Proposition 1 Round 2 Integrated Regional Water Management Grant Competition Process

Ian Achimore, Senior Watershed Manager

OWOW Steering Committee | May 27, 2021

Item No. 4.A.

Purpose of Presentation

- Overview of **scoring criteria** from Prop 1 Round 1 OWOW Process,
- Update on the latest information from **Department of Water Resources** regarding Prop 1 Round 2,
- Present the Prop 1 Round 2 **Communication Plan** for feedback from OWOW Steering Committee

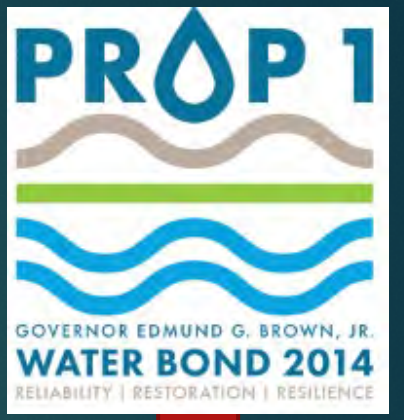
Prop 1 and Integrated Regional Water Management (IRWM)

All overall IRWM Round 1 and 2 project proposals must:

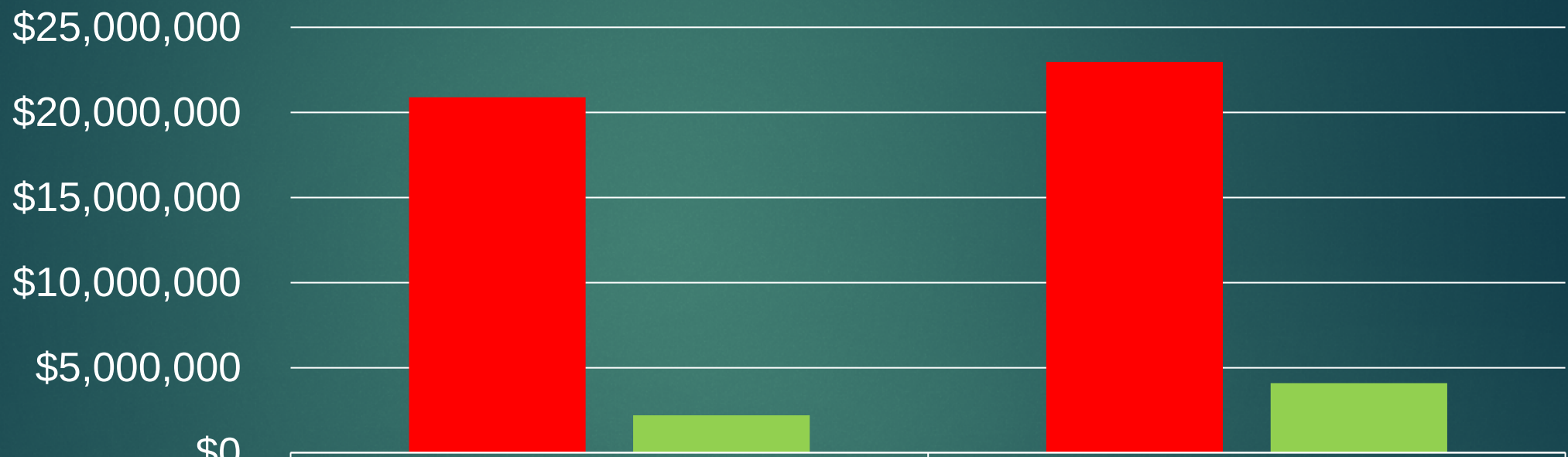
- Respond to climate change, and
- Contribute to regional water self-reliance.

All individual projects must:

- Be "implementation" projects (may have small component for related education efforts),
- Have an expected useful life of 15 years, and
- Have CEQA/permits acquired within 18 months after execution of grant agreement with Department of Water Resources (DWR).



Prop 1 IRWM Implementation Grant Funding for Watershed

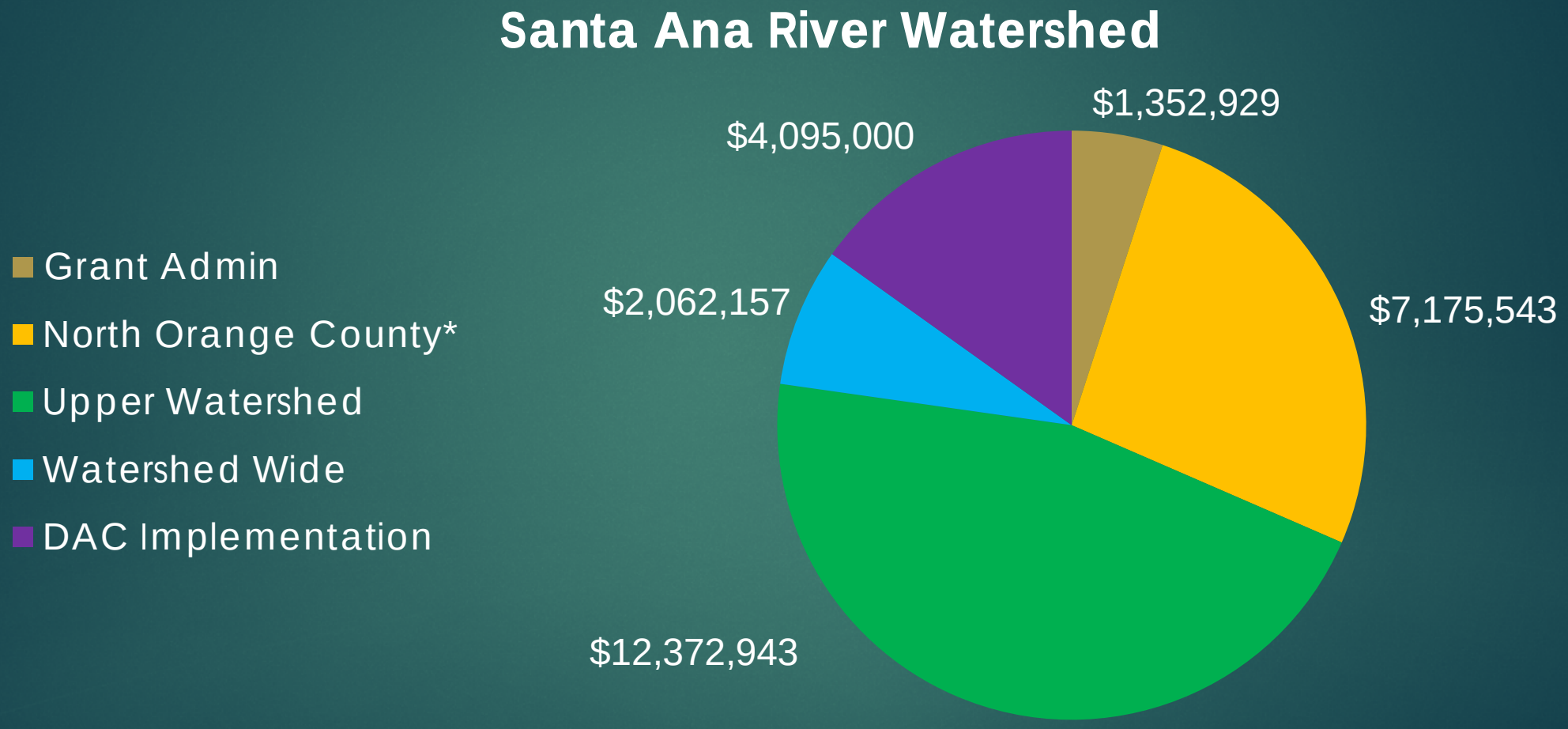


	Round 1	Round 2
General	$20,886,428	$22,963,572
DAC* Implementation	$2,205,000	$4,095,000
Total	$23,091,428	$27,058,572

Grand Total = $50,150,000

*DAC – Disadvantaged Community

Prop 1 Round 2 Amounts by Category



Total = $27,058,572

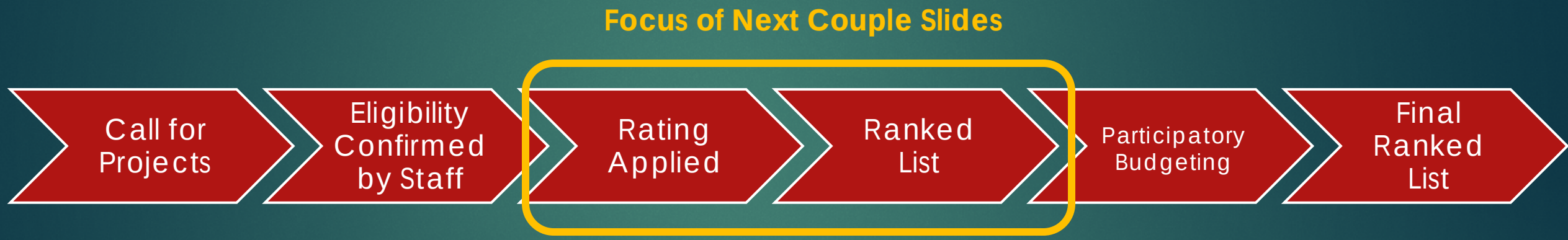
*Includes $989,072 carry over from Round 1

Draft* Round 2 (R2) Schedule

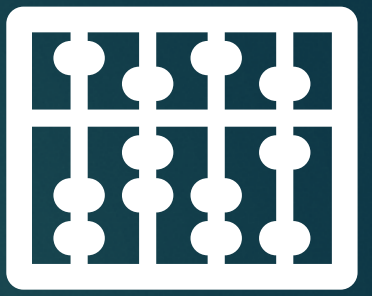
***Schedule assumes DWR will release draft Proposal Solicitation Package (PSP) by August 2021, and all other Round 2 deadlines will reflect the same timing of the Round 1 schedule of events.**

Scoring Criteria Overview and Analysis to Inform Round 2

OWOW Grant Application Process



What Was Covered in Last Steering Committee Meeting



- Agreement with North Orange County IRWM creating geographic pots of funding,
- Overall funding Proposition 1 policy approved by OWOW Steering Committee in November 2018,
- Prop 1 Round 1 process, eligibility and scoring criteria,
- Possible updates to criteria could include:
  - Change small project threshold of ≤$500,000 of grant request,
    - Change the 10% and 90% split for large small and large projects, and
  - Weighting factors of benefits.
- Need to discuss with stakeholders before coming to OWOW Steering Committee with a recommendation.

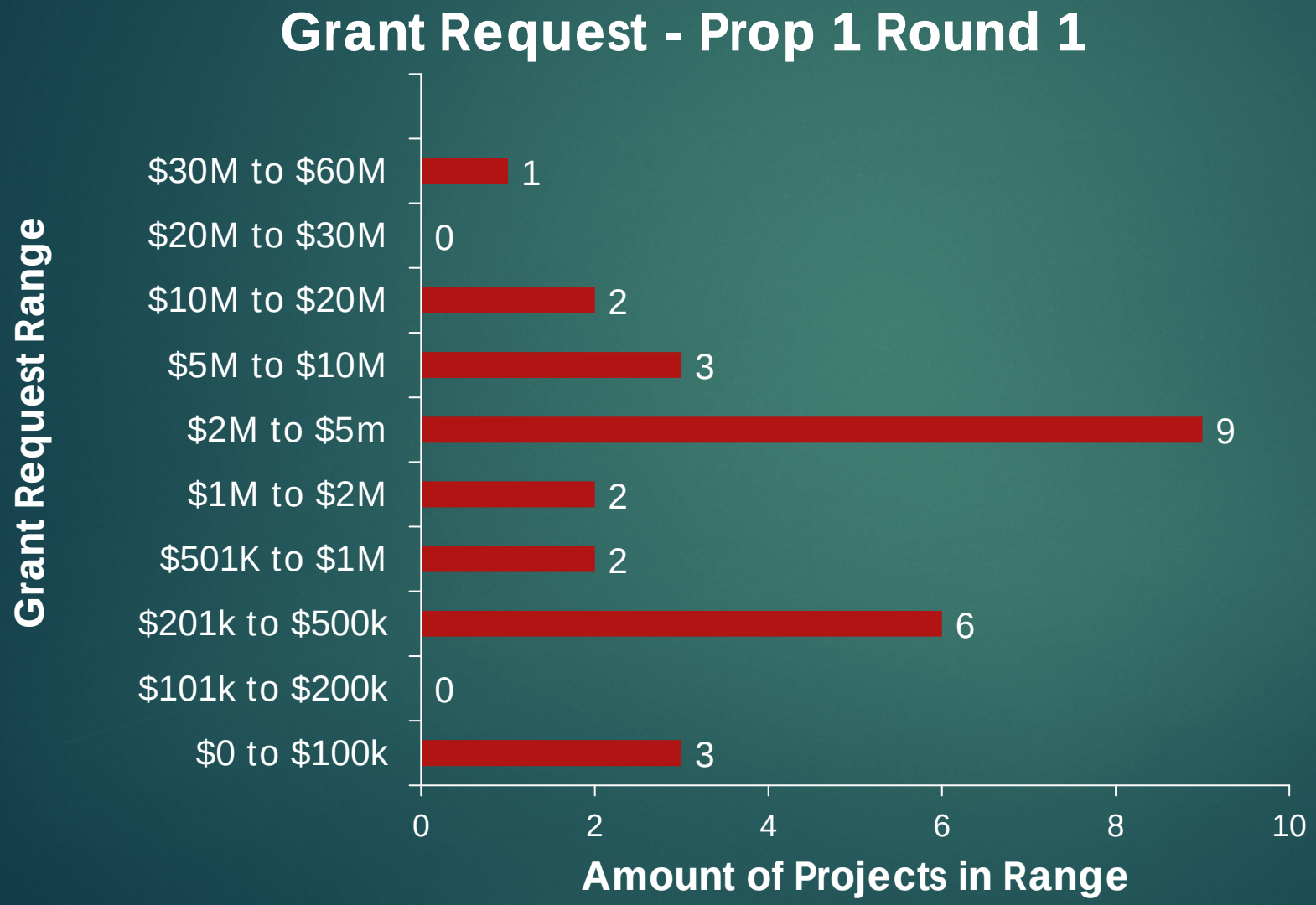
Small Project Competition – Scoring Criteria Policy

- Goal of Policy: Ensure smaller projects can compete on a level playing field,
- Steering Committee approved ≤$500,000 grant request threshold for Round 1,
  - Committee split out total Round 1 funding into two pots:
    - 10% of total for small projects, and 90% of total for large projects,
- Using Round 2 available funds, the calculations of 10% and 90% are shown **in table on this slide**. → → → → → → → → →

	Small	Large
Grant Request Threshold	≤$500,000	>$500,000
Grant Funds Available (10% and 90%)	 $1.9M	 $16.7M

Grant Funds Total = $18,530,100
(sum of upper watershed, watershed-wide and DAC funding)

