

SAFE CLEAN WATER PROGRAM

Lower San Gabriel River Watershed

January 10, 2023 Watershed Coordinator Update



PRESENTED BY:

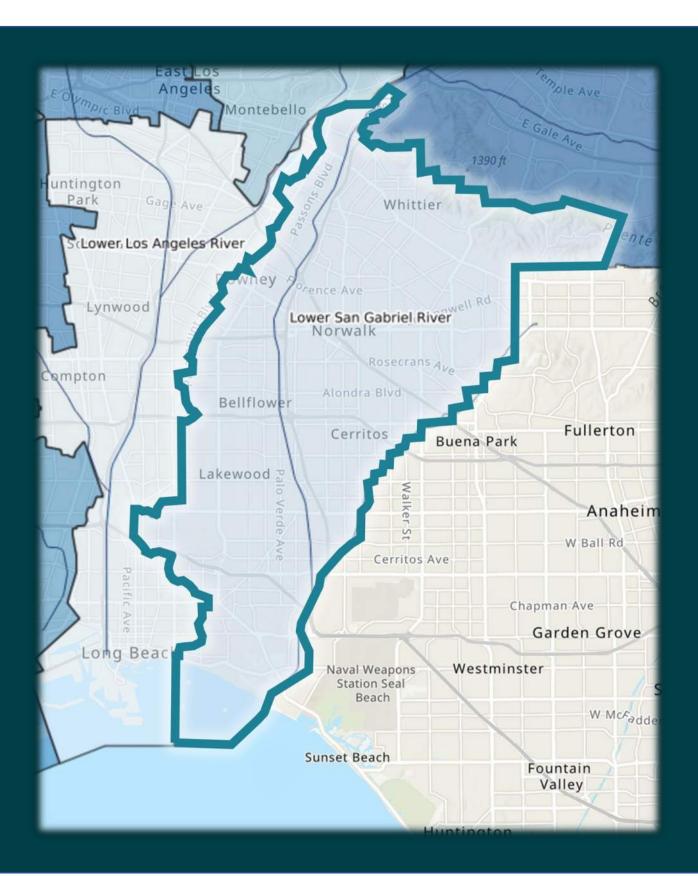
OhanaVets, Inc. Lower San Gabriel River Watershed Coordinator



LSGR - Watershed & Member Agencies

The Lower San Gabriel
River "LSGR"
Watershed Area
represents the lower
portion of the San
Gabriel River starting
at Whittier Narrows. It
extends 20 miles
ending at the Pacific
Ocean.

LSGR is in the Gateway
Region of Los Angeles
County and includes 15
cities and
unincorporated LA
County in whole or in
part.



- Artesia
- Bellflower
- Cerritos
- Downey
- Hawaiian Gardens
- La Habra Heights
- La Mirada
- Lakewood
- Long Beach
- Norwalk
- Paramount
- Pico Rivera
- Santa Fe Springs
- Signal Hill
- Whittier
- Unincorporated LA County





REGIONAL PROGRAM ANNUAL FUNDING DISTRIBUTION

The percentage of funds received by each Watershed Area is proportional to the tax revenues collected within its boundaries

LACFCD Northern Limit	ı
	ı
Santa	ı
Santa Clara River Santa Clara River	ı
	ı
	ı
	Г
Upper Los Angeles River	L
Upper San Gabriel	ı
2 River	L
North Santa	ı
Monica Bay Central	F
Santa Monica Bay	ı
	F
	ı
Lower Los Lower San	F
Lower Los Lower San Angeles Cabriel River River	ı
South Santa Monica Bay	Н
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WATERSHED NAME	2022-23 REGIONAL TAX RETURN ESTIMATES
Central Santa Monica Bay	\$17.42M
Lower Los Angeles River	\$12.72M
Lower San Gabriel River	\$16.7M
North Santa Monica Bay	\$1.83M
Rio Hondo	\$11.49M
Santa Clara River	\$5.87M
South Santa Monica Bay	\$17.58M
Upper Los Angeles River	\$38.44M
Upper San Gabriel River	\$18.78M
ANNUAL REGIONAL TOTAL:	\$140.6M

PASSED AS 'MEASURE W' IN 2018

CAPTURE IT

Increase water supply

CLEAN IT

Reduce volume of trash that reaches waterways and the ocean

MAKE IT SAFE

Eliminate toxins and chemicals from our waterways

MAKE IT FOR EVERYONE

Provide community benefits

VISION:

By modernizing our 100-year-old water system, we can better protect public health and our environment, and maximize a cleaner, locally controlled water supply.

HOW?

Through the funding of:

