



SAFE CLEAN WATER PROGRAM

Lower San Gabriel
River Watershed

September 13, 2022
Update



**SAFE
CLEAN
WATER**

PRESENTED BY:

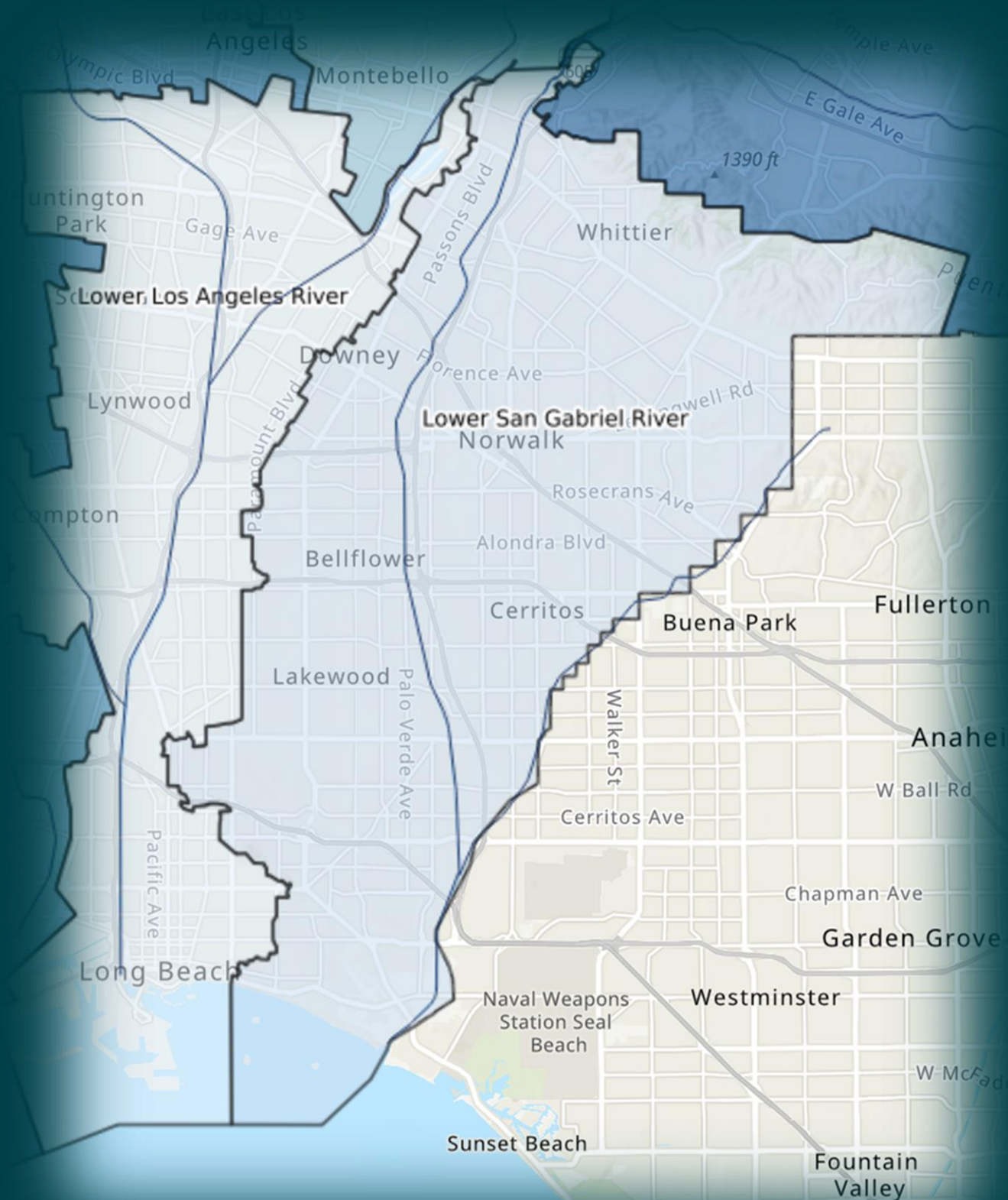
**OhanaVets, Inc.
Lower San Gabriel River
Watershed Coordinator**



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.

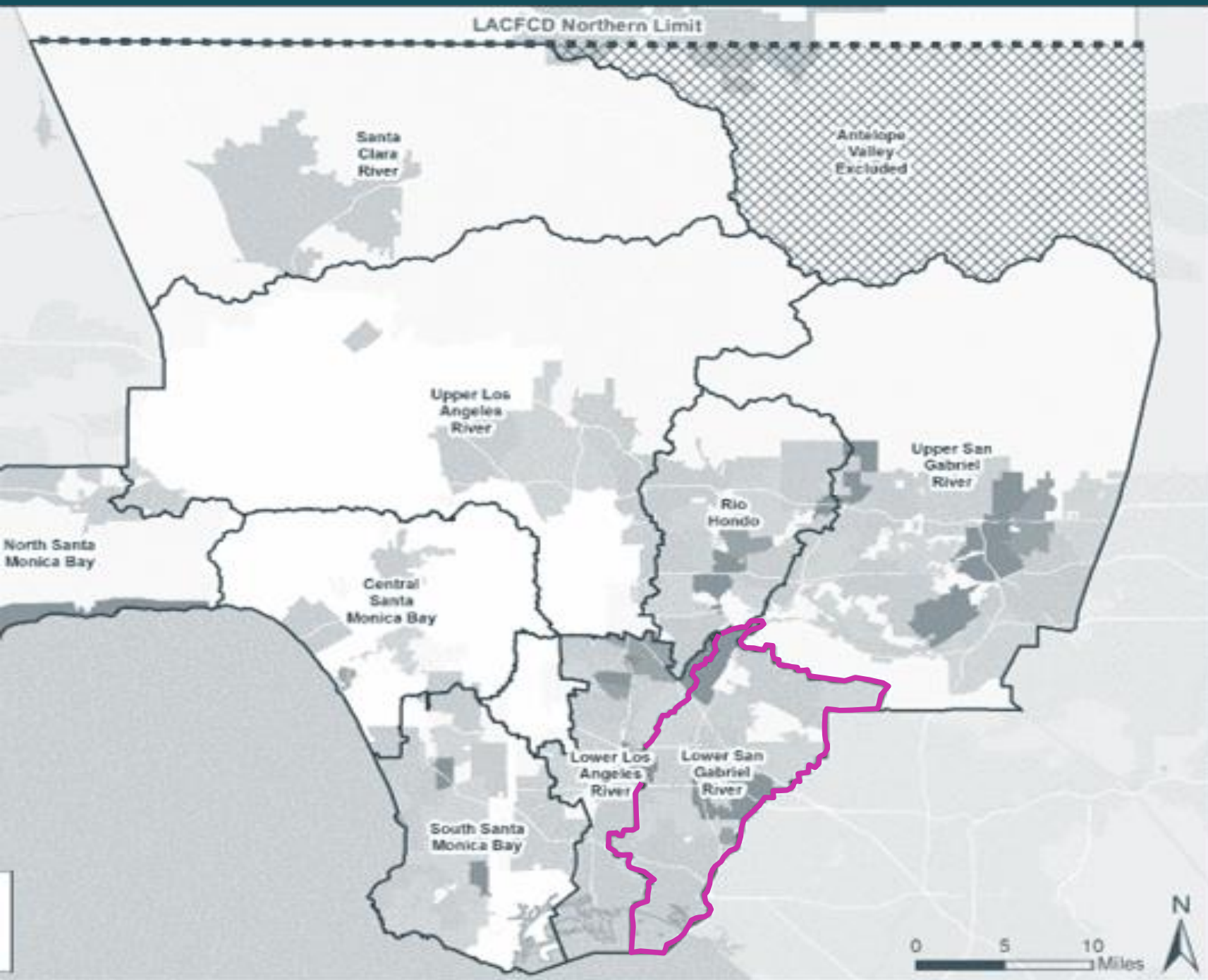
LSGR is in the Gateway Region of Los Angeles County and includes 15 cities and unincorporated LA County in whole or in part.



