



Santa Ana Watershed Project Authority

Capitol Update

September 2020

Michael Boccadoro
Beth Olhasso



West Coast Advisors
Strategic Public Affairs

Overview

- Water supply situation
- Delta Conveyance Update
- Water Resilience Portfolio
- 2020 Session Recap
- 2021 Looking Forward
- Strategies & Recommendations

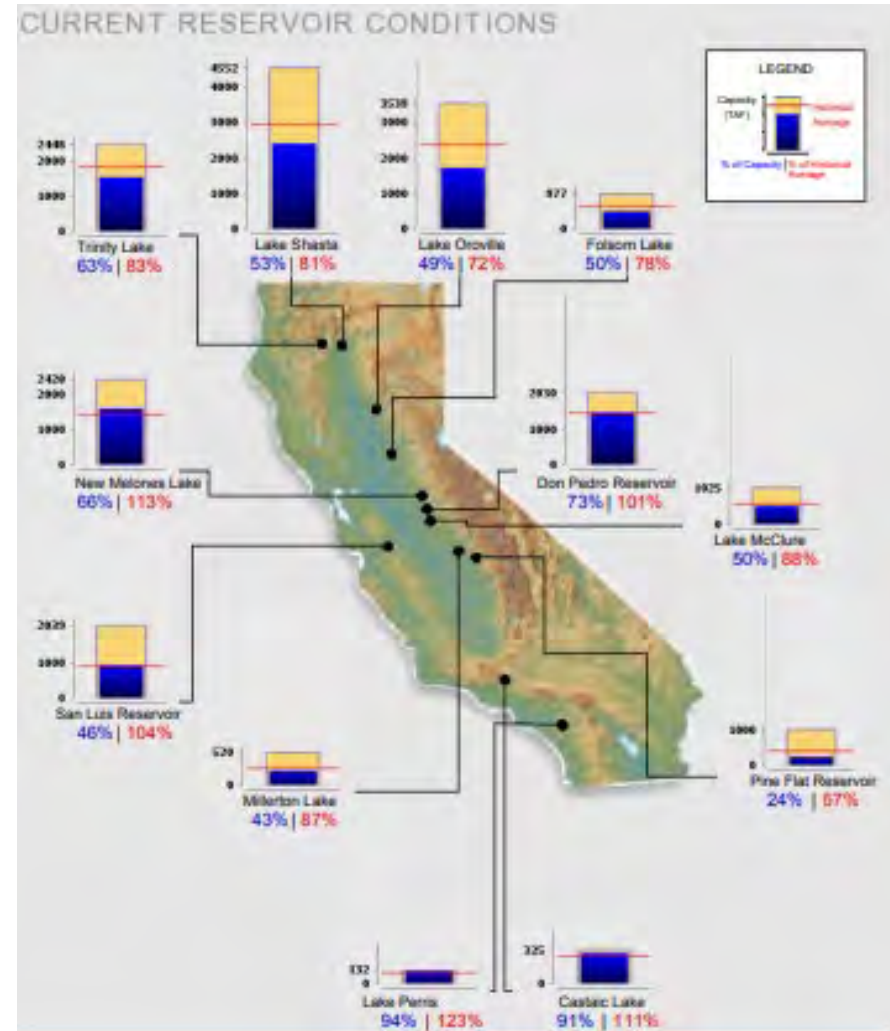


Water Supply Update

Dry 2020

→ 80% of CA at least
“abnormally dry”

Surface water
supplies remain
constrained




Delta Conveyance Update- DCA Financing

COST ASSESSMENT UPDATE

Future Steps

- ✓ Create a Baseline Program Capital Plan that represents the time-value of money over the 20-year delivery period.
 - Include the estimated value of all contracts in the year the contracts are scheduled to be procured.
- ✓ Continue developing soft costs, e.g.
 - Community Benefit Fund
 - DWR Environmental Planning Work
- ✓ Develop final conceptual construction cost estimate when CEQA is approved
 - Concept design confirmed
 - Final environmental mitigations identified
- ✓ Update Board periodically as new information is developed that affects cost, e.g.
 - Geotechnical exploration data
 - Major scope changes

Water Resilience Portfolio


- 
- Final Version Released:
 - includes over 120 recommendations
 - Achieve reliable access to safe and affordable drinking water
 - Drive greater water use efficiency in all sectors
 - Make funding available for groundwater recharge & storage projects
 - Support local and regional recycling or reuse at least 2.5 MAF/year by 2030
 - Support cities and counties on stormwater capture and reuse

2020 Legislative Recap


- COVID-19 pandemic drastically altered legislative session.
- Focus on economic recovery, pandemic relief, housing & wildfire.
- Economic Stimulus did not materialize at the end of session
- Budget assumed federal relief-not yet materialized.



2020 Climate Bond Recap

- 
- All Proposals Tabled
 - SB 45 (Allen): \$5.5 Billion
 - AB 3256 (Garcia): \$6.9 Billion (June proposed amends)
 - Governor's Budget Trailer Bill: \$4.7 Billion (withdrawn in May)
 - Lack of resources/looming deficits
 - Next opportunity--2022

2020 Legislation


- 
- **SB 414 (Caballero):** Small System Water Authority Act of 2019- Held on Assm. Appr. Suspense
 - **AB 2560 (Quirk):** NL/RL Procedures: On Governor's Desk
 - **AB 3030 (Kalra):** Conservation Goals: Held on Sen. Appr. Suspense
 - **AB 1672 (Bloom):** Disposable wipes: Held on Sen. Appr Suspense



Moving Ahead

Outlook for 2020/2021

Legislature

- 
- New Legislature to be sworn in Dec 2020
 - 2021-2022 will likely be dominated by economic recovery, homelessness, wildfire.
 - Budget difficulties continue

Most Important Environmental Issues


■ What do you think is the most important environmental issue facing California today?

- Global Warming/Climate Change 21%
- Air Pollution 13%
- Wildfires 11%
- **Water Supply/Drought 11%**
- Waste/Recycling 7%

Note: Water 5% (IE) 10% (OC/SD)

PPIC July 2020


Views on Water

- 
- How big of a problem is the “supply of water” in California?
 - Big Problem 46%
 - Somewhat of a Problem 40%
 - Not Much of a Problem 14%
 - Don't Know ---


Note: 35% (IE), 37% (OC/SD)

PPIC July 2020

Looking Ahead to 2021

- 
- California facing fiscal challenges
 - Economic recovery/focus on green jobs
 - National politics/focus on climate change
 - Rise in environmental/social justice
 - Water supply/drought in CA
 - ➔ Increasing water scarcity

Major Water issues for 2021

- 
- Bay-Delta flows/water reliability
 - Affordability/rising energy & compliance costs
 - Drinking water/water quality
 - PFOA/PFOS
 - Fiscal/protection of property taxes/reserves
 - Elimination of Ocean Discharge
 - Conveyance/Delta tunnel

Strategies & Recommendations As We Move Forward

- Continue to increase SAWPA's presence in Sacramento
- Local legislative meetings/ briefings via video conference
- Work with DWR/SWRCB to implement Water Resilience Portfolio
- Continue to engage on climate/ water/energy nexus discussions



Thank You



Questions?

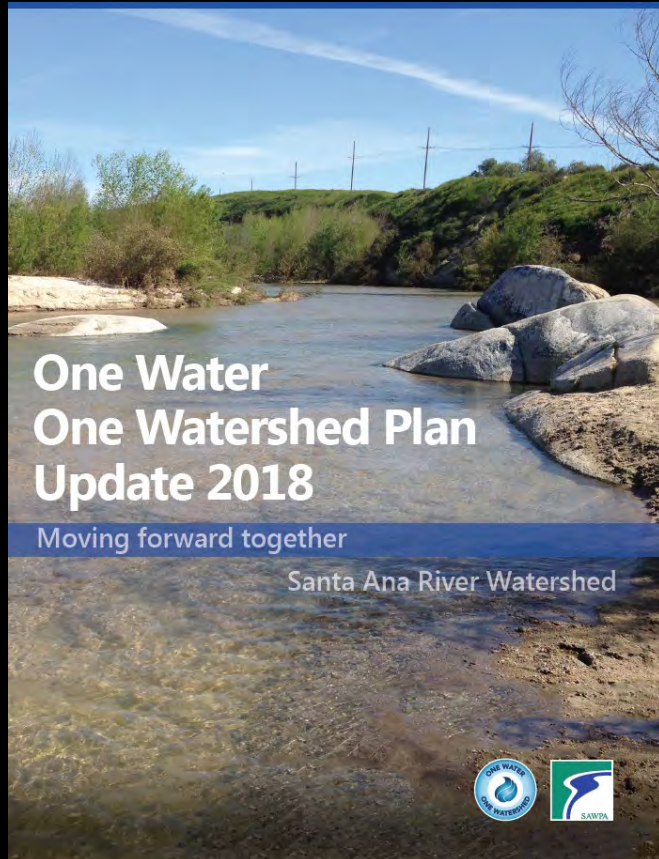


2019 SANTA ANA RIVER WATERSHED SUSTAINABILITY ASSESSMENT

Ian Achimore, Senior Watershed Manager
SAWPA Commission | September 1, 2020
Item No. 7.A.



OWOW PLAN UPDATE 2018



The six goals of the OWOW Plan Update 2018 are to:

- Achieve resilient water resources through innovation and optimization.
- Ensure high-quality water for all people and the environment.
- Preserve and enhance recreational areas, open space, habitat, and natural hydrologic function.
- Engage with members of disadvantaged communities to diminish environmental injustices.
- Educate and build trust between people and organizations.
- Improve data integration, tracking, and reporting to strengthen decision making.

ASSESSMENT AND INDICATORS

Rating System



Negative



Neutral



Positive



No Data

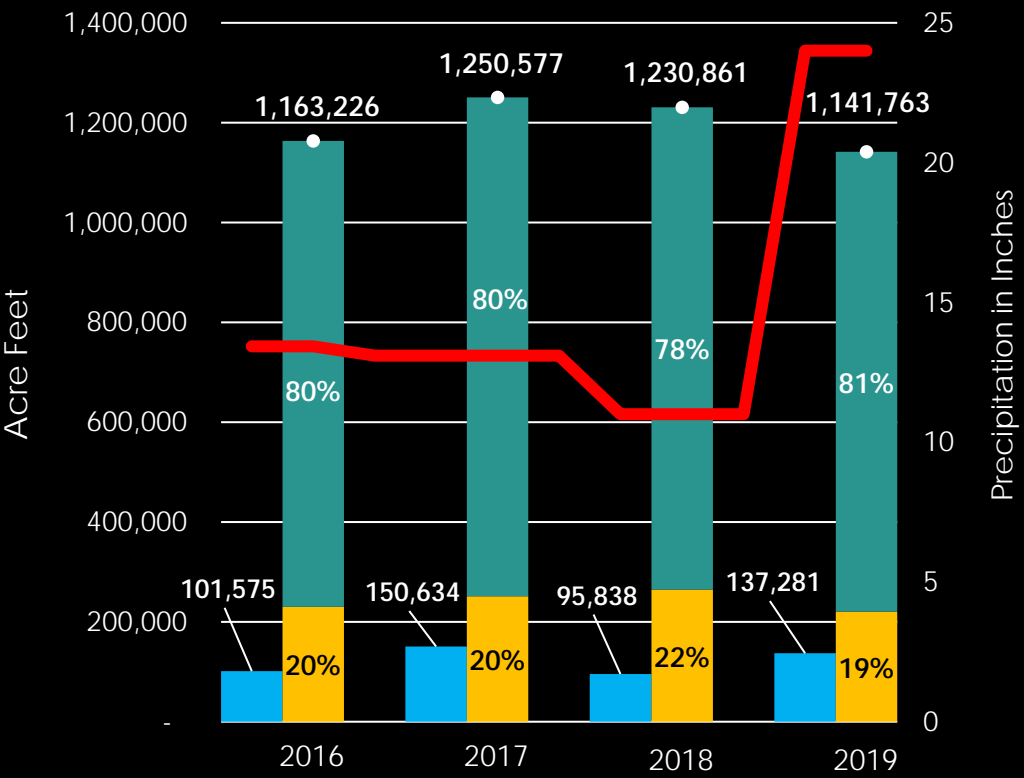
OWOW Goal	Indicator No.	Indicator Definition	Rating from 2018 Assessment	Rating from 2019 Assessment
Achieve resilient water resources through innovation & optimization	1	Maximization of locally-managed supplies		
	2	Efficiency of outdoor water use		
Ensure high quality water for all people & the environment	3	Maintenance of groundwater salinity at target levels		
	4	Safety of water for contact recreation		
Preserve & enhance recreational areas, open space, habitat	5	Abundance of riparian vegetation		
	6	Abundance of conserved open space		
Engage with members of disadvantaged communities	7	Equitable access to clean drinking water		
	8	Equitable implementation of climate change adaptation		
Educate & build trust between people & organizations	9	Collaboration for more effective outcomes		
	10	Adoption of a watershed ethic		
Improve data integration, tracking & reporting to strengthen decision-making	11	Broaden access to data for decision-making		
	12	Participation in a regional database.		



