

SAFE CLEAN WATER PROGRAM

Lower San Gabriel
River Watershed

November 8, 2022 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



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				





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:

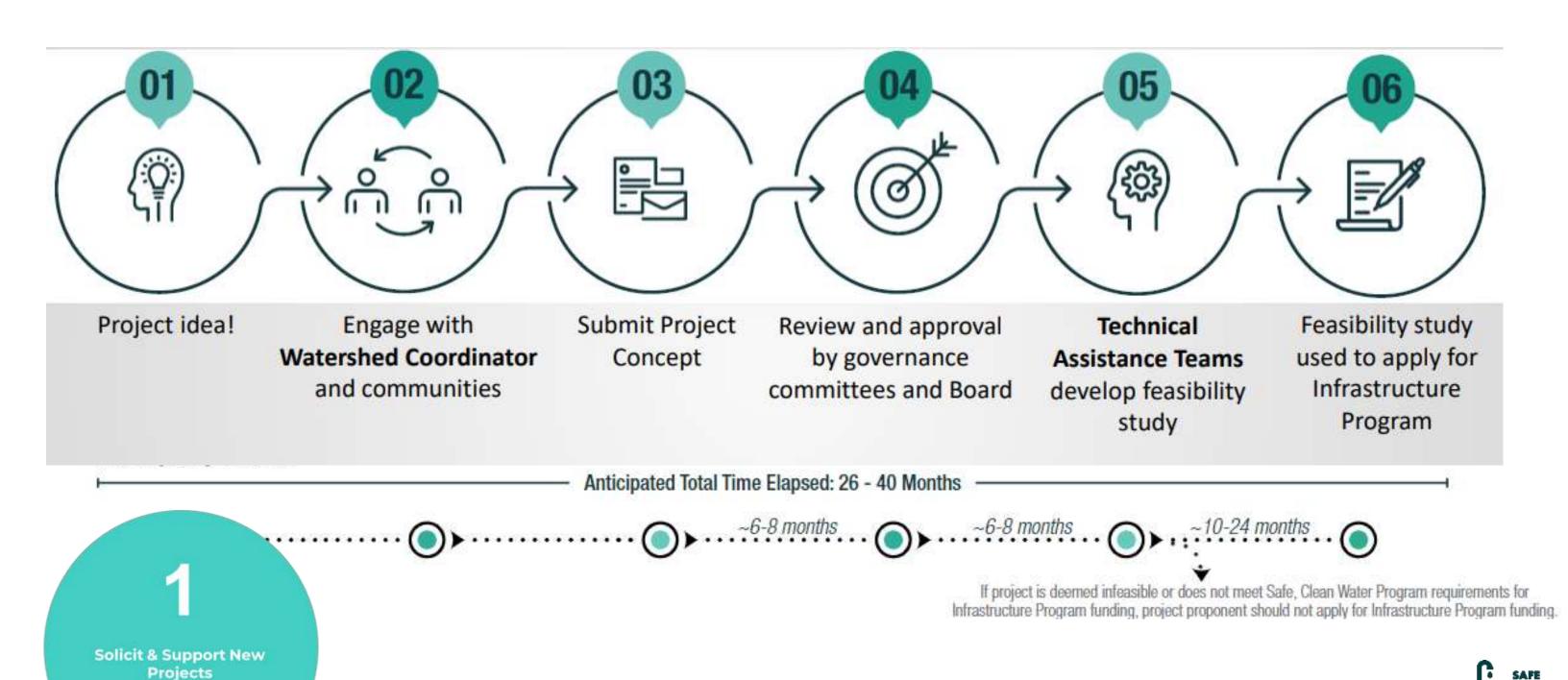
multi-benefit stormwater & urban runoff capture projects

WHO?