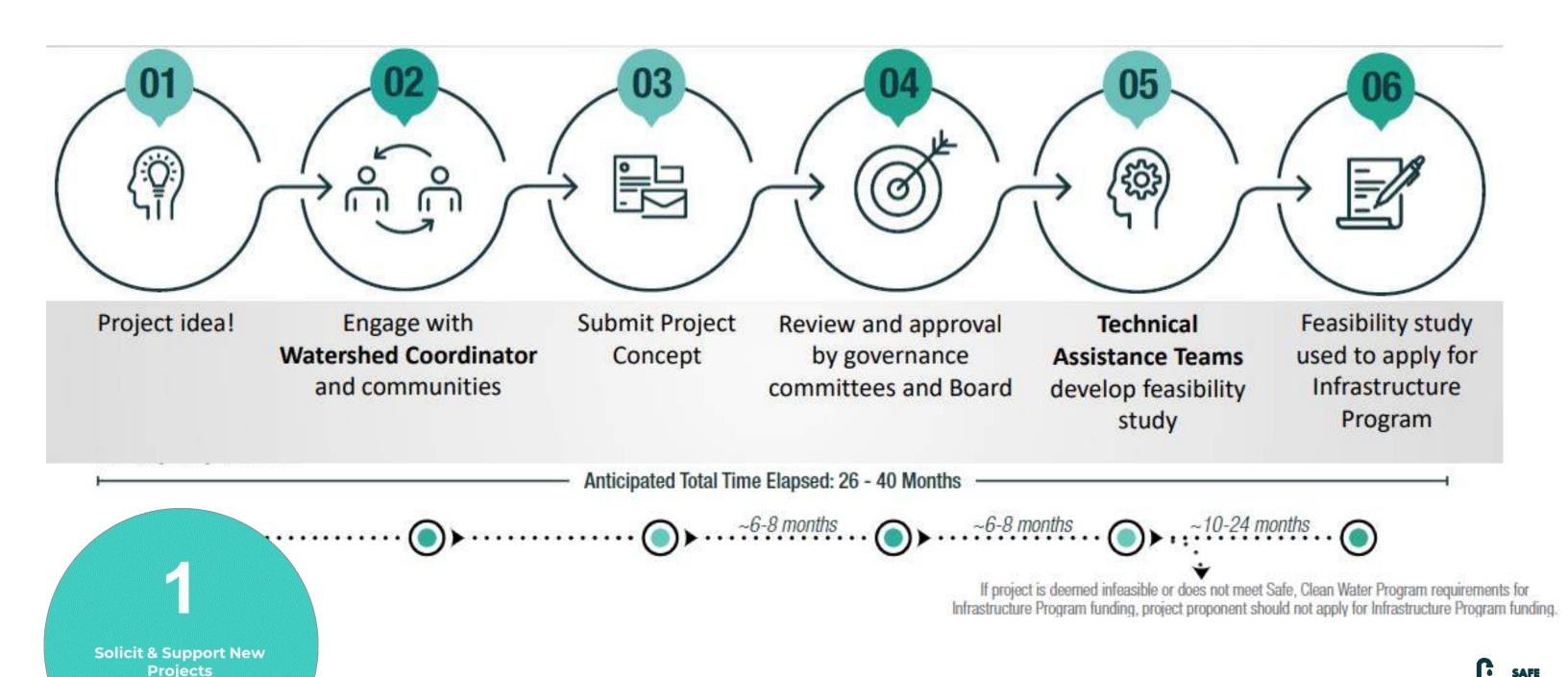
multi-benefit stormwater & urban runoff capture projects

WHO?





PROJECT DEVELOPMENT PROCESS:



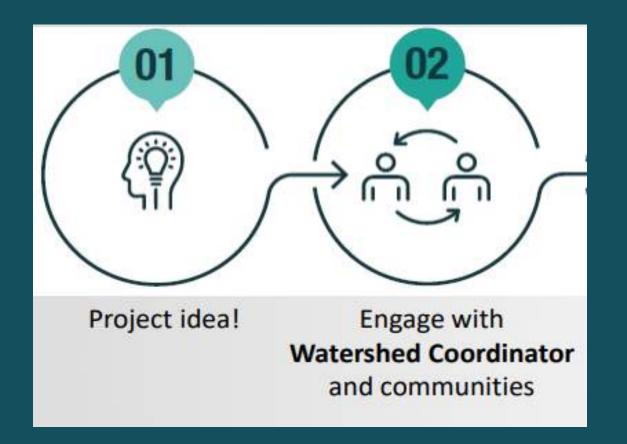
HAVE A PROJECT IDEA?

- ENGAGE WATERSHED COORDINATOR
- DEVELOP COMMUNITY ENGAGEMENT APPROACH
- DEVELOP PROJECT BENEFITS SUCH AS:

Solicit & Support New Projects

Identify parties with project ideas.











Creating new recreational opportunities

Enhancing green spaces at schools

Reducing local heat island effect



Increasing vegetation and tree cover



Workshops/Meetings/Education Events

WORKSHOPS and **MEETINGS**

- ✓ Integrated Regional Water Mgmt "IRWM" Lower SGR/Lower LAR Sub-Regional Steering Committee March
- ☐ Gateway Water Mgmt Authority Board April
- ☑ Rivers and Mountains Conservancy Board **June**
- ✓ Downey School District September 16
- ☑ Gateway Chamber Alliance **September 27**
- ☐ Infrastructure LA Initiative Presentation **September 28**
- ✓ Los Cerritos Wetlands Trust October 28
- ☑ Watertalks DAC Workshop Community Engagement **Nov 30**

Community
Engagement

Gather input on community needs that SCW projects can help fulfill



Workshops/Meetings/Education Events

EDUCATIONAL OUTREACH

- ✓ Downey Touch-a-Truck CWV Education Trailer May 7
- Sorensen Park Harvest Festival November 17
- Los Cerritos Wetlands Holiday Tour December 10