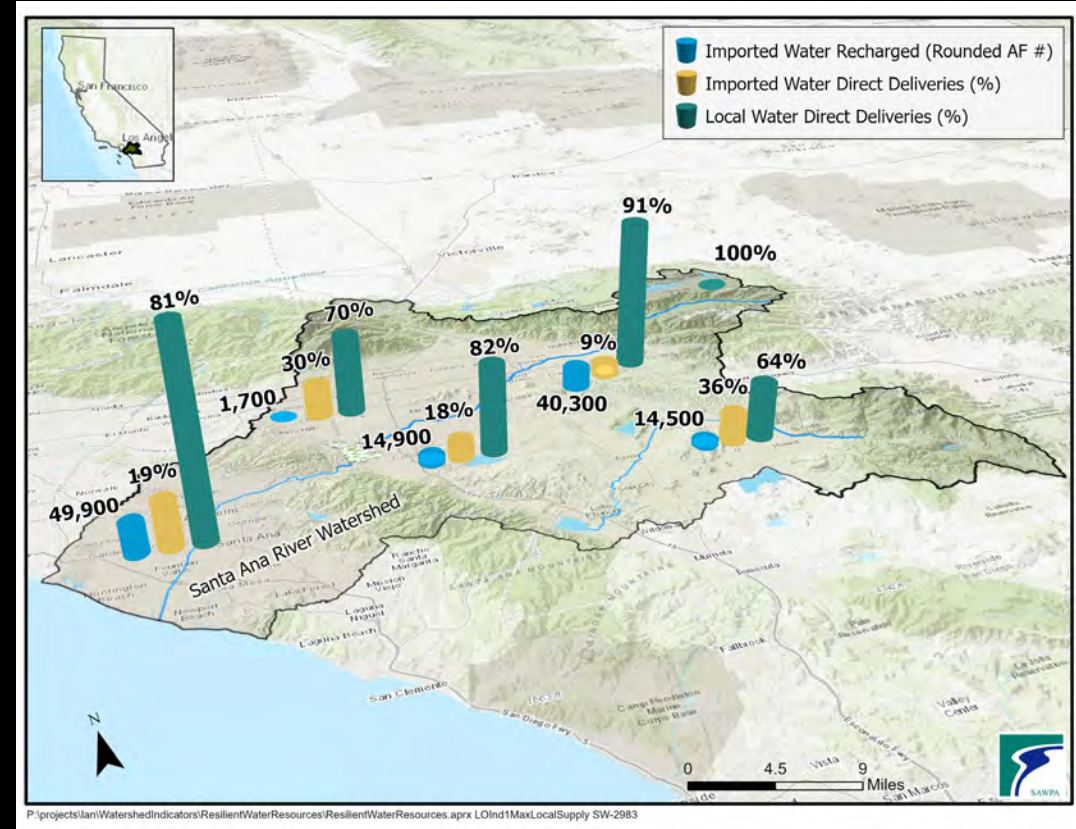
GOAL: ACHIEVE RESILIENT WATER
RESOURCES THROUGH INNOVATION
AND OPTIMIZATION.


1

MAXIMIZATION OF LOCALLY-MANAGED SUPPLIES



- Local Water Direct Deliveries (% of Direct)
- Imported Water Direct Deliveries (% of Direct)
- Imported Water Recharged
- Total Direct Deliveries
- Local Annual Average Precipitation

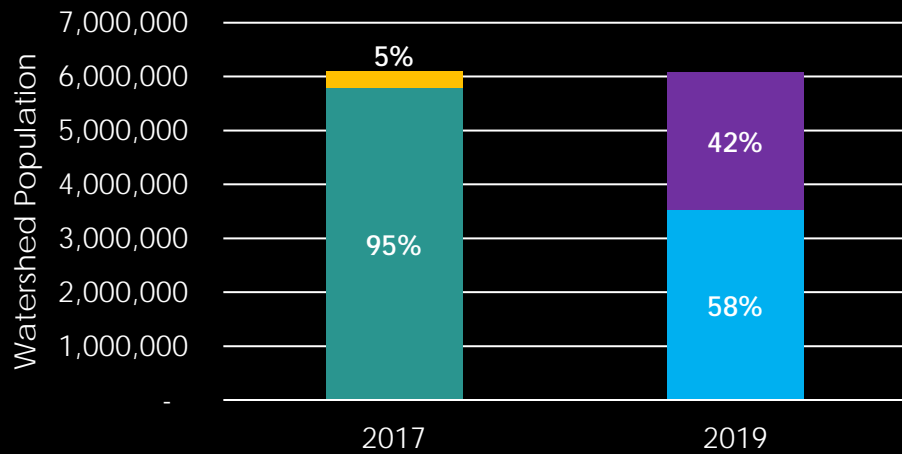


 2019: Positive
(2018: Neutral)

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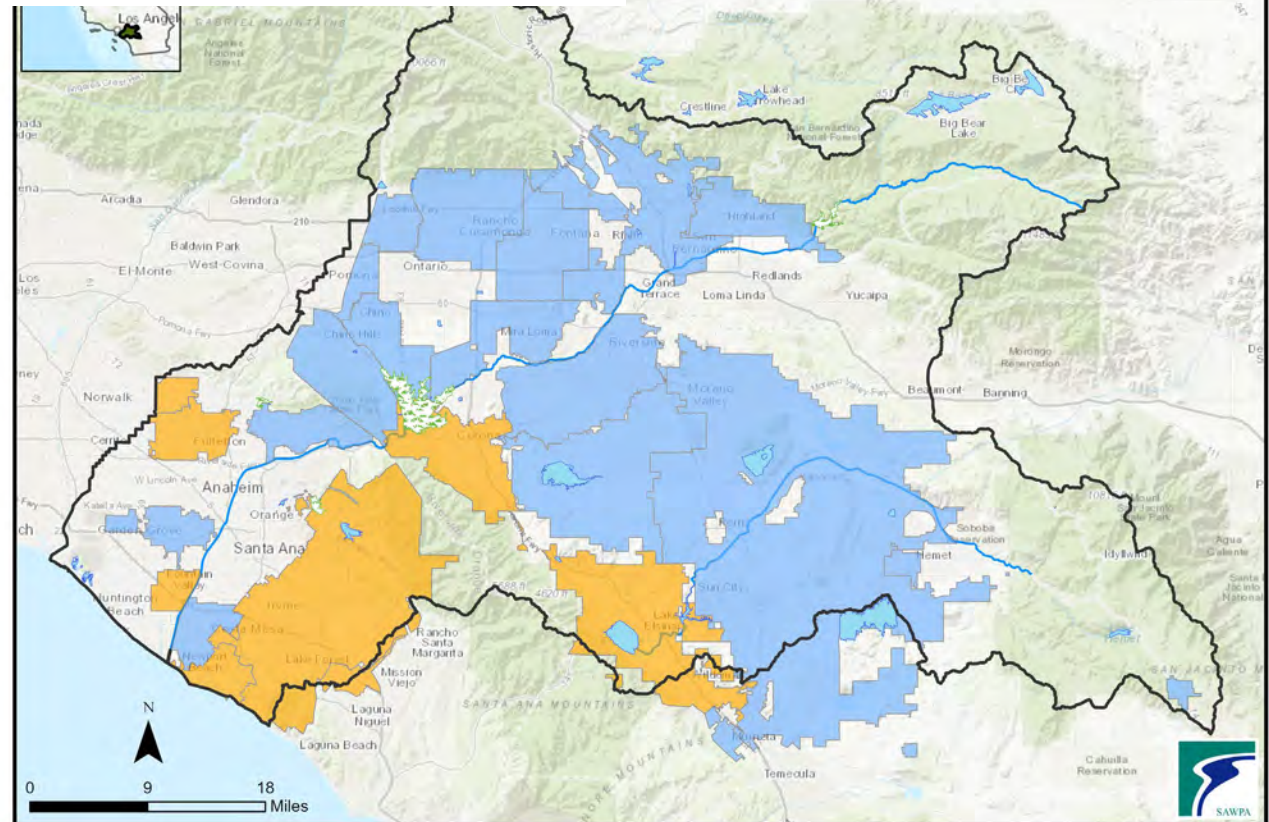
EFFICIENCY OF OUTDOOR WATER USE

(Methodology Varies Between Years)



- Using Parcel-Level ■ Not Using Parcel-Level
- Using Parcel-Level (New Methodology)
- Not Using Parcel-Level (New Methodology)

Retail Agencies Using Parcel-Level Data (2019)



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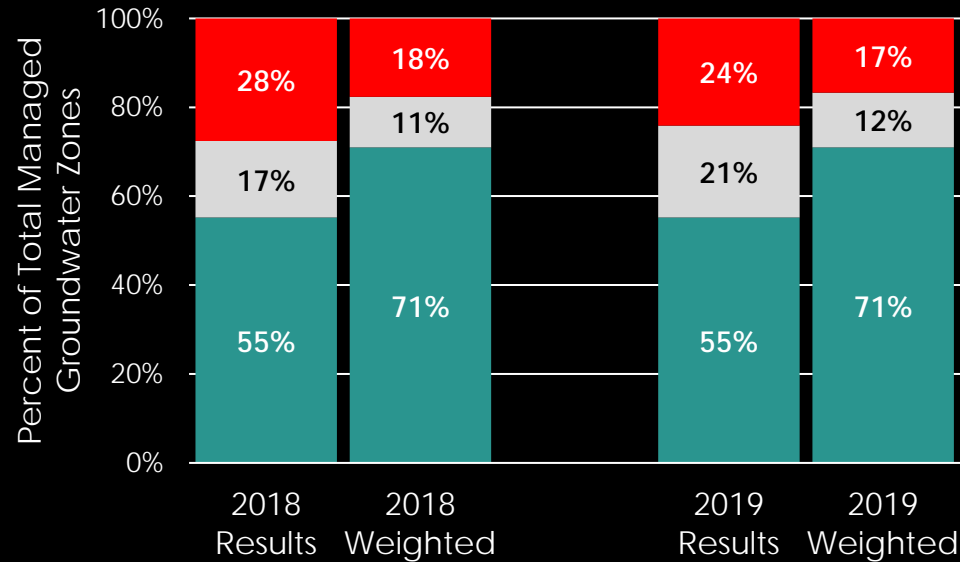


2019: Positive
(2018: Positive)




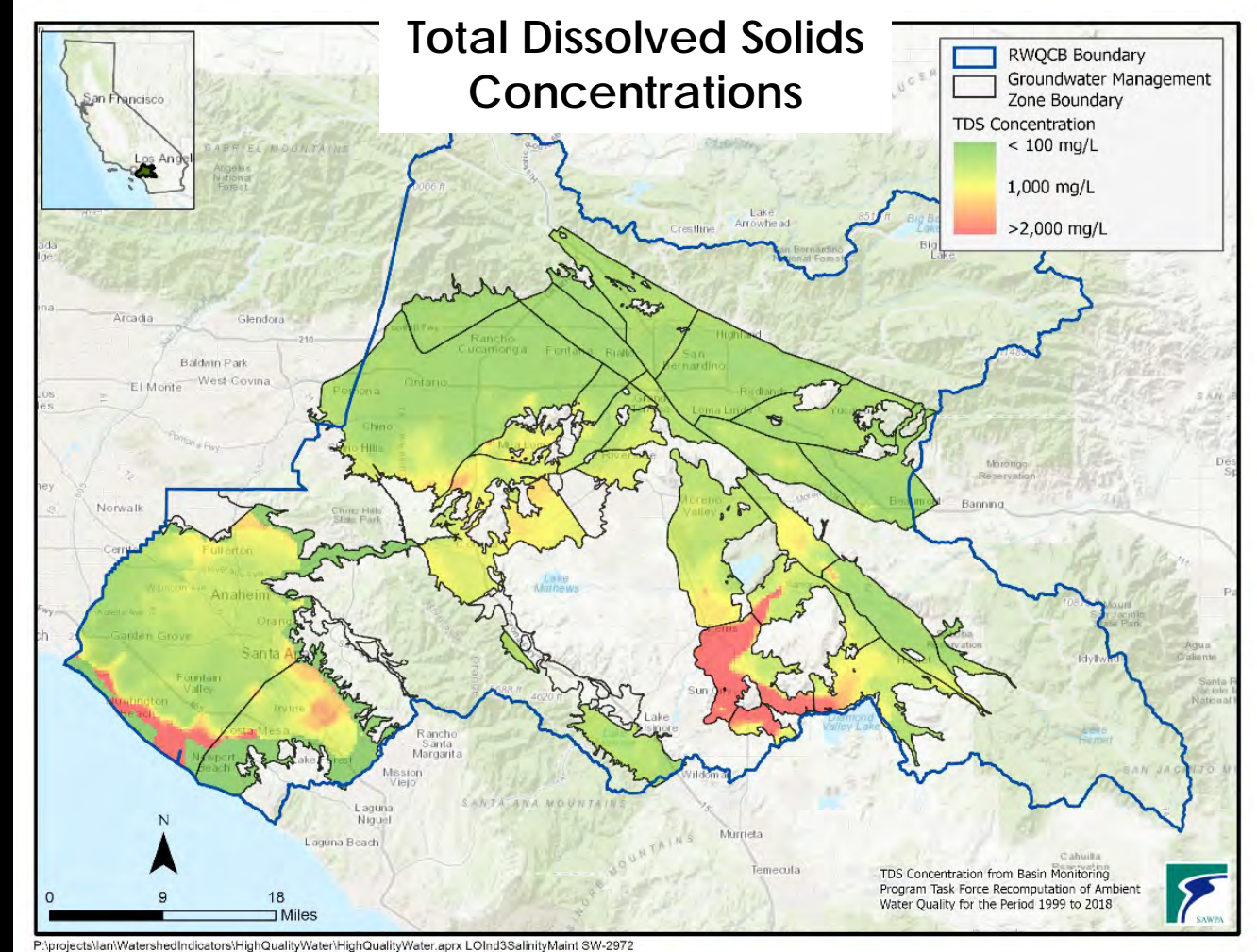
GOAL: ENSURE HIGH QUALITY WATER
FOR PEOPLE AND THE ENVIRONMENT.