PROJECT DEVELOPMENT PROCESS:

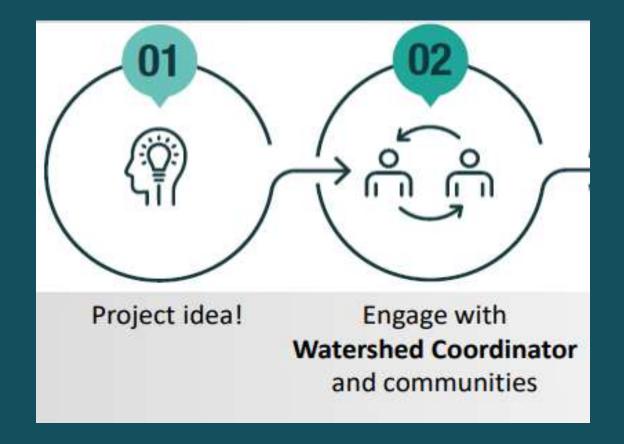


HAVE A PROJECT IDEA?

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

Solicit & Support New Projects
Identify parties with project ideas.

STEPS: 1 & 2





- Enhancing natural habitat and wetlands
- Increasing public access to waterways
- Creating new recreational opportunities
- Enhancing green spaces at schools
- Reducing local heat island effect



Increasing vegetation and tree cover

PROJECT DEVELOPMENT PROCESS:

Sorensen Park Multi-Benefit Stormwater Capture Project

LSGR INFRASTRUCTURE PROJECT

SORENSEN PARK MULTI-BENEFIT STORMWATER CAPTURE PROJECT

Feasibility study involving analysis of stormwater capture BMPs at Sorensen Park in the unincorporated

West Whittier-Los Nietos area.

PROJECTLEAD: LA County Public Works

WATERSHED: LSGR

DISADVANTAGED Yes

COMMUNITY PROJECT?

Funding Year Amount

2021-2022 \$300K (Tech. Resource)

POTENTIAL PROJECT BENEFITS:

- Increase Water Supply
- Improves Stormwater Quality
- Enhances Habitat or Park Space
- Increases Shade and Trees
- Reduces Heat Island Effects
- Improves Pacreational Amenities
- In astructure

1

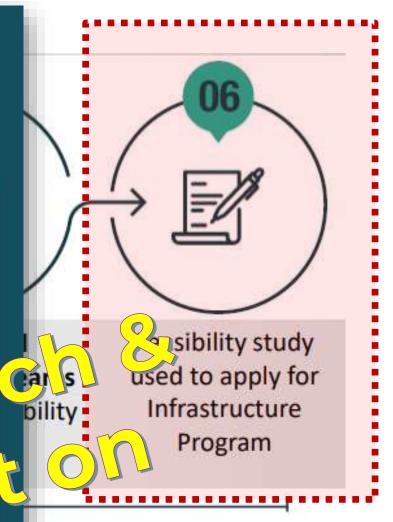
Solicit & Support New Projects

identify parties with project ideas.



roject Components:

- Underground strange te sto law and infiltration gallery beneather the story of the story beneather the story of the s
 - A an bill respective turf area, and esta respectively
- Re-oriented basketball qui s
- Permeable ave not kingst





es not meet Safe, Clean Water Program requirements for oponent should not apply for Infrastructure Program funding.





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 Workshop Community Engagement Nov 30

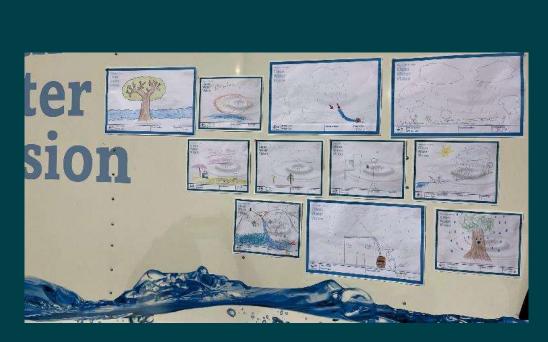




Workshops/Meetings/Education Events

EDUCATIONAL OUTREACH

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











Prioritization Criteria WASC Survey

- LSGR WASC requested development of a survey for WASC Members
 - Goal: Assist LSGR WASC in developing project prioritization criteria
- Survey open to WASC Members from 9/20/22 10/3/22
 - Only one response per appointed SC seat requested
 - 16 of 17 Seats responded
 - Anonymous survey results distributed to WASC on 10/4/22
- Survey included 5 categories of questions
 - Minimum Catchment Area
 - Project Size Definitions
 - Funding Match
 - Reserving Funds
 - Funding Caps

Lower San Gabriel River Watershed Area Steering Committee "LSGR WASC"



October 2022 Prioritization Criteria Survey Results

At the request of the LSGR WASC, a survey was developed and distributed to the LSGR WASC. Only one response per appointed Steering Committee seat was requested (i.e., Steering Committee Primary or Alternate Member - not both).