3Public Education

Educate the public about SCWF projects in their communities









Los Cerritos Wetlands Holiday Tour

December 10, 2022

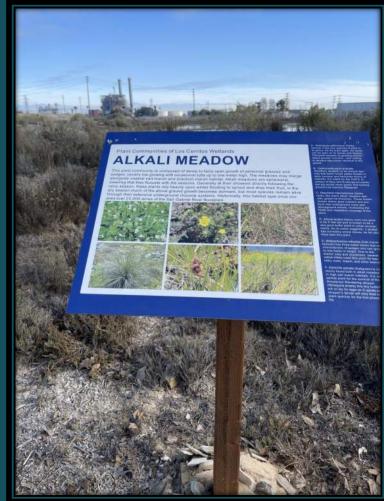






Zedler Marsh - Los Cerritos Wetlands

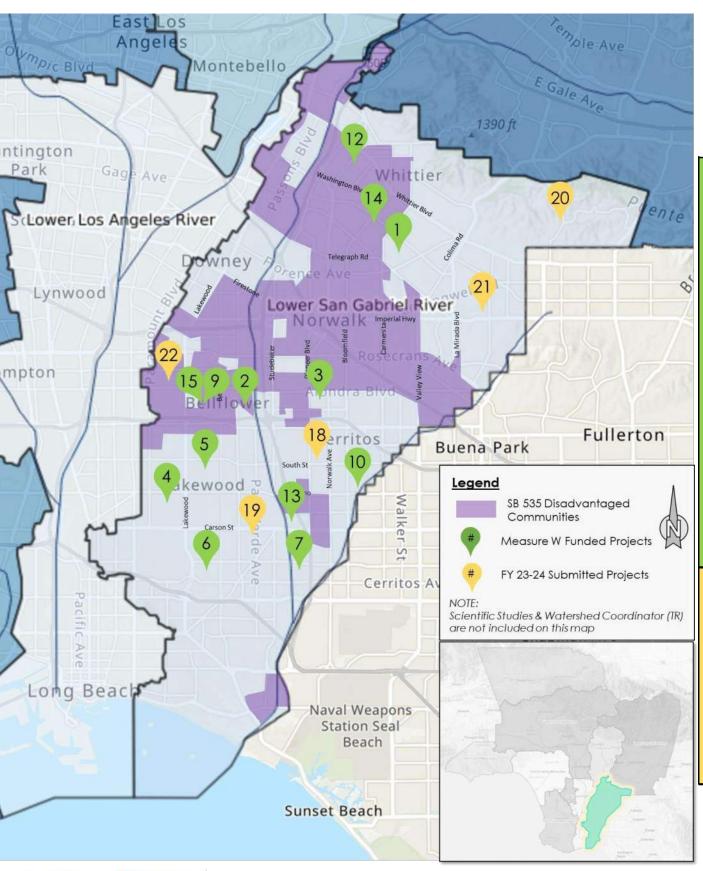








LSGR – SCWP PROJECTS FUNDED AND UNDER CONSIDERATION



	Project Name	DAC Benefit	BMP Type	— Planning/Design	S Construction	O8.M	Techncial Resource/	W Cost Share	ک Measure W Funding	SIP Year	Project Developer
	Adventure Park Multi-Benefit Stormwater Capture	N	D		\$ 13.5			\$ 15.0	\$ 13.5	20-21	Unincorp. County Area of Whittier
	2 Caruthers Park	Υ	1			\$ 0.9		\$ 13.0	\$ 0.9	20-21	Bellflower
	3 Hermosillo Park	Y	1	\$ 4.1	\$ 16.0	Ψ 0.17		4 .5.5	\$ 20.1	20-21	Norwalk
	4 Bolivar Park	Υ	- 1	·		\$ 1.3		\$ 11.0	\$ 1.3	20-21	Lakewood
	5 Mayfair Park	Υ	T			\$ 1.3		\$ 15.0	\$ 1.3	20-21	Lakewood
	6 Skylinks Golf Course at Wardlow Stormwater Capture Project	N	T	\$ 2.7	\$ 7.8				\$ 10.4	20-21	Long Beach
	7 El Dorado Regional Project	Υ	T	\$ 3.0				\$ 0.1	\$ 3.0	20-21	Long Beach
	8 Watershed Coordinator	N/A	TR				\$ 1.0		\$ 1.0	20-21	LACFCD
Funded	9 Bellflower Simms Park Stormwater Capture	Υ	T	\$ 2.1				\$ 5.6	\$ 2.1	21-22	Bellflower
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ī	11 Gateway Area Path Finding Analysis	N/A	SS				\$ 0.1		\$ 0.1	21-22	GWMA
	12 Sorensen Park Multi-Benefit	Υ	TR				\$ 0.3		\$ 0.3	21-22	LA County PW
	13 Lakewood Equestrian Center	Y	T	\$ 1.1				\$ 0.4	\$ 1.1	22-23	Lakewood
	14 York Field Stormwater Capture	Υ		\$ 1.9				\$ 0.6	\$ 1.9	22-23	Whittier
	15 Bellflower Simms Park Stormwater Capture	Υ	T		\$ 13.7			\$ 0.9	\$ 13.7	22-23	Bellflower
	Gateway Area Path Finding Analysis Ph 2	N/A	SS				\$ 0.2		\$ 0.2	22-23	GWMA
	17 Microplastics in LA County Stormwater	N/A	SS				\$ 0.2	\$ 0.1	\$ 0.2	22-23	Dr. A. Gray, UC Riverside
	SubTotal			\$ 17.3	\$ 51.0	\$ 3.4	\$ 1.9		\$ 73.5		
	18 Artesia Park Urban Runoff Capture 10 Heartwell Park at Palo Verde Channel	Υ	T	\$ 1.6					\$ 1.6	23-24	Artesia
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24 icati	Treament and Reuse	Υ	BF		\$ 0.7				\$ 0.7	23-24	Heights
FY 23-24 Project Applications	21 La Mirada Creek Park	N	BR		\$ 5.8			\$ 1.0	\$ 5.8	23-24	La Mirada
	22 Progress Park Stormwater Capture	Υ	I	\$ 2.2				\$ 2.2	\$ 2.2	23-24	Paramount
	23 Regional Pathogen Reduction	N/A	SS				\$ 1.0		\$ 1.0	23-24	GWMA
	24 Targeted Human Waste Source Reduction Strategy	N/A	SS				\$ 0.5		\$ 0.5	23-24	GWMA
	Subtotal			\$ 5.3	\$ 8.3	\$ -	\$ 1.5		\$ 15.0		
	Total			\$ 22.6	\$ 59.3	\$ 3.4	\$ 5.2		\$ 88.6		
	LEGEND					<u> </u>			-		

LEGEND

BMP Type: BF=Biofiltration; BR=Bioretention; D= Diversion to Sanitary Sewer; I = Infiltration Facility; T = Treatment Facility; TR = Technical Resource: SS = Scientific Study

Located in SB 535 Disadvantaged Communities

ARTESIA PARK URBAN RUNOFF CAPTURE PROJECT



Regional urban runoff capture facility located at Artesia Park beneath the open space of the existing park surface.

City of Artesia PROJECT LEAD:

Treatment Facility BMP TYPE:

LOCATED IN DISADVANATED No **COMMUNITY(DAC)?**

BENEFITS DAC?

Yes

SCORING COMMITTEE

SCORE

TOTAL MEASURE W \$1,568,876 **FUNDING REQUEST:**

61

FUNDING YEAR

AMOUNT

Year 1

\$1,568,876 (Design)

COST SHARE?