MAINTENANCE OF GROUNDWATER SALINITY AT TARGET LEVELS

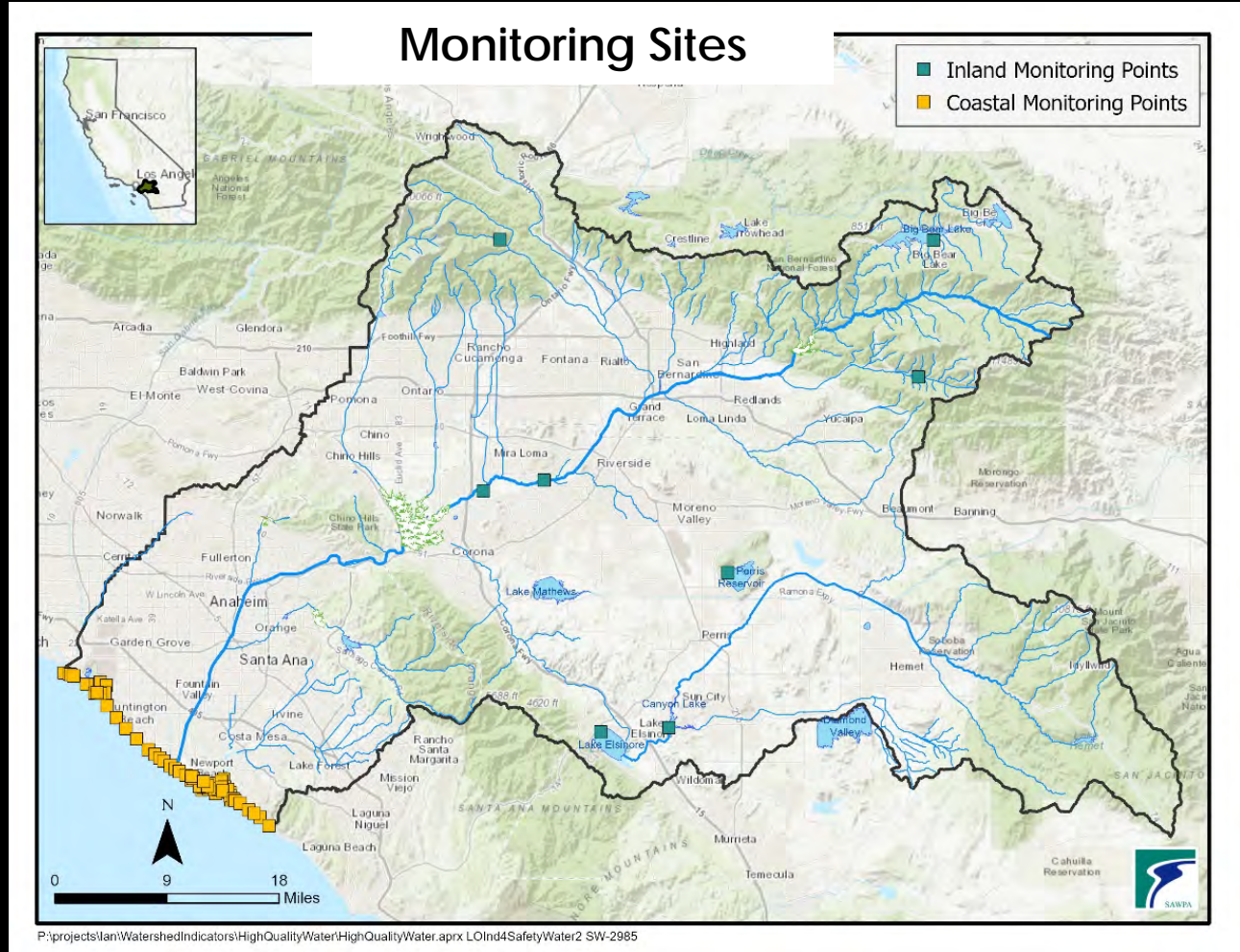
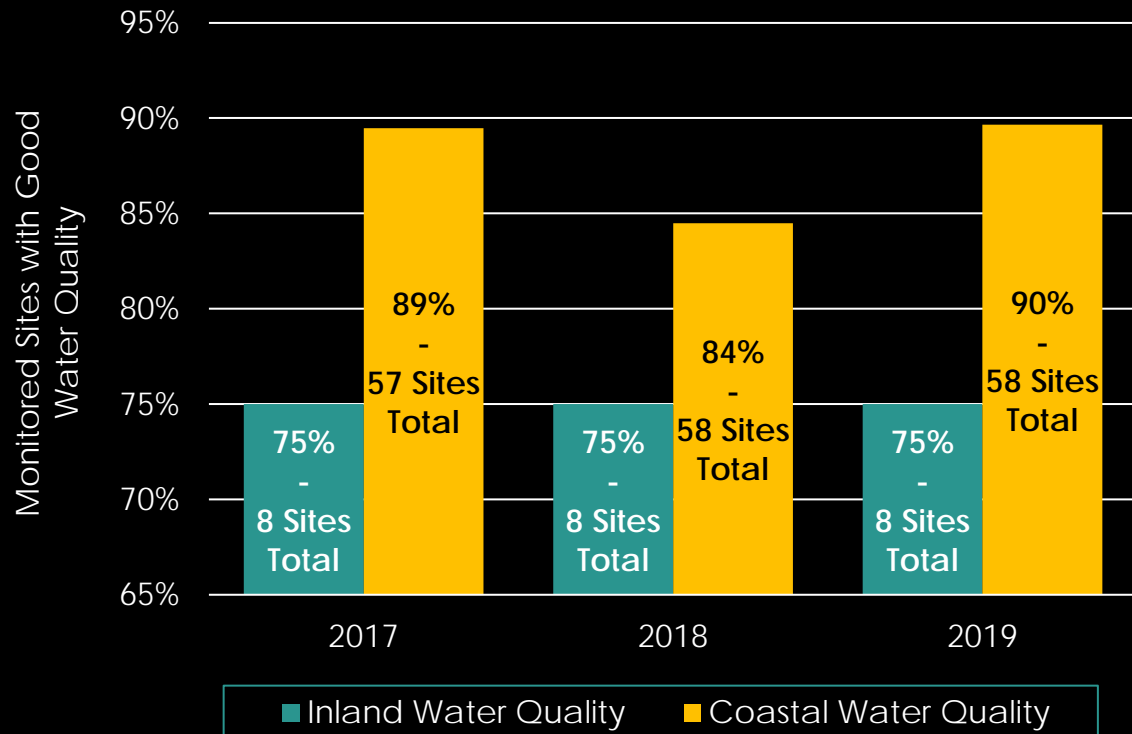


- Negative: Does Not Meet Standard
- Neutral: Does Not Meet Standard But Improved from Past
- Positive: Meets or Exceeds Standard

 2019: Positive
(2018: Positive)



SAFETY OF WATER FOR CONTACT RECREATION

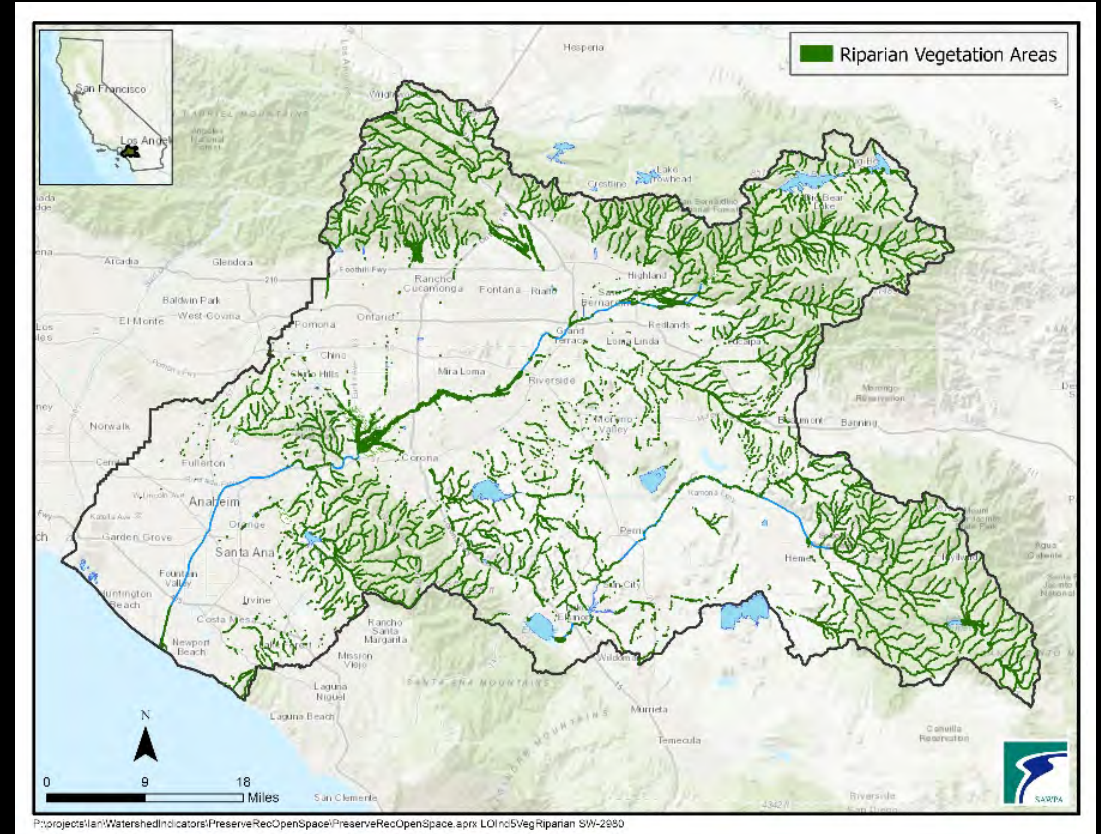
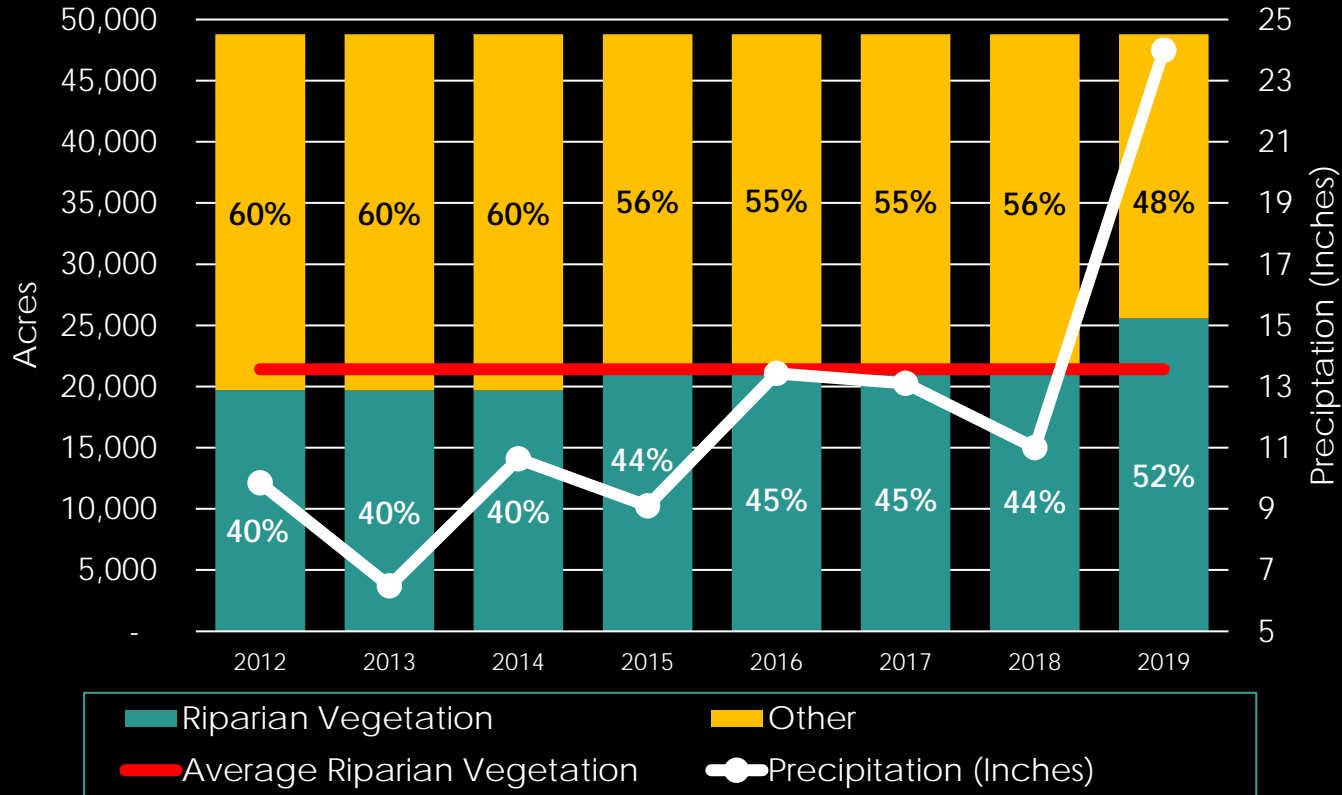