The results of the survey are intended to inform the development of prioritization criteria for use by the LSGR WASC when developing the Stormwater Investment Plan to meet the priorities of the LSGR watershed area. Any LSGR-specific criteria developed would be used to evaluate projects deemed eligible by the Safe Clean Water Program (SCWP) scoring criteria.

A total of 16 responses was received.



SAFE CLEAN Highlights of WASC Consensus on Survey Questions WATER

MINIMUM CATCHMENT AREA?							
Should Minimum Catchment Area for Projects be Considered?	Consideration will be on a case-by-case basis						
PROJECT SIZE DEFINITIONS							
Small-sized Project Definition?	Construction Costs less than \$1M						
Medium-sized Project Definition?	Construction Costs between \$1M to \$10M						
Large-sized Project Definition?	Construction Costs over \$10M						



SAFE CLEAN Highlights of WASC Consensus on Survey Questions WATER

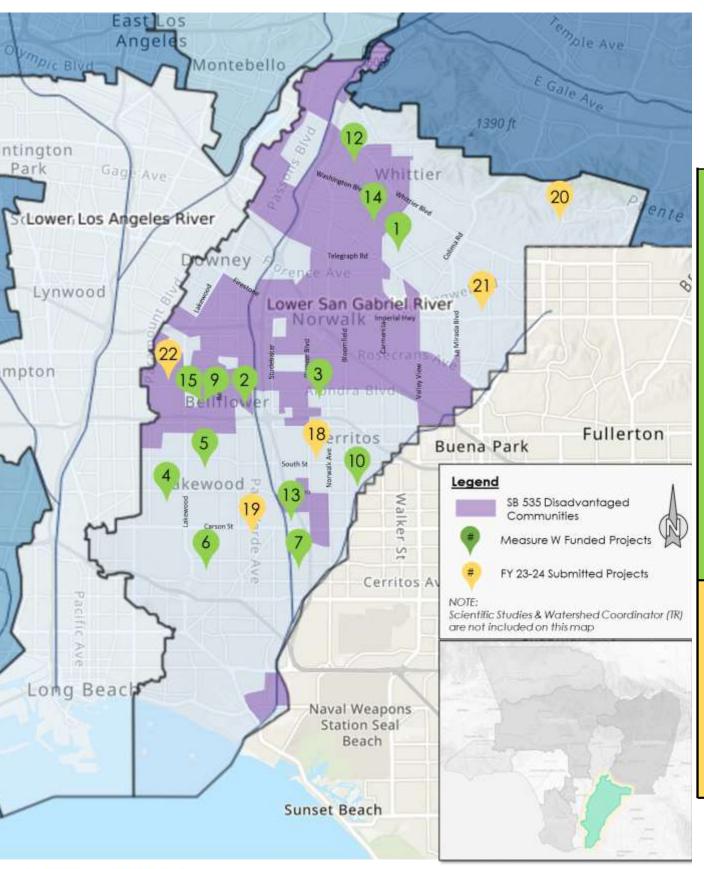
FUNDING MATCH							
Projects which prioritize Nature-Based Solutions	Consideration will be on a case-by-case basis; WASC requests good faith effort to find funding match						
Projects with DAC benefits	Consideration will be on a case-by-case basis; WASC requests good faith effort to find funding match						
Small-sized Projects (less than \$1M)	Request 10% minimum funding match						
Medium-sized Projects (\$1M to \$10M)	Request 15% minimum funding match						
Large-sized Projects (>\$10M)	Request 20% minimum funding match						



SAFE CLEAN Highlights of WASC Consensus on Survey Questions WATER

RESERVING FUNDS						
Reserving funds for Small-sized Projects	Reserve \$1.5M for Small-sized Projects each year; if reserved funds are not needed in any given year, they will be applied to other eligible projects					
Reserving funds for O&M Funding	To Be Determined					
FUNDING CAPS						
Funding Award Caps for Construction Project requests?	No maximum funding cap					
Funding Award Cap for O&M requests?	To Be Determined					