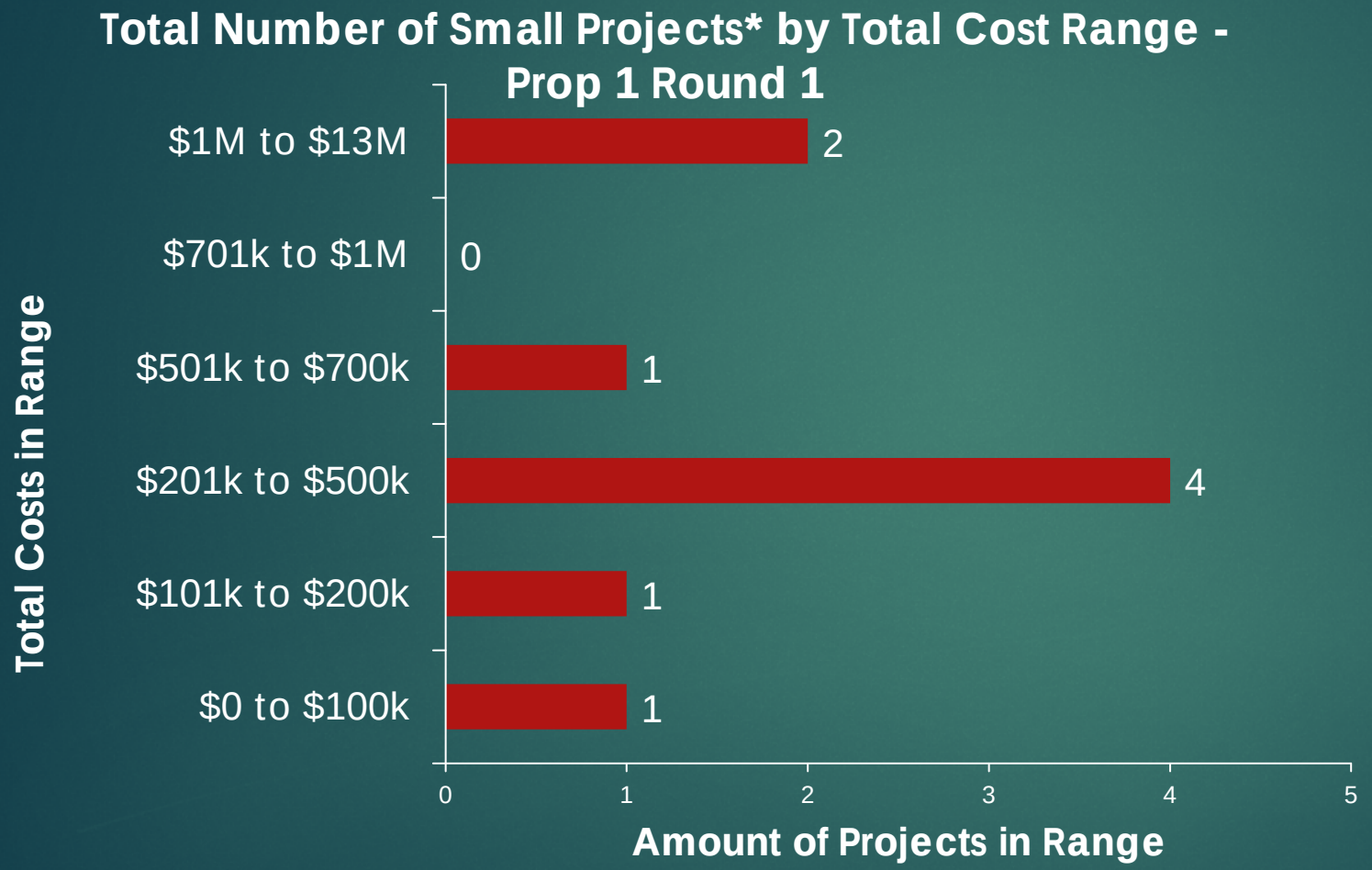
Prop 1 IRWM Grant Request Analysis



Notes on chart:

- Many projects requesting grant in the amounts of approximately $5M and $500K.

Total Project Costs Relationship



Notes on chart:

- Most projects are below $500K even in total project cost to ensure they were considered a Small Project

*As defined as ≤$500,000 grant request; **State requires local cost share of 50% of total project costs.

Weighted Score Analysis

- Step 1 – Max Quantity:

Identify max quantity in a benefit class

- Step 2 – Raw Score:

(Project Quantity / Max Quantity) x 20

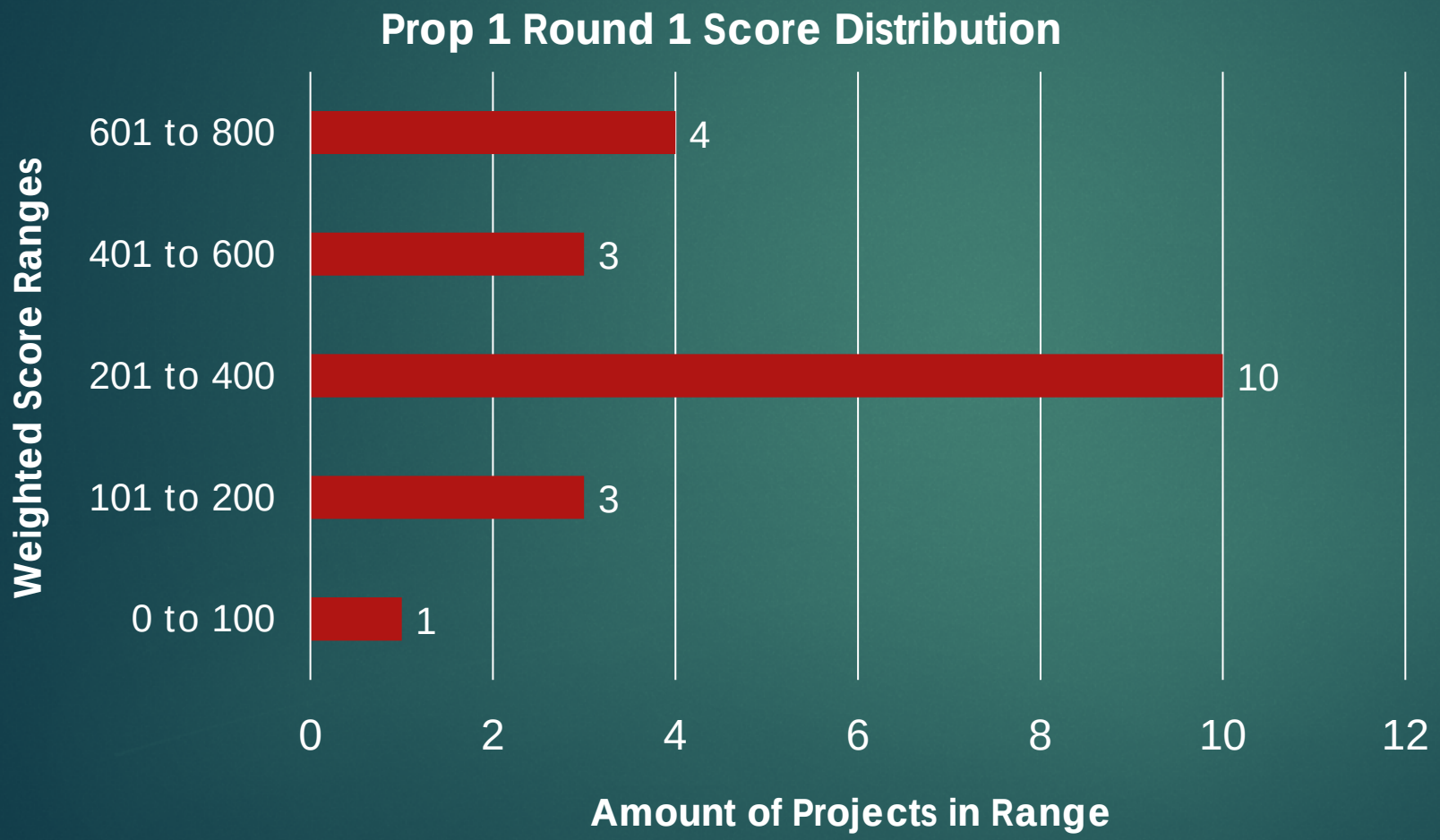
- Step 3 – Weighted score:

Raw Score * Weighting Factor

Example: $\left(\frac{x\ acre\ feet}{X\ acre\ feet} \times 20\right) \times 9.2$

Current OWOW Benefit Classes	Weighting Factor
Water supply reliability, efficiency	9.2
Groundwater recharge and management	8.9
Reclaim water, treat and convey	8.5
Multipurpose flood & Stormwater	8.4
Watershed / ecosystem / wetland	7.7
Benefits to members of DACs	7.7
Benefits large area of watershed	7.6
Drinking water treatment, distribution	7.4
Contains public education component	7.4
Non-point source pollution reduction, etc.	7.1
Fisheries restoration / protection	6.9
Removal invasive non-native species	6.3

Weighted Score Distribution Analysis



Notes on chart:

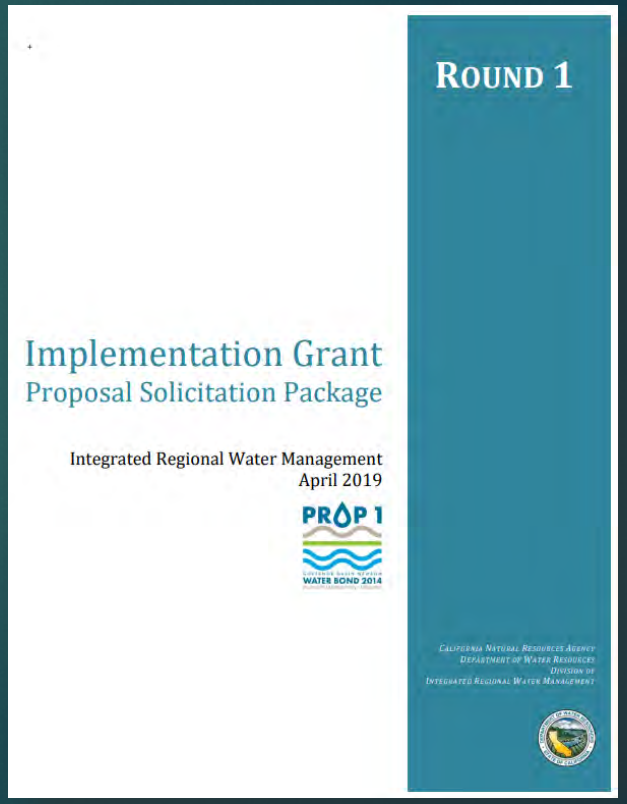
- Projects analyzed are from Prop 1 Round 1.
- Weighted scores are largely distributed along a bell curve.

Update on the latest information from Department of Water Resources regarding Prop 1 Round 2

Updates from DWR on Round 2

- Simplify application process including removal of required pre-application workshop,
- Promotion of climate resilience throughout the Proposal Solicitation Package (PSP) and grant guidelines documents,
- Clarification of "directly benefit" to DAC to ensure stakeholders know if their potential project is eligible,
- Two application deadlines to DWR: March 2022 and September 2022, and
- Potential for Governor and State Legislature to add additional grant requirements based on major policy issues (such as responding to drought emergencies).

DWR's PSP for Round 1



Prop 1 Round 2 Communication Plan Presented for Feedback

How Communication Plan Fits into Prop 1 Round 2 Schedule

Goal: Outreach to groups before starting call for projects.

Types of Groups to Communicate With

- Council of governments,
- Flood control districts,
- SAWPA member agencies and large to mid-sized retail water agencies,
- Small water agencies (mutual water companies, investor-owned utilities)
- Tribes,
- Non-government organizations,
- Partners in the disadvantaged community involvement program and others,
- Resource conservation districts, and
- Forest related groups (National Forests, fire safe councils, Cal-Fire).

Outreach Methods to be Used

- Presentations by SAWPA staff to governing boards,
- SAWPA OWOW Grant funding workshops, and
- Special outreach workshops for Native American Tribal Nations, Small Water Communities serving Disadvantaged Communities, and related non-profits.

Recommendation

Provide feedback regarding:

- **Scoring criteria** shared,
- Latest information from **Department of Water Resources** regarding Prop 1 Round 2, and
- Prop 1 Round 2 **Communication Plan.**

Orange County Stormwater Resource Plan Update

Christy Suppes, County of Orange

May 27, 2021

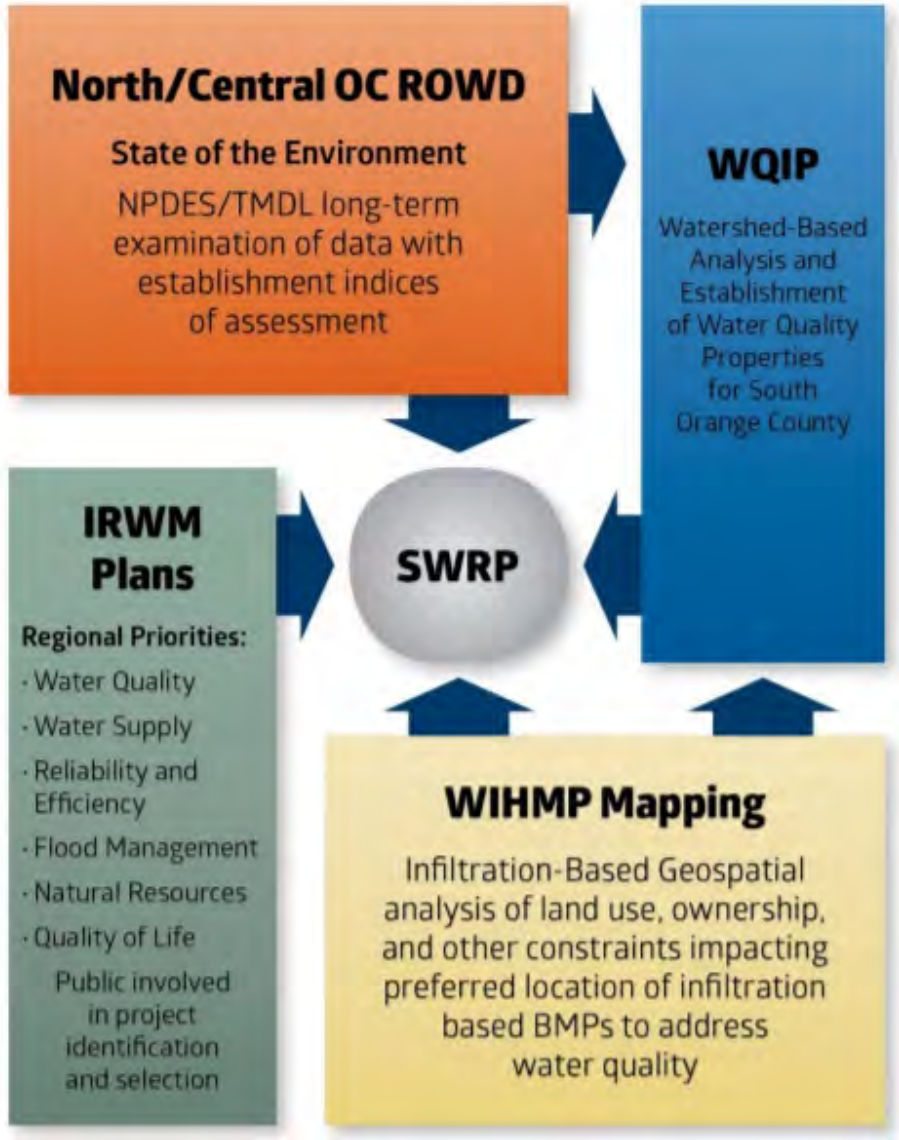
Overview of the OC SWRP

- The Orange County Stormwater Resource Plan (OC SWRP) is a functionally equivalent document prepared by OC Public Works, OC Environmental Resources Division per the requirements of Water Code SB 985.
- The plan comprises several existing planning efforts for Orange County and is used for prioritization of stormwater capture projects seeking funding through Proposition 1.
- Originally submitted for inclusion to North/South Orange County IRWM Plans and SAWPA OWOW in 2017, the OC SWRP was recently updated and resubmitted on May 3rd.