- 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

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?



WATERSHED COORDINATOR ROLE:

1

Solicit & Support New Projects

Identify parties with project ideas & connect them with the Technical Resources Program

2

Community Engagement

Gather input on community needs that SCW projects can help fulfill

3

Public Education

**Educate the public about SCWP projects in their communities
+
Inform community members about how they can voice their input**

PROJECT DEVELOPMENT PROCESS:



Anticipated Total Time Elapsed: 26 - 40 Months

~6-8 months

~6-8 months

~10-24 months

If project is deemed infeasible or does not meet Safe, Clean Water Program requirements for Infrastructure Program funding, project proponent should not apply for Infrastructure Program funding.

1

Solicit & Support New Projects

Identify parties with project ideas.

HAVE A PROJECT IDEA?

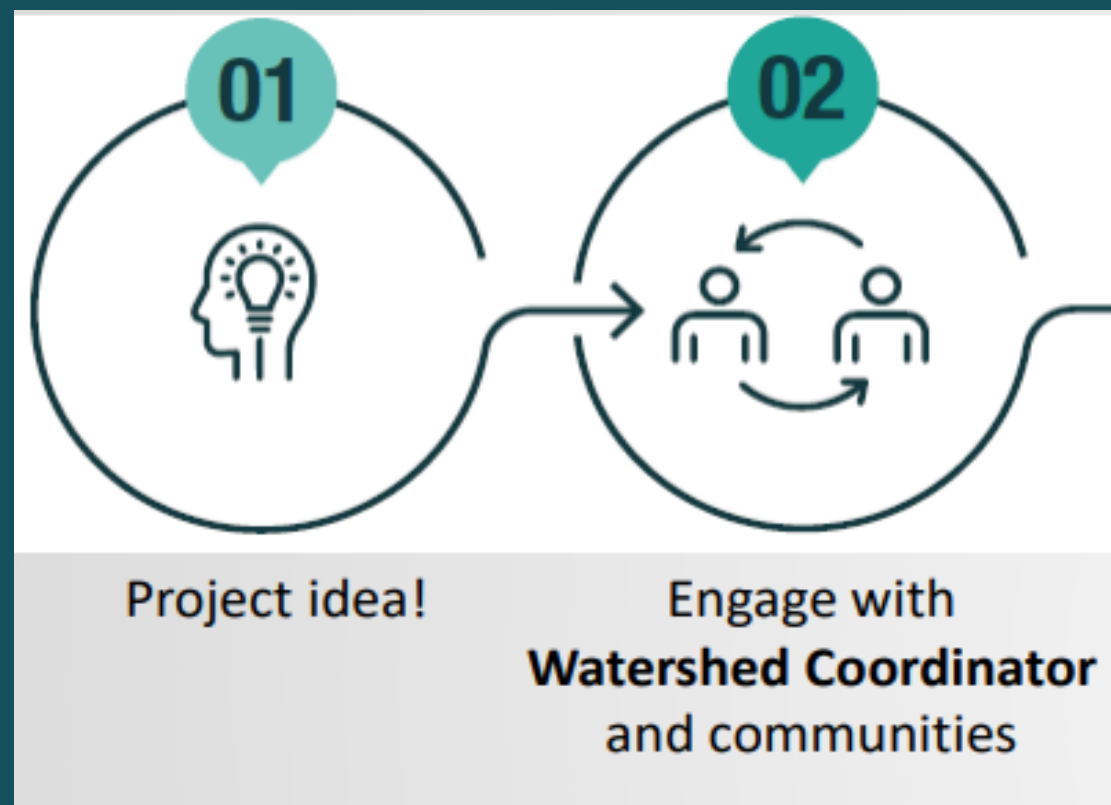
- ENGAGE WATERSHED COORDINATOR
- DEVELOP COMMUNITY ENGAGEMENT APPROACH
- DEVELOP PROJECT BENEFITS SUCH AS:

1

Solicit & Support New Projects

Identify parties with project ideas.

STEPS: 1 & 2



Improving flood management

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



LSGR WASC WC – Workshops/Education Events

WORKSHOP ACTIVITIES

- Integrated Regional Water Mgmt “IRWM” Lower SGR/Lower LAR Sub-Regional Steering Committee – **March**
- Gateway Water Mgmt Authority Board - **April**
- “SOEP” Public Workshop – **May**
- Rivers and Mountains Conservancy Board – **June**
- Gateway Chamber Alliance – **September 27**

EDUCATIONAL OUTREACH ACTIVITIES

- Downey Touch-a-Truck CWV Education Trailer - **May**
- Los Cerritos Wetlands Trust Event?

2

Community Engagement

Gather input on community needs that SCW projects can help fulfill

3

Public Education

Educate the public about SCWP projects in their communities

ACTION ITEM – Development of WASC Survey



LSGR WASC requested development of a survey for WASC Members

- Goal: Assist LSGR WASC in possibly developing a Policy Memo to help prioritize and select projects for funding



Lower San Gabriel River "LSGR" WASC Member Survey

This survey is intended to solicit input for the development of a project criteria prioritization process for LSGR WASC. Only one response per appointed Steering Committee seat please (i.e., Steering Committee Member or Alternate - not both). Individual responses will be kept confidential.

...

Development of Survey Questions

Funding set aside for small and or community-based projects:

What is definition of a small project?

How much to set aside?

\$500k or \$1M of LSGR's annual \$16.7M was suggested during last WASC meeting in May

Has the small project been coordinated with local jurisdiction?

Match from local jurisdiction?

Leverage funding requirement

Amount of matched funding?

Current SCW Scoring Criteria

>25% Funding Matched = 3 points

>50% Funding Matched = 6 points

SCW funding cap for projects?

Size of cap?

Has the project applicant been awarded SCW funding the in past?

Was there significant progress?



Clean Water Vision

Community Outreach
Ideas?

Project Ideas?

Partnership
Ideas?

Get Involved! Share your ideas with us!

Sign up for Lower San Gabriel River
Watershed Area Information and Events!

Visit us at:

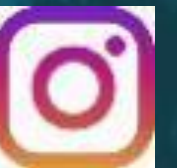
cleanwatervision.com

Email us at:

lsgr@ohanavets.com

Follow us on social media!

[@lsgrwatershed](https://www.instagram.com/lsgrwatershed)





QUESTIONS



Discussion Item



Project Funding and Distribution of Projects

ACTION ITEM – Development of Project Summaries



Development of Project Fact Sheets and Mapping

- ❑ Goal: Assist LSGR WASC in reviewing and evaluating project applications requesting funding;
- ❑ Goal: Make LSGR project information readily available to share with WASC and members of the public



SCWP Ordinance – Regional Program Highlights

“Shall be programmed, to the extent feasible, such that each Municipality receives benefits in proportion to the funds generated within their jurisdiction...”