LSGR – SCWP PROJECTS FUNDED AND UNDER CONSIDERATION



							\		D		
	Project Name	DAC Benefit	BMP Type	Planning/Design	Construction	O&M	Techncial Resource Scientific Study	Cost Share	Measure W Funding	SIP Year	Project Developer
				\$M	\$M	\$M	\$M	\$M	\$M		
	1 Adventure Park Multi-Benefit Stormwater Capture	Z	О		\$ 13.5			\$ 15.0	\$ 13.5	20-21	Unincorp. County Area of Whittier
	2 Caruthers Park	Υ	-			\$ 0.9		\$ 13.0	\$ 0.9	20-21	Bellflower
	3 Hermosillo Park	Y	- 1	\$ 4.1	\$ 16.0				\$ 20.1	20-21	Norwalk
	4 Bolivar Park	Υ	1			\$ 1.3		\$ 11.0	\$ 1.3	20-21	Lakewood
nanio.	5 Mayfair Park	Υ	T			\$ 1.3		\$ 15.0	\$ 1.3	20-21	Lakewood
	6 Stylinks Golf Course at Wardlow Stormwater Capture Project	N	T	\$ 2.7	\$ 7.8				\$ 10.4	20-21	Long Beach
	7 El Dorado Regional Project	Y	T	\$ 3.0				\$ 0.1	\$ 3.0	20-21	Long Beach
	8 Watershed Coordinator	N/A	TR				\$ 1.0		\$ 1.0	20-21	LACFCD
	9 Bellflower Simms Park Stormwater Capture	Υ	T	\$ 2.1				\$ 5.6	\$ 2.1	21-22	Bellflower
5	10 Cerritos Sports Complex	Υ	T	\$ 2.4					\$ 2.4	21-22	Cerritos
	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	ı	\$ 1.9				\$ 0.6	\$ 1.9	22-23	Whittier
	15 Bellflower Simms Park Stormwater Capture Gateway Area Path Finding Analysis	Υ	T		\$ 13.7			\$ 0.9	\$ 13.7	22-23	Bellflower
	Ph 2	N/A	SS				\$ 0.2		\$ 0.2	22-23	GWMA Dr. A. Gray,
	17 Micropidatics in LA Coonly Stormwater	N/A	SS				\$ 0.2	\$ 0.1	\$ 0.2	22-23	UC Riverside
	SubTotal			\$ 17.3	\$ 51.0	\$ 3.4	\$168.7		\$ 73.5		
	18 Artesia Park Urban Runoff Capture	Υ	Т	\$ 1.6					\$ 1.6	23-24	Artesia
Project Applications	19 Heartwell Park at Palo Verde Channel Stormwater Capture	N	T	\$ 1.5	\$ 1.8				\$ 3.3	23-24	Long Beach
	20 La Habra Heights Stormwater Treament and Reuse	Υ	BF		\$ 0.7				\$ 0.7	23-24	La Habra Heights
	21 La Mirada Creek Park	N	BR		\$ 5.8			\$ 1.0	\$ 5.8	23-24	La Mirada
	22 Progress Park Stormwater Capture	Υ	1	\$ 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	\$ 3.3		\$ 88.6		
						<u> </u>	ı				

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

PRELIMINARY SCORE:

66

TOTAL MEASURE W **FUNDING REQUEST:**

\$1,568,876

FUNDING YEAR

AMOUNT

Year 1

\$1,568,876 (Design)