Document Structure

- **Four primary functionally equivalent documents comprise the OC SWRP:**
  - Report of Waste Discharge (ROWD) – Water quality permit compliance document
  - Water Quality Improvement Plan (WQIP) – Water quality permit compliance watershed
  - Integrated Regional Watershed Management Plans (IRWM Plans) – Local plans specific to Orange County projects and planning
  - Watershed Infiltration & Hydromodification Management Plan (WIHMP) mapping – infiltration opportunity mapping

Updated since original submittal



OC SWRP Management Objectives

OC SWRP Management Objectives	Project Objective
Improve Water Quality	• Address NPDES and TMDL constituents of concern through non-point source control • Increase infiltration and/or treatment of runoff to address WQIP priorities - indicator bacteria and/or nutrients • Decrease or eliminate dry weather flows to reduce conveyance of pollutants to receiving waters and bacterial regrowth
Increase Water Supply Reliability & Efficiency	• Address unnatural water balance from urbanization through water conservation • Creation of new water supply through beneficial use of stormwater • Enhancing local water supply reliability through groundwater recharge
Improve Flood Management	• Address channel erosion and geomorphic impacts from flood events • Decrease flood risk by reducing peak flow(i.e. control system flashiness)
Protect and Enhance Natural Resources & Community Benefits	• Habitat protection or enhancement • Erosion control to re-establish riparian habitat • Sediment and flow control to return to a more natural condition • Public education and outreach • Provision of new or enhancement of existing urban recreation use areas

Project Prioritization & Website Clearinghouse

- OC SWRP prioritization process is similar to local IRWM Plans:
  - Open solicitation
  - Project proponents submit project information
  - Projects prioritized based upon multiple benefits provided
- Webpage created for OC SWRP
  - www.northocirwm.org/pages/stormwater; www.southocirwm.org/pages/stormwater } **New websites**
  - Document information and access
  - Link to library of functionally equivalent documents and mapping
  - Project submittal form

➢ Migration of the project list from within the OC SWRP itself to an appendix , with a living version always available

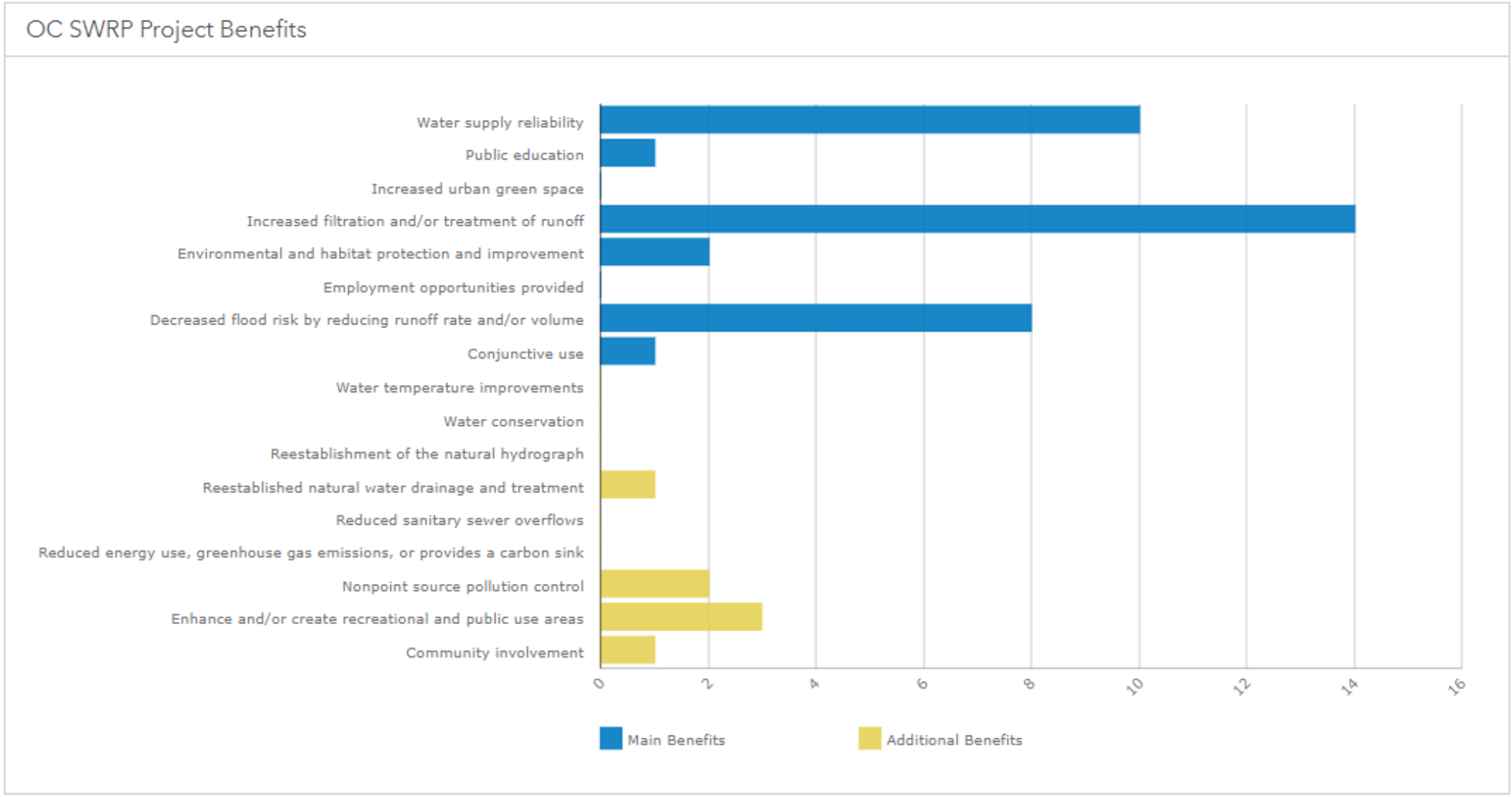
➢ Integration of project submittal process with online IRWM submittal tool

Current Project List*

Project Name	Prioritization Score	Project Cost ($)	Expected Completion Date	Value	Units for Primary Benefit	Secondary Benefit	Value	Units for Secondary Benefit	Other Benefit	Value	Units for Other Benefit	Use of Public Lands
South Orange County Irrigation Water Use Efficiency Program (SOCWUE)	220	$1,666,018.56	Dec-24	598	acre-feet per year (afy)	Increased filtration and/or treatment of runoff	500	Acres Treated	Environmental habitat protection and improvement	7	acres	Yes
Pacific Marine Mammal Center (PMMC): Water Treatment/Recycling System	175	$4,218,000.00	September 2022	15	AFY	Reduction on GHG Emissions and GHG Sequestration	38,200	pounds of carbon per year				Yes
FRESH Water Management Project	210	$20,000,000.00	4/2021	7420	acre-feet per year (afy)	Increased filtration and/or treatment of runoff	1000	acre-feet per year (afy)	Environmental habitat protection and improvement	3	acres	Yes
Chantilly Storm Drain Diversion to Burris Basin WIPS Project	195	$1,500,000.00	5-10 years	645	acre-feet per year (afy)	Increased filtration and/or treatment of runoff	645	acre-feet per year (afy)	Decreased flood risk by reducing runoff rate and/or volume	67	acre-feet (af)	Yes
North/Central Orange County Irrigation Efficiency, Runoff Reduction, and Pollution Prevention Program	165	$1,826,745.00	Dec-24	1276	acre-feet per year (afy)	Increase infiltration and/or treatment of runoff	23.53	Acres Treated	Environmental habitat protection and improvement	21.8	Acres	Yes
East Garden Grove-Wintersburg Channel (C05), Warner to Goldenwest	110	$70,000,000.00	06/2021	Acre-ft of floodplain removed	TBD	Decreased flood risk by reducing runoff rate and/or volume	5,280 flood insurance poicies	number of people	Enhance and/or create recreational and public use areas	5000	linear feet	Yes
Huntington Beach Channel (D01) and Talbert Channel (D02) Rehabilitation Project	110	$21,583,250.00	01/2021	TBD	acre-feet (af)	Environmental habitat protection and improvement	TBD	acre-feet (af)				Yes
Old Town Green Alleys Project	65	$2,800,000.00	12/2023	2.37	acre-feet (af)	Water supply reliability	2.37	acre-feet (af)				Yes
Upper San Juan Creek Stormwater Capture, Infiltration and Potable Reuse Project	370	$15,000,000.00	12/2022	200	acre-feet per year (afy)	Water supply reliability	880	acre-feet per year (afy)	Decreased flood risk by reducing runoff rate and/or volume	680	acre-feet per year (afy)	Yes
Santa Isabel Channel Water Quality and Restoration Project	215	$1,500,000.00	04/2022	0.13 mgd	million gallons per day (mgd)	Environmental habitat protection and improvement	2.0 acres	acres	Reestablished natural water drainage and treatment	700 lineal feet	linear feet	Yes
Bluebird Canyon Water Quality Outfall and Diversion Upgrade Project	320	$1,000,000.00	Jan-21	13	acre-feet per year (AFY)	Increased filtration and/or treatment of runoff	10% wet season dry weather geomean reduced	% reduction of bacteria	Environmental and habitat protection and improvement	115 lbs/year nitrogen	lbs/year pollutants reduced	Yes

** Only 1st page of the list is displayed*

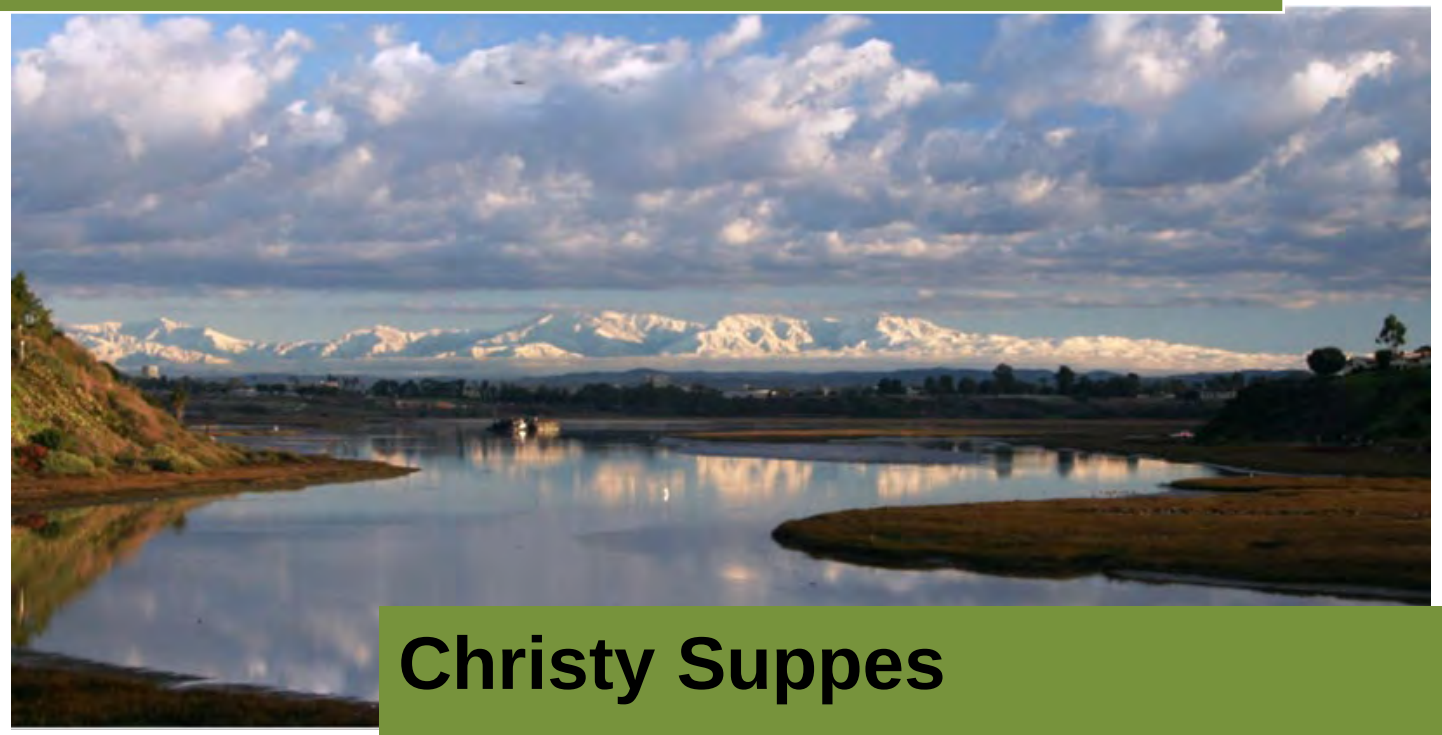
OC SWRP Project Benefits



Project Funding to Date

- Proposition 1 Storm Water Grant Program
  - Round 1: $8,505,669 – City of Anaheim (3 projects)
    - Ball Road Storm Water Improvements
    - Modjeska Park Underground Stormwater Detention and Infiltration System
    - La Palma & Richfield Storm Drain Extension and Storm Water Infiltration Project
  - Round 2: $5,967,691 – Santa Margarita Water District (1 project)
    - Upper San Juan Creek Storm Water Capture, Infiltration, and Potable Reuse Project

QUESTIONS?



Christy Suppes

christy.suppes@ocpw.ocgov.com

(714) 955-0673

Disadvantaged Communities Involvement Program

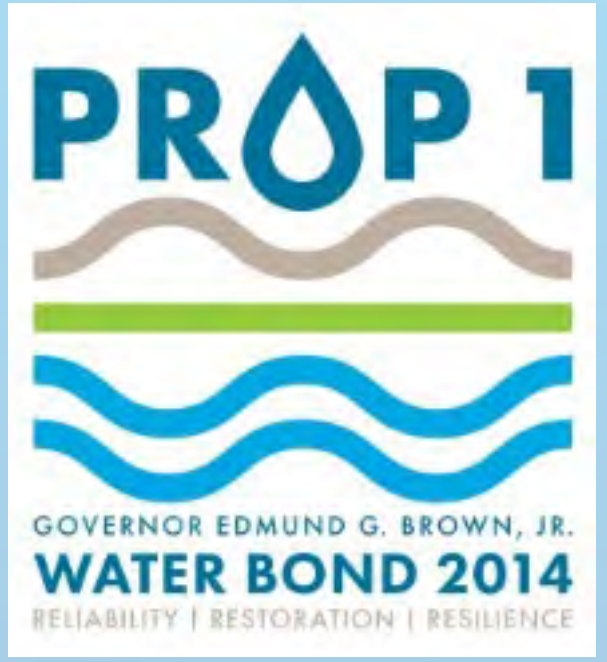
Technical Assistance project Presentations

Rick Whetsel, Senior Watershed Manager
OWOW Steering Committee | May 27, 2021
Item No. 4.C.

Disadvantaged Communities Involvement Program (DCI) Program

DWR established the Disadvantaged Communities Involvement Grant Program to support the following objectives:

1) Work collaboratively to involve DACs, community-based organizations, and stakeholders in IRWM Planning efforts
2) Increase the understanding, and identify the water management needs of disadvantaged communities
3) Develop strategies and long-term solutions that appropriately address the identified DAC water management needs
4) Support technical assistance for planning of future construction projects including feasibility, design, CEQA, etc. - Not construction at this stage.



Technical Assistance for Community Need

- Objective: Technical Assistance (TA) funding to support the development of projects and programs that address the water needs of disadvantaged and underrepresented communities.
- Requires evaluation of projects, plans, and programs following set of evaluation criteria developed by DCI Technical Advisory Committee (TAC)
- Allocated Funding $2.9 M

Representative:	Project Proponent:	Project Title:
John Ward	Eastern Municipal WD	Quail Valley Sub-Area 4 Septic to Sewer, Phase 1 Planning Analysis
David Lawrence Reggie Lamson	Big Bear Area Regional Wastewater Agency	Replenish Big Bear
Tom Crowley Maria Elena Kennedy	City of Rialto CSUSB	Bohnert/Banyon Septic to Sewer Project
Tiffany Foo	City of Fullerton	Fullerton's Water Future - Ensuring Delivery of Clean, Safe Drinking Water
Cesar Barrerra	City of Santa Ana	Washington Avenue Well Project
Nathan Thomas	Box Springs MWC	Rehabilitation, Removal or Replacement of Water Storage Reservoirs with SCADA
	City of Colton	Two New Potable Wells with Generators
	Devore WC	New Reservoir, Distribution System Upgrades and New Well
	Idyllwild WD	Water Treatment Plant Upgrade with SCADA
	Marygold MWC	New Well and Generator Project
	Terrace MWC	New Potable Well
Kira Erquiaga	Orange County WD	Watershed Education and Field Trip Program for Disadvantaged Community Elementary School Students
Rick Whetsel	Soboba Band of Luiseno Indians	Residential Asbestos Cement Pipe Abandonment and Replacement Project
Rick Whetsel	Huerta del Valle	Reconnecting and Enhancing Water Resources for greater community and environmental benefit.