2019: Positive
(2018: Positive)



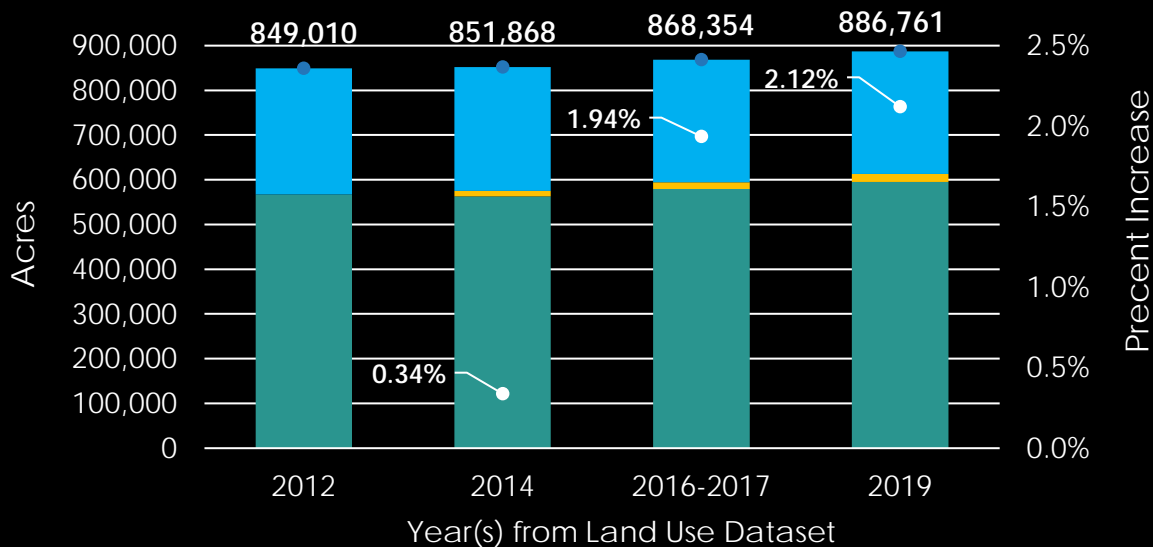
GOAL: PRESERVE AND ENHANCE
RECREATIONAL AREAS, OPEN SPACE,
HABITAT, AND NATURAL HYDROLOGIC
FUNCTION.

ABUNDANCE OF RIPARIAN VEGETATION

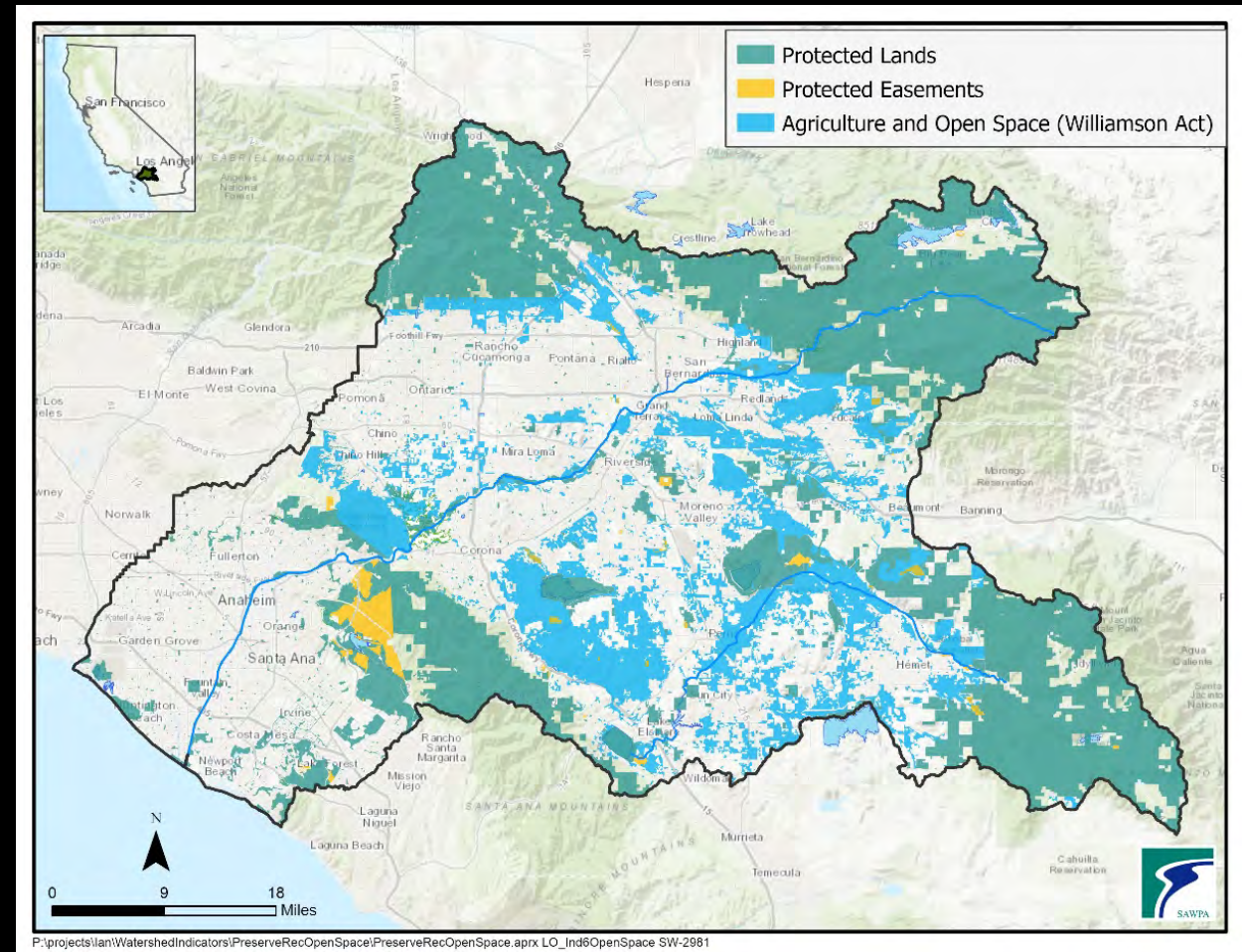


2019: Positive
(2018: Positive)

ABUNDANCE OF CONSERVED OPEN SPACE



- Agriculture and Open Space (Williamson Act)
- Protected Easements
- Protected Lands
- Total Protected Lands
- Percent Increase From Previous Years (All Lands)



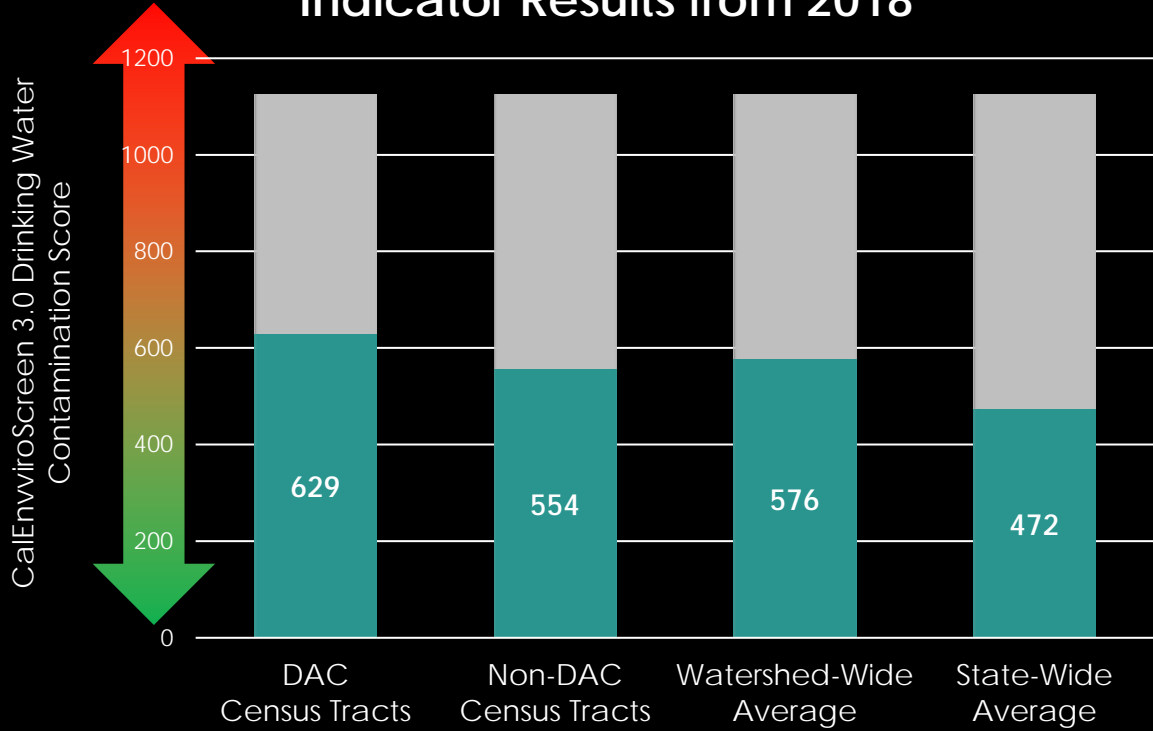
2019: Positive
(2018: Positive)



GOAL: ENGAGE WITH MEMBERS OF DISADVANTAGED COMMUNITIES AND ASSOCIATED SUPPORTING ORGANIZATIONS TO DIMINISH ENVIRONMENTAL INJUSTICES AND THEIR IMPACTS ON THE WATERSHED.

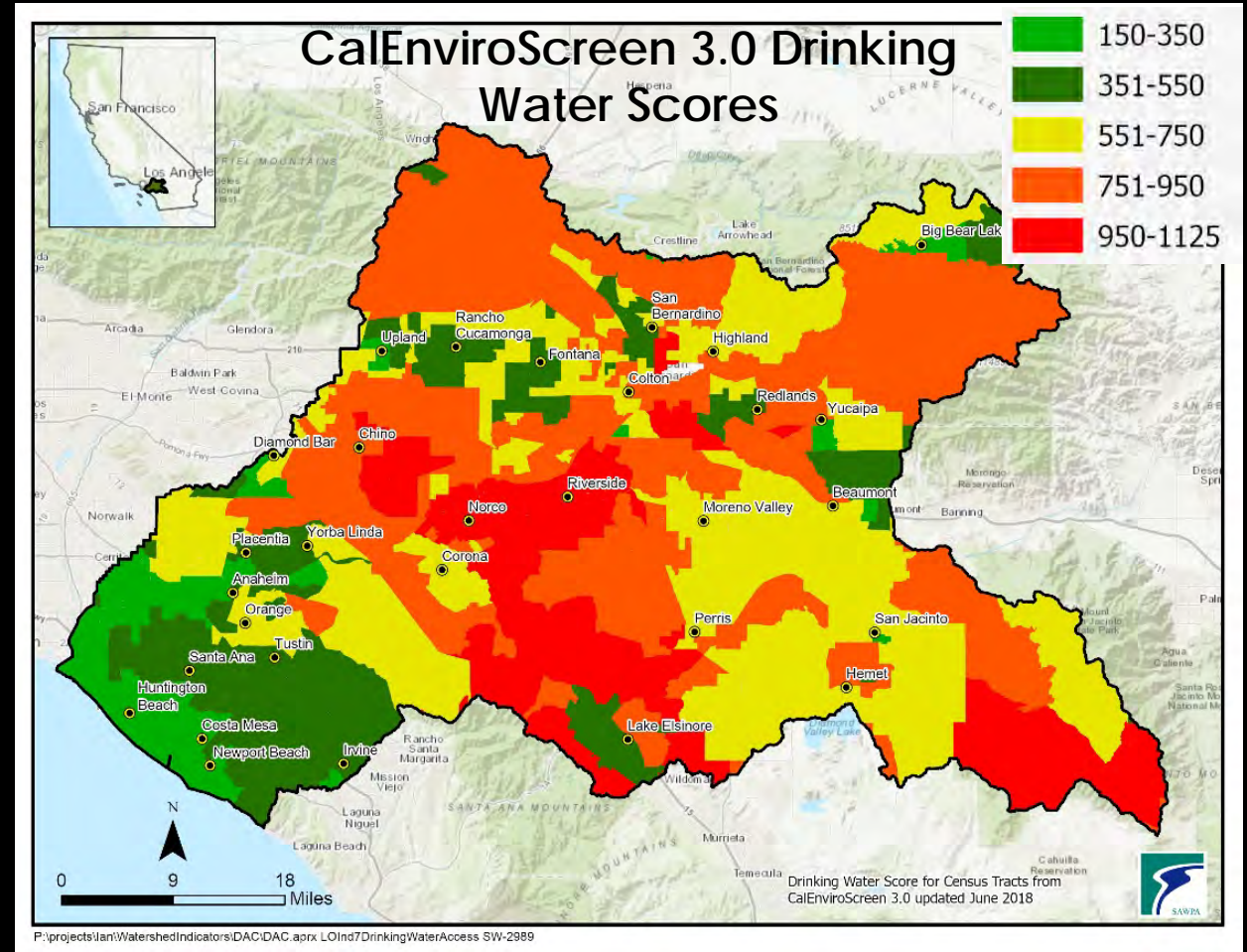
EQUITABLE ACCESS TO CLEAN DRINKING WATER