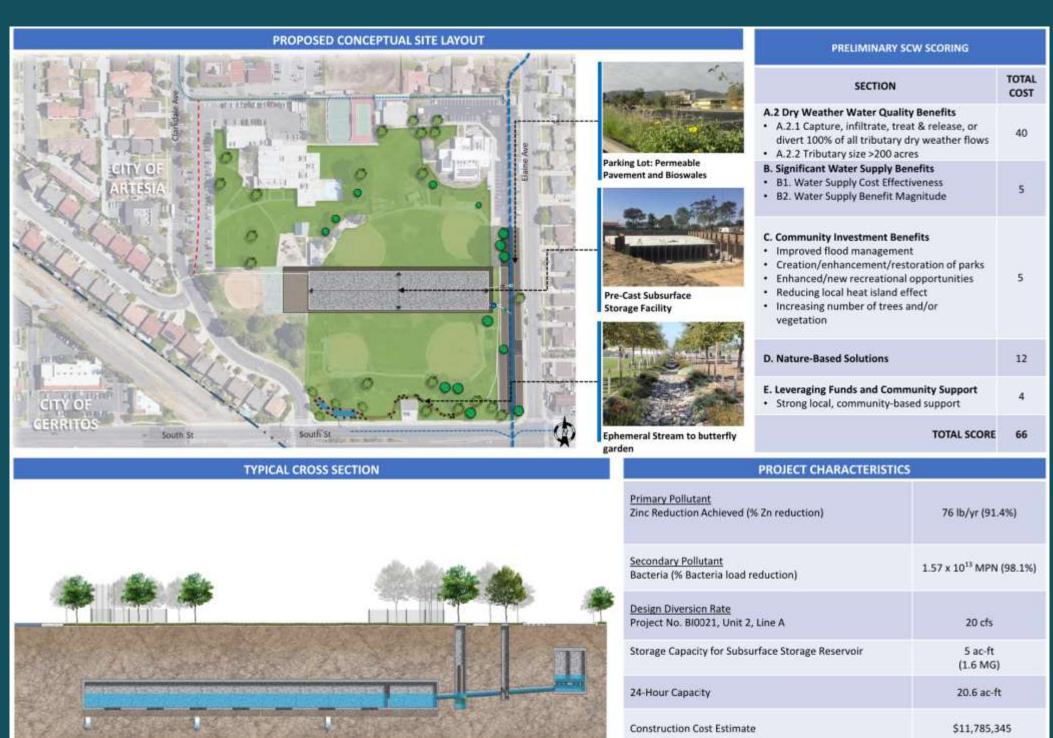
COST SHARE?

No

TOTAL CONSTRUCTION COST:

\$13,173,880

- 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



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

BMP TYPE: Bioretention

LOCATED IN
DISADVANATED No
COMMUNITY(DAC)?

BENEFITS DAC? No

PRELIMINARY SCORE: 75

TOTAL MEASURE W \$5,752,200

FUNDING YEAR

Year 2 \$5,752,200 (Const)

COST SHARE? \$1,008,000

TOTAL CONSTRUCTION COST:

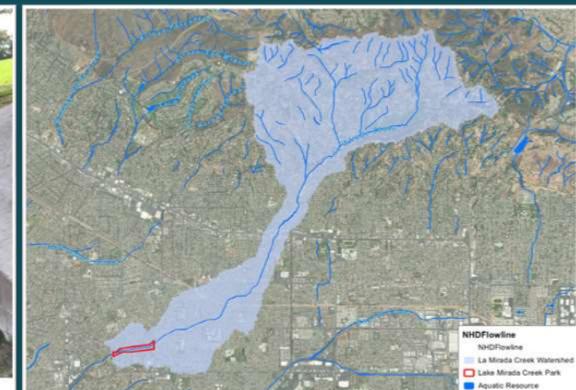
\$5,752,200

AMOUNT

- 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.

PROJECT LEAD: City of Long Beach

BMP TYPE: Treatment Facility

LOCATED IN

DISADVANATED No

COMMUNITY(DAC)?

BENEFITS DAC?