“Shall be allocated such that funding for Projects that provide a DAC Benefit is not less than one hundred ten percent (110%) of the ratio of the DAC population to the total population in each Watershed Area;” *(Ordinance Definition: “Disadvantaged Community (DAC) Benefit” means a Water Quality Benefit, Water Supply Benefit, and/or Community Investment Benefit located in a DAC or providing benefits directly to a DAC population).*

“Shall be programmed, to the extent feasible, such that a spectrum of project types and sizes are implemented throughout the region;”

“Shall be programmed, to the extent feasible, such that Nature-Based Solutions are prioritized;”

“Shall be disbursed to a non-municipal Infrastructure Program Project Applicant only after the Infrastructure Program Project Applicant has secured a letter of support from the Municipality in which the Project is located;”

“Shall be prioritized and spent on Projects that, to the extent feasible, assist in achieving compliance with [MS4 Permit]...”

PROJECT SCORING CRITERIA

Projects must achieve a score of **at least 60 out of 110** to be considered for funding

Section	Score Range
A.1 Wet + Dry Weather Water Quality Benefits	50 points max
-OR-	
A.2 Dry Weather Only Water Quality Benefits	40 points max
B. Significant Water Supply Benefits	25 points max
C. Community Investments Benefits	10 points max
D. Nature-Based Solutions	15 points max
E. Leveraging Funds and Community Support	10 points max
TOTAL	110 points

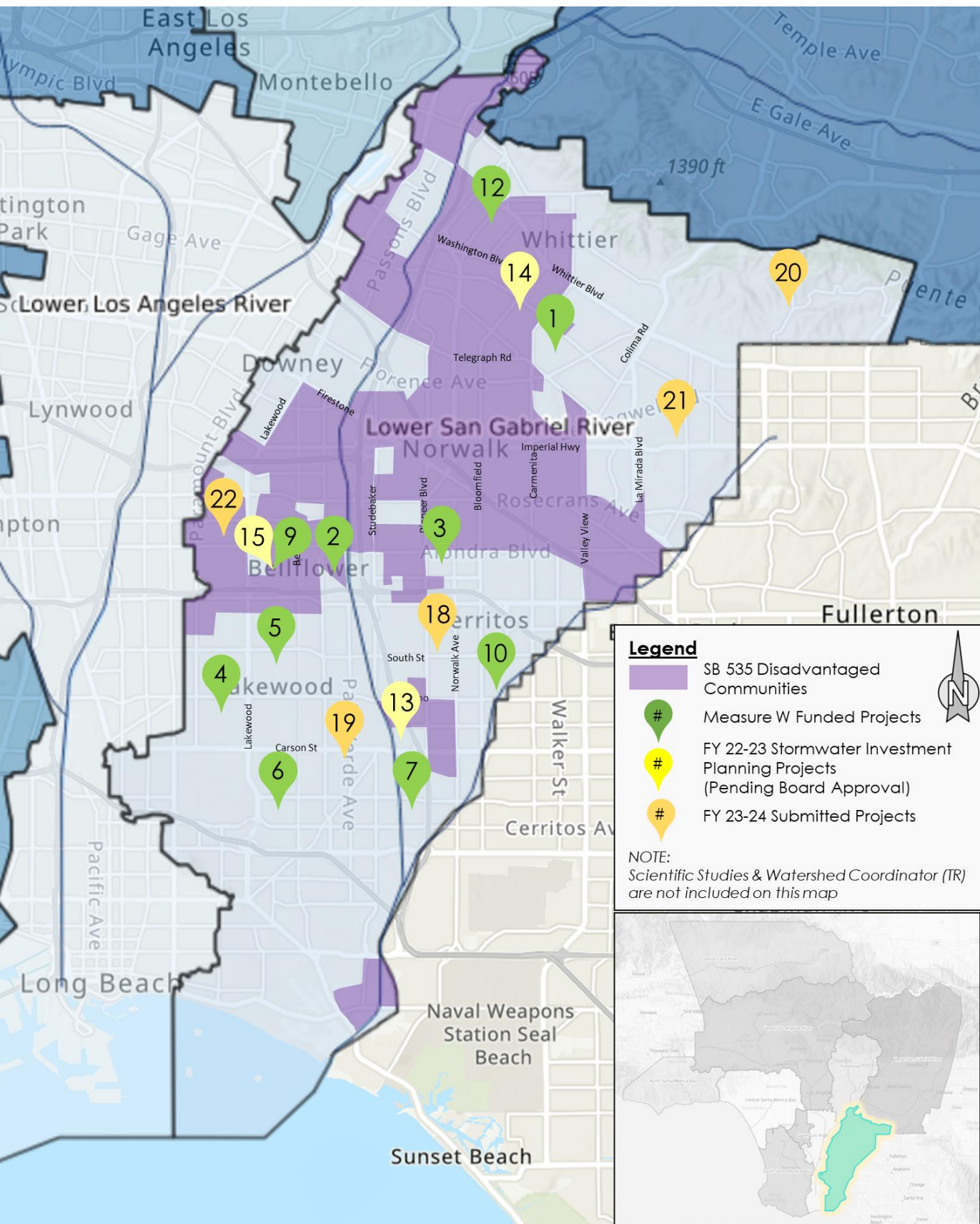


65-75 Points Possible



34 Points Possible

LSGR – SCWP PROJECTS FUNDED AND UNDER CONSIDERATION



Project Name	DAC Benefit	BMP Type	Planning/Design	Construction	O&M	Technical 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	N	D		\$ 13.5			\$ 15.0	\$ 13.5	20-21	Unincorp. County Area of Whittier
2 Caruthers Park	Y	I			\$ 0.9		\$ 13.0	\$ 0.9	20-21	Bellflower
3 Hermosillo Park	Y	I	\$ 4.1	\$ 16.0			\$ 11.0	\$ 20.1	20-21	Norwalk
4 Bolivar Park	Y	I			\$ 1.3		\$ 11.0	\$ 1.3	20-21	Lakewood
5 Mayfair Park	Y	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	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	Y	T	\$ 2.1				\$ 5.6	\$ 2.1	21-22	Bellflower
10 Cerritos Sports Complex	Y	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	Y	TR				\$ 0.3		\$ 0.3	21-22	LA County PW
SubTotal			\$ 14.3	\$ 37.3	\$ 3.4	\$ 1.4		\$ 56.4		
13 Lakewood Equestrian Center	Y	T	\$ 1.1				\$ 0.4	\$ 1.1	22-23	Lakewood
14 York Field Stormwater Capture	Y	I	\$ 1.9				\$ 0.6	\$ 1.9	22-23	Whittier
15 Bellflower Simms Park Stormwater Capture	Y	T		\$ 13.7			\$ 0.9	\$ 13.7	22-23	Bellflower
16 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			\$ 3.0	\$ 13.7	\$ -	\$ 0.5		\$ 17.2		
18 Artesia Park Urban Runoff Capture	Y	T	\$ 1.6					\$ 1.6	23-24	Artesia
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 Treatment and Reuse	Y	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	Y	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	Lakewood GWMA
Subtotal			\$ 5.3	\$ 8.3	\$ -	\$ 1.5		\$ 15.0		
Total			\$ 22.6	\$ 59.3	\$ 3.4	\$ 3.3		\$ 88.6		

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

Project Fact Sheets



Project Description



Project Lead



Benefits Disadvantaged Community



Funding Amount and Year



Project Features



Project Graphics



Shared on
www.cleanwatervision.com

LSGR INFRASTRUCTURE PROJECT CARUTHERS PARK

A regional stormwater and urban runoff capture facility at Caruthers Park in the City of Bellflower.