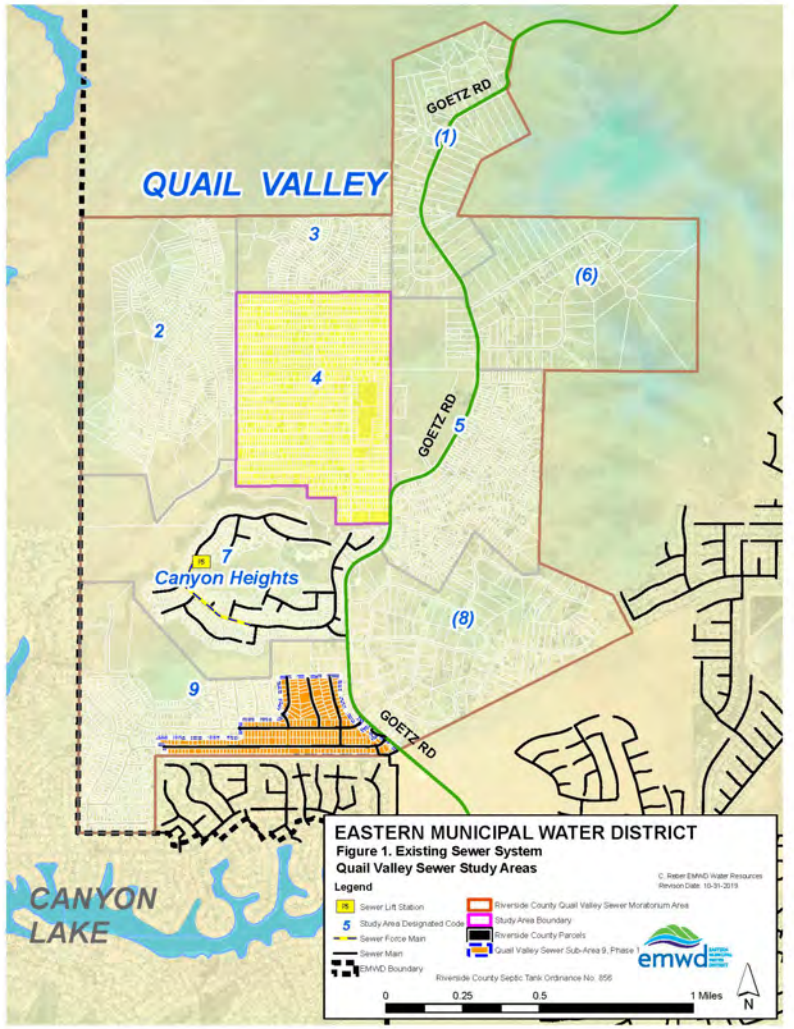
Quail Valley Sub-Area 4 Septic to Sewer, Phase 1 Planning Analysis

John Ward

May 27, 2021

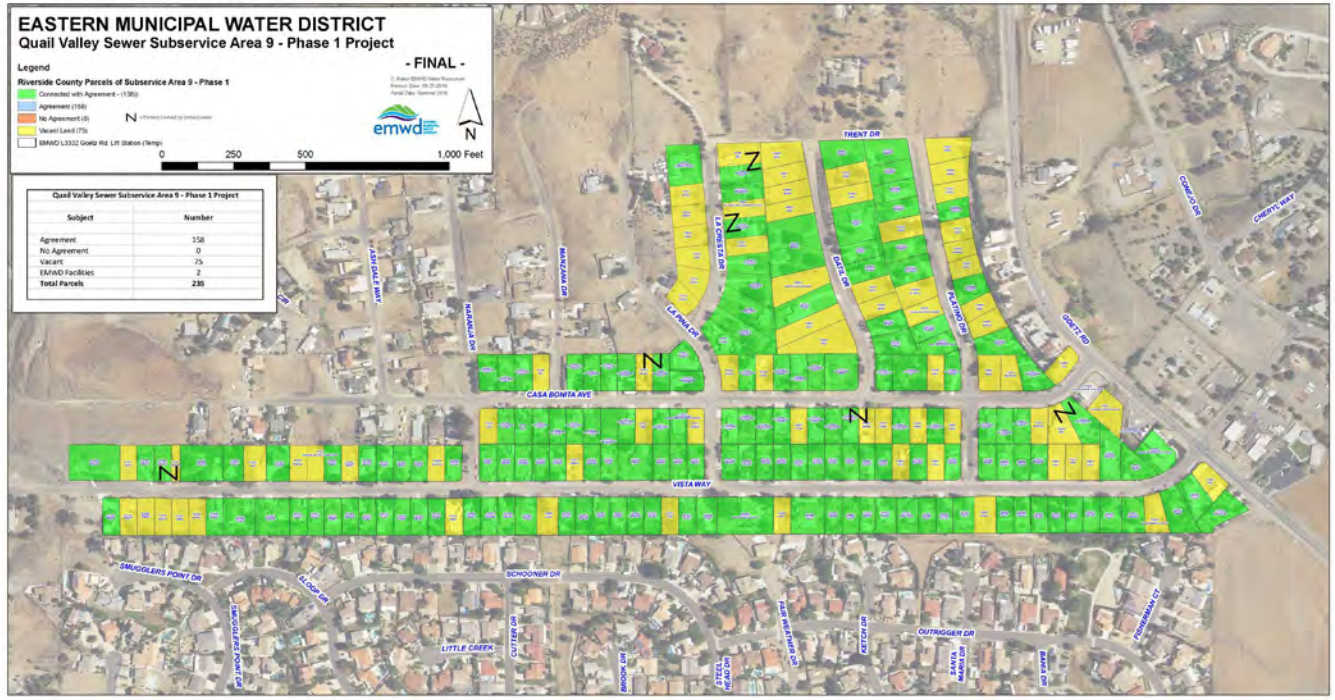
Quail Valley History

- Excluding Canyon Heights (Area 7):
  - Approximately 3,600 parcels
  - Population about 4,400
  - Approximately 1,400 home on septic tanks
  - Sub-Areas 4 and 9 cited as Regional Board Priority
- MHI for Quail Valley is $31,650 (2012, RCAC Survey)



Progress to Date for Sub-Area 9 Phase 1

- Construction completed on-time and under budget
- 100% Participation
- Total:
  - 158 Connected homes and abandon septic systems
  - 75 laterals to vacant land

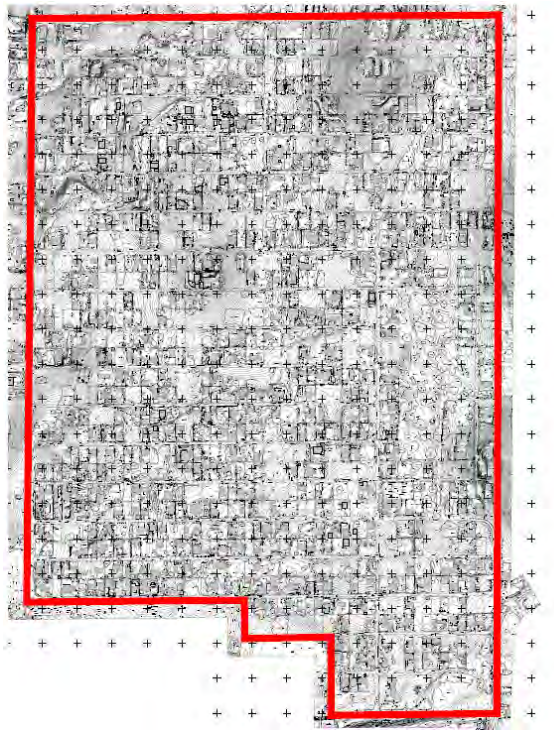


Problem

- Design and Constructability
  - Highly Dense Lots
  - Narrow One-Way Streets
  - Topography
  - Soil Conditions
- Securing External Funding

Project

- Defining the overall project and the scope of study
- Base surveying and mapping
- Geotechnical investigations
- Partial set (20%) of plan and profile drawings



Next Steps

- Continued coordinated financial investment in Quail Valley with the Quail Valley Septic to Sewer Funding Advocacy Task Force

Sub-Area 4, Phase 1	
Prop 1 IRWMP DCI Technical Assistance Grant (SAWPA)	$200,000
*SWRCB Clean Water Small Community Planning Loan**	$500,000
Total Secured To-Date	**$700,000**

Potential Funding Opportunities for Sub-Area 4	**Under Review**
FY 2022 Community Project Funding Request to Representative Calvert	$2,500,000
SWRCB Small Community Wastewater Grant (Construction)	$7,500,000
Sewer Overflow and Stormwater Reuse Municipal Grants Program	?

Sub-Area 4, Phase 1 Infrastructure and Onsite Costs Estimated At $34,800,000

* Principal Forgiveness Component: $500,000

Contact Information

Nick Kanetis
Deputy General Manager
Email: kanetisn@emwd.org

John Ward
Director of Engineering Services
Email: wardj@emwd.org

Nicolette Jonkhoff
Grants and Loans Program Analyst
Email: jonkhofn@emwd.org

REPLENISH
Big Bear

May 27, 2021
OWOW Steering
Committee Meeting

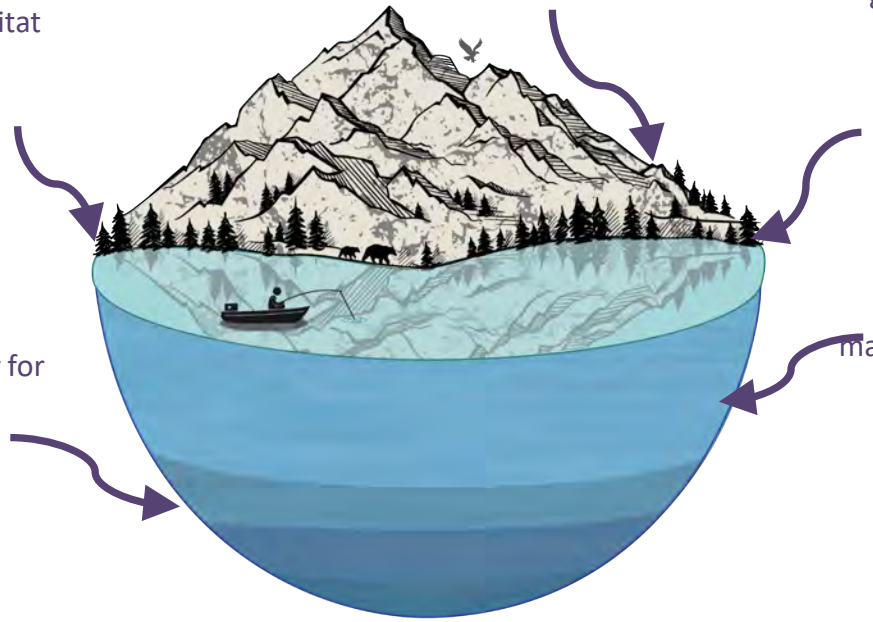
Problem: *The local water cycle is broken. All of Big Bear Valley's wastewater is discharged outside of the watershed. Drought and low lake levels threaten the water supply, economy, and ecosystem.*

By keeping water in the watershed, Replenish Big Bear will:

3.
Enhance recreation to stimulate local economy

2.
Restore and protect sensitive habitat

4.
Provide more sustainable groundwater supplies



1.
Create a new water supply for the watershed

5.
Optimize water resource management strategies (flood and habitat releases)

DCI Technical Assistance grant funding provided critical support to advance the complex regulatory process

Key activities funded include:

- Efforts to coordinate, prepare, and attend meetings with the Santa Ana Regional Water Quality Control Board, US Environmental Protection Agency and the Division of Drinking Water
- Technical analyses needed to support the regulatory process

The grant funded the Lake Analysis, which provided key information needed to support permitting considerations

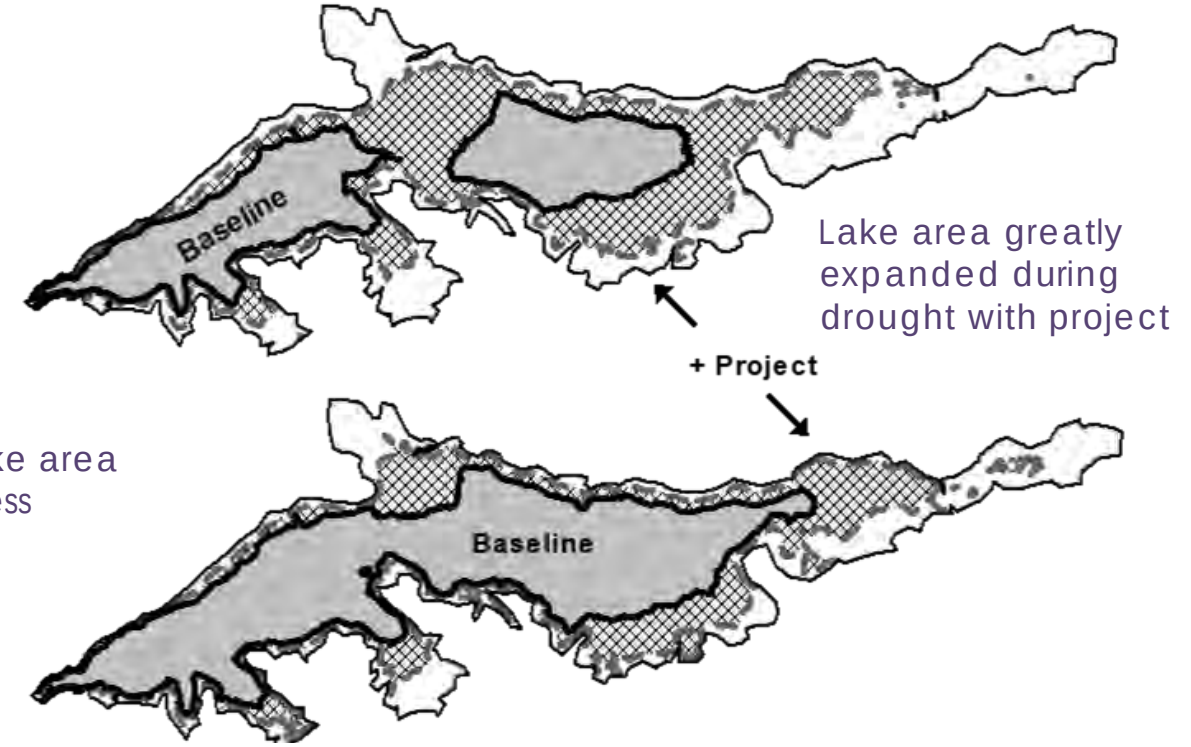
The Lake Analysis confirmed:

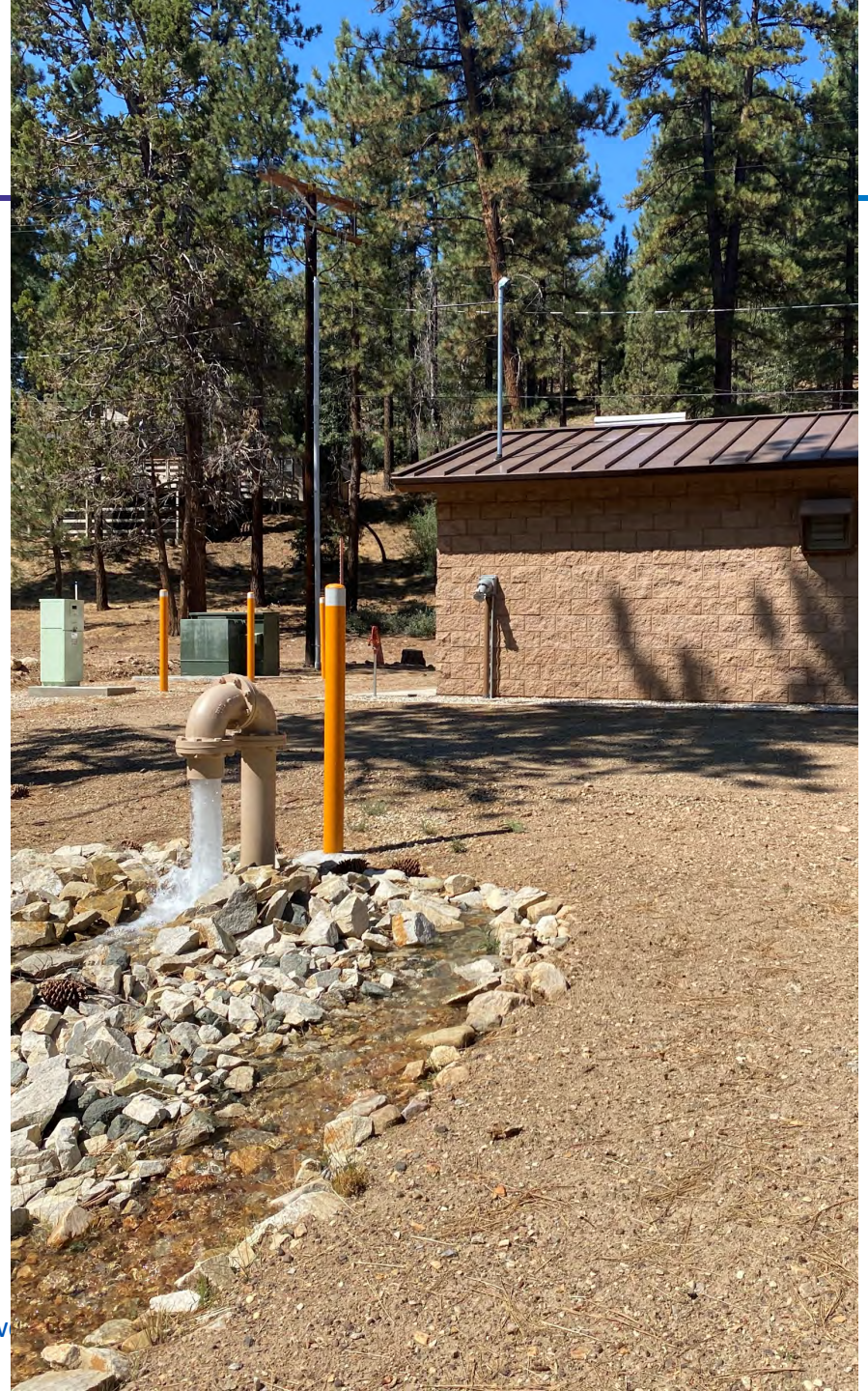
- Replenish Big Bear would significantly increase lake levels, volumes and surface areas, <u>especially in drought</u>
- Increased water provides recreational, ecological, aesthetic, and community related benefits
- High level of treatment is needed to protect and improve lake water quality

Lake Model Showed Major Benefits of Project During Extended Drought

a) Minimum lake area simulated without project flows

b) 25% of time lake area will be this or less





Next Steps

- The Project Team is evaluating potential funding mechanisms for the remaining capital costs as well as operations & maintenance costs to reduce impacts to the disadvantaged community
- Prepare NPDES discharge permit application based on feedback from the regulators
- Advance preliminary design and piloting

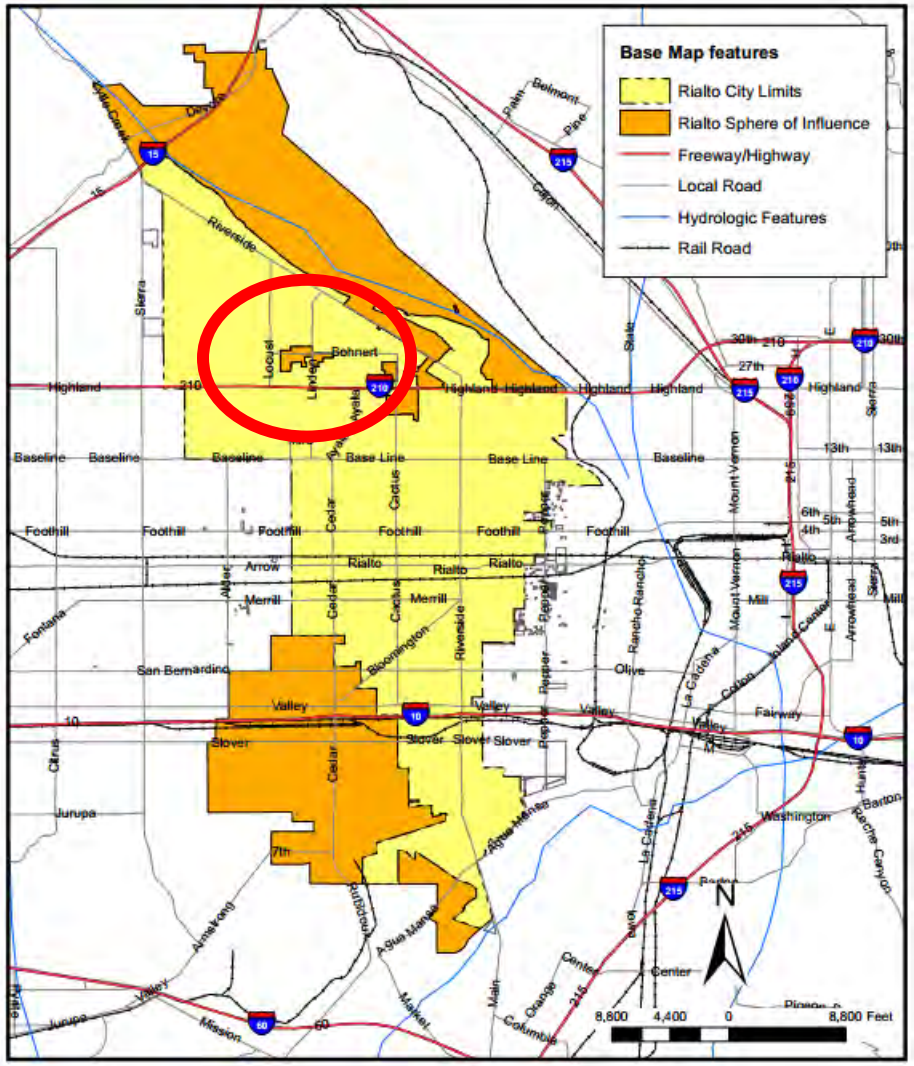

REPLENISH
Big Bear

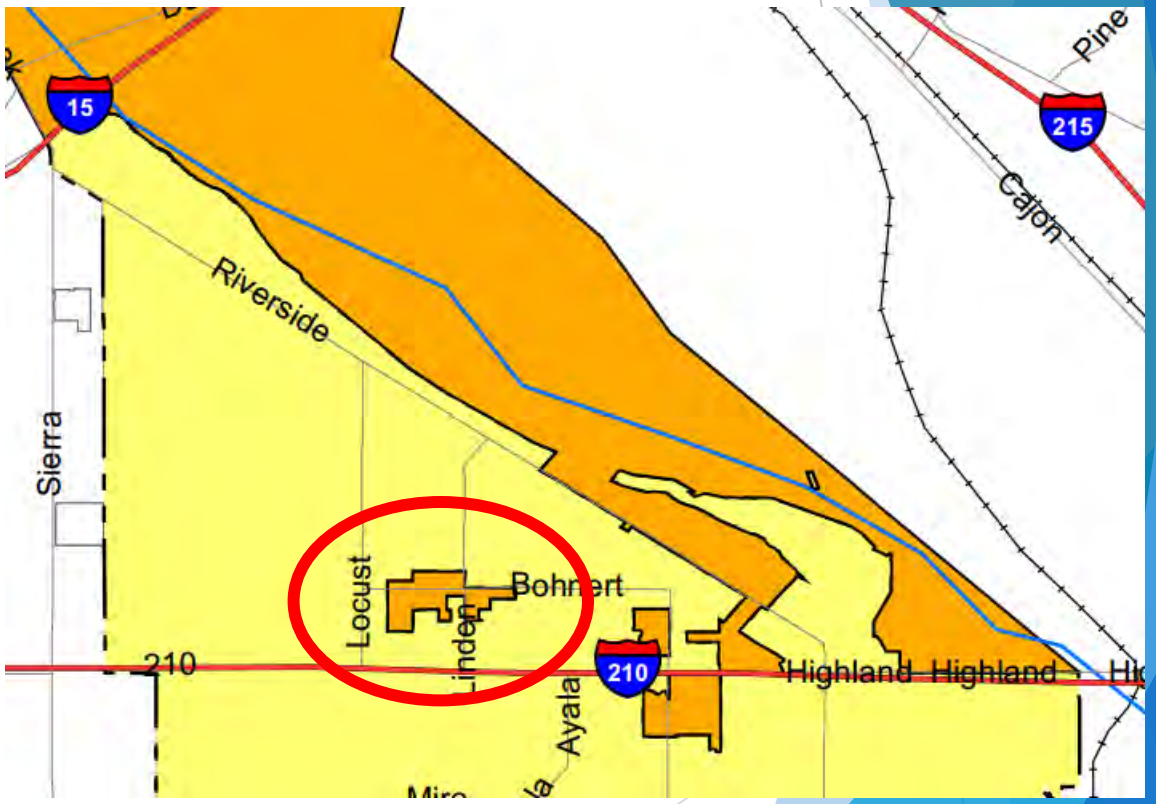
The Bohnert/Banyon Septic to Sewer Project

Improving Quality of Life and Water Quality in a Disadvantaged Community

City of Rialto
Kennedy Communications, Inc.

PROJECT LOCATION





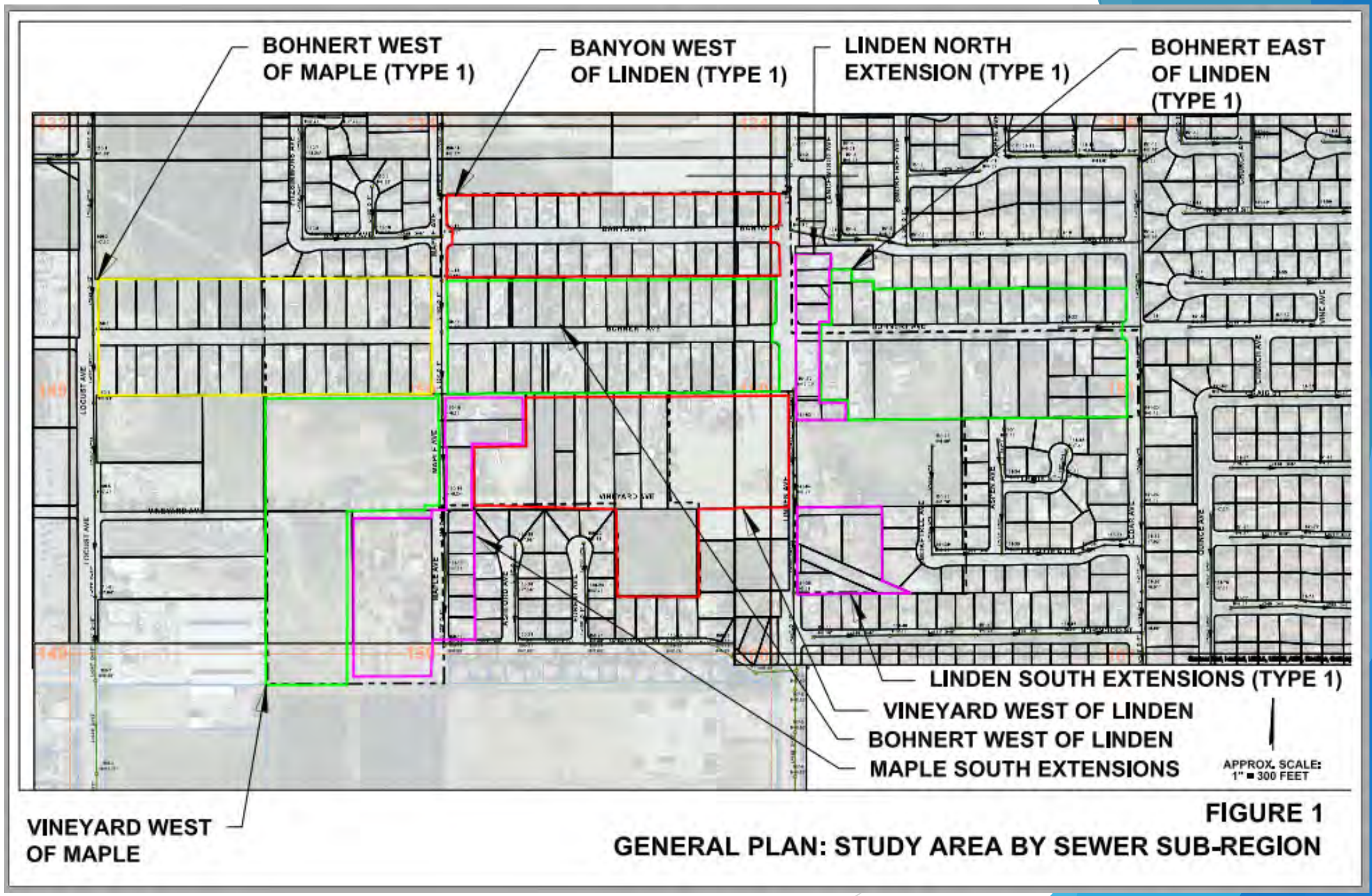


FIGURE 1

GENERAL PLAN: STUDY AREA BY SEWER SUB-REGION

EXTENSIVE OUTREACH HAS BEEN COMPLETED

- **Door to Door survey was conducted of the project area several times—in English and Spanish**
- **The residents want the project**
- **This is an environmental justice project which will improve water quality**
- **The area serves a Disadvantaged Community**

GRANT FUNDED

- Planning Studies have been completed
- The project is “shovel ready”
- Deliverables Completed and Submitted to SAWPA:

✓ Feasibility Study
✓ CEQA Initial Study
✓ Preliminary Design Engineering

NEXT STEPS

1. Acquire Funding for Final Design and Construction
2. Prepare Bid Documents
3. Put Project Out to Bid
4. Construct Project
5. Close Out Project
6. Conduct Community Outreach during Entire Project Duration

