UVAOP Challenge  
Testing

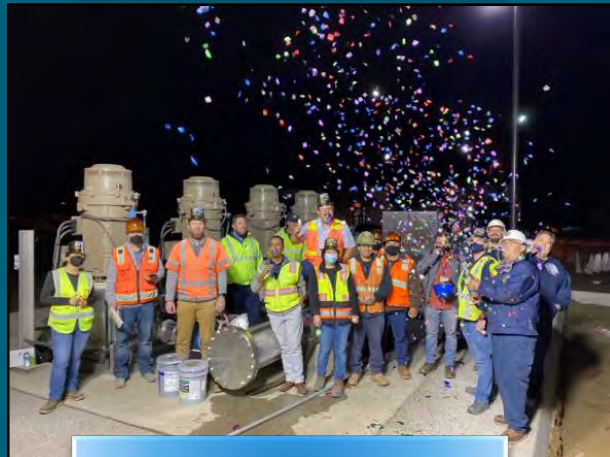


DDW Site Visit



# Reg. Approval/Injection: Dec. 30, 2021



Inaugural Injection



Celebration!!

State Water Resources Control Board  
Division of Drinking Water

December 30, 2021

David W. Gibson  
Executive Officer  
Regional Water Quality Control Board  
San Diego Region  
2375 Northside Drive, Suite 100  
San Diego, CA 92108

**EVALUATION OF THE SUBMITTALS REQUIRED BY THE DIVISION CONDITIONAL ACCEPTANCE LETTER PRIOR TO OPERATIONS AND REVISED CONDITION FOR ADVANCED OXIDATION PROCESS – THE CITY OF OCEANSIDE PURE WATER OCEANSIDE PROJECT ENGINEERING REPORT (3790020-703)**

Dear Mr. Gibson,

The State Water Resources Control Board's Division of Drinking Water (Division) issued the conditional acceptance letter (Letter) for the City of Oceanside Pure Water Oceanside Project Engineering Report dated September 29, 2021. The Letter was incorporated in the Regional Water Quality Control Board's Order No. R9-2021-0100, *Waste Discharge and Water Reclamation Requirements for the City of Oceanside, Advanced Water Purification Facility: Indirect Potable Reuse for Groundwater Recharge, San Diego County*, adopted December 8, 2021.

The Letter required the City to submit several documents prior to operations of the City of Oceanside Pure Water Oceanside Project (Project), including Division's inspection of the San Luis Rey Water Reclamation Facility Advanced Water Purification Facility (AWPFF). The City provided these documents in a letter dated December 22, 2021. The Division completed the on-site inspection as required by Condition 2 of the Letter on December 22, 2021 and provided comments (Attachment A) to the City to update the Operations and Optimization Plan (OOP). Based on the submittals and inspection, the City has met the requirements of the Letter's conditions (Conditions 2, 3, 4, 21, 30(p), 44-48) that pertain to prior to operations requirements. This purpose of this letter is to provide Division's evaluation of the required submittals, revisions to Condition 30(h), and summarize comments from the inspection. Table below includes the Condition number is from the Letter, a description of the submittal, submittal status, and Division's evaluation. In addition, the Division is including the Project's primary station codes (spa-codes) for monitoring locations (Attachment B). The City must incorporate any changes based on this letter into the Project's OOP.

Condition Number	Description	Submittal Status	Division evaluation
Condition 2	Division Inspection	Submitted	Requirements of Condition met.