PROJECT LEAD: City of Bellflower

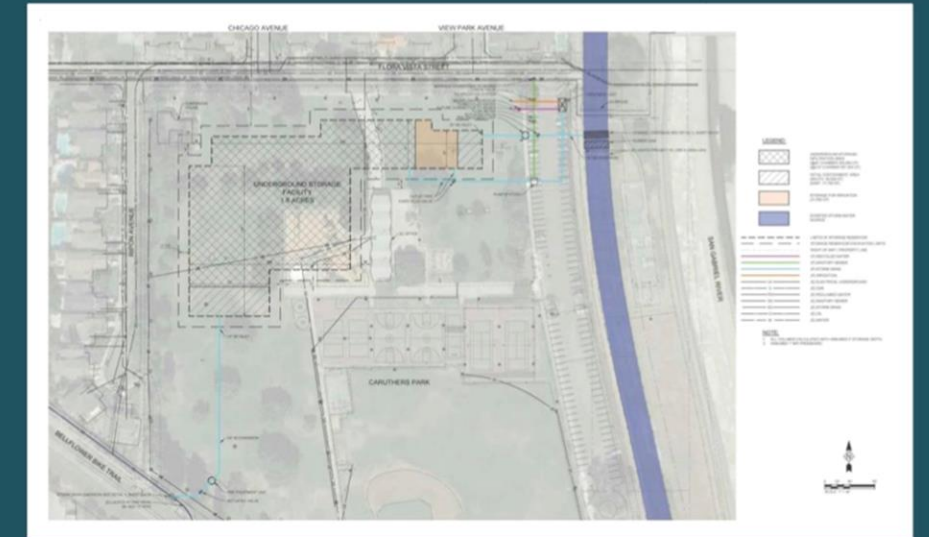
WATERSHED: LSGR

**DISADVANTAGED
COMMUNITY
PROJECT?** Yes

<u>Funding Year</u>	<u>Amount</u>
2020-2021	\$147K (O&M)
2021-2022	\$177K (O&M)
2022-2023	\$177K (O&M)
2023-2024	\$177K (O&M)
2024-2025	\$177K (O&M)

PROJECT FEATURES:

- Captures Water from 3,256 acres
- Harvested water will be utilized for irrigation
- Improves Flood Protection
- Enhances Habitat or Park Space
- Provides Recreational Opportunities
- Reduces Heat Island Effects
- Increases Shade and Trees



LSGR INFRASTRUCTURE PROJECT EL DORADO REGIONAL PROJECT

The proposed project will entail the development of an expansive 13.9 acre-foot treatment wetland system consisting of a series of seven hydraulically connected pools at El Dorado Regional Park. Dry weather flows and a portion of the 85th percentile storm event will be diverted to the wetlands.

PROJECT LEAD: City of Long Beach

WATERSHED: LSGR

**DISADVANTAGED
COMMUNITY
PROJECT?** Yes

<u>Funding Year</u>	<u>Amount</u>
2020-2021	\$900K (Design)
2021-2022	\$1.5M (Design)
2022-2023	\$600K (Design)

PROJECT FEATURES:

- Captures water from 2,924 acres
- Improves Flood Protection
- Provides Recreational Opportunities
- Improves Waterway Access
- Enhances Habitat or Park Space
- Increases Shade and Trees
- Reduces Heat Island Effects





QUESTIONS

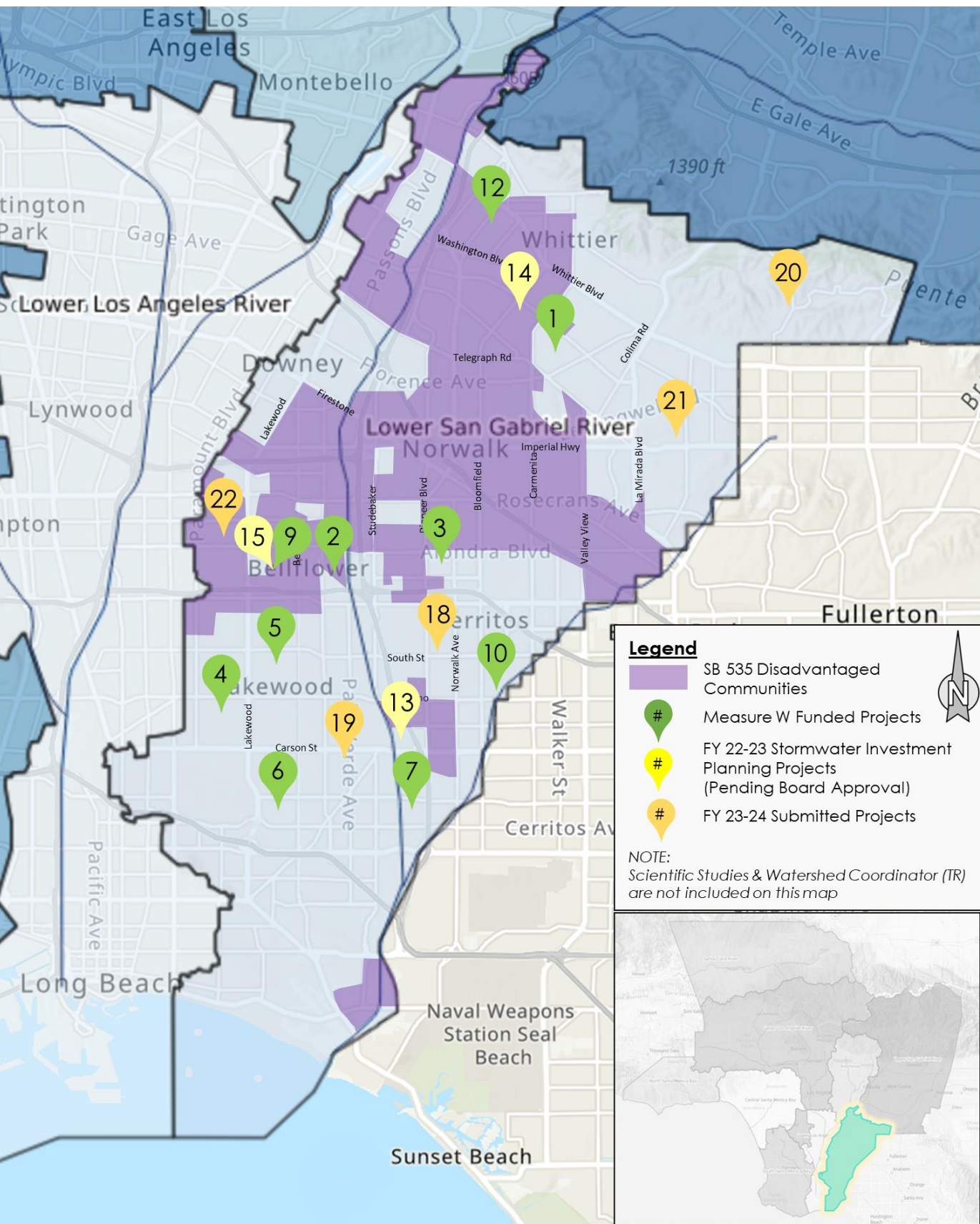


Discussion Item



Round 4 - Project Summaries

LSGR – SCWP PROJECTS FUNDED AND UNDER CONSIDERATION



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 Located in SB 535 Disadvantaged Communities