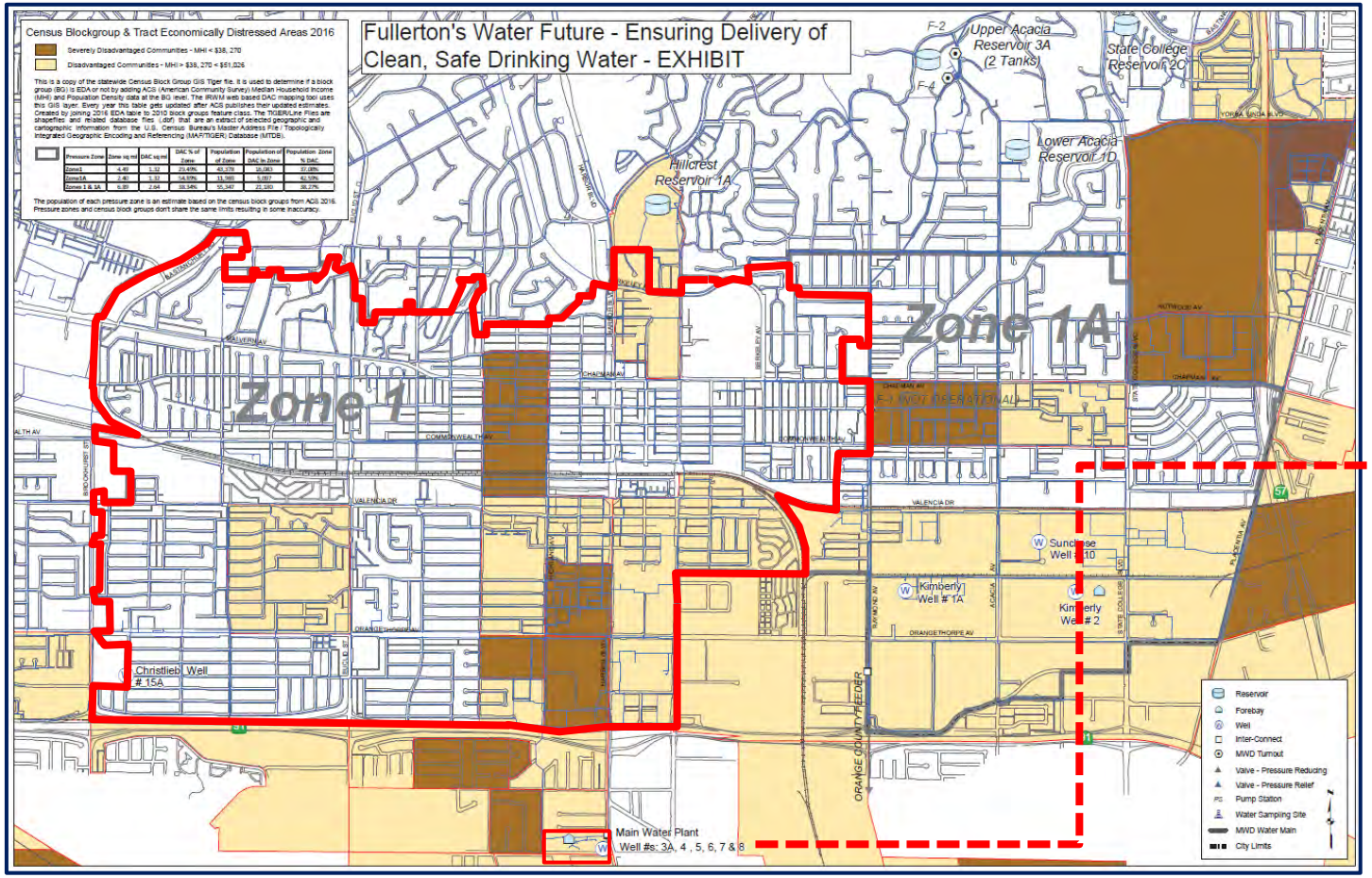
Fullerton's Water Future – Ensuring Delivery of Clean, Safe Drinking Water Project

Tiffany Foo, P.E.

Civil Engineer, City of Fullerton

May 27, 2021

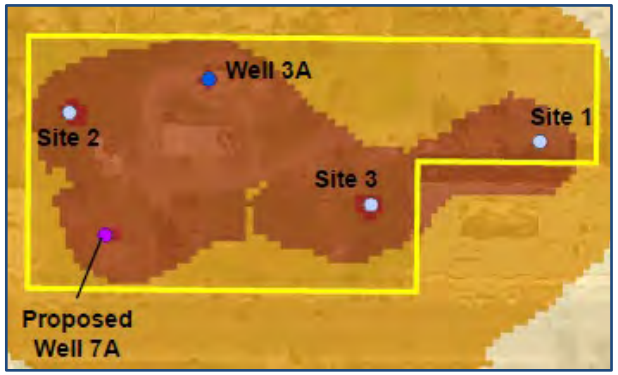
Project Site – Main Plant



City of Fullerton Main Plant
627 W La Palma Ave, Anaheim, CA

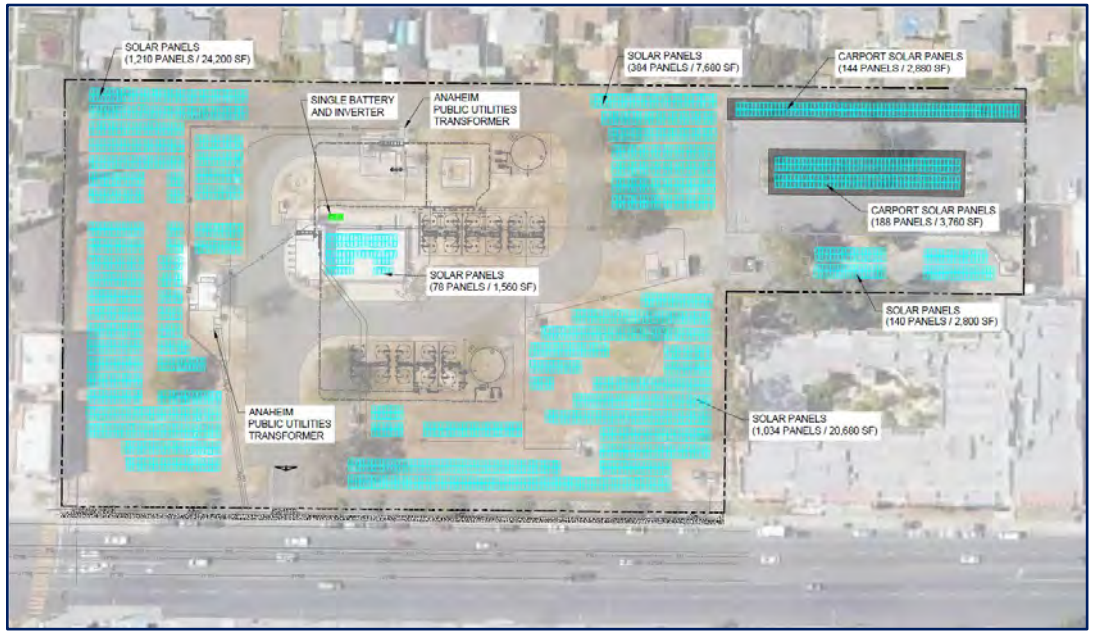
Main Plant Master Plan

- Condition Assessment
- Transmission Line Evaluation
- Hydraulic Analysis between Zone 1 and Zone 1A
- Well condition assessment, future well site projections, and well rehabilitation or replacement recommendations
- Renewable energy and energy savings opportunities



Major Findings

- Installing more expensive 304L SS casing was shown to be the most cost effective over a 30-year period.
- Solar panel installation could result in annual savings of $7,500 to $300,000
- Rate schedule adjustment with physical and control automation improvements could result in annual savings of $250,000



Next Steps

- Work with Anaheim Public Utilities and consultants to modify electrical and controls system
- Procure consulting services to develop a renewable energy design and implementation strategy
- Rehabilitate wells per recommended schedule to maximize output
- Upgrade facilities per condition assessment recommendations

Washington Well Project

CITY OF SANTA ANA

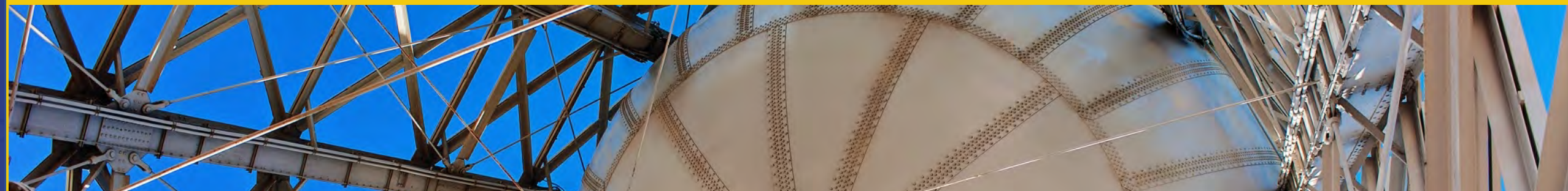
Public Works Agency Water Resources Division

The Problem

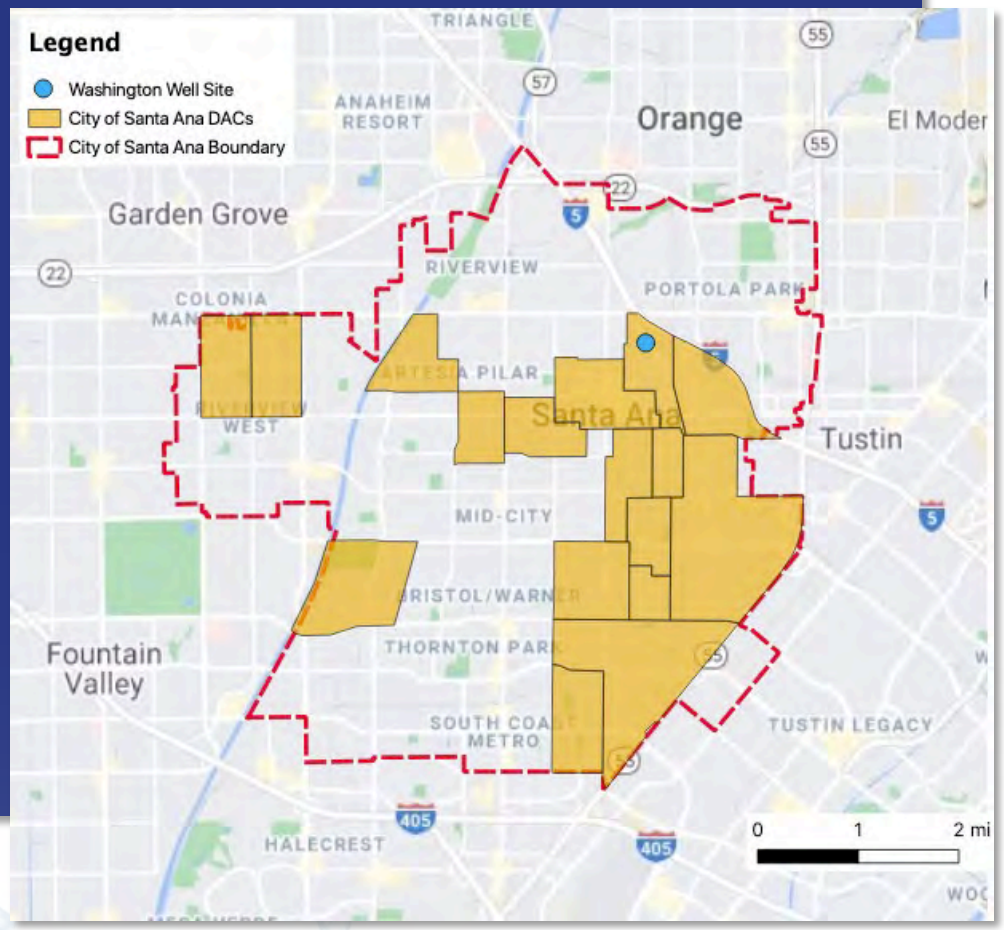
- The City of Santa Ana relies on two primary sources of water:
  1. **25%** comes from imported water from Metropolitan Water District (MWD)
  2. **75%** comes from groundwater from OC Basin
- The on-going drought has limited imported water supplies (SWP allocation set at 5% for 2021 Table A allocations)
- Unfortunately, this will cause severe impacts on disadvantaged communities (DACs)

Impacts on DACs

1. Approx. 33% of City's population live within DACs
2. Any increase in water rates has more severe economic impacts on DACs
3. Providing safe, clean, reliable, and **affordable** water is the City's ultimate goal



The Solution



The Washington Well Project will:

1. Be located within and primarily serve DAC
2. Have the capacity of 2,000-3,000 gpm (~4,000 AFY)
3. Increase groundwater supply (~28,000 AFY or ~85%) and the water pressure in that zone
4. Encourage community engagement
   - Community meetings during design phase
   - Continued community education at wells

The Solution

Cost Item	Total Cost
Washington Well Construction	$4,195,000
Contingency (30%)	$1,260,000
Bidding Climate Adjustment (25%)	$1,045,000
Total	**$6,500,000**

- **SAWPA funding utilized to fund initial necessary project documents**
  1. Preliminary Design (35% & 65%)
  2. Environmental Documents (IS/MND)
  3. Preliminary Cost Estimate
- **In total, the Washington Well Project will cost approximately $6,500,000**

Next Steps

1. Complete the design
2. Pursue additional grant funds for drilling and construction
3. Drill and develop well
4. Complete well equipment and site development plans
5. Complete well and site improvements (estimated March 2023)

The Vision

The Vision


Happy
Memorial
Day
Honoring All Who Served

Thank you for your continued support!

Questions?

Ph: (714) 647-3387 **Email:** cbarrera@santa-ana.org

Santa Ana Watershed Project Authority Disadvantaged Community Involvement (SAWPA DACI) Program

Presented by:

California Rural Water Association

Dustin Hardwick, Deputy Director

Nathan Thomas PE, Senior Engineer

SAWPA DACI Projects

- Marygold Mutual Water Company
- City of Colton
- Idyllwild Water District
- Box Springs Mutual Water Company
- Devore Water Company
- Terrace Mutual Water Company

Marygold Mutual Water Company

Bloomington, CA

Serves a suburban area including a hospital with 924 connections

- Facing regionally similar source pollutant challenges
- Many upgrades have been accomplished
- Some facility needs exist

Marygold Mutual Water Company

Selected Project

Upgrade secondary source capacity:

- Well 7 production does not meet design target (1,000 gpm)
- CCR requires secondary source capacity exceed MDD (1,500 gpm)
- Determine and resolve Well 7 production challenges

Marygold Mutual Water Company
Project Products

- Well 7 assessment
  - Water quality testing and biological assessment
  - Well video survey
  - Review original design and pump flow data
- Technical memorandum on pump replacement
- Preliminary engineering report
  - Well 7 upgrades, new pump
  - New SCADA for Booster Pump No. 4
  - Backup power for Well 7 and Booster Pump No. 4

Marygold MWC

Next Steps

Santa Ana Watershed Project Authority

SAWPA

- Funding for design of upgrades to Well 7 and the SCADA system
- SCE coordinate/permit power improvements
- 100% plans, bidding documents, and specifications
- Construction of the Project

CALIFORNIA RURAL WATER ASSOCIATION

Marygold Mutual Water Company

System Representative

Justin Brokaw

General Manager

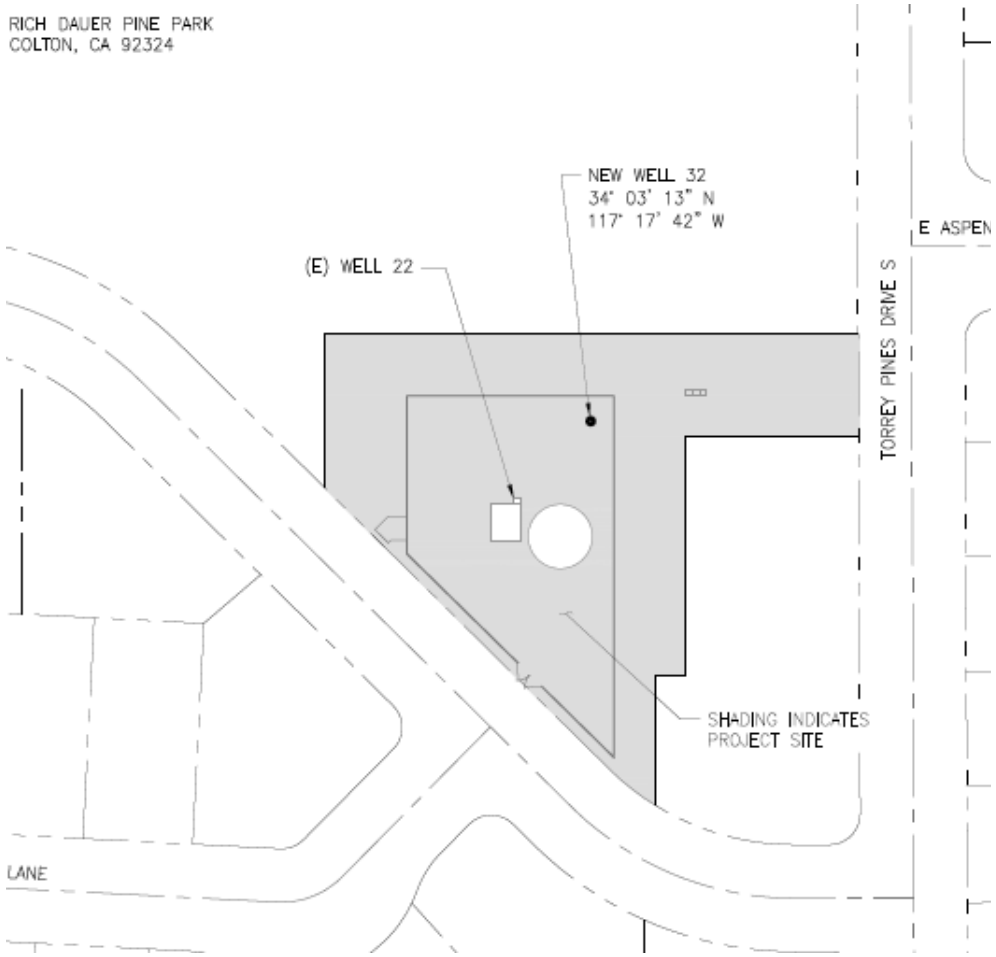
City of Colton

- Colton is a growing city with over 10,000 service connections
- Projected source capacity after planned well abandonment: 11.6 MGD
- System maximum day demand: 17.4 MGD

City of Colton
Selected Project

Colton needs replacement wells:

- Some wells have contaminants
- Some wells are facing a declining water table
- Nearby systems are requesting water from Colton



City of Colton

Project Products

Well 32:

- Hydrogeological study
- Preliminary engineering report and test well plan
- 100% plans, specifications, and bidding documents for Well 32
- Test well drilling support
- Funding for drilling test well and water quality sampling

City of Colton

Next Steps

- Colton will advertise and award the Well 32 Project
- Construction of Well 32
- Planning for additional wells needed by Colton

City of Colton

System Representative

Brian Dickinson

Public Works and

Utility Services Director

Idyllwild Water District

Idyllwild is a mountain community with many summer homes.