E. J. JAGHRI, ESQ., CHM | EILEEN SOROCKA, EXECUTIVE DIRECTOR

Approval Letter



# Questions?



# Standing Items

## ▶ State Section Update

—Joone Lopez (MNWD)

## ▶ Regulatory Updates

—DDW

—OCHCA

## ▶ Legislative and Regulatory Matters

## ▶ Potential Funding for Projects

PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
On-Site Retrofit Program (OSRP)	\$2M per year		Provides financial incentives directly to customers	Public and private owners to convert potable water irrigation or industrial water systems to utilize recycled water.	SOLICITATIONS OPEN	First come first serve basis starting 7/1 through 6/30 or until funds are exhausted.	Contact: Jessica Arm, Assistant Resource Specialist II (213) 217-6819 <a href="http://www.bewaterwise.com/on-site-retrofit-program.html">http://www.bewaterwise.com/on-site-retrofit-program.html</a>
MWD Local Resource Program (LRP)			Provides financial incentives for the development of water recycling, groundwater recovery, and seawater desalination projects.	Projects can include: <ul style="list-style-type: none"> <li>• Water recycling</li> <li>• Groundwater recovery</li> <li>• Seawater desalination</li> </ul> Three incentive payment options: <ul style="list-style-type: none"> <li>• Sliding scale incentives up to \$340/AF over 25 years,</li> <li>• Sliding scale incentives up to \$475/AF over 15 years, or</li> <li>• Fixed incentive up to \$305/AF over 25 years.</li> </ul>	SOLICITATIONS OPEN	First come first serve basis starting 7/1 through 6/30 or until funds are exhausted.	Contact: Kira Alonzo Senior Engineer (213) 217-6489 <a href="http://www.mwdh2o.com/AboutYourWater/Planning/Funding-Programs/Local-Resource-Program-Funding">http://www.mwdh2o.com/AboutYourWater/Planning/Funding-Programs/Local-Resource-Program-Funding</a>
Water Savings Incentive Program			Open to all commercial, industrial, agricultural, institutional and large Landscape customers	Project examples: <ul style="list-style-type: none"> <li>• Replacement of older, less water-efficient equipment,</li> <li>• Comprehensive changes to industrial processes that reduce water consumption,</li> <li>• Improvements to existing irrigation systems and landscaping to improve water use efficiency.</li> </ul>	SOLICITATIONS 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	



## Local, State and Federal Funding Opportunities

PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
SoCal WaterSmart		Dependent on type of project	Business and residential rebates to help encourage water efficiency and conservation	<b>Commercial Projects:</b> Plumbing Fixtures Landscaping Equipment Food and HVAC Equipment Medical and Dental Equipment <b>Residential Projects:</b> Turf Removal Residential Devices	SOLICITATION OPEN		<a href="https://socalwatersmart.com/en/commercial">https://socalwatersmart.com/en/commercial</a>  <a href="https://socalwatersmart.com/en/residential">https://socalwatersmart.com/en/residential</a>
MWD Stormwater for Direct Use Pilot Program	\$5M		Beginning early 2020, The MWD will evaluate local stormwater capture projects to better understand their performance and regional water supply benefits. This program will financial incentives to develop, monitor and assess up to 10 new or existing stormwater recharge projects across the district's service area.	To be eligible, project must: <ul style="list-style-type: none"> <li>• Include meter(s) for measurement of capture and use</li> <li>• Offset potable or reclaimed water use</li> <li>• Be within Metropolitan's service area</li> <li>• Have an estimated minimum design capture and use of one acre-foot per year</li> <li>• Have completed CEQA documents, if needed</li> <li>• Submit project schedule</li> <li>• Submit original project construction cost at the time of application (for retrofit projects only)</li> </ul>	SOLICITATIONS OPEN	First come first serve basis starting 7/1 through 6/30 or until funds are exhausted.	Matt Hacker Senior Resource Specialist (213) 217-6756 <a href="https://www.mwdh2o.com/media/6883/stormwater-for-recharge-monitoring-equip-installation-project-application-sample.pdf">https://www.mwdh2o.com/media/6883/stormwater-for-recharge-monitoring-equip-installation-project-application-sample.pdf</a>
MWD Stormwater for Recharge Pilot Program	\$7.5M		Beginning early 2020, The MWD will evaluate local stormwater capture projects to better understand their performance and	To be eligible, project must: <ul style="list-style-type: none"> <li>• Measure capture and recharge</li> <li>• Demonstrate how stored water recharges usable groundwater</li> <li>• Describe how the project will increase groundwater production</li> </ul>	SOLICITATIONS OPEN	First come first serve basis starting 7/1 through 6/30 or until funds are exhausted.	Matt Hacker Senior Resource Specialist (213) 217-6756 <a href="https://www.mwdh2o.com/media/20">https://www.mwdh2o.com/media/20</a>



PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
			regional water supply benefits. This program will financial incentives to develop, monitor and assess up to 10 new or existing stormwater recharge projects across the district's service area.	<ul style="list-style-type: none"> <li>or decrease Metropolitan demand</li> <li>• Possess the right to capture and recharge stormwater in the area of the proposed project and not impact downstream users</li> <li>• Have an estimated design capture of at least 40 acre-feet per year</li> <li>• Be located within Metropolitan's service area</li> <li>• Create new water supply by increasing total recharge to a groundwater basin and decreasing stormwater flows to the ocean</li> <li>• Submit a minimum of three annual monitoring reports</li> </ul>			<a href="#">711/mwd_recharge_final.pdf</a>
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"> <li>• Dish/clothes washer upgrades</li> <li>• Water-saving plumbing fixtures</li> <li>• Hot-water recirculating pumps</li> <li>• Leak detection &amp; repair</li> <li>• Landscape irrigation upgrades</li> <li>• Commercial, institutional, and industrial water efficiency</li> </ul>	Solicitation Open and proposal accepted through GRanTS application	Continuously	Funding will be split: <ul style="list-style-type: none"> <li>• \$1.75 million is to be loaned out for water use efficiency upgrades</li> <li>• \$5 million is to be loaned out for fixing expensive and difficult to repair customer leaks</li> </ul>
DWR IRWM Grant Program Implementation (Proposition 1, Round 2)	\$418M statewide \$98M for LA Region	TBD	Projects and programs that support IRWM.	<ul style="list-style-type: none"> <li>• Water reuse &amp; recycling</li> <li>• Water conservation</li> <li>• Surface storage/GW recharge</li> <li>• Conjunctive use</li> <li>• Water conveyance</li> </ul>	DWR released of DRAFT Proposal Solicitation Package (PSP) for Public	Open	See link below for website:  <a href="https://www.water.ca.gov/Work-With-Us/Grants-And-">https://www.water.ca.gov/Work-With-Us/Grants-And-</a>

PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
				<ul style="list-style-type: none"> <li>• Watershed restoration and protection</li> <li>• SW resource management</li> <li>• Desalination</li> <li>• WQ improvements</li> </ul>	Comment Period (45-day minimum)		<a href="#">Loans/IRWM-Grant-Programs/Proposition-1</a>
DWR Urban and Multi-Benefit Drought Relief Program	\$190M (\$95M to Urban Community Fund and \$95 M to Multi-benefit Projects Fund)	\$190M with no match requirement		<p>For the purposes of this GL/PSP, "project" means all planning, design, engineering, acquisition of real property interests, construction and related activities undertaken to implement a discrete action to be funded under this Program. Eligible project types include:</p> <ul style="list-style-type: none"> <li>o Hauled water</li> <li>o Installation of temporary community water tanks</li> <li>o Emergency water interties</li> <li>o New wells or rehabilitation of existing wells</li> <li>o Construction or installation of permanent connection to adjacent water systems, recycled water projects that support immediate relief to potable water supplies</li> <li>o Drought resiliency planning (not applicable to Multibenefit Drought Funds)</li> <li>o Other projects that support immediate drought response that satisfy the criteria and eligibility outlined in the GL/PSP</li> </ul>	CLOSED		<p>Projects must be completed by March 31, 2026.</p> <p>Each applicant must use the application form available on the Program website, and submit a complete application to DWR using the following e-mail address: <a href="mailto:Urbandrought@water.ca.gov">Urbandrought@water.ca.gov</a></p>



PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
DWR IRWM Grant Program Planning (Proposition 1, Round 2)	\$5M	TBD	Projects and programs that support IRWM.	Planning projects that accomplish: <ul style="list-style-type: none"> <li>• Development of an IRWM plan that meets the IRWM Plan Standards</li> <li>• Compliance with recent legislation</li> <li>• Improvement of an existing IRWM plan.</li> </ul>	Waiting for DWR to release of DRAFT Proposal Solicitation Package (PSP)	March 2022	See link below for website: <a href="https://www.water.ca.gov/Work-With-Us/Grants-And-Loans/IRWM-Grant-Programs/Proposition-1">https://www.water.ca.gov/Work-With-Us/Grants-And-Loans/IRWM-Grant-Programs/Proposition-1</a>
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	
USEPA Water and Infrastructure Finance and Innovation Act (WIFIA) Program	\$20M minimum project size for large communities \$5M minimum project size for small communities (<25,000)	Funding available now 49% maximum portion of eligible project costs that WIFIA can fund	<ul style="list-style-type: none"> <li>• Local, state, tribal and federal government entities</li> <li>• Partnerships and joint ventures</li> <li>• Corporations and trusts</li> <li>• CWSRF and DWSRF programs</li> </ul>	<ul style="list-style-type: none"> <li>• Wastewater conveyance and treatment projects</li> <li>• Drinking water treatment and distribution projects</li> <li>• Enhanced energy efficiency projects at drinking water and wastewater facilities</li> <li>• Desalination, aquifer recharge and water recycling projects</li> <li>• A combination of eligible projects secured by a common security pledge or submitted under one application by an SRF program.</li> </ul>	EPA announces WIFIA funding availability and application process details in the Federal Register and on its website ( <a href="http://www.epa.gov/wifia">www.epa.gov/wifia</a> )	CLOSED	NEPA, Davis-Bacon, American Iron and Steel and all federal cross-cutter provisions apply.  <b>Includes</b> acquisition of property if it is integral to the project or will mitigate the environ. impact of a project.



PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
<b>WaterSMART Grants – FY 2022</b>  <b>Drought Resiliency Projects</b>	Purpose: Funding for on-the-ground projects and modeling tools that will increase water reliability and improve water management.	States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority 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”). Nonprofit conservation organizations that are acting in partnership and with the agreement of an entity described above.	Total Funding Available: \$16.5M Funding Request:  <b>Funding Group I:</b> Up to \$500,000 per agreement for smaller, on-the-ground projects that should be completed within 2 years  <b>Funding Group II:</b> Up to \$2,000,000 per agreement for larger, phased on-the-ground projects that may take up to 3 years to complete  Non-Federal Cost Share: 50% or greater.	The FY22 Funding Opportunity was <b>closed</b> on Wednesday October 5, 2021 at 3:00 PM (PST) via <a href="http://www.Grants.GOV">www.Grants.GOV</a>  For more information: <a href="https://www.grants.gov/web/grants/view-opportunity.html?oppld=335035">https://www.grants.gov/web/grants/view-opportunity.html?oppld=335035</a>
<b>WaterSMART Grants – FY 2022</b>  <b>Water and Energy Efficiency Grants</b>	Purpose: On-the-ground water management improvement projects, including projects that conserve water and address water supply reliability..	States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority 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”). Nonprofit conservation organizations that are acting in partnership and with the agreement of an entity described above.	Total Funding Available: \$15.0M Funding Request:  <b>Funding Group I:</b> Up to \$500,000 per agreement for smaller, on-the-ground projects that should be completed within 2 years  <b>Funding Group II:</b> Up to \$2,000,000 per agreement for larger, phased on-the-ground projects that may take up to 3 years to complete  Non-Federal Cost Share: 50% or greater.	The FY22 Funding Opportunity was closed on November 3, 2021 at 3:00 PM (PST) via <a href="http://www.Grants.GOV">www.Grants.GOV</a>  For more information: <a href="https://www.grants.gov/web/grants/view-opportunity.html?oppld=335103">https://www.grants.gov/web/grants/view-opportunity.html?oppld=335103</a>



PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
<b>WaterSMART Grants – FY 2022</b>  <b>Small-Scale Water Efficiency Projects</b>	Purpose: To support small water efficiency improvements that have been identified through previous planning efforts.	States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority 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”). Nonprofit conservation organizations that are acting in partnership and with the agreement of an entity described above.	Up to \$75,000 for projects to be completed within two years.  Non-Federal Cost Share: 50% or greater.	FY21 selections were announced on August 31, 2021.  The FY22 Funding Opportunity schedule is currently under development.
<b>WaterSMART Grants – FY 2022</b>  <b>Water Marketing Strategy Grants</b>	Purpose: Planning activities to develop water marketing strategies that establish or expand water markets or water marketing activities between willing participants.	States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority 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”). Nonprofit conservation organizations that are acting in partnership and with the agreement of an entity described above.	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.	FY21 selections were announced July 1, 2021.  The FY22 Funding Opportunity schedule is currently under development.



PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
<b>WaterSMART Grants – FY 2022</b>  <b>Environmental Water Resources Projects</b>	Purpose: To support water conservation and efficiency projects that result in quantifiable and sustained water savings and benefit ecological values; water management or infrastructure improvements to mitigate drought-related impacts to ecological values; and watershed management or restoration projects benefitting ecological values that have a nexus to water resources or water resources management.	<p>Category A: States, Indian 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>Category B: Nonprofit conservation organizations that are acting in partnership with and with the agreement of an entity described in Category A.</p> <p>Category C: Nonprofit conservation organizations submitting an application for a project to improve the condition of a natural feature such as wetlands on Federal land where entities in Category A within the applicable service area have been notified and do not object to the project.</p> <p>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”).</p>	Total Funding Available: \$2.0M per agreement for a project that can be completed within 3 years.	The FY22 Funding Opportunity was closed on August 4, 2021.  For more information: <a href="https://www.grants.gov/web/grants/view-opportunity.html?oppld=335081">https://www.grants.gov/web/grants/view-opportunity.html?oppld=335081</a>

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
<b>Cooperative Watershed Management Program</b>  FY19: \$2.25M FY20: \$2.25M FY21: \$4.25M	<b>Phase I</b> 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.  Established watershed groups that represent a diverse group of stakeholders, have completed a watershed restoration plan, are capable of promoting sustainable use of water resources located in the Western United States or Territories.	Up to \$100,000 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.	FY21 selections were announced June 15, 2021.  The FY22 Funding Opportunity schedule is currently under development.
<b>Drought Contingency Planning</b>	Funding for development, or update, of comprehensive drought plans.	States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority located in the Western United States (except Alaska).	Up to \$200,000. Non-Federal Cost Share: 50% or greater.	FY21 selections were announced on April 21, 2021.  The FY22 Funding Opportunity schedule is currently under development.
<b>Drought Emergency Response Actions</b>	Emergency response actions undertaken by Reclamation to minimize losses and damages resulting from drought.	States and Indian tribes in the Western United States (except Alaska).	Funding availability is dependent on appropriations.	Reclamation will accept emergency assistance requests on an on-going basis.  The FY22 Funding Opportunity schedule is currently under development.



PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
<b>Title XVI Program</b>  FY19: \$58.6M FY20: \$63.6M FY21: \$63.6M	<b>Title XVI Congressionally Authorized Water Reclamation and Reuse Projects</b>  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 Public Law (P.L.) 102-575, as amended (43 United States Code [U.S.C.] 390h through 390h-39).	Up to 25 percent of the total cost of planning, design, and/or construction that has either already been completed or will be conducted before September 30, 2025.  Non-Federal Cost Share: 75% or greater.	<b>Application due date:</b> <b>March 15, 2022 at 4:00 p.m. Mountain Daylight Time (MDT).</b>  Approximately 3 to 10 awards, depending on the amount requested by each applicant and the amount of funding available.
	<b>Title XVI WIIN Act Water Reclamation and Reuse Projects</b>  Funding for planning, design, and construction of WIIN Act water recycling and reuse projects	Sponsors of water recycling projects (Project) that have submitted a Feasibility Study for Reclamation review by the date this NOFO is posted and found to meet all of the requirements of Reclamation Manual Release WTR 11-01 no later than April 30, 2022.	Up to 25 percent of the total cost of planning, design, and/or construction that has either already been completed or will be conducted before September 30, 2025, up to a maximum of \$30 million per project.  Non-Federal Cost Share: 75% or greater.	<b>Application due date:</b> <b>March 15, 2022 at 4:00 p.m. Mountain Daylight Time (MDT).</b>  Approximately 10 to 30 awards, depending on the amount requested by each applicant and the amount of funding available.
	<b>Title XVI Feasibility Studies</b>  Funding for development of new Title XVI water reclamation and reuse project feasibility studies	Entities with water delivery authority, all located in the Western United States or Territories (except Alaska).	Up to \$150K for studies to be completed in 18 months; up to \$450K for those to be completed within 3 years.  Non-Federal Cost Share: 50% or greater.	No funding opportunity is planned this year.

## Local, State and Federal Funding Opportunities

PROGRAM TITLE	Description	Eligible Applicants	Federal/Non-Federal Cost Share	Current Status
<b>Desalination Construction</b>  <b>FY22: \$30M</b>	Funding for planning, design, and construction of WIIN brackish groundwater and ocean desalination projects	Sponsors of seawater or brackish water desalination projects located in the Western United States or United States Territories as identified in the Reclamation Act of June 17, 1902, as amended that have submitted a Feasibility Study for Reclamation review by the date this NOFO is posted and found to meet all of the requirements of Reclamation Manual Release WTR 11-01 no later than April 30, 2022.	Up to 25 percent of the total cost of planning, design, and/or construction that has either already been completed or will be conducted before September 30, 2025, up to a maximum of \$30 million per project.  Non-Federal Cost Share: 75% or greater.	<b>Application due date:</b> <b>March 15, 2022 at 4:00 p.m. Mountain Daylight Time (MDT).</b>  Approximately 2 to 8 awards, depending on the amount requested by each applicant and the amount of funding available.
<b>Basin Study Program</b>  <b>FY19: \$5.2M</b> <b>FY20: \$5.2M</b> <b>FY21: \$9.4M</b> <b>(\$3M for Priorities TBD)</b>	<b>Applied Science Grants</b> Projects to develop hydrologic information and water management tools and to improve modeling and forecasting capabilities. (\$2M)	States, Indian tribes, irrigation districts, water districts, universities, non-profit research institutions, organizations with water or power delivery authority, or non-profit organizations located in the Western United States or Territories.	Up to \$200,000 per agreement for a project that can be completed within two years.  Non-Federal Cost Share: 50% or greater.	FY21 selections were announced September 2, 2021.  The FY22 Funding Opportunity schedule is currently under development.



# Upcoming Webcasts, Conferences and Meetings

## ➤ Webcasts & Conferences

- **Alternative Approaches to Replace Ozone and BAC in California DPR Projects**  
February 24, 2022 | 11 am PT
- **Enabling Resilient Communities through a National Smart One Water Strategy**  
April 6, 2022 | 11 am PT
- **2022 Annual WaterReuse Symposium**  
March 6-9, 2022 | San Antonio, TX

## ➤ Upcoming OC Chapter Meetings

- April 21
- June 16
- August 18

## ➤ Other Announcements/Discussion Items

See [www.watereuse.org](http://www.watereuse.org) to register and for more information.

# Roundtable: What's going on - All

Have a question?

Select the “Raise Hand” button or  
select \*6 on your telephone.



THANK YOU

Meeting Adjourned