LSGR WATERSHED AREA FY23-24 PROJECT APPLICANT

ARTESIA PARK URBAN RUNOFF CAPTURE PROJECT



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

PROJECT LEAD: City of Artesia

BMP TYPE: Treatment Facility

LOCATED IN DISADVANTAGED COMMUNITY(DAC)? No

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

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

PROPOSED CONCEPTUAL SITE LAYOUT

TYPICAL CROSS SECTION

Parking Lot: Permeable Pavement and Bioswales

Pre-Cast Subsurface Storage Facility

Ephemeral Stream to butterfly garden

PRELIMINARY SCW SCORING

SECTION	TOTAL COST
A.2 Dry Weather Water Quality Benefits	40
• A.2.1 Capture, infiltrate, treat & release, or divert 100% of all tributary dry weather flows	
• A.2.2 Tributary size >200 acres	
B. Significant Water Supply Benefits	5
• B1. Water Supply Cost Effectiveness	
• B2. Water Supply Benefit Magnitude	
C. Community Investment Benefits	5
• Improved flood management	
• Creation/enhancement/restoration of parks	
• Enhanced/new recreational opportunities	
• Reducing local heat island effect	
• Increasing number of trees and/or vegetation	
D. Nature-Based Solutions	12
E. Leveraging Funds and Community Support	4
• Strong local, community-based support	
TOTAL SCORE	66

PROJECT CHARACTERISTICS

<u>Primary Pollutant</u> Zinc Reduction Achieved (% Zn reduction)	76 lb/yr (91.4%)
<u>Secondary Pollutant</u> Bacteria (% Bacteria load reduction)	1.57 x 10 ¹³ MPN (98.1%)
<u>Design Diversion Rate</u> Project No. BI0021, Unit 2, Line A	20 cfs
Storage Capacity for Subsurface Storage Reservoir	5 ac-ft (1.6 MG)
24-Hour Capacity	20.6 ac-ft
Construction Cost Estimate	\$11,785,345

LSGR WATERSHED AREA FY23-24 PROJECT APPLICANT

LA MIRADA CREEK PARK PROJECT

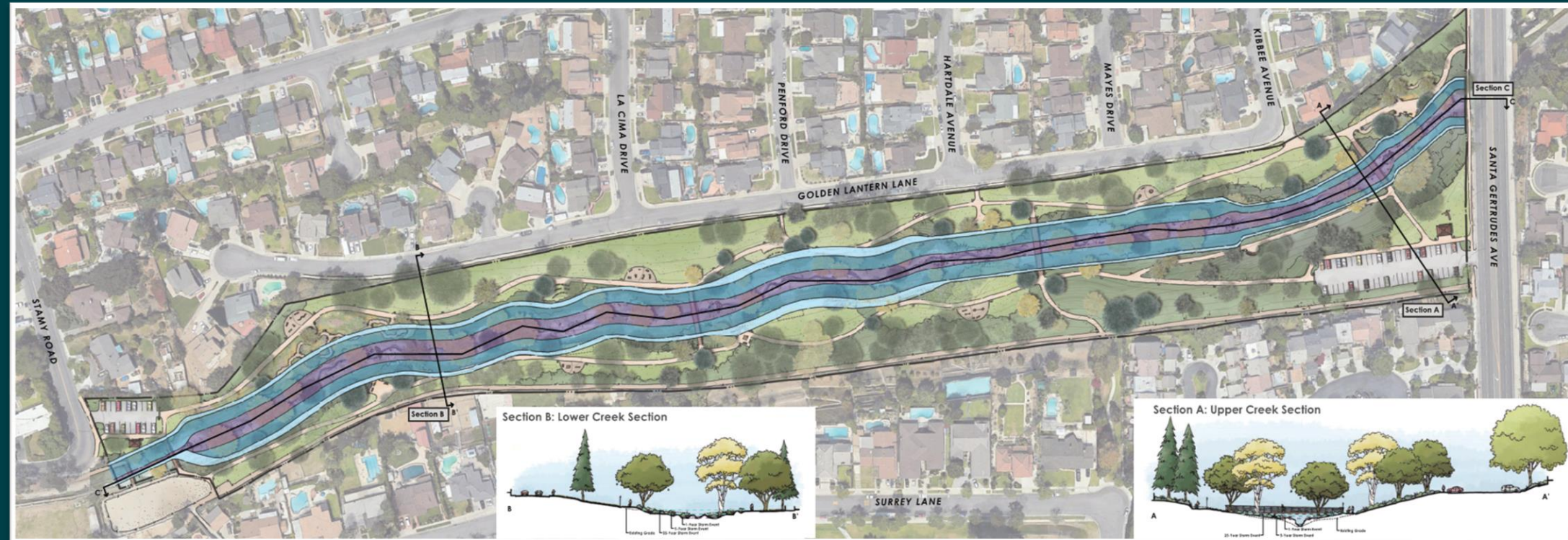


Removal of 2,500 feet concrete low-flow channel. Naturalization of existing La Mirada Creek Park to capture 168 AFY of dry weather flow.

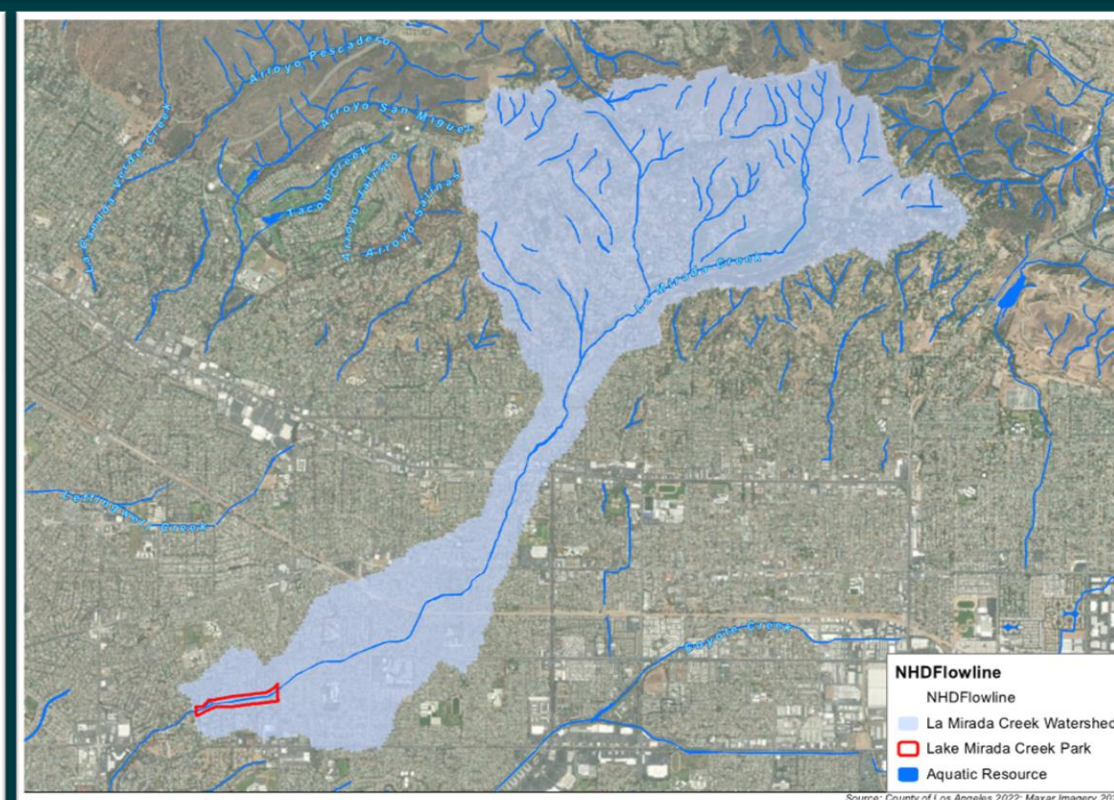
PROJECT LEAD:	City of La Mirada
BMP TYPE:	Bioretention
LOCATED IN DISADVANTAGED COMMUNITY(DAC)?	No
BENEFITS DAC?	No
PRELIMINARY SCORE:	75
TOTAL MEASURE W FUNDING REQUEST:	\$5,752,200
FUNDING YEAR	AMOUNT
Year 2	\$5,752,200 (Const)
COST SHARE?	\$1,008,000
TOTAL CONSTRUCTION COST:	\$5,752,200