PRELIMINARY SCORE: 69

TOTAL MEASURE W \$3,313,865

FUNDING YEAR AMOUNT

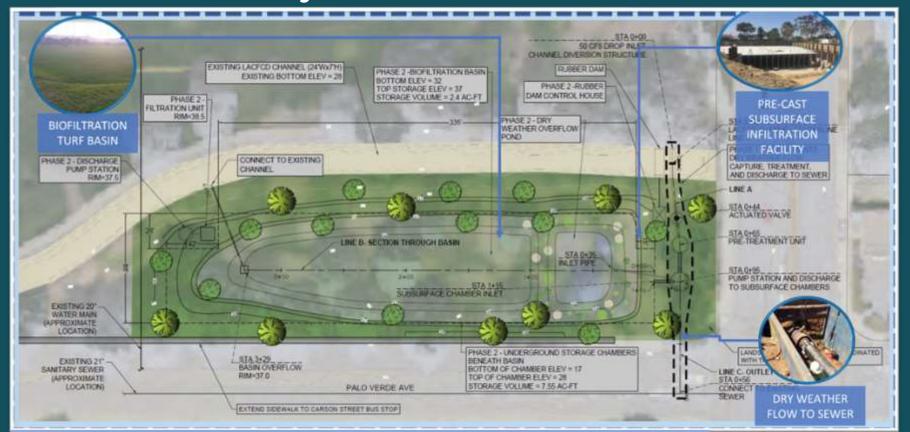
Year 1 \$1,485,048 (Design)

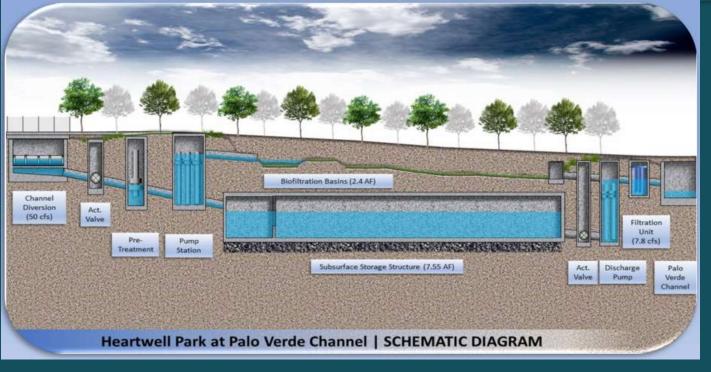
Year 2 \$1,828,817 (Phase 1 Const.)

COST SHARE? No

TOTAL CONSTRUCTION \$11,956,920

- 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





LA HABRA HEIGHTS STORMWATER TREATMENT AND YREUSE SYSTEM THE PARK HACEINDA ROAD



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

catchments for beneficial reuse.

PROJECT LEAD: City of La Habra Heights

BMP TYPE: Biofiltration

LOCATED IN

DISADVANATED No

COMMUNITY(DAC)?

BENEFITS DAC? Yes

PRELIMINARY SCORE: 72

TOTAL MEASURE W \$705,348

FUNDING YEAR AMOUNT

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

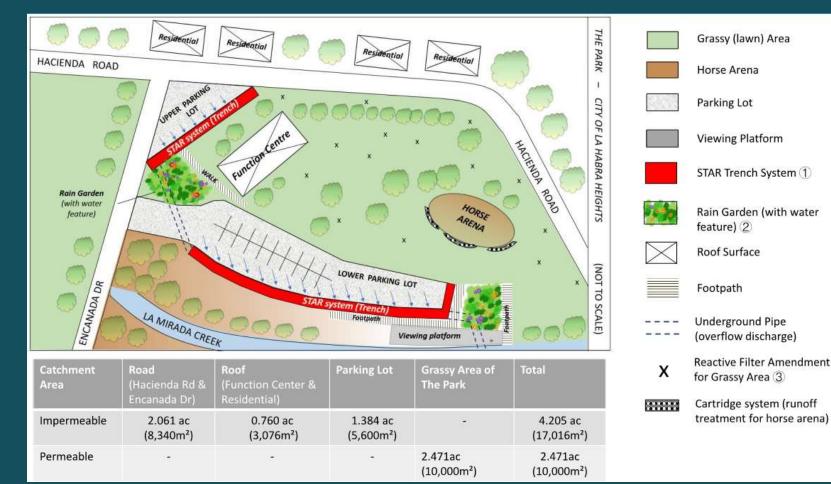
Year 2 \$416,279 (Const.)