Indicator Results from 2018



■ Highest Score In State ■ Score

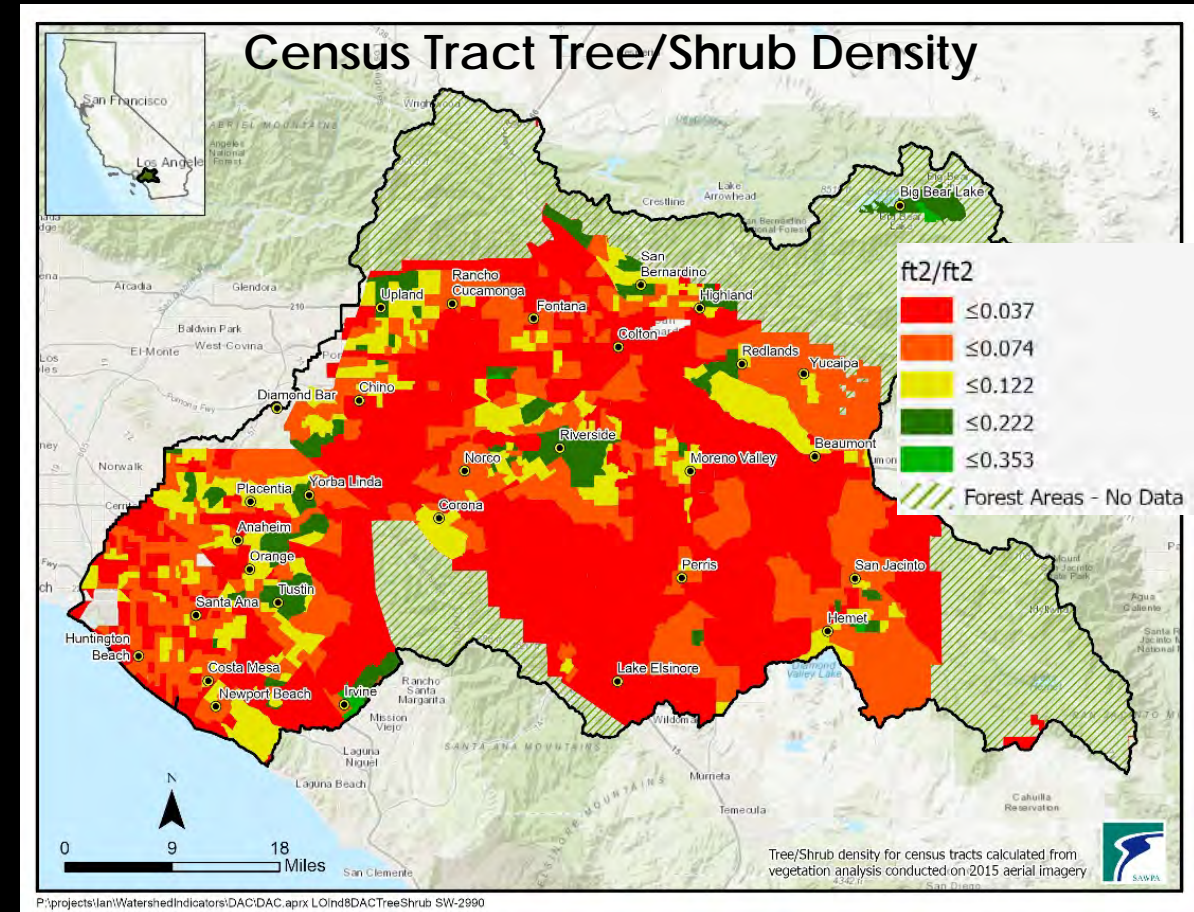
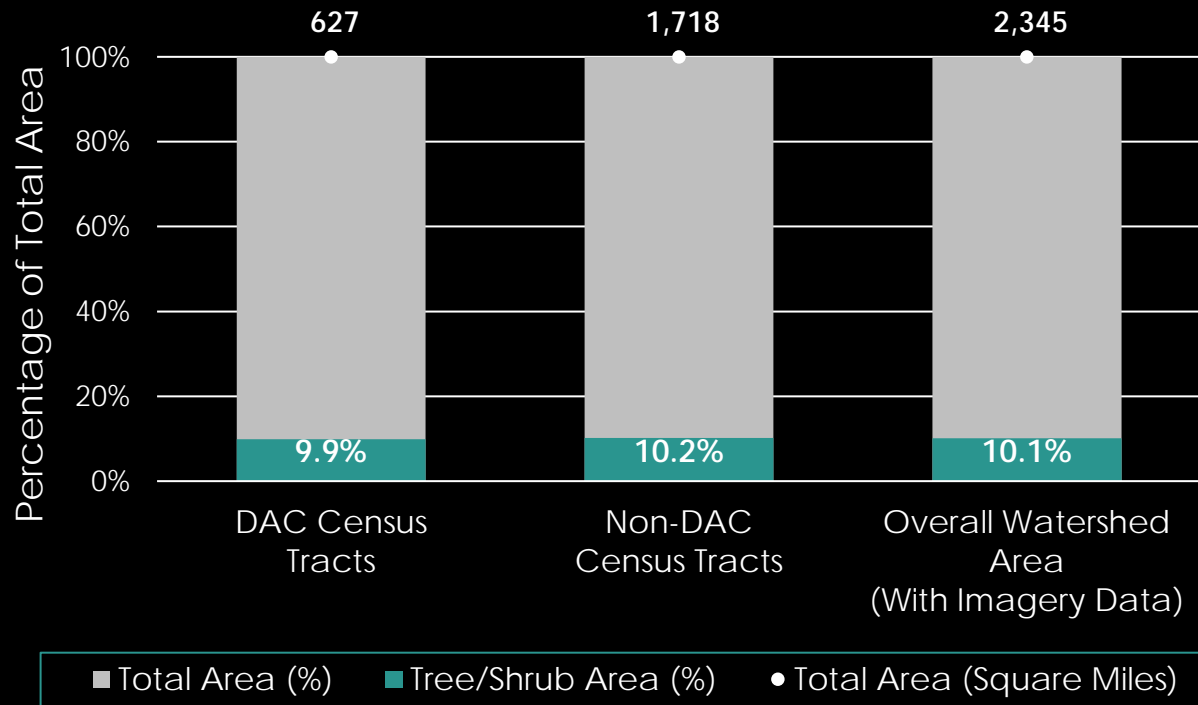
2019: No Current Data
(2018: Neutral)



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EQUITABLE IMPLEMENTATION OF CLIMATE CHANGE ADAPTATION

Indicator Results from 2018

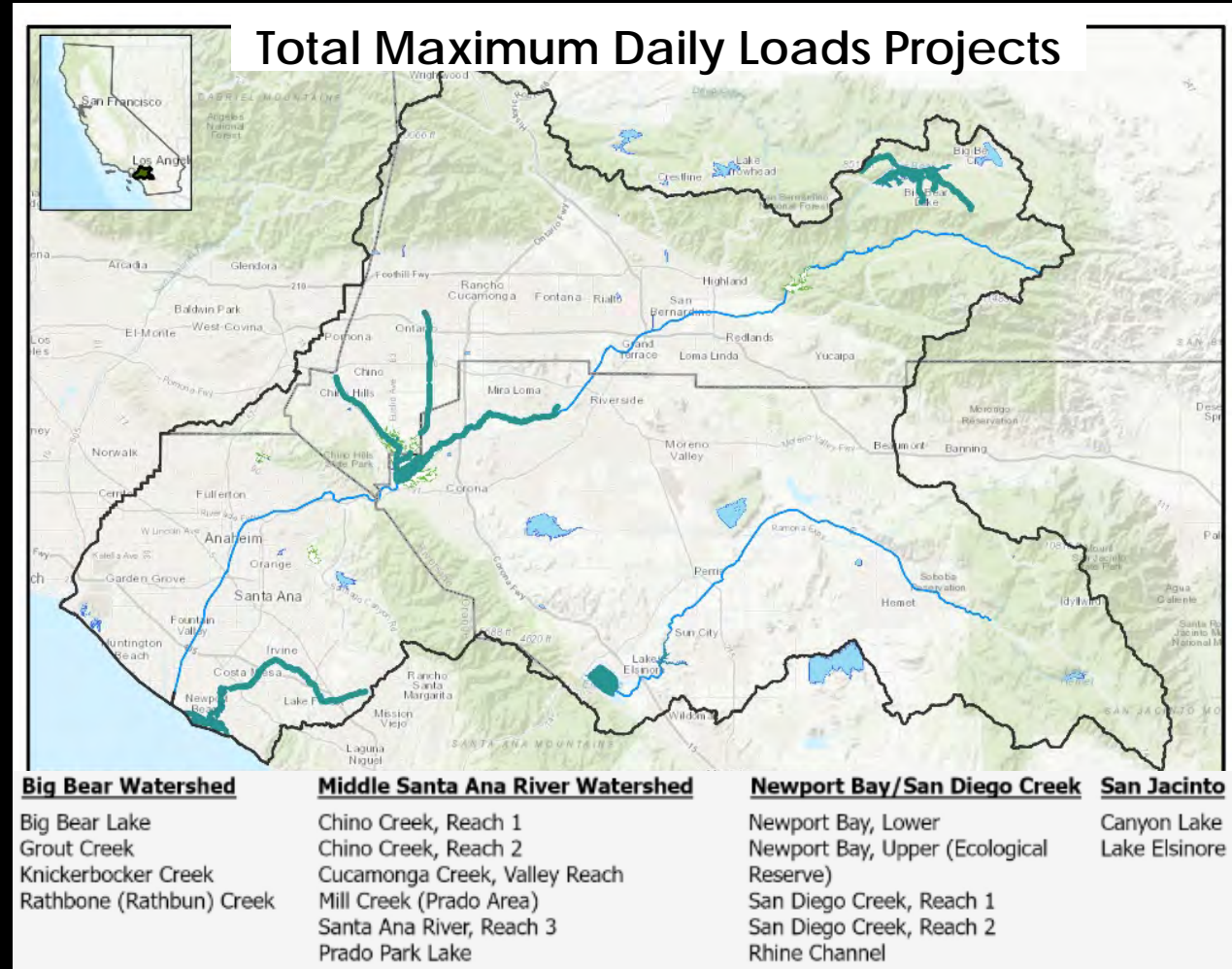
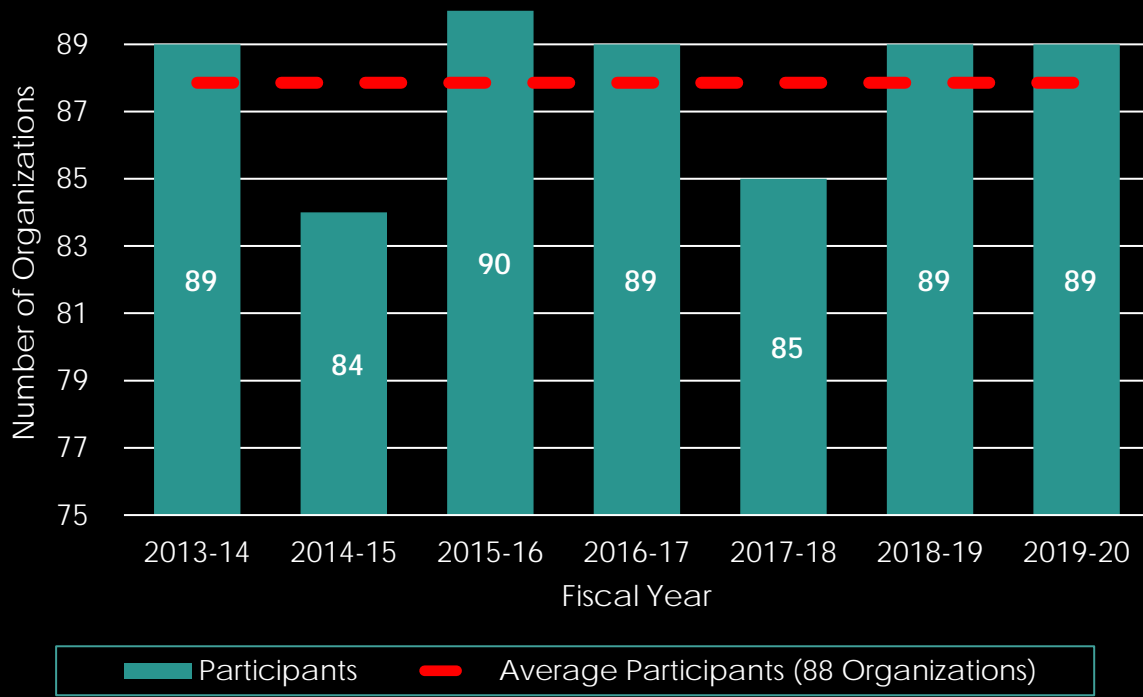