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



Existing Concrete Channel



DRAFT

LSGR WATERSHED AREA FY23-24 PROJECT APPLICANT 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 DISADVANTAGED COMMUNITY(DAC)? No

BENEFITS DAC? No

PRELIMINARY SCORE: 69

TOTAL MEASURE W FUNDING REQUEST: \$3,313,865

FUNDING YEAR **AMOUNT**

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

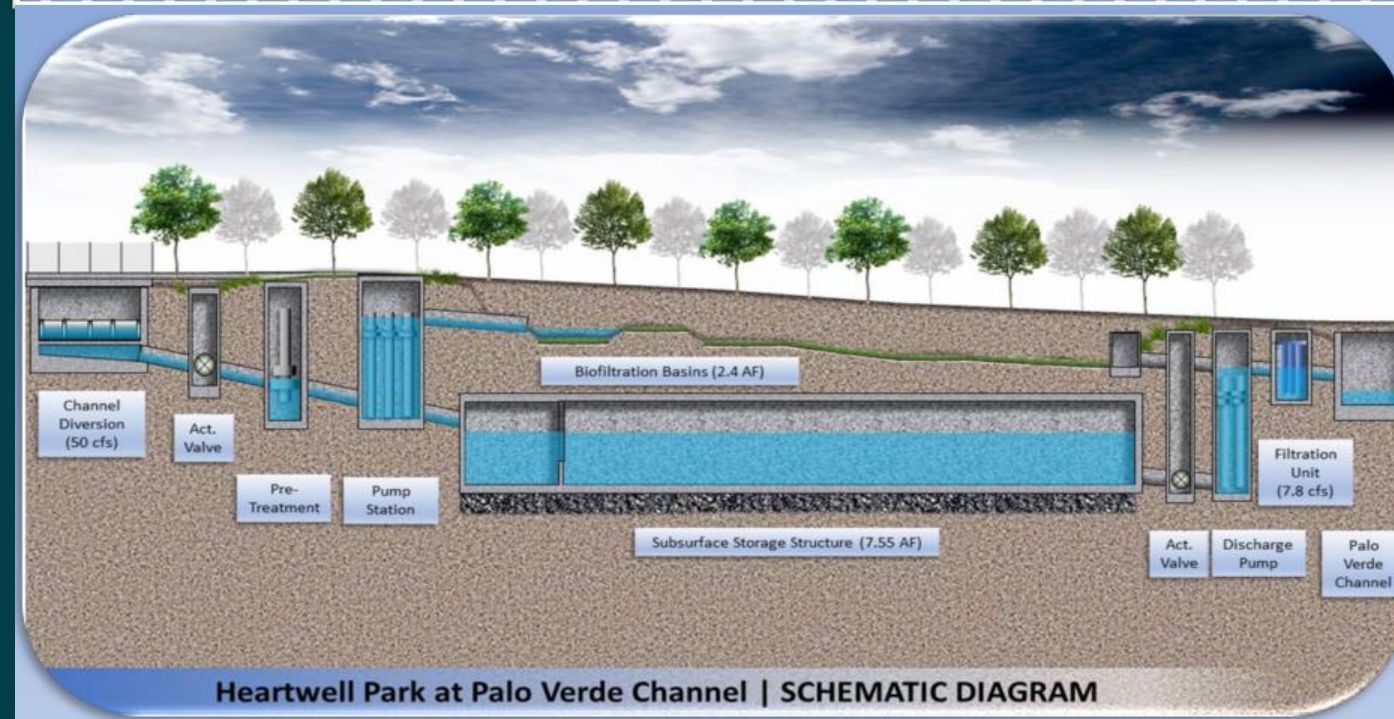
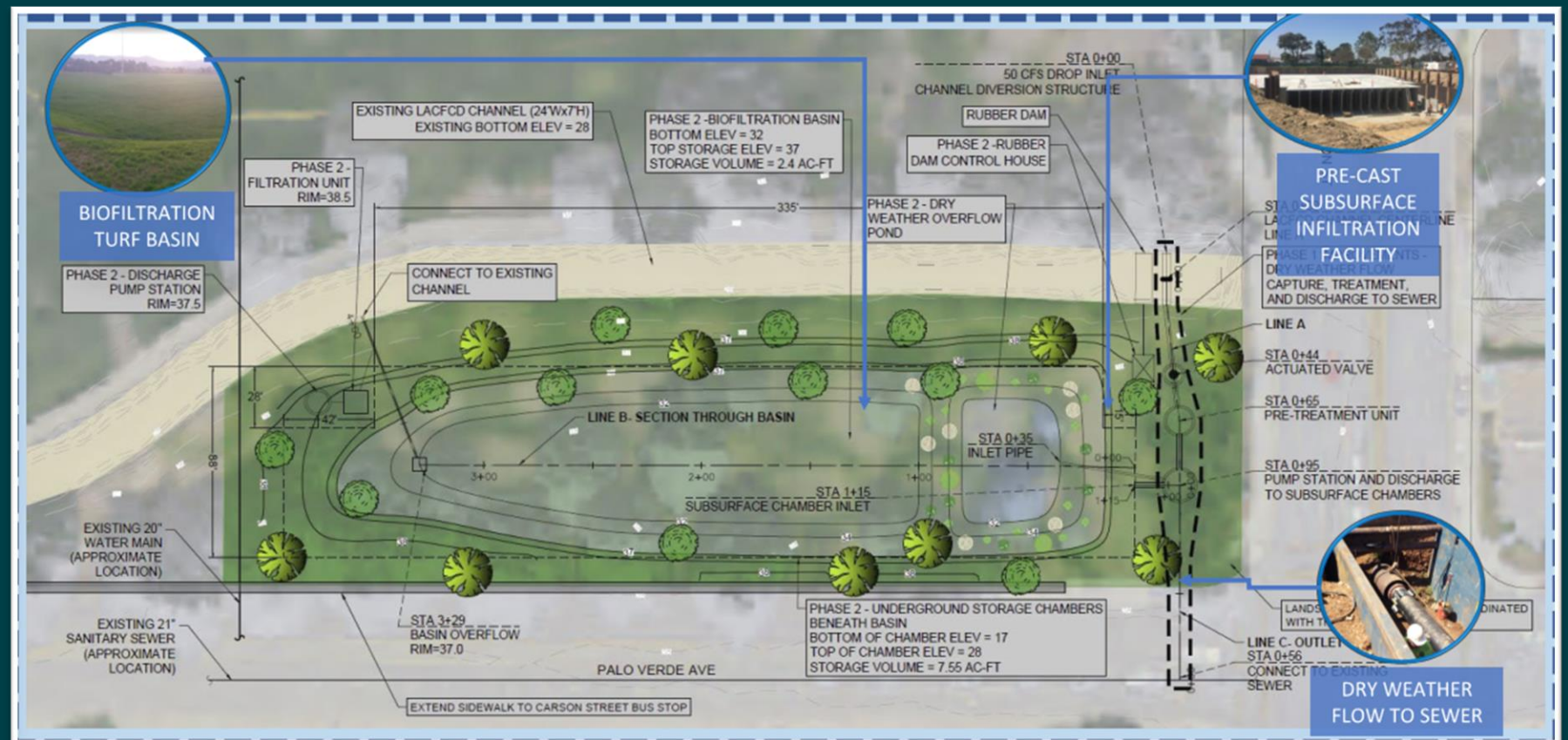
Year 2 \$1,828,817 (Phase 1 Const.)