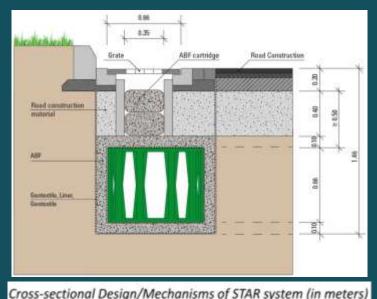
COST SHARE? \$236,000

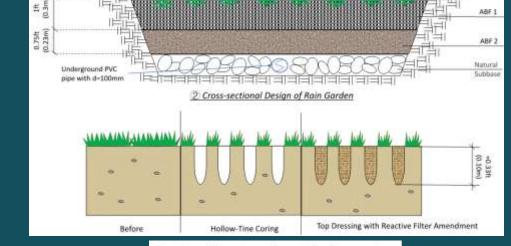
TOTAL CONSTRUCTION \$520,348

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







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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

PRELIMINARY

SCORE:

TOTAL MEASURE W
FUNDING REQUEST:

FUNDING YEAR AMOUNT

No

79

Year 1

\$2,161,744 (Design)

COST SHARE?

CONSTRUCTION COST:

\$19,971,243

\$2,161,744

- 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 REQUEST FROM LSGR

WATERSHED:

\$ 1,007,287.12

FUNDING YEAR

<u>AMOUNT</u>

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

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.

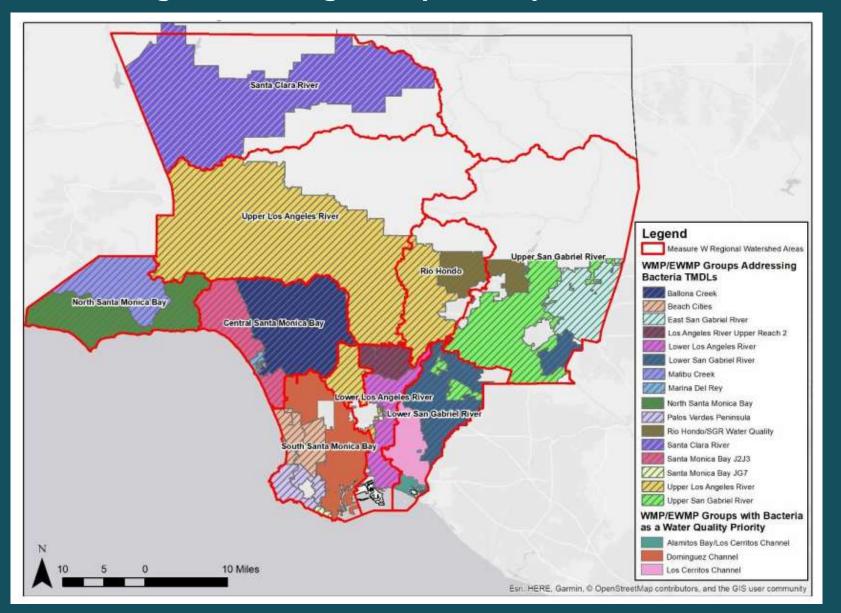


Figure 1. Watershed Management Program/Enhanced Watershed Management Program Groups
Addressing Bacteria and SCWP Watershed Areas

TARGETED HUMAN WASTE SOURCE REDUCTION STRATEGY TO ADDRESS BACTERIA RELATED COMLIANCE 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