- IWD manages the local wastewater system with 587 connections.
- Gravity collection system (12 miles)
- 0.25 MGD treatment plant

Idyllwild Water District

Selected Project

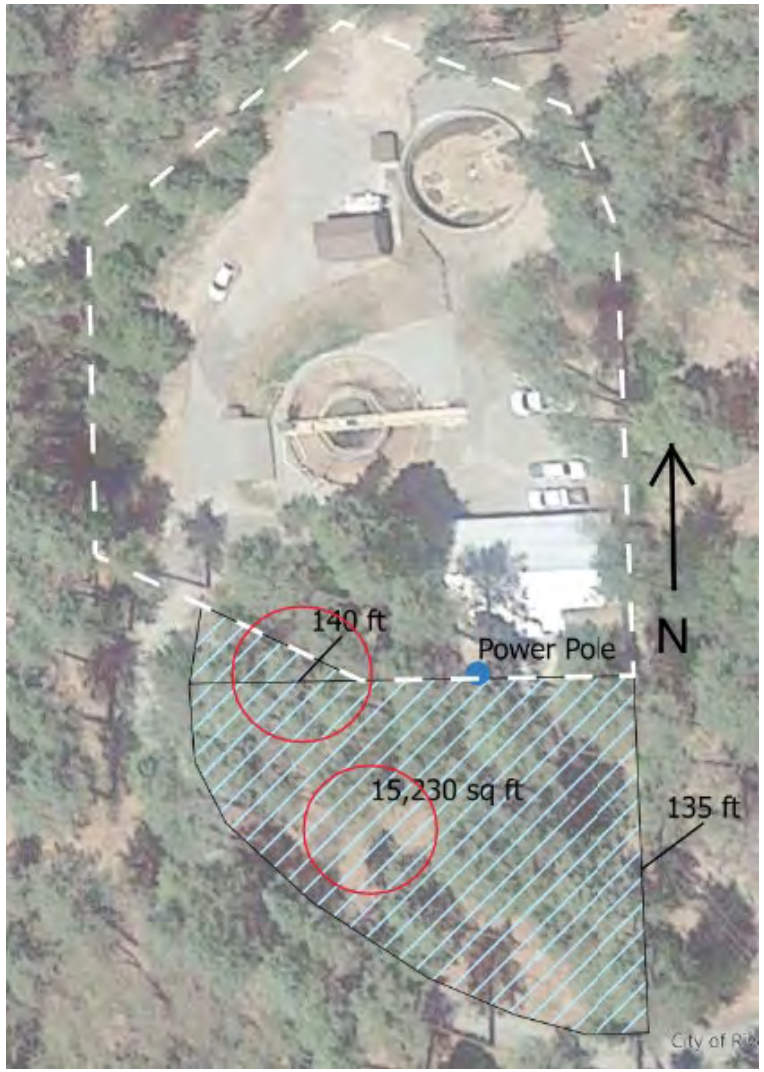
Preliminary design to replace/upgrad
WWTP secondary treatment and
expand equalization capacity:

- Built in 1958
- No treatment train redundancy
- Permit exceedances
- 24 hour maximum maintenance tim

Idyllwild Water District

Project Products

- Feasibility study
  - USBF System
  - Model R Oxigest
- CEQA strategy
- Preliminary engineering report
- Construction cost estimate



Idyllwild Water District

Next Steps

- Funding for WWTP design and construction
- Additional land acquisition
- 100% plans, bidding documents, and specifications
- CEQA documents and permitting
- Construction of the Project

Idyllwild Water District

System Representative

Leo Havener

General Manager

Box Springs Mutual Water Company
Moreno Valley, CA

- System is in a low income area with great need for capital improvements
- Service area growth limited by system constraints

Box Springs MWC

Highest Priority Needs

1. Perform a rate study
2. Install a new well
3. Replace the existing booster pump station
4. Install a new reservoir
5. Install backup power for the facility
6. Upsize the intertie with WMWD
7. Replace remaining undersized mains
8. Upgrade site security
9. Destroy Well 16
10. Inspect existing hydropneumatic tank

Box Springs MWC

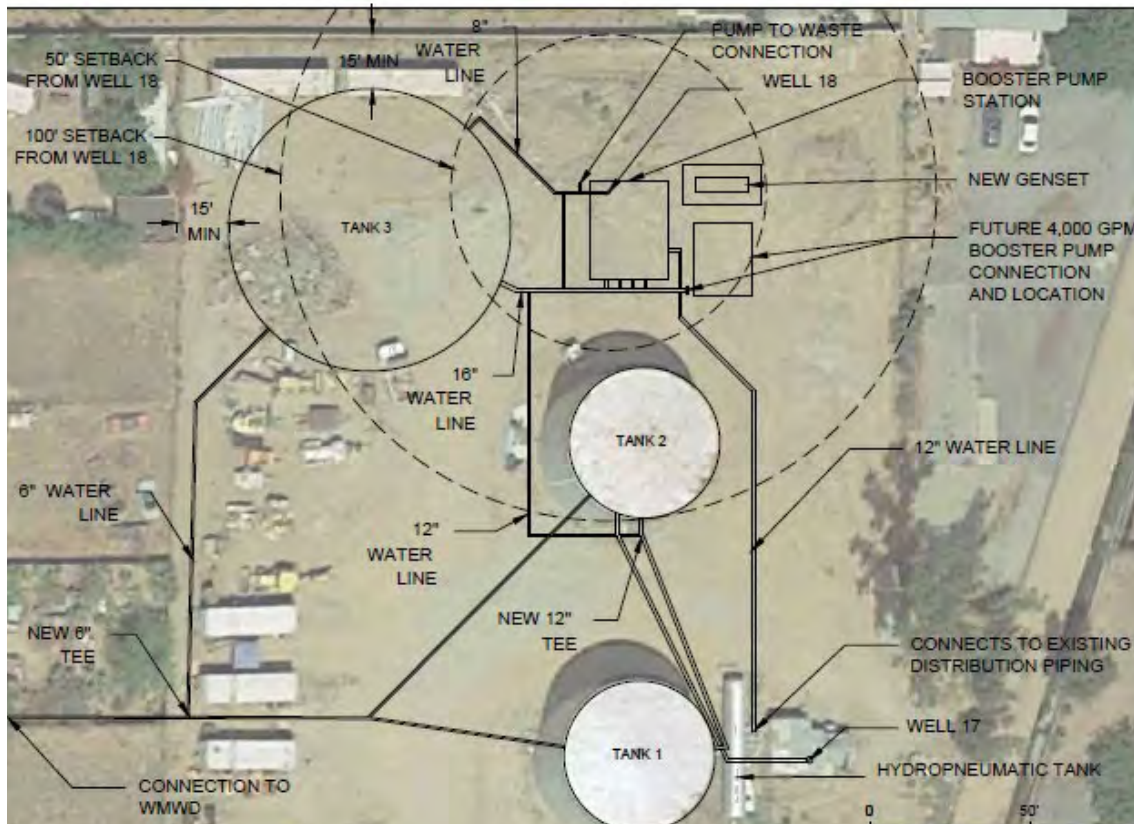
Selected Project

Urgent need for multiple system replacements at the main facility site resulted in a comprehensive project:

- New well, (1,000 gpm)
- Replace booster pump station (2,100 gpm)
- 1.5 MG reservoir
- Backup power generator
- New building

Box Springs MWC
Project Products

- Preliminary engineering report
- Survey site, title report
- Geotechnical report
- 90% plans, specifications



Box Springs MWC
Next Steps

Santa Ana Watershed Project Authority
SAWPA

- Complete rate study including connection fees
- Secure construction funding
- Permitting and CEQA
- 100% plans, specifications, and bidding documents

CALIFORNIA RURAL WATER ASSOCIATION

Box Springs MWC

System Representative

Melissa Martinez

Administrative Supervisor

Devore Water Company

San Bernardino, CA

Hillside community with many small sources and limited storage

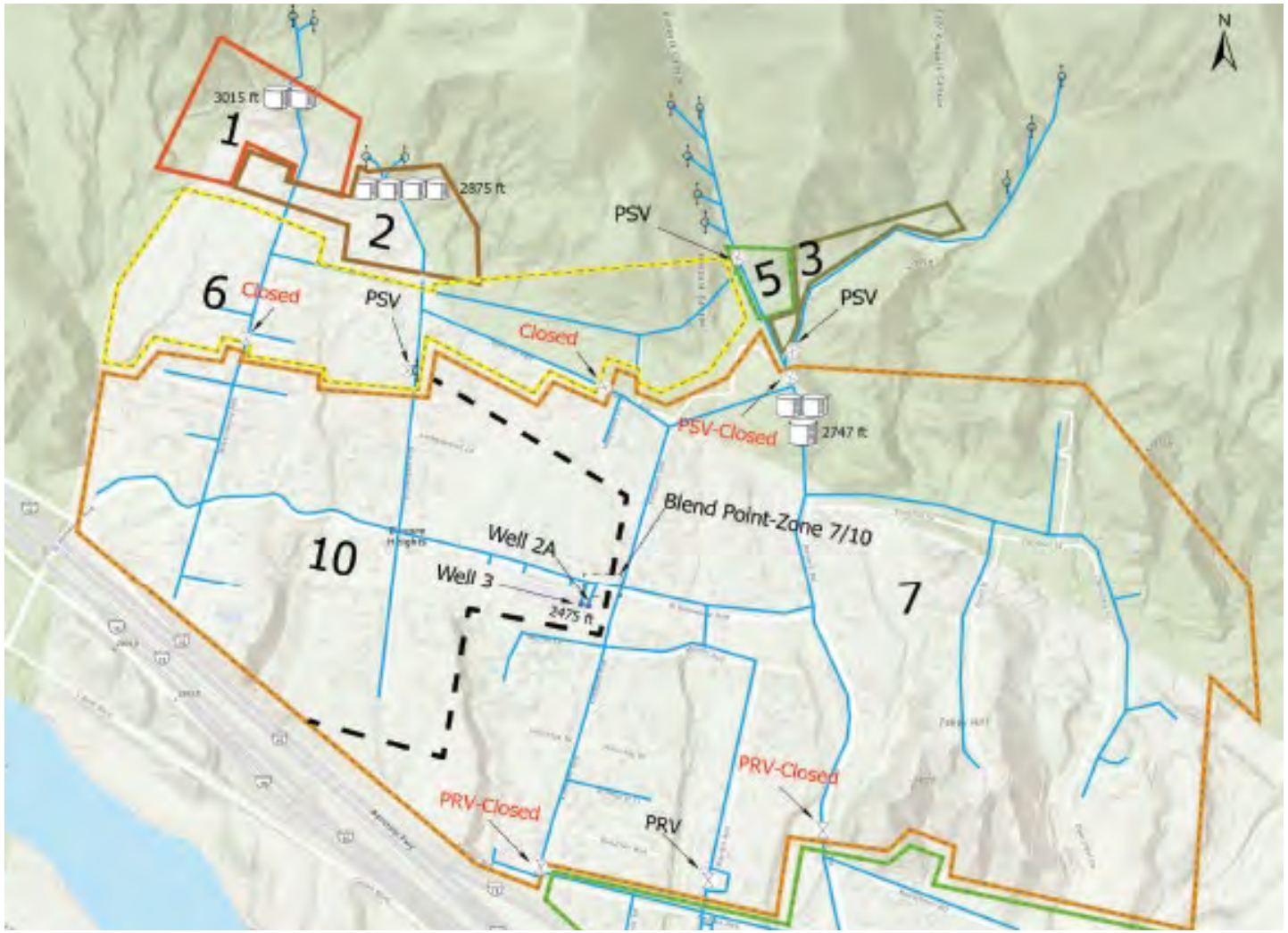
- 3 wells
- 12 springs/horizontal wells
- 1 booster pump station
- Summer demand and fire flow is challenging in high zones

Devore Water Company

Selected Project

Add a tank and booster pumps to provide peak hour demand and 500 gpm fire flow to upper pressures zones

Devore Water Company



Devore Water Company

Project Products

- Feasibility study
- Survey new tank site, elevation verification
- Geotechnical report on tank site
- Preliminary engineering report
- Distribution system model

Devore Water Company

Next Steps

- Funding for Project design
- 100% plans, bidding documents, and specifications
- Construction of the Project

Devore Water Company

System Representative

Mark Slobom

General Manager

Terrace Water Company

Colton, CA

Terrace Water Co.