COST SHARE? No

TOTAL CONSTRUCTION COST: \$11,956,920

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



Heartwell Park at Palo Verde Channel | SCHEMATIC DIAGRAM

DRAFT

LSGR WATERSHED AREA FY23-24 PROJECT APPLICANT

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.

PROJECT LEAD: City of La Habra Heights

BMP TYPE: Biofiltration

LOCATED IN DISADVANTAGED COMMUNITY(DAC)? No

BENEFITS DAC? Yes

PRELIMINARY SCORE: 72

TOTAL MEASURE W FUNDING REQUEST: \$705,348

FUNDING YEAR **AMOUNT**

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

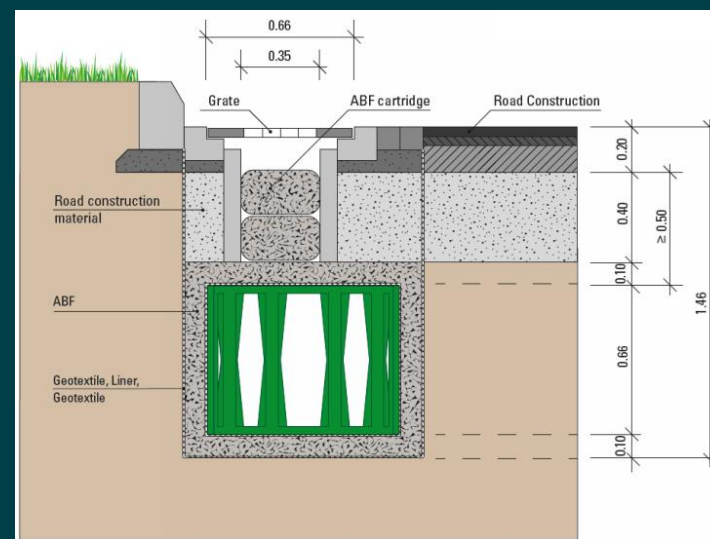
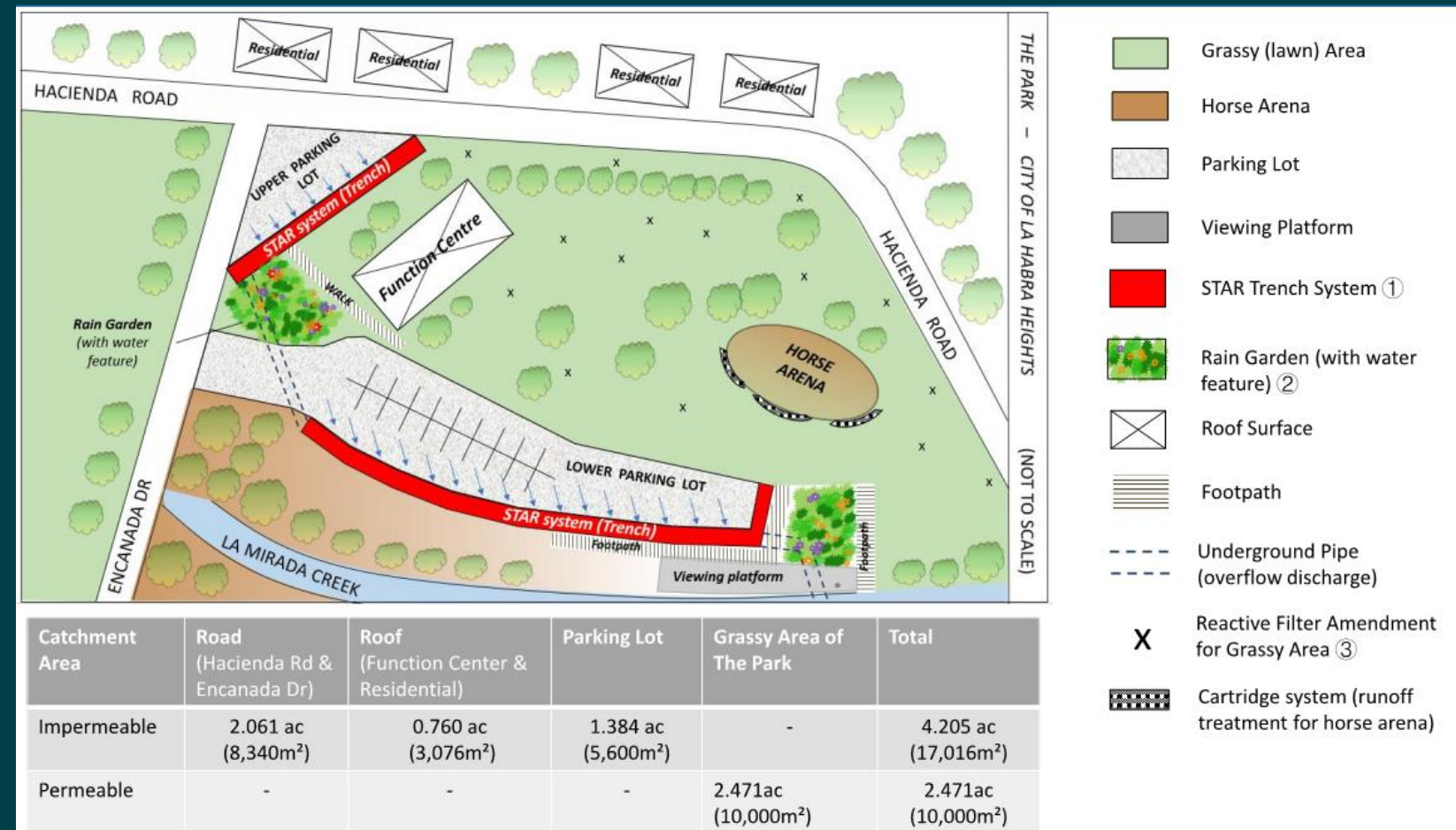
Year 2 \$416,279 (Const.)

COST SHARE? \$236,000

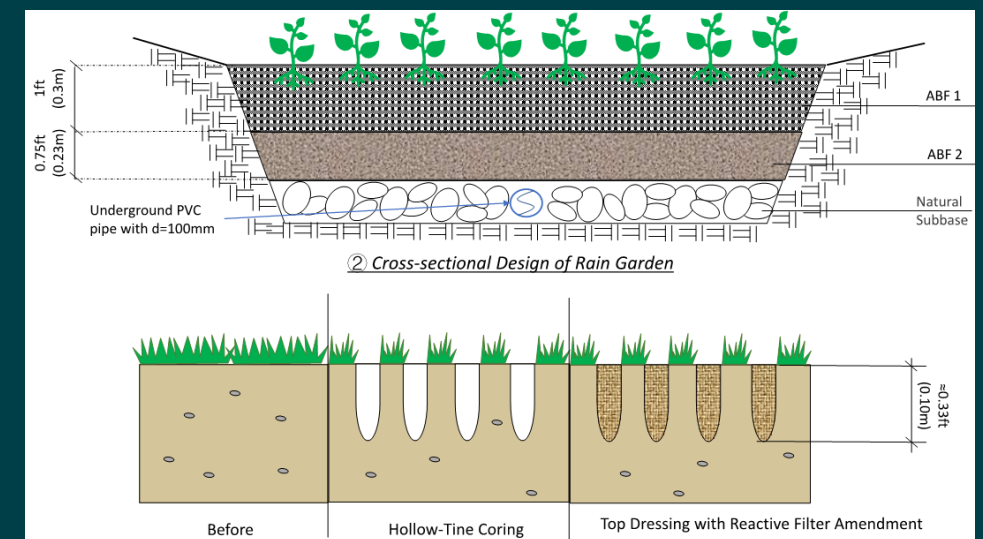
TOTAL CONSTRUCTION COST: \$520,348

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



Cross-sectional Design/Mechanisms of STAR system (in meters)