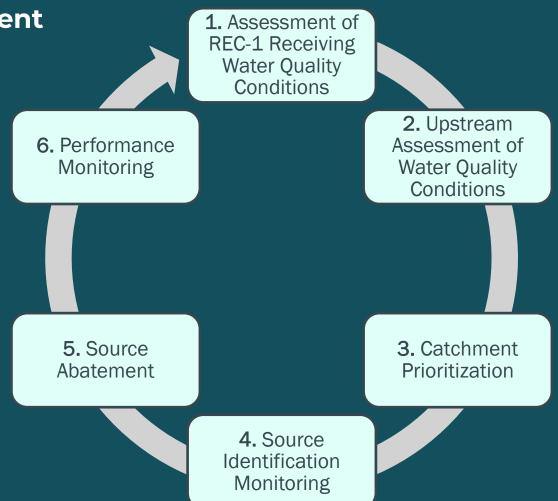
Year 1 \$ 175,000

Year 2 \$ 300,000

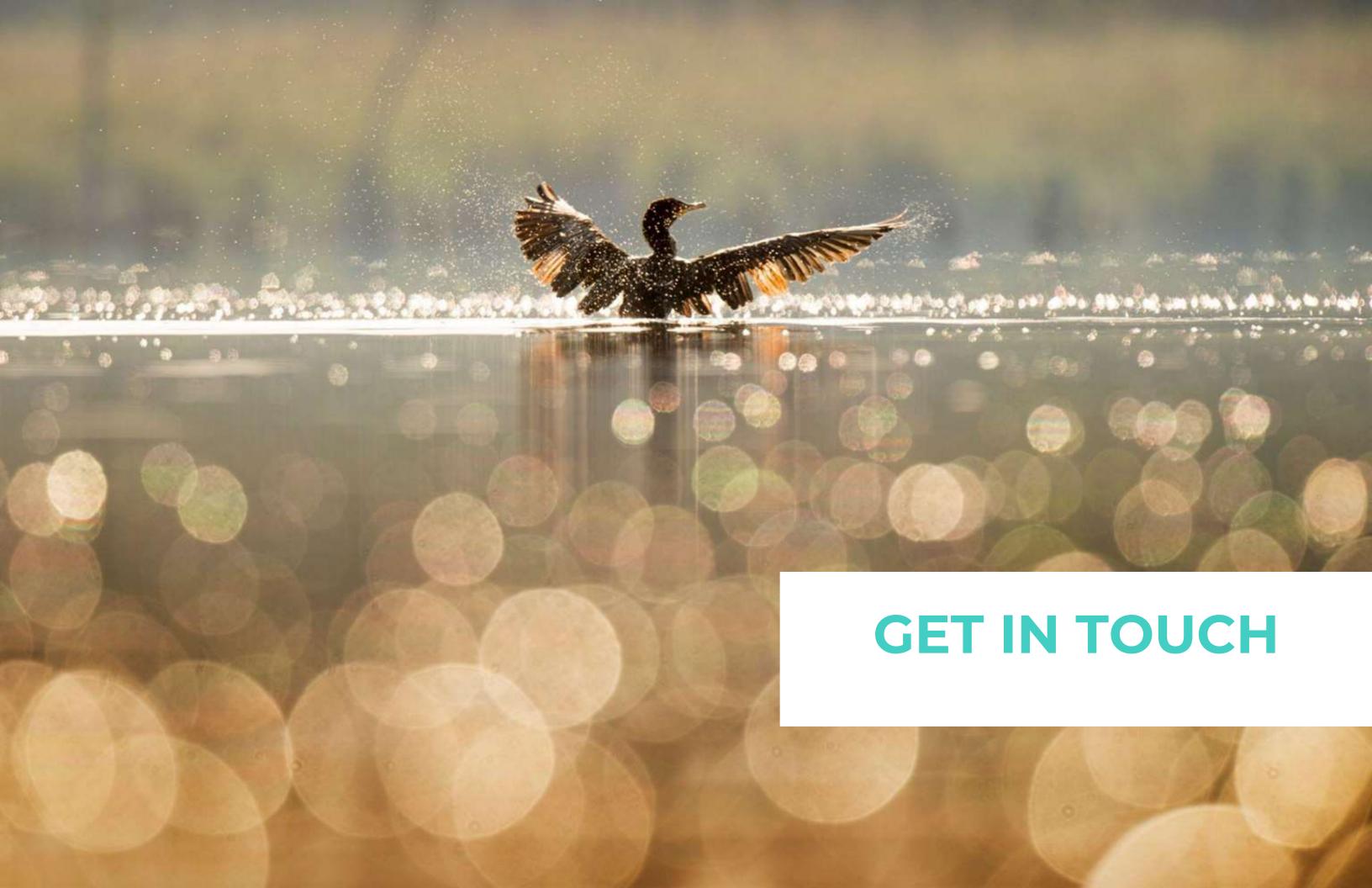
COST SHARE? No

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





Community Outreach Ideas?

Project Ideas?

Partnership Ideas?



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?



English (United States)

LSGR Watershed Area Community Survey

www.cleanwatervision.com



QUESTIONS? DISCUSSION?