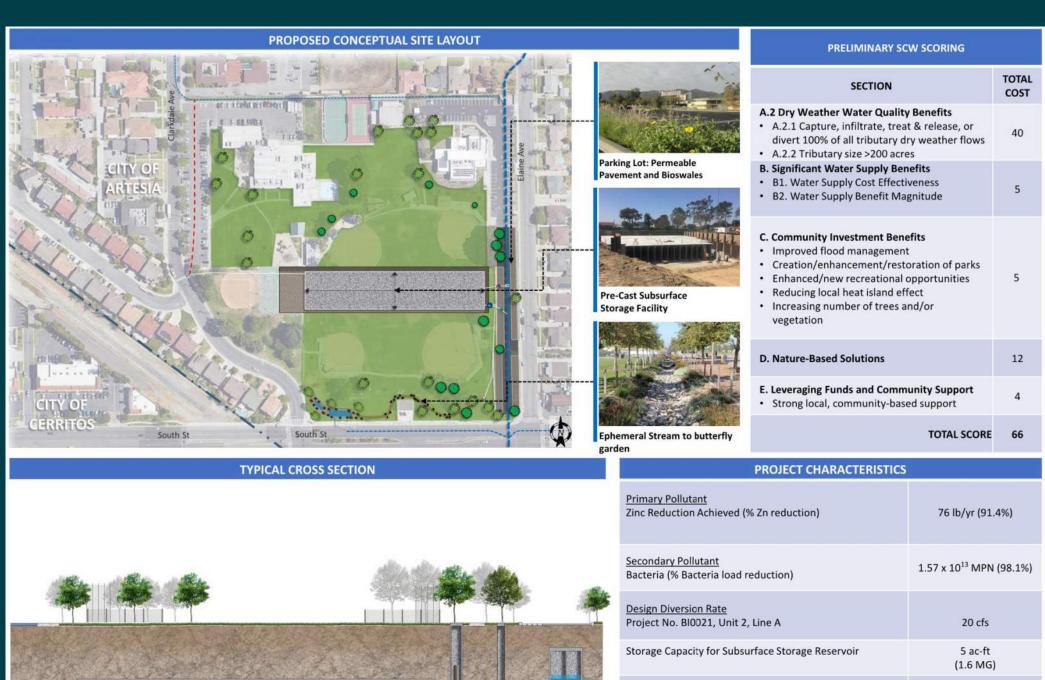
No

TOTAL CONSTRUCTION COST:

\$13,173,880

PROJECT FEATURES:

- Captures water from 585 acres
- **Nature-Based Parking Lot Enhancements**
- **Improve Flood Management**
- **Enhance/Restore Park Space**
- **Enhance Recreational Opportunities**
- Reduce heat local island Effect
- **Increase Tree Count**



24-Hour Capacity

Construction Cost Estimate

20.6 ac-ft

\$11,785,345

LA MIRADA CREEK PARK PROJECT



Removal of 2,500 feet concrete low-flow channel. Naturalization of existing La Mirada Creek Park to capture 168 AFY of dry weather flow.

PROJECT LEAD: City of La Mirada

61

\$5,752,200

\$1,008,000

\$5,752,200 (Const)

AMOUNT

Bioretention **BMP TYPE:**

LOCATED IN DISADVANATED No **COMMUNITY(DAC)?**

BENEFITS DAC? No

SCORING COMMITTEE

SCORE:

TOTAL MEASURE W **FUNDING REQUEST:**

FUNDING YEAR

Year 2

COST SHARE?

TOTAL CONSTRUCTION COST:

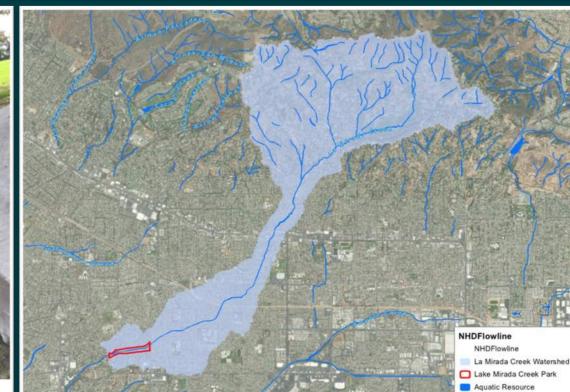
\$5,752,200

PROJECT FEATURES:

- Captures water from 2,949 acres
- **Improve Flood Management**
- **Enhance/Restore Park Space**
- **Improves Public Access to Waterways**
- **Enhance Recreational Opportunities**
- **Reduce Heat Local Island Effect**
- **Increase Tree Count**









HEARTWELL PARK AT PALO VERDE CHANNEL STORMWATER CAPTURE PROJECT



Regional stormwater capture and filtration/sewer diversion facility located at Heartwell Park beneath the

open space of the existing park.

City of Long Beach **PROJECT LEAD:**

Treatment Facility BMP TYPE:

LOCATED IN

DISADVANATED No

COMMUNITY(DAC)?

BENEFITS DAC? No

SCORING COMMITTEE

TOTAL MEASURE W

FUNDING REQUEST:

SCORE:

\$3,313,865

FUNDING YEAR

AMOUNT

\$1,485,048 (Design) Year 1

61

\$1,828,817 (Phase 1 Const.) Year 2

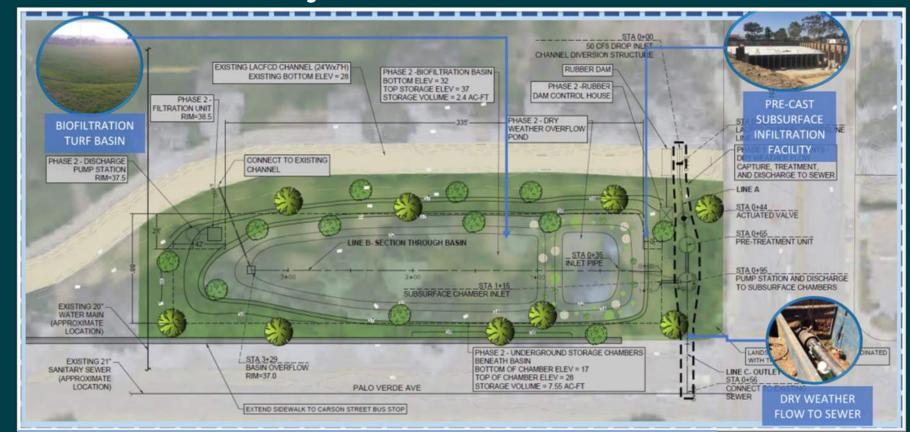
COST SHARE? No

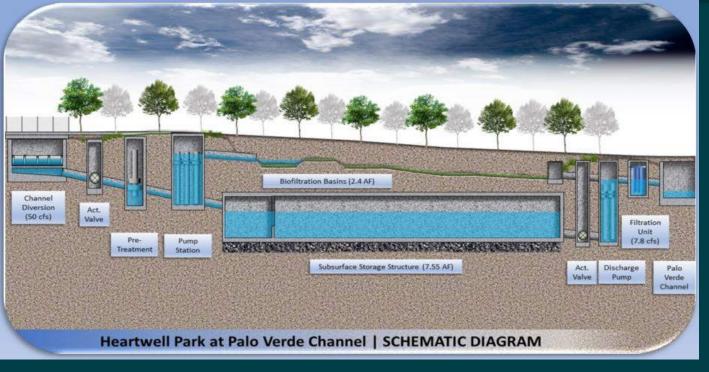
TOTAL CONSTRUCTION \$11.956.920

COST:

PROJECT FEATURES:

- Captures water from 2,099 acres
- **Improve Flood Management**
- **Enhance/Restore Park Space**
- **Improves Public Access to Waterways**
- **Enhance Recreational Opportunities**
- **Reduce Heat Local Island Effect**
- **Increase Tree Count**





SAFE CLEAN WATER

LA HABRA HEIGHTS STORMWATER TREATMENT AND REUSE SYSTEM THE PARK HACIENDA ROAD

The project aims to capture, infiltrate or treat and store stormwater runoff from Hacienda Park and nearby

catchments for beneficial reuse.

City of La Habra Heights PROJECT LEAD:

Biofiltration BMP TYPE:

LOCATED IN

DISADVANATED No

COMMUNITY(DAC)?

BENEFITS DAC? Yes

SCORING COMMITTEE 65

SCORE:

TOTAL MEASURE W \$705.348

FUNDING REQUEST: FUNDING YEAR AMOUNT

> \$289,069 (Design & Const.) Year 1

\$416,279 (Const.) Year 2

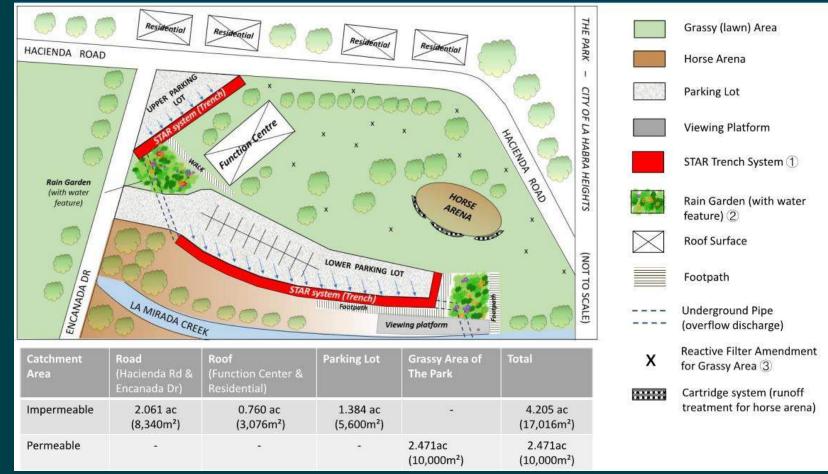
\$236,000 **COST SHARE?**

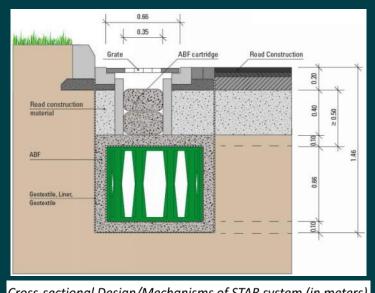
TOTAL CONSTRUCTION \$520.348

COST:

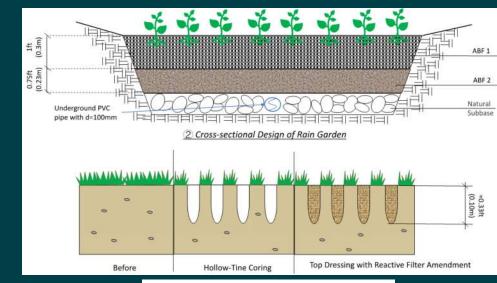
PROJECT FEATURES:

- Captures water from 4.2 acres
- **Improve Flood Management**
- **Enhance/Restore Park Space**
- **Improves Public Access to Waterways**
- **Enhance Recreational Opportunities**
- **Reduce Heat Local Island Effect**
- **Increase Tree Count**









Reactive Filter Amendment for Grassy Area

PROGRESS PARK STORMWATER CAPTURE PROJECT



Regional stormwater capture and infiltration/filtration facility, new soccer fields, and pedestrian

walking path at Progress Park.

PROJECT LEAD: City of Paramount

BMP TYPE: Infiltration Facility

LOCATED IN

DISADVANATED Yes

COMMUNITY(DAC)?