2019: No Current Data
(2018: Neutral)



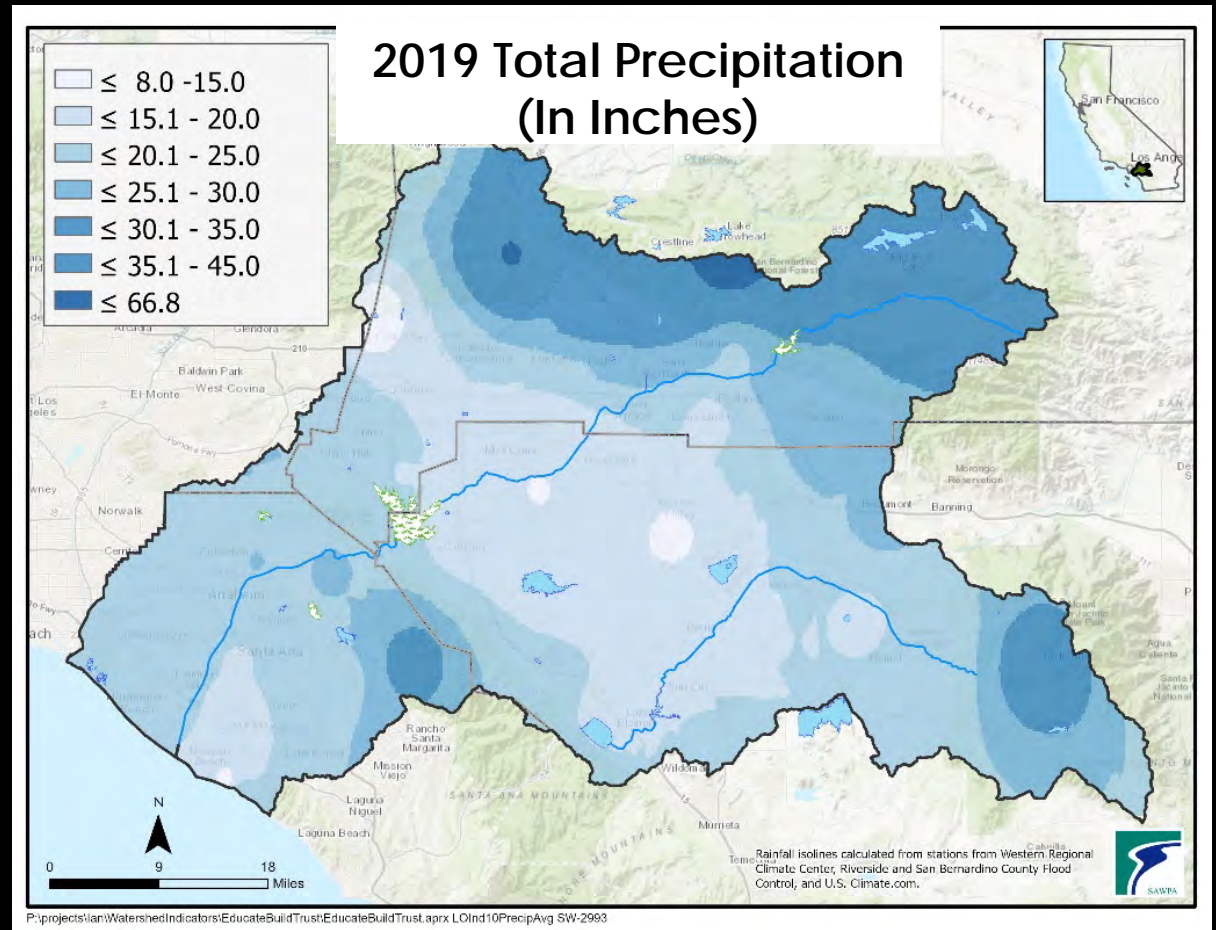
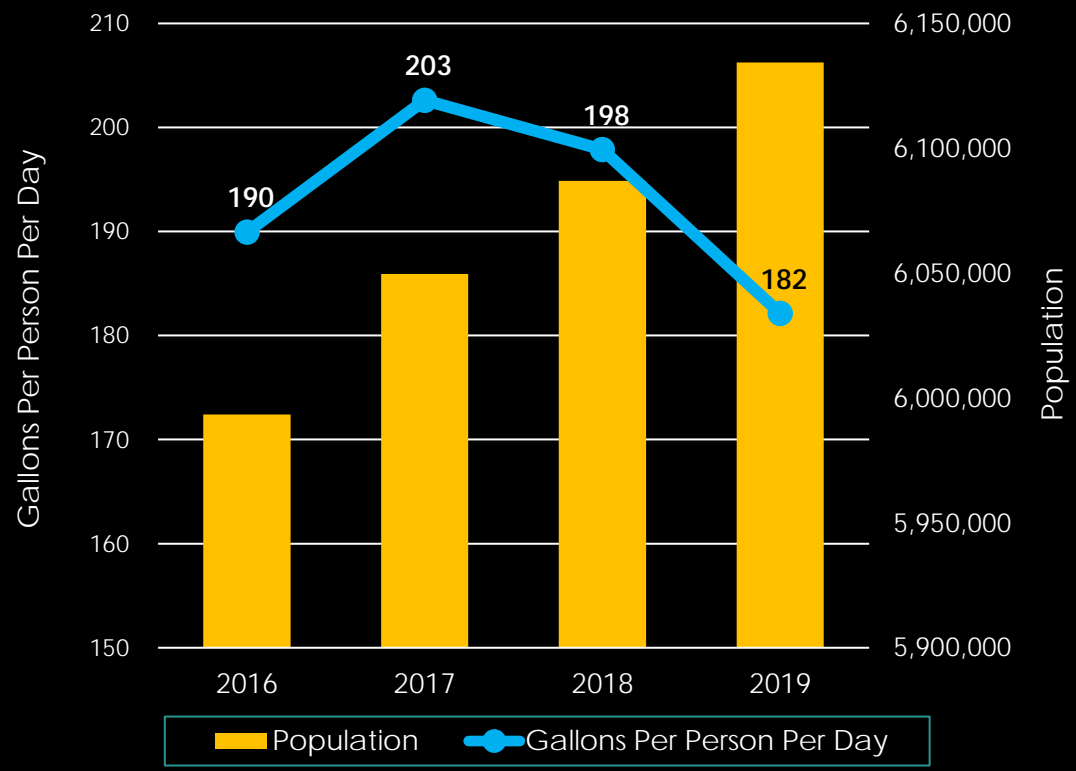
GOAL: EDUCATE AND BUILD TRUST
BETWEEN PEOPLE AND
ORGANIZATIONS.

COLLABORATION FOR MORE EFFECTIVE OUTCOMES



2019: Positive
(2018: Positive)

ADOPTION OF A WATERSHED ETHIC



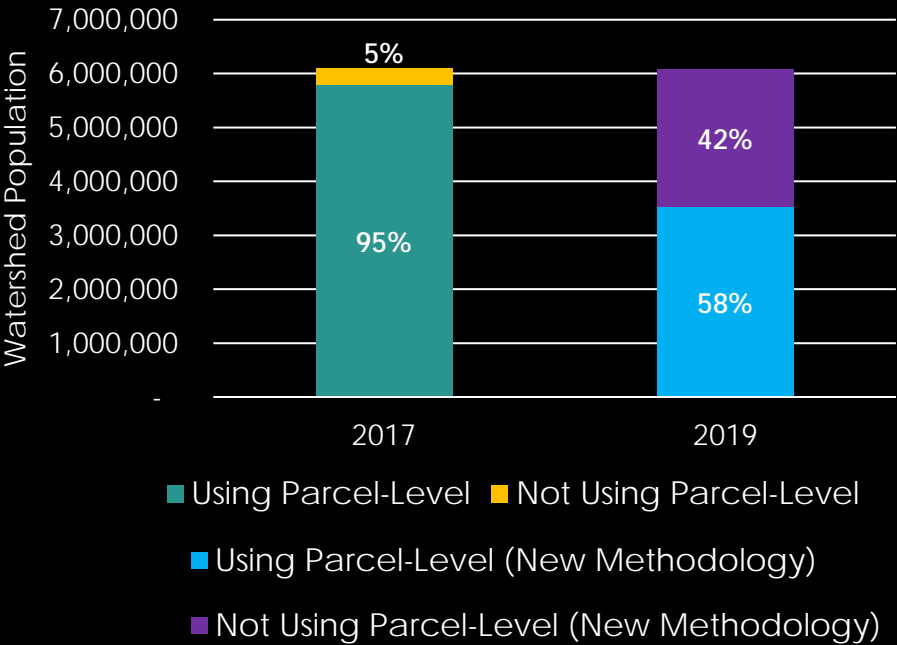
2019: Positive
(2018: Positive)



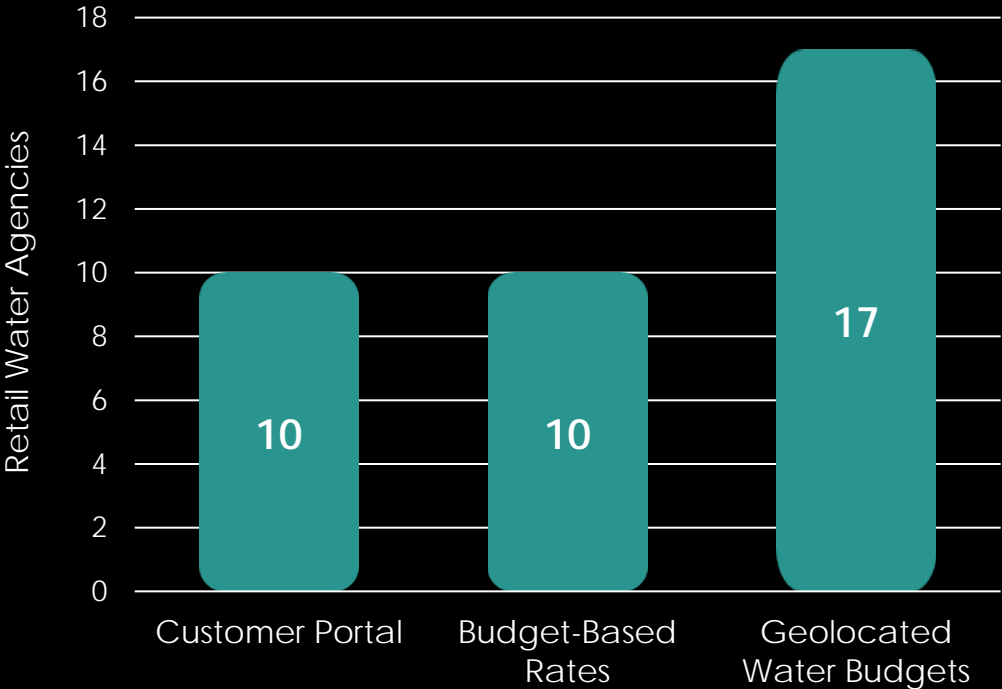
GOAL: IMPROVE DATA INTEGRATION,
TRACKING AND REPORTING TO
STRENGTHEN DECISION-MAKING.