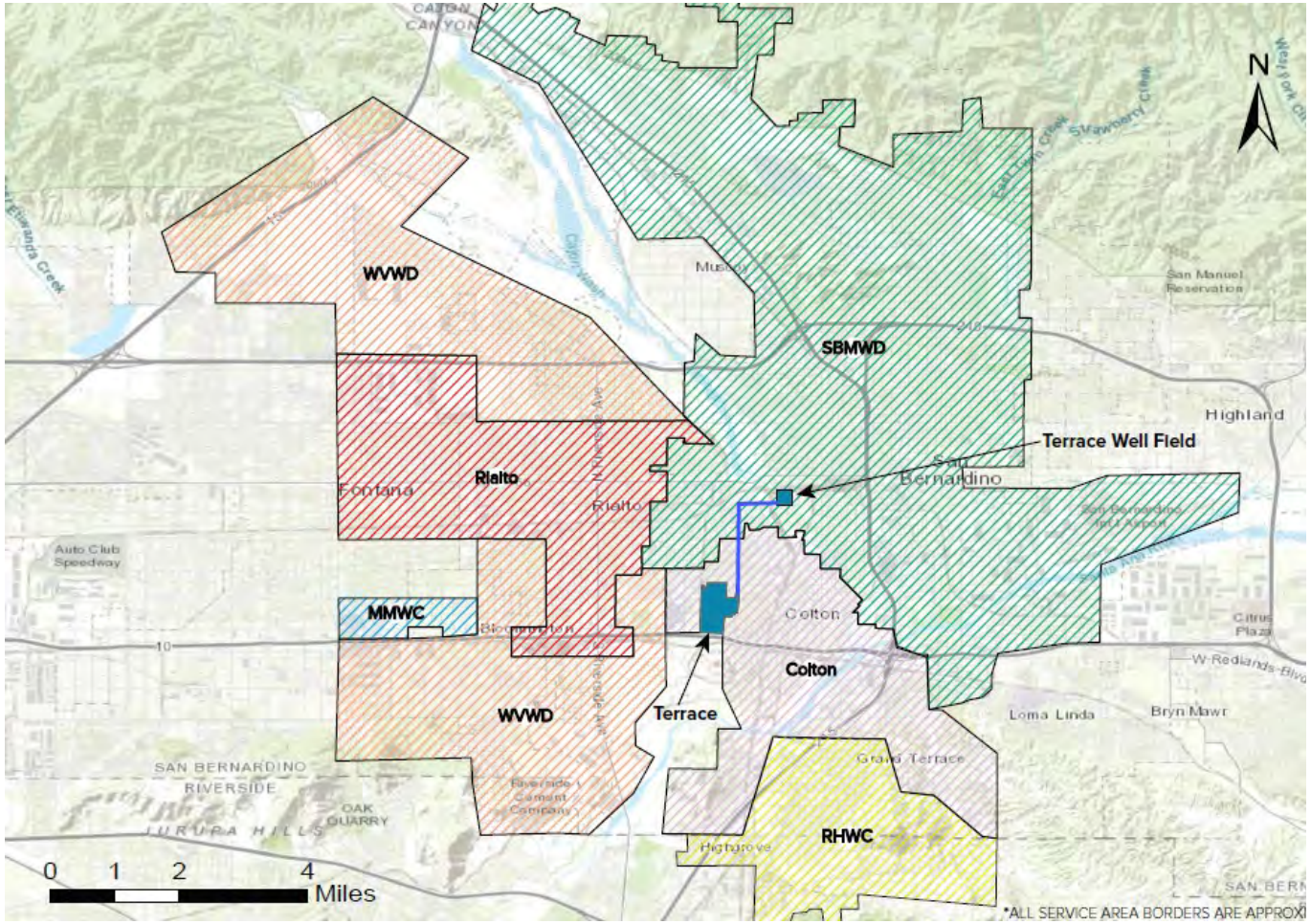
A legacy mutual facing serious capital project needs

- Both wells going dry due to drawdown in aquifer
- Two mile transmission main without redundancy in critical condition
- Lack of emergency water connections/agreements

CALIFORNIA RURAL WATER ASSOCIATION

SAWPA

Terrace Water Company

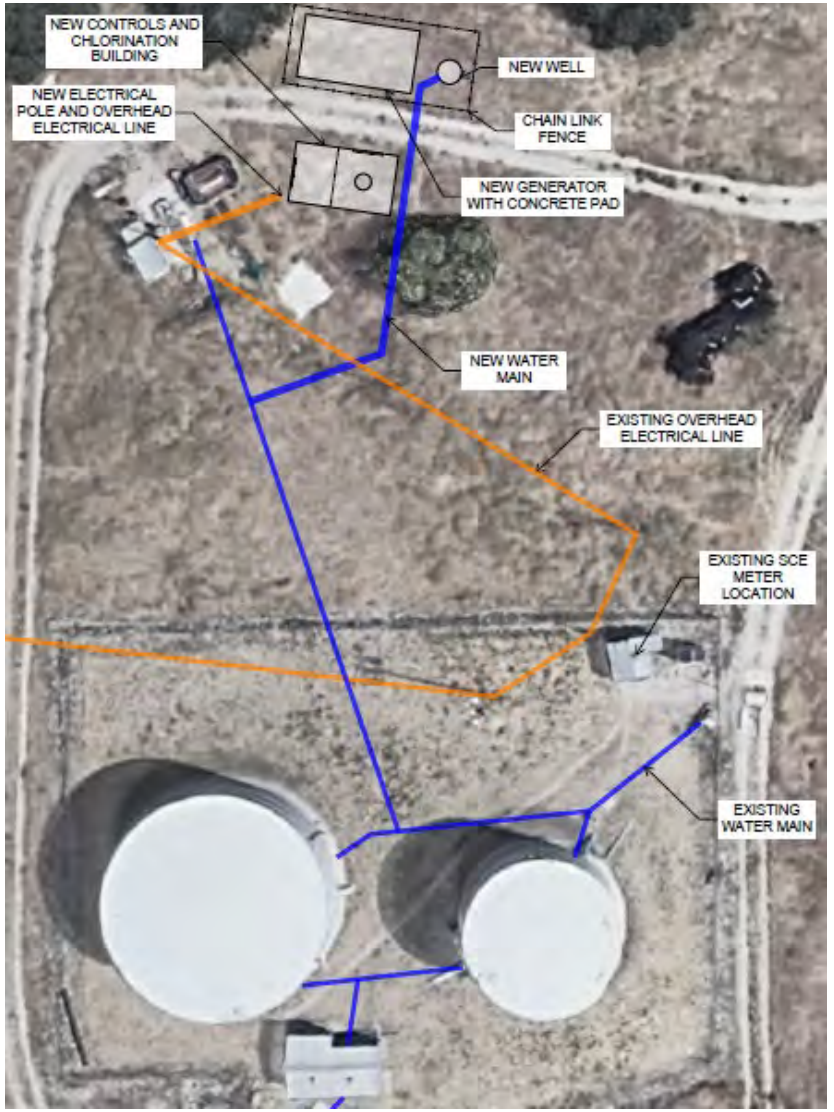


Terrace Water Company

Selected Project

New Well 3:

- 900 feet deep
- 1,000 gpm
- Control building
- Updated controls for both wells
- Backup power
- 50 to 75 year design life



Terrace Water Company

Project Products

- Consolidation feasibility study
- Hydrogeological study
- Preliminary engineering report and 50% plans
- Site survey, title report
- Well 3 - 100% plans, specifications, and bidding documents

Terrace Water Company

Next Steps

Santa Ana Watershed Project Authority

SAWPA

Terrace is currently exploring consolidation

- Funding needs may exist

If Well 3 proceeds:

- Secure construction funding
- Advertise and award the Project
- Test well and Well 3 Project construction

CALIFORNIA RURAL WATER ASSOCIATION

Questions?

Nathan Thomas, PE

Senior Engineer

California Rural Water Association
1234 N. Market Blvd.
Sacramento, CA 95834
www.calruralwater.org
P: 916-553-4900
F: 916-553-4904

Exploring OCWD's Prado Wetlands

Prado Basin Field Trips

- Original Program
  - In-Person Field Trips for Orange County 3rd Grade Students from DAC Schools
  - Budget of $100,000
    - Contracted With *Inside the Outdoors*
    - Curriculum Development
    - Pre & Post Activities in Spanish & English
    - Outreach/Identify DAC Schools
    - Staffing/Educators
    - Supplies
    - Buses
- Transition to Virtual Field Trips
  - Shift in Program Development
  - Naturalists in the Field to Present Program in Inter-active Virtual Format
  - Video for On-Demand Program

Total Students Served

3,691

Total Virtual Field Trip Sessions

131

Total Orange County Schools Served

42

Total Orange County School Districts Served

6

Teacher Feedback

I just participated in the 1st half of the Prado Wetlands Virtual FT w/ Marie and Michelle! So great!! I love that the kids are writing Observations / Interactions, and looking for criteria whether or not the habitat is suitable. So fun! I love that Michelle is at home doing the writing / etc., and Marie is actually out at the site! Awesome work everyone!

Helen de la Maza, Science Specialist at Culverdale ES, IUSD

I think you have done a great job of creating a distance learning experience that fosters curiosity, content instruction using a variety of tools (videos; written observations; pictures; live discussion).

Melanie Zeeman, Price ES, AESD

This virtual field trip was a fun and educational experience for my students and for me as well. After the virtual field trip, the students were excited to work on the post activities. Thank you very much for nurturing my students' curiosity.

Patricia Valencia, Olive Street ES. AESD

Moving Forward

- Most Popular Program for Inside the Outdoors
- Will Continue the Program for 2021/2022 School Year
  - Hybrid Version Allowing for Both Virtual and In-Person Presentations
- Minimize Costs by Decreasing the Number of Field Trips Offered While We Continue to Seek Future Funding
- 30 Minute On-Demand Video Will Allow Expanded Reach As a Stand Alone

Soboba Band of Luiseno Indians Residential Asbestos Cement Pipe Abandonment and Replacement Project

Rick Whetsel, Senior Watershed Manager

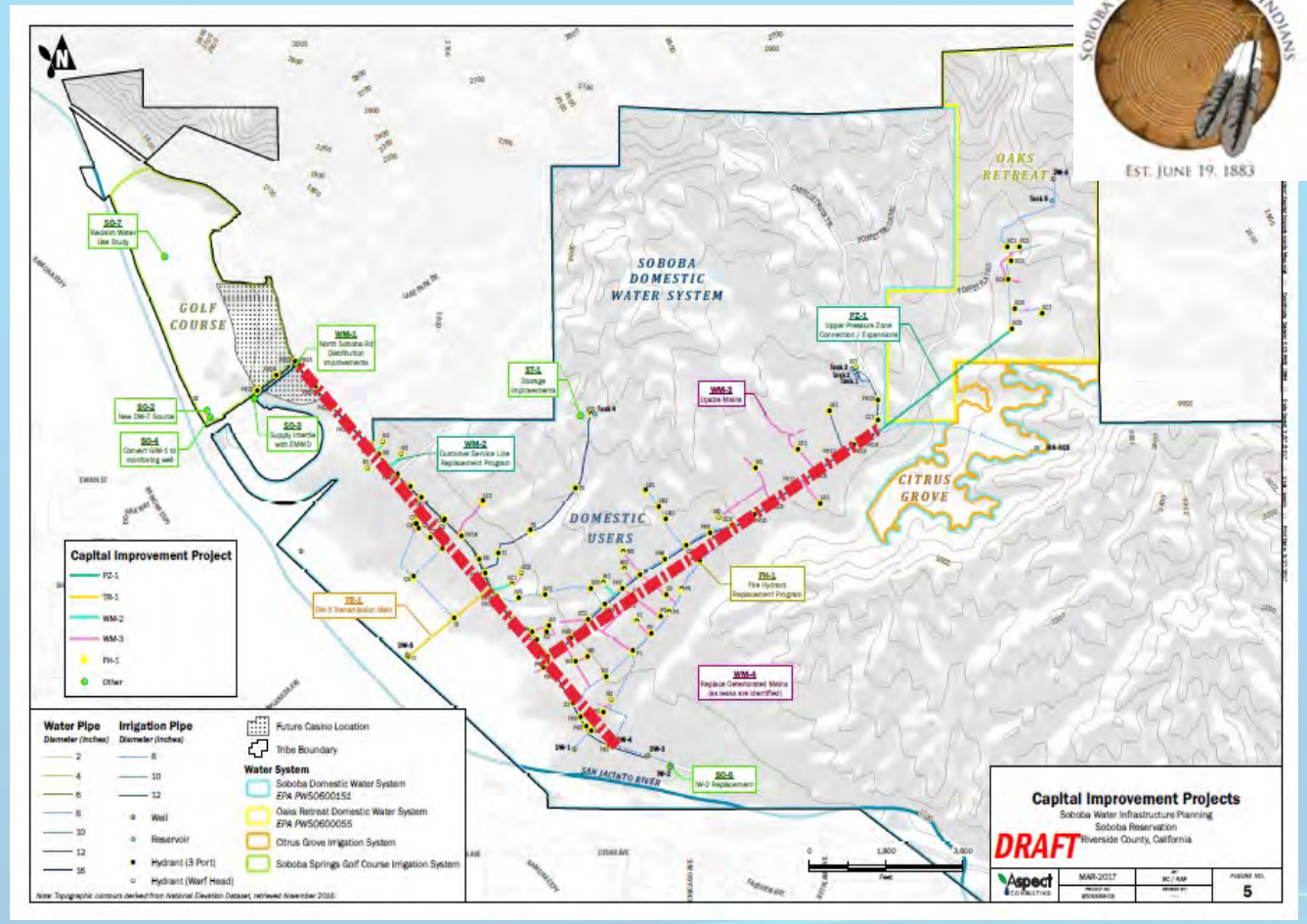
OWOW Steering Committee | May 27, 2021

Soboba Band of Luiseno Indians Residential Asbestos Cement Pipe Abandonment and Replacement Project

- Soboba Band of Luiseno Indians Residential Asbestos Cement Pipe Abandonment and Replacement Project
- Current water system asbestos cement (AC) pipelines was installed in the mid 1900's and have reached and exceeded their life cycle
- This project mitigates the potential health risks associated with AC water distribution systems if mainline breaks occur
  - Repairing (cutting) AC pipe may release Asbestos containing material

Scope of Work

- Project will include planning, outreach, environmental compliance, pre-construction engineering plans/design activities
- Funding will support the proposed project to abandon and replace approximately 15,000 linear feet of existing AC pipes in the domestic water distribution system



Findings:

- Completed final design plans, including the preparation of construction plans, specifications, cost estimates, design survey, and utility information for the proposed waterline improvements.
- Completed and filed Notice of Exemption/Categorical Exclusion posted by County of Riverside, 12/11/2020

Next Steps:

- Seek external sources of funding support to move forward with the implementation of the project
- Submit a proposal for the SAWPA Prop 1 Implementation grant.

Huerta del Valle Feasibility Study on Jurupa Ditch Reconnection and Well Digging

Rick Whetsel, Senior Watershed Manager
OWOW Steering Committee | May 27, 2021

Huerta del Valle Feasibility Study on Jurupa Ditch Reconnection and Well Digging: Project Overview

Objective:

- Provide sustainable agriculture, land revitalization, creek restoration, wildlife rehabilitation, and community enrichment and education at the Louis Rubidoux Nature Center property.
- Project Partners: SBVMWD, Riverside County Parks, Jurupa Ditch Company

ONE WATER ONE WATERSHED

SAWPA

Feasibility Study

Conduct feasibility study on the viability of various options to provide water to future community-based agriculture sites on Riverside County parkland.

- Determine the water demands for farming at both project sites, and to restore the 0.35-acre pond and augment annual flows into the Sunnyslope Creek at the LRP.
- Evaluate the currently available water supply.
- Evaluate the Jurupa Ditch, including feasibility to rehabilitate or replace the historic Jurupa Ditch structure and estimate the potential costs and constraints.
- Evaluate the potential to install groundwater wells at one or both project sites to meet water demands and estimate potential costs and constraints.
- Analyze the various methods that could be used to meet the water demands efficiently and practically, considering water quality related to the farming, pond, and creek restoration missions.

Findings:

- Monthly demands for planned farming at the Jensen-Alvarado Historic Ranch exceed the available supply during at least 4 months (possibly 7 months) out of the year.
- Monthly water demands for farming at the Louis Robidoux Parkland exceed the available supply for 3 months out of the year.
- Monthly water demands for combined farming at both project sites exceed the total estimated supply from the Jurupa Ditch every month of the year.
- Water demands for the option to restore and maintain the 0.35-acre pond at the LRP range from 0.7 to 2.0 AF/month.
- Augmentation of flows in Sunnyslope Creek for habitat restoration at the LRP using the existing water supply would be limited, at best.

Next Steps:

- Assess the physical condition of the ditch and identifying remediation options;
- Evaluate available groundwater supplies and identifying preliminary locations for new wells;
- Develop recommendations for the most efficient way(s) of meeting the water demands for both project sites.

ONE WATER ONE WATERSHED

SAWPA

Questions