BENEFITS DAC? Yes

SCORING

COMMITTEES SCORE 73

TOTAL MEASURE W \$2,161,744

AMOUNT

No

Year 1

FUNDING YEAR

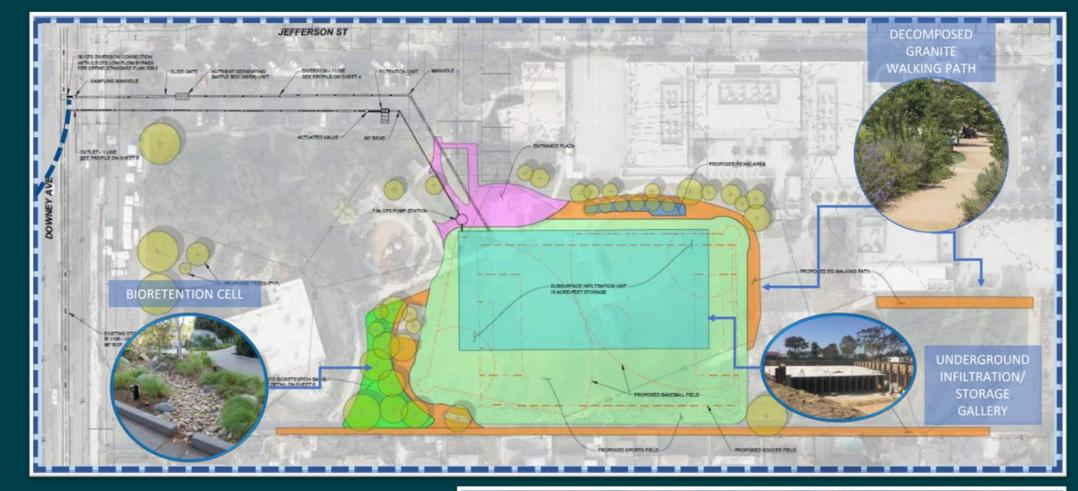
\$2,161,744 (Design)

COST SHARE?

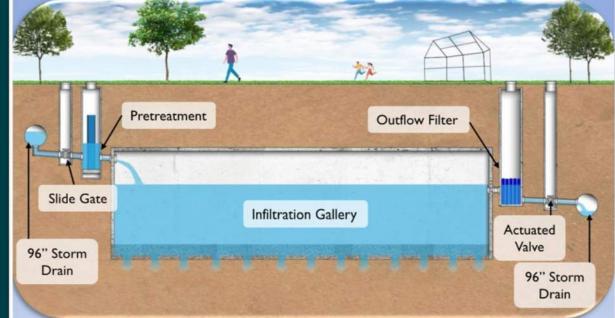
CONSTRUCTION COST: \$19,971,243

PROJECT FEATURES:

- Captures water from 729 acres
- Improve Flood Management
- Enhance/Restore Park Space
- Enhance Recreational Opportunities
- Enhance Green Space at School
- Reduce Heat Local Island Effect
- Increase Tree Count







REGIONAL PATHOGEN REDUCTION STUDY



A study to leverage recent research to produce strategies that prioritize the highest risk sources of human pathogens, protect public health more effectively and efficiently, and can be incorporated into Water Management Programs and Enhanced Watershed Management Programs (E/WMP).

PROJECT LEAD: Gateway Water

Management Authority

LSGR, Rio Hondo,

WATERSHED AREAS: Central Santa Monica Bay,

Upper Los Angeles River

TOTAL MEASURE W
FUNDING REQUEST FOR
ALL WATERSHED:

\$5,103,473.48

MEASURE W FUNDING REOUEST FROM LSGR

\$ 1,007,287.12

WATERSHED:

FUNDING YEAR AMOUNT

Year 1 \$ 44,169.54

Year 2 \$ 309,186.78

Year 3 \$ 265,017.24

Year 4 \$ 288,184.85

Year 5 \$ 100,728.71

COST SHARE? No

Measure W Regional Watershed Areas WMP/EWMP Groups Addressing Bacteria TMDLs North Santa Monica Bay Beach Cities Z East San Gabriel River Central Santa Monica Bay Los Angeles River Upper Reach 2 Lower Los Angeles River Lower San Gabriel River Malibu Creek Marina Del Rey North Santa Monica Bay ZZZ Palos Verdes Peninsula Rio Hondo/SGR Water Quality Santa Clara River Santa Monica Bay J2J3 Santa Monica Bay JG7 Upper Los Angeles River Upper San Gabriel River WMP/EWMP Groups with Bacteria as a Water Quality Priority Alamitos Bay/Los Cerritos Channe Dominguez Channel Los Cerritos Channel

Figure 1. Watershed Management Program/Enhanced Watershed Management Program Groups
Addressing Bacteria and SCWP Watershed Areas

TECHNICAL STUDY OUTCOME:

- Determine sources of the highest risk to human health.
- Identifying beaches and inland waterbodies within the MS4 Permit area where risk to human health is higher so that E/WMPs can target those areas earlier during the implementation process.
- Identify management actions to address high-risk sources and areas more effectively.

TARGETED HUMAN WASTE SOURCE REDUCTION STRATEGY TO ADDRESS BACTERIA RELATED COMPLIANCE OBJECTIVES FOR THE LOS CERRITOS CHANNEL

Data-driven framework to guide and prioritize source ID and abatement efforts, focusing on reducing sources of human waste for bacteria.