BROADEN ACCESS TO DATA FOR DECISION-MAKING

(Methodology Varies Between Years)



Results Further Explained

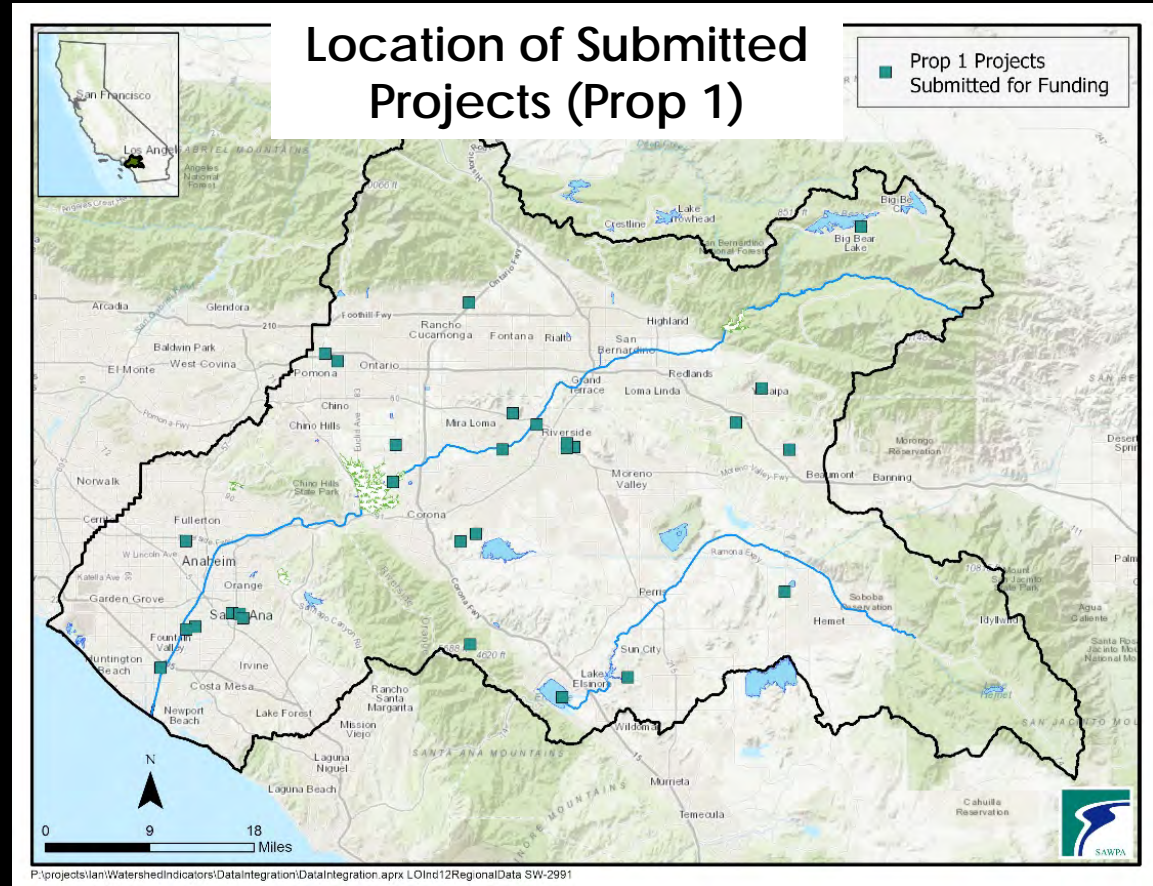
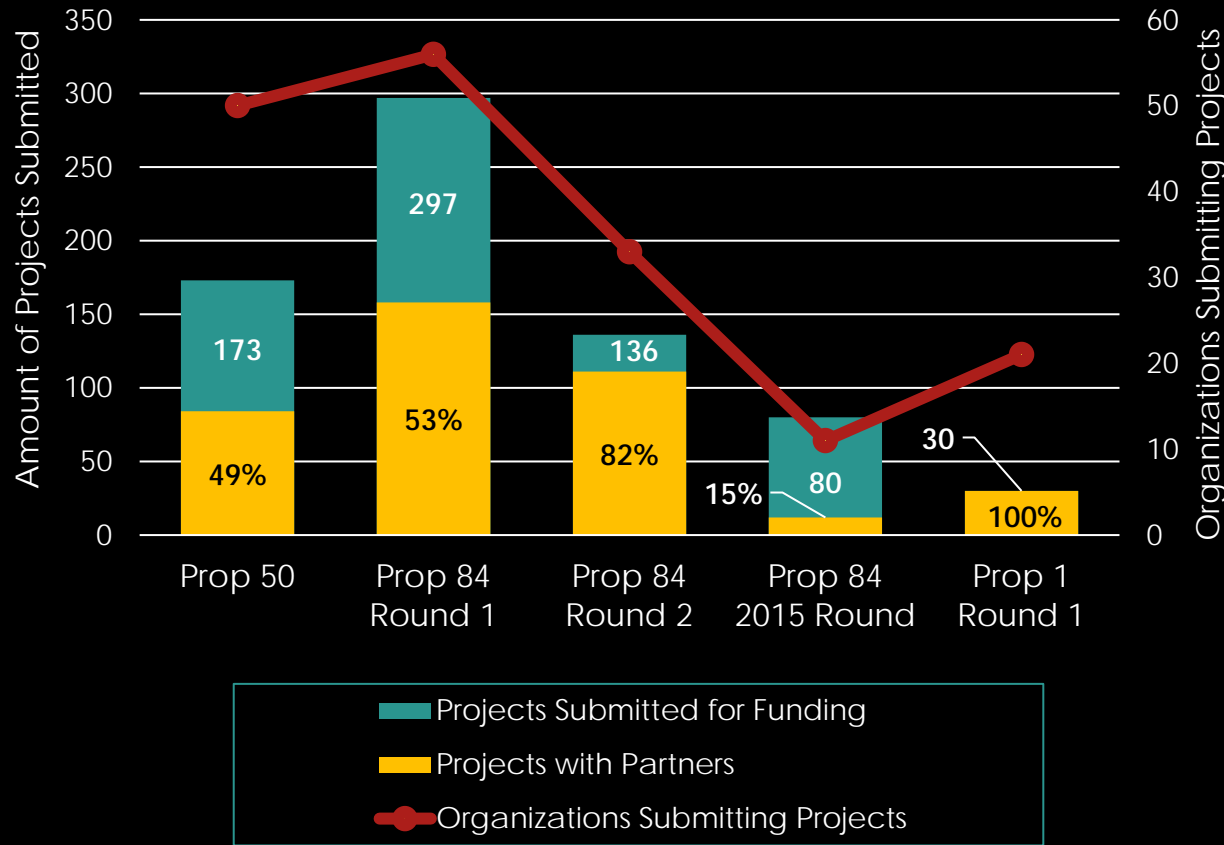



The amount of agencies in each category is provided above (some are in more than one category).



2019: Positive
(2018: Positive)

PARTICIPATION IN AN OPEN DATA PROCESS




























 2019: Neutral
 (2018: Neutral)

OBSERVATIONS

- Overall, watershed doing very well in meeting its goals, although more data needed on DAC-related measures,
 - New data will be available through 2020-21 high-resolution aerial imagery and updates to the State's CalEnviroScreen database.
- More work to be done to create open-data processes and encourage more projects to submit in the OWOW Plan Database,
- Good progress in making conservation a way of life, but more retail water agencies need tools to provide customers with information about their water use, and
- Updates of this Assessment very important as it will show changes over time,
 - This will be helpful for showing changes especially between wet and dry years.

Recommendation

Adopt the 2019 Santa Ana River Watershed Sustainability Assessment.

Goal	Indicator No.	Indicator Definition	Rating from 2018 Assessment	Rating from 2019 Assessment
Achieve resilient water resources through innovation & optimization	1	Maximization of locally-managed supplies		
	2	Efficiency of outdoor water use		
Ensure high quality water for all people & the environment	3	Maintenance of groundwater salinity at target levels		
	4	Safety of water for contact recreation		
Preserve & enhance recreational areas, open space, habitat	5	Abundance of riparian vegetation		
	6	Abundance of conserved open space		
Engage with members of disadvantaged communities	7	Equitable access to clean drinking water		
	8	Equitable implementation of climate change adaptation		
Educate & build trust between people & organizations	9	Collaboration for more effective outcomes		
	10	Adoption of a watershed ethic		
Improve data integration, tracking & reporting to strengthen decision-making	11	Broaden access to data for decision-making		
	12	Participation in a regional database.		

Assessing Homelessness Impacts on Water Quality, Riparian and Aquatic Habitat in Upper Santa Ana River Watershed

Ryan Kearns, CWE

Jason Pereira, CWE

Richard Meyerhoff, GEI Consultants

SAWPA Commission | September 1, 2020 | Item No. 7.B.



Task 1 – Literature Review and Assessment of Existing Conditions

- Assess the current nature and extent of homeless encampments in the upper watershed
- Provide best available information about the relationship between presence of homeless encampments and impacts to water quality and riparian and aquatic habitats



Task 1 – Key Findings


- No studies found that directly tie water quality to homeless impacts
- Recently completed Middle Santa Ana River Synoptic Study found some evidence of human bacteria sources in river, but not consistent from week to week
- Transient nature of camps and differences in how they operate or handle waste will make design of a preliminary monitoring program challenging



Task 1 – Key Findings

- Upper Santa Ana River Watershed – Five areas where homeless encampments concentrated:
 - Van Buren Boulevard bridge upstream to Anza Drain
 - Along the Tequesquite Landfill
 - Above and below the Mission Boulevard bridge crossing
 - Upstream of the 60 Freeway
 - Between the I-215 bridge and Tippecanoe Road



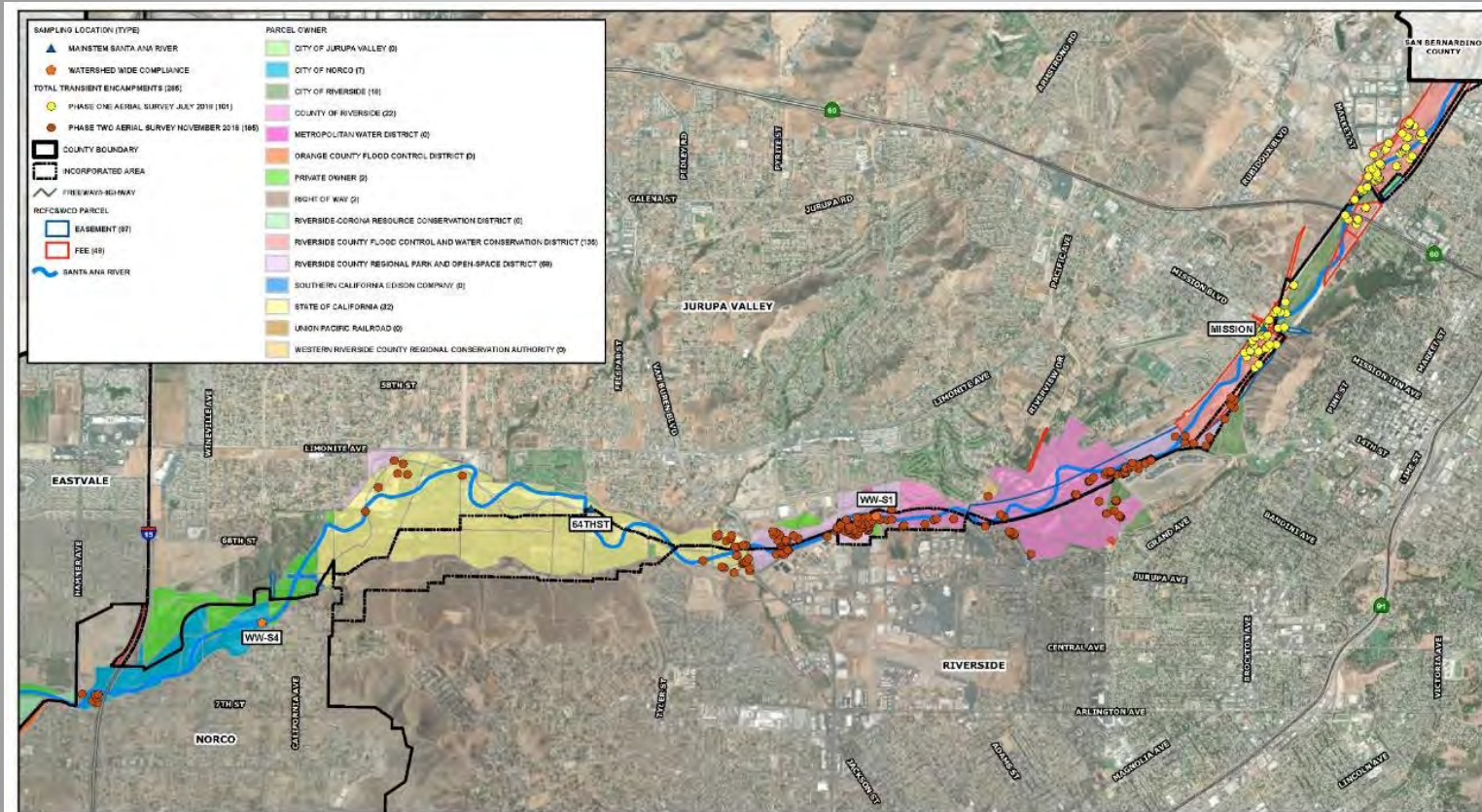
An aerial photograph of a river winding through a dense, green landscape. The river is the central focus, flowing from the foreground towards the background. The surrounding area is filled with various types of trees and shrubs, creating a rich, textured green environment. In the far distance, some buildings and a city skyline are visible under a bright, slightly cloudy sky. The overall scene is peaceful and natural.