PROJECT LEAD: Gateway Water Management Authority

TOTAL MEASURE W \$475,000

FUNDING YEAR AMOUNT

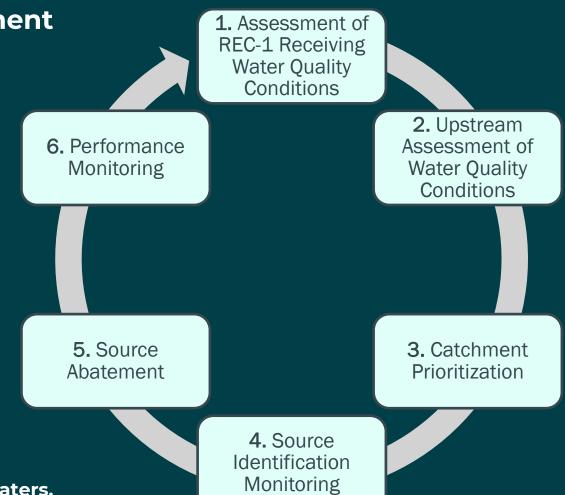
Year 1 \$ 175,000

Year 2 \$ 300,000

COST SHARE? No

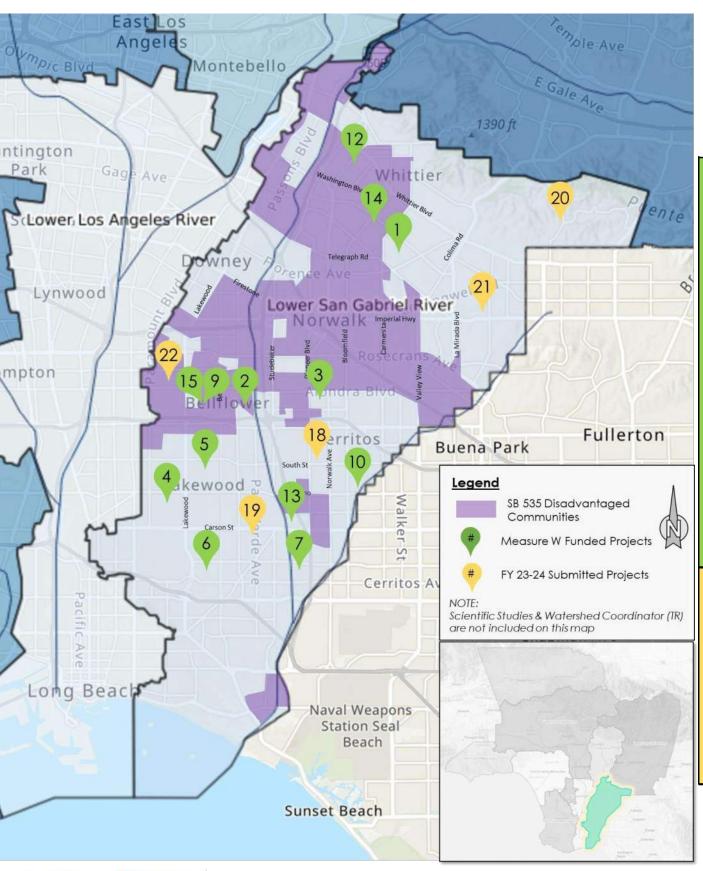
TECHNICAL STUDY OUTCOME:

- Develop a risk-based framework to expeditiously reduce public health risks and demonstrate compliance with bacteria objectives.
- Characterize highest priority areas in the watershed to invest in resources based on water quality conditions, potential sources of human waste, and influence on impaired receiving waters.
- Prioritize identification and abatement of human sources of waste.
- Identify recommended abatement strategies to reduce the recreational health risk in downstream receiving waters progressing towards the bacteria compliance objectives.
- Utilize recent scientific advancements in development of human markers and diagnostic tools for focused source control efforts
- Collect paired fecal indicator bacteria and human marker data to support evaluation of water quality conditions and human health risk levels.
- Educate and outreach to stakeholders on bacteria issues.
- Provide technical resources to inform and be leveraged by similar efforts in region.