Task 2 - Preliminary Monitoring Program to Assess Impacts from Homeless Encampments

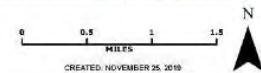
Location of Major Homeless Camps



Best Available Data



**LOCATION OF BACTERIA SYNOPTIC STUDY MAINSTEM SANTA ANA RIVER SITES
IN RELATION TO SITES WITH EVIDENCE OF TRANSIENT OCCUPATION**



Preliminary Monitoring Locations



Van Buren Boulevard Bridge



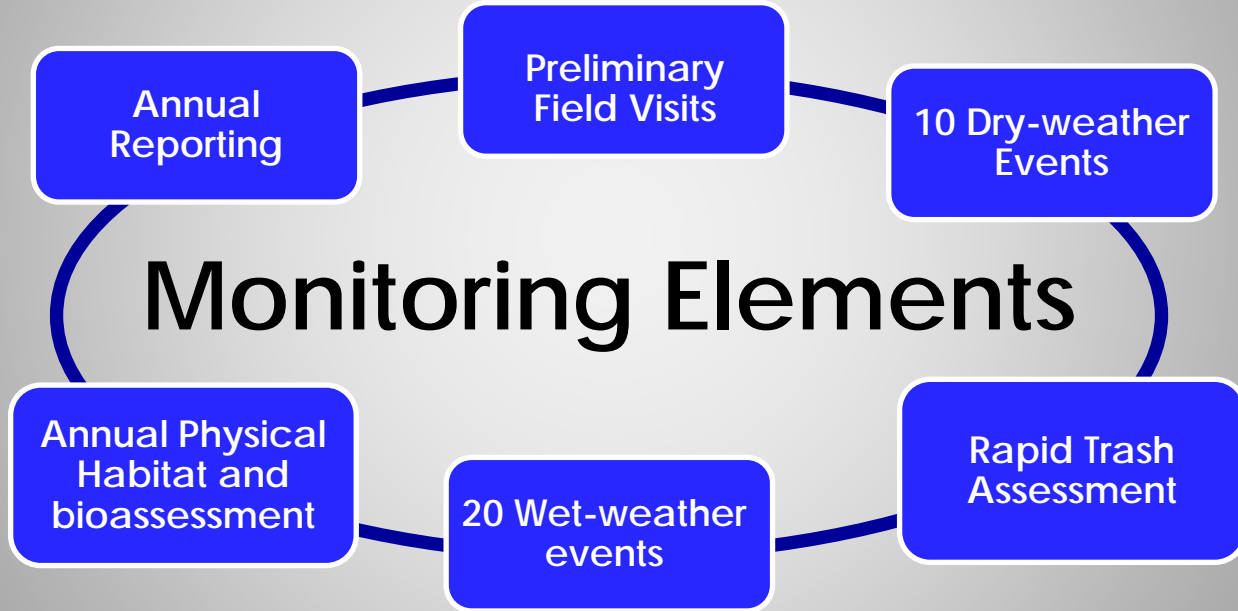
Mission Boulevard Bridge



Market Street Bridge



Preliminary Monitoring Program



Preliminary Field Visits

Baseline Conditions

- Assess initial water quality, riparian habitat, and aquatic habitat conditions

Encampment Population Estimate

- Coordinate with Riverside County Point-in-Time Count

Dry-weather Events

10 total monitoring events
at each site

- Collect water samples for TSS, *E. coli*, and HF183
- Water Quality Sonde Measurements
- Rapid Trash Assessment



Rapid Trash Assessment

- Level of trash
- Number of items found
- Threat to aquatic life
- Threat to human health
- Illegal Dumping
- Accumulation of Trash

RAPID TRASH ASSESSMENT WORKSHEET
Surface Water Ambient Monitoring Program, San Francisco Bay Regional Water Quality Control Board

WATERSHED/STREAM: _____ DATE/TIME: _____
MONITORING GROUP, STAFF: _____ SAMPLE ID NO. _____
SITE DESCRIPTION (Station Name, No., etc.): _____

Trash Assessment Parameter	CONDITION CATEGORY																			
	Optimal			Sub optimal			Marginal			Poor										
1. Level of Trash	On first place, no trash visible; little or no trash evident when searched, and surroundings are clearly examined for litter and debris, for instance by looking under leaves.			On first place, little or no trash visible after three thorough trash levels of trash evident in streambed and streambed.			Trash is evident in low to medium levels on first place. Streambed surface and streambed are visible on riparian side stream bed and debris. Evidence of use being used frequently by people: beer cans, bottles, wrappers, and so on.			Trash obvious to eye on first place. Streambed surface and streambed are visible on riparian side stream bed and debris. Evidence of use being used frequently by people: beer cans, bottles, food wrappers, mammalian droppings, sticks, and/or piles of debris.										
SCORE	20	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
2. Actual Number of Trash Items Found	0 to 5 trash items based on a rapid survey of a 100-foot stream reach.			4 to 10 trash items based on a rapid survey of a 100-foot stream reach.			10 to 20 trash items based on a rapid survey of a 100-foot stream reach.			Over 20 trash items based on a rapid survey of a 100-foot stream reach.										
SCORE	20	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
3. Threat to Aquatic Life	Trash, if any, is mostly paper or wood products or other biodegradable materials. Note: A large amount of material like food waste causes high oxygen demand, and should not be used to report.			Little or no petroleum, inorganic, and small items or debris. Presence of acetone, Agri-chemicals, and anti-acid debris such as wood, glass, metal, and biodegradable plastics such as flattened plastic.			Medium presence of petroleum products, inorganic, or other debris, such as styrofoam, plastic bags, paper, cigarette butts, large deposits of materials debris such as glass or metal, and any evidence of small clumps of deposited trash visible on and near.			Large amount of petroleum products, inorganic, or other debris, such as styrofoam, plastic bags, paper, cigarette butts, large glass, plastic, paper, bottles or other non-biodegradable and large clumps of solid waste or dumped and litter.										
SCORE	20	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
4. Threat to Human Health	Observable trash contains no evidence of bacteria or virus hazards such as medical waste, diapers, pet or human waste, all evidence of toxic substances such as pesticides or herbicides, no pooled water for mosquito production, or no evidence of petroleum or hazardous liquids associated with the observed level of debris.			For medical waste or evidence of toxic substances, but any presence of petroleum or toxic substances such as broken glass and sharp debris. Or presence of pooled water in trash items such as tires or childrens that could facilitate mosquito production.			Presence of one or the following: Hypodermic needles, syringes, or other medical waste; any used syringes or pet waste within the stream channel or where mammals could easily access; or wastewater; any toxic substances such as pesticides, batteries, or fluorescent light bulbs (anyway).			Presence of debris hazardous to the following: Hypodermic needles, syringes, or other medical waste; used syringes or pet waste within the stream channel or where mammals could easily access; or wastewater; any toxic substances such as pesticides, herbicides, or fluorescent light bulbs (anyway); pooled water in reach items.										
SCORE	20	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

P-24-02 5 *Rapid Trash Assessment Worksheet*

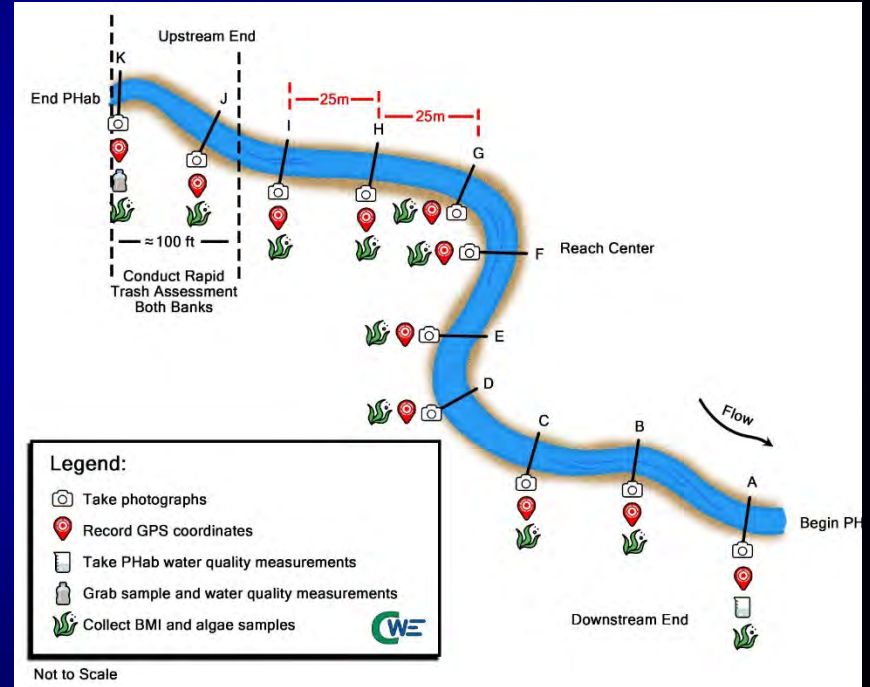
Wet-weather Events

20 total monitoring events
at each site

- Same parameters as dry-weather
- More events required based on data variability



Physical Habitat and *bioassessment*





Annual Reporting

Analyze data for trends

- Impaired Water Quality
- Impacted habitats
- Trash levels


Homeless Encampments in the Upper Santa Ana River Watershed



Submitted to:
Santa Ana Watershed Project Authority
11815 Sterling Avenue
Riverside, CA 92503

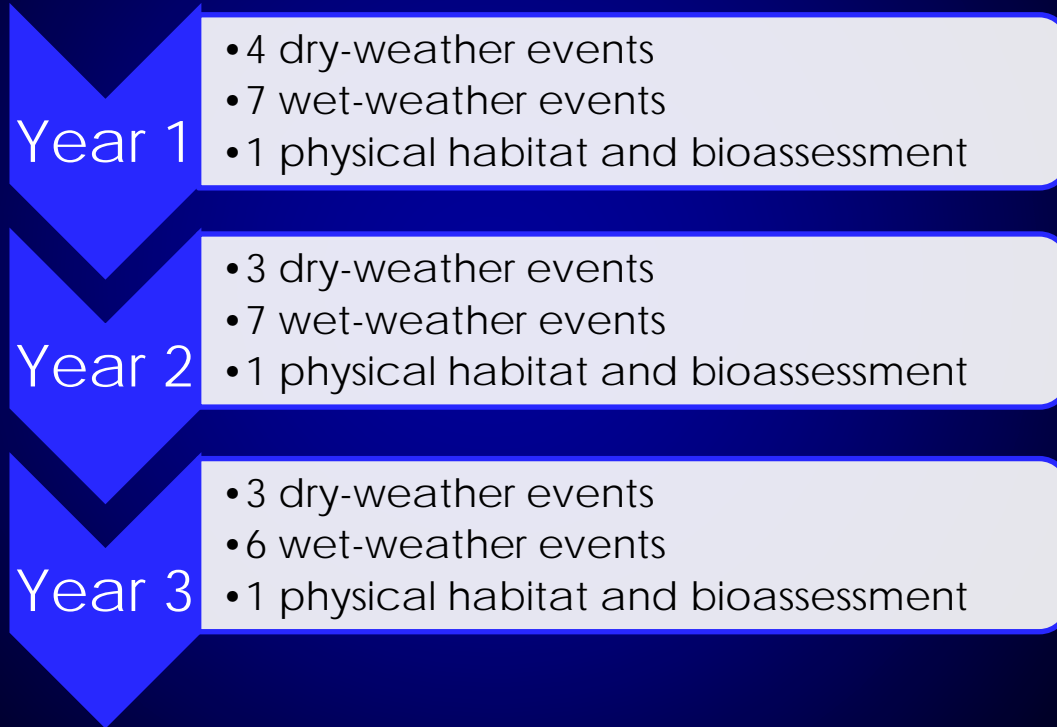
Submitted by:
GEI Consultants, Inc.
Denver, CO

CWE
Fullerton, CA



January 2020

Monitoring Program Timeline



Program Budget

<u>Task</u>	<u>Estimated Fee</u>
Kickoff meeting and project management	\$10,000
QAPP preparation	\$8,500
Preliminary field visits	
Baseline condition assessment	\$8,000
Population estimate and coordination	\$25,000
Dry-weather event sampling	\$100,000
Physical Habitat and bioassessment (PHab)	\$270,000
Wet-weather event sampling	\$350,000
Data management and annual reporting	\$75,000
Total	\$846,500

Phase One: Alternative A

- First-year monitoring requirements of four dry-weather events and rapid trash assessment
- High flow suspension of recreation standards

<u>Task</u>	<u>Estimated Fee</u>
Kickoff meeting and project management	\$3,800
QAPP preparation	\$8,500
Preliminary field visits	
Baseline condition assessment	\$8,000
Population estimate and coordination	\$8,500
Dry-weather event sampling	\$40,000
Data management and one annual report	\$20,000
Total	\$88,800

Phase One: Alternative B

- First-year monitoring requirements of four dry-weather events, rapid trash assessment, and PHab
- No trend analysis for PHab

<u>Task</u>	<u>Estimated Fee</u>
Kickoff meeting and project management	\$4,700
QAPP preparation	\$8,500
Preliminary field visits	
Baseline condition assessment	\$8,000
Population estimate and coordination	\$8,500
Dry-weather event sampling	\$40,000
Physical Habitat and bioassessment (PHab)	\$90,000
Data management and one annual report	\$22,000
Total	\$181,700

Phase Two

Expansion of Phase 1

- Conduct more dry-weather monitoring
- Conduct additional PHab sampling
- Incorporate wet-weather sampling
- Some combination of above

An aerial photograph of a river winding through a dense, green riparian forest. The river is the central focus, flowing from the foreground towards the background. The surrounding vegetation is thick and varied in shades of green. In the far distance, a range of mountains is visible under a sky filled with soft, white clouds. The overall scene is peaceful and natural.

Questions & Discussion