SAFE

LSGR – SCWP PROJECTS FUNDED AND UNDER CONSIDERATION

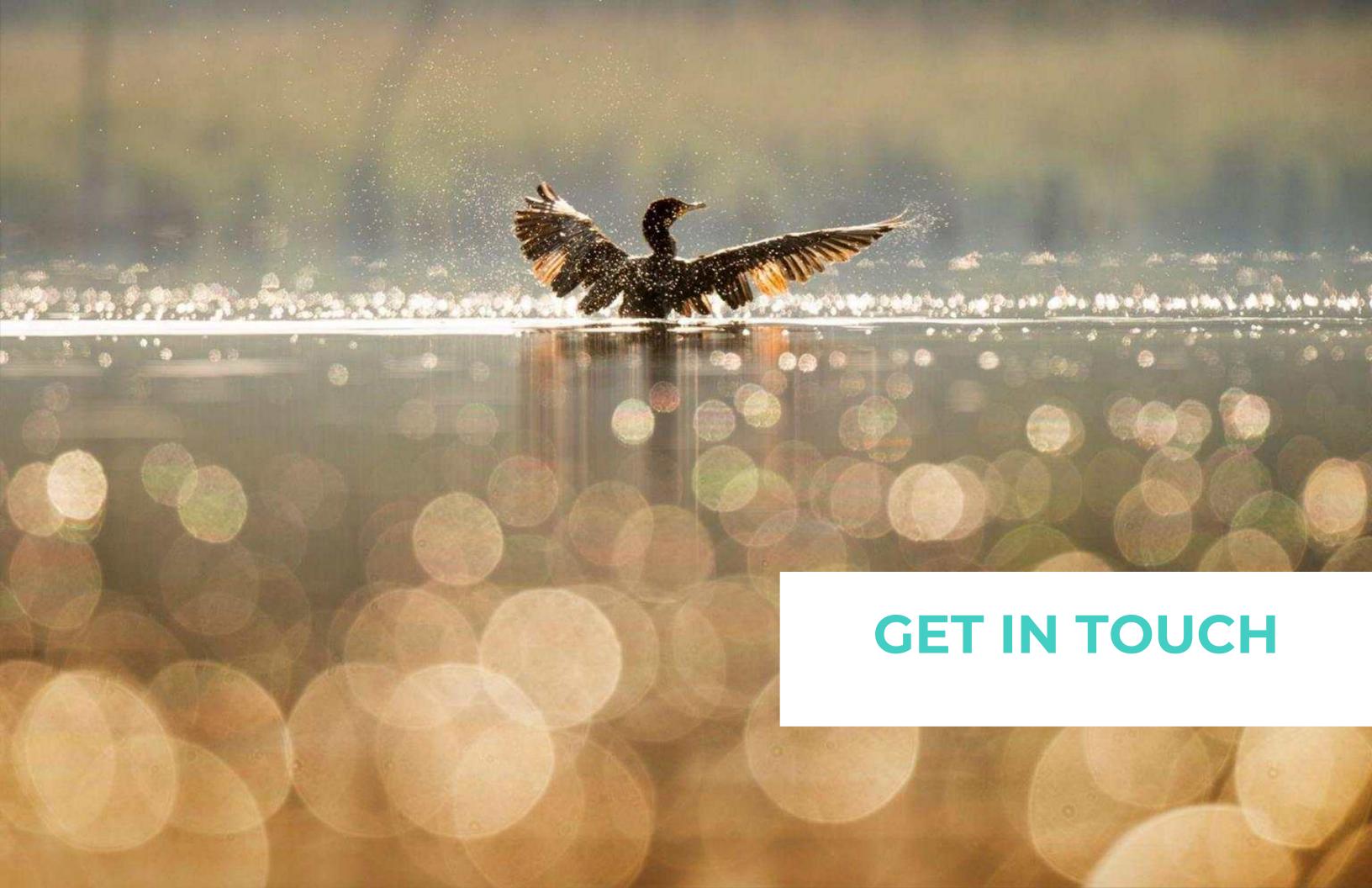


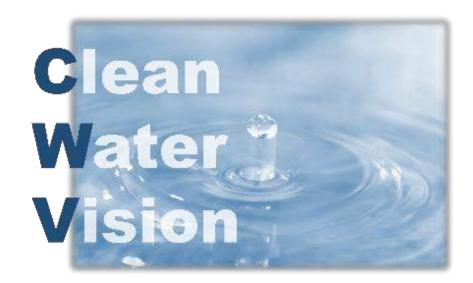
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	17 Microplastics in LA County Stormwater	N/A	SS				\$ 0.2	\$ 0.1	\$ 0.2	22-23	Dr. A. Gray, UC Riverside
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	LEGEND					<u> </u>			-		

LEGEND

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Located in SB 535 Disadvantaged Communities





Community Outreach Ideas?

Project Ideas?

Partnership Ideas?

Get Involved! Share your ideas with us!

Sign up for <u>Lower San Gabriel River</u>
Watershed Area Information and Events!

Visit us at: cleanwatervision.com

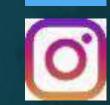
Email us at: lsgr@ohanavets.com

Follow us on social media!

@lsgrwatershed









TAKE OUR 2 MINUTE COMMUNITY NEEDS SURVEY

What water issues concern you the most?

What does your community need more of?

What outdoor areas need improvement?

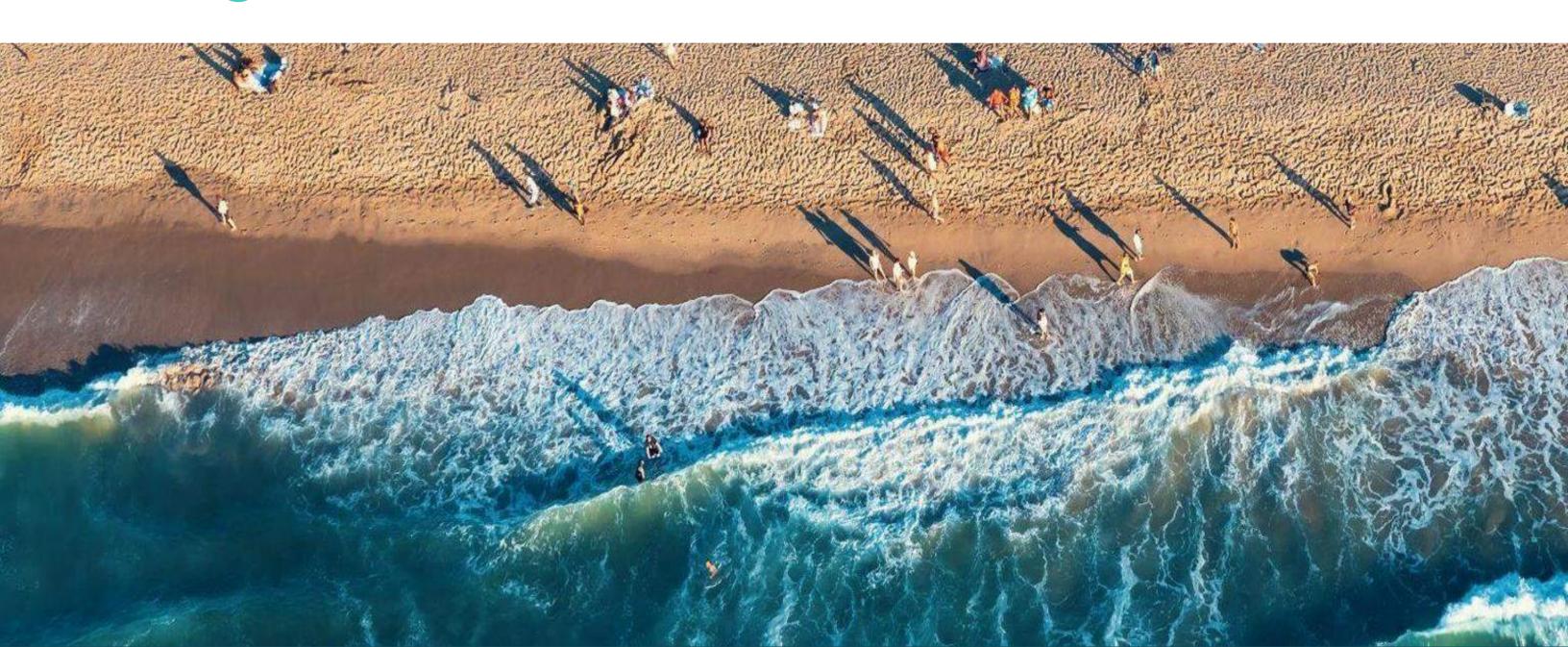
LSGR Watershed Area Community Survey

www.cleanwatervision.com





QUESTIONS? DISCUSSION?



THE END