Reactive Filter Amendment for Grassy Area

LSGR WATERSHED AREA FY23-24 PROJECT APPLICANT 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 DISADVANTAGED COMMUNITY(DAC)? Yes

BENEFITS DAC? Yes

PRELIMINARY SCORE: 79

TOTAL MEASURE W FUNDING REQUEST: \$2,161,744

FUNDING YEAR **AMOUNT**

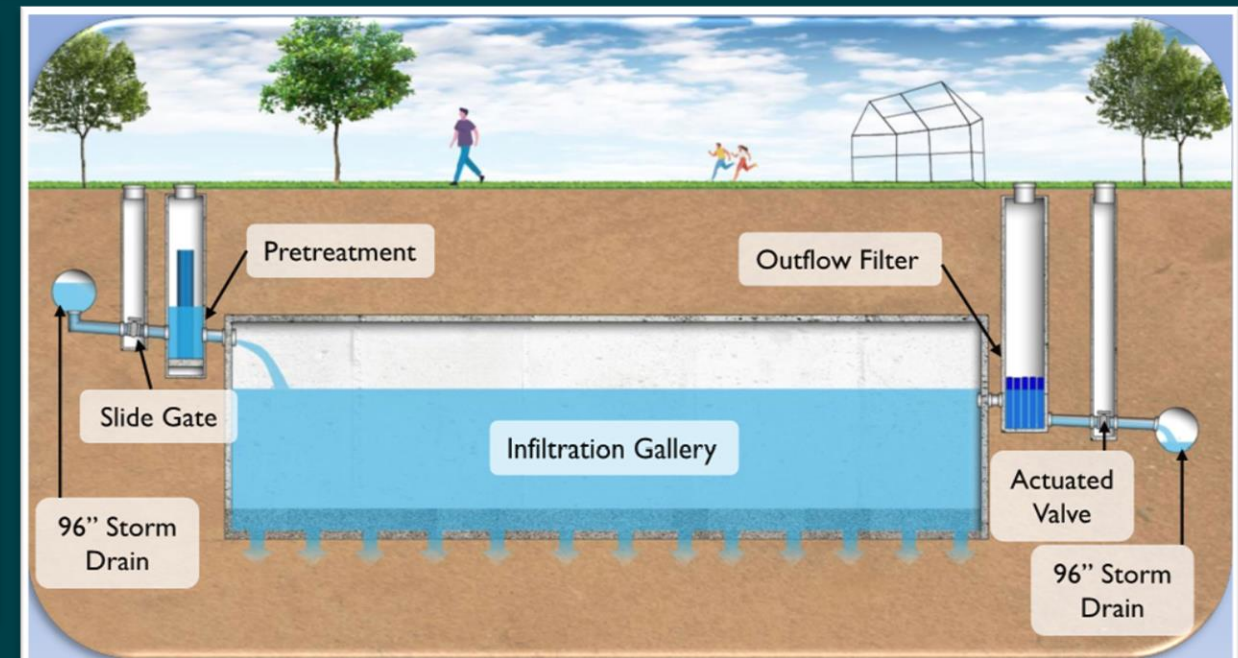
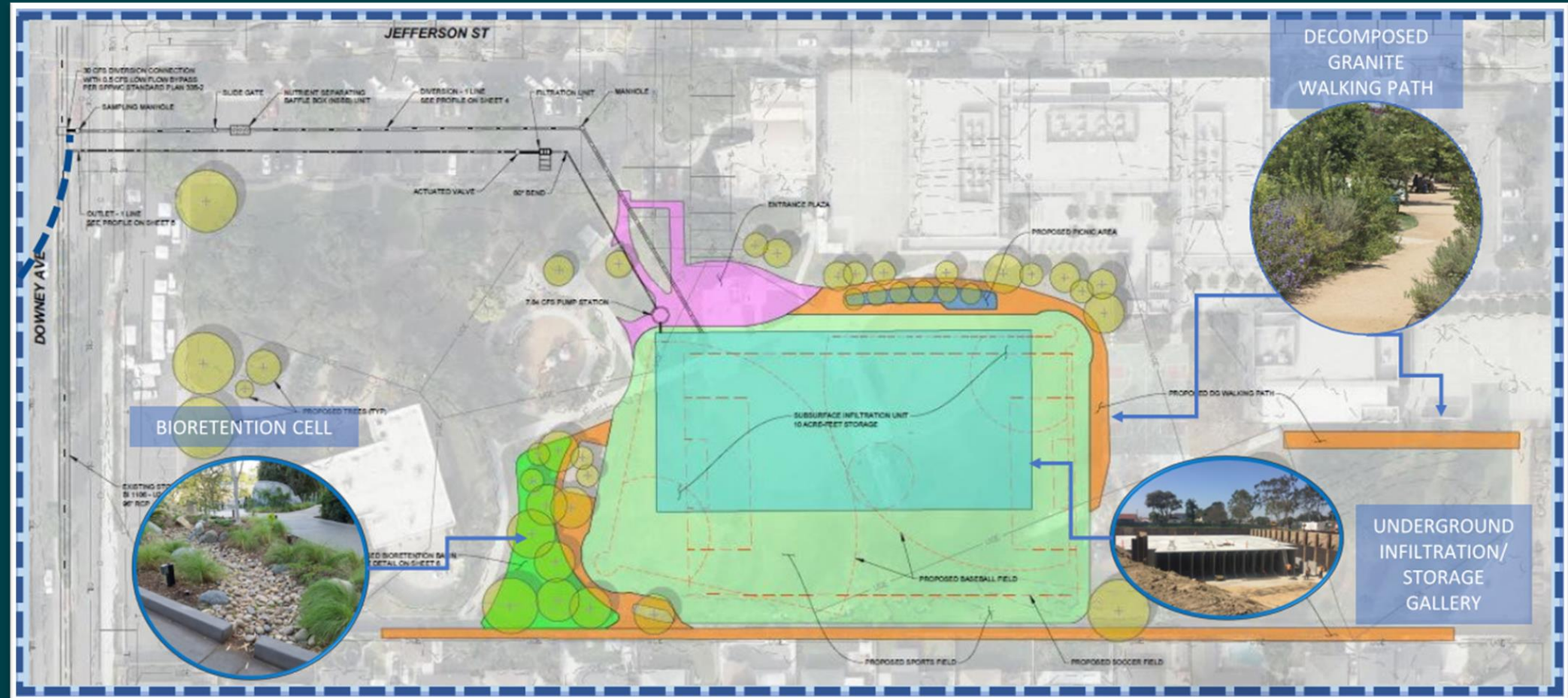
Year 1 \$2,161,744 (Design)

COST SHARE? No

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



LSGR WATERSHED AREA FY23-24 PROJECT APPLICANT 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
WATERSHED AREAS: LSGR, Rio Hondo, 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

<u>FUNDING YEAR</u>	<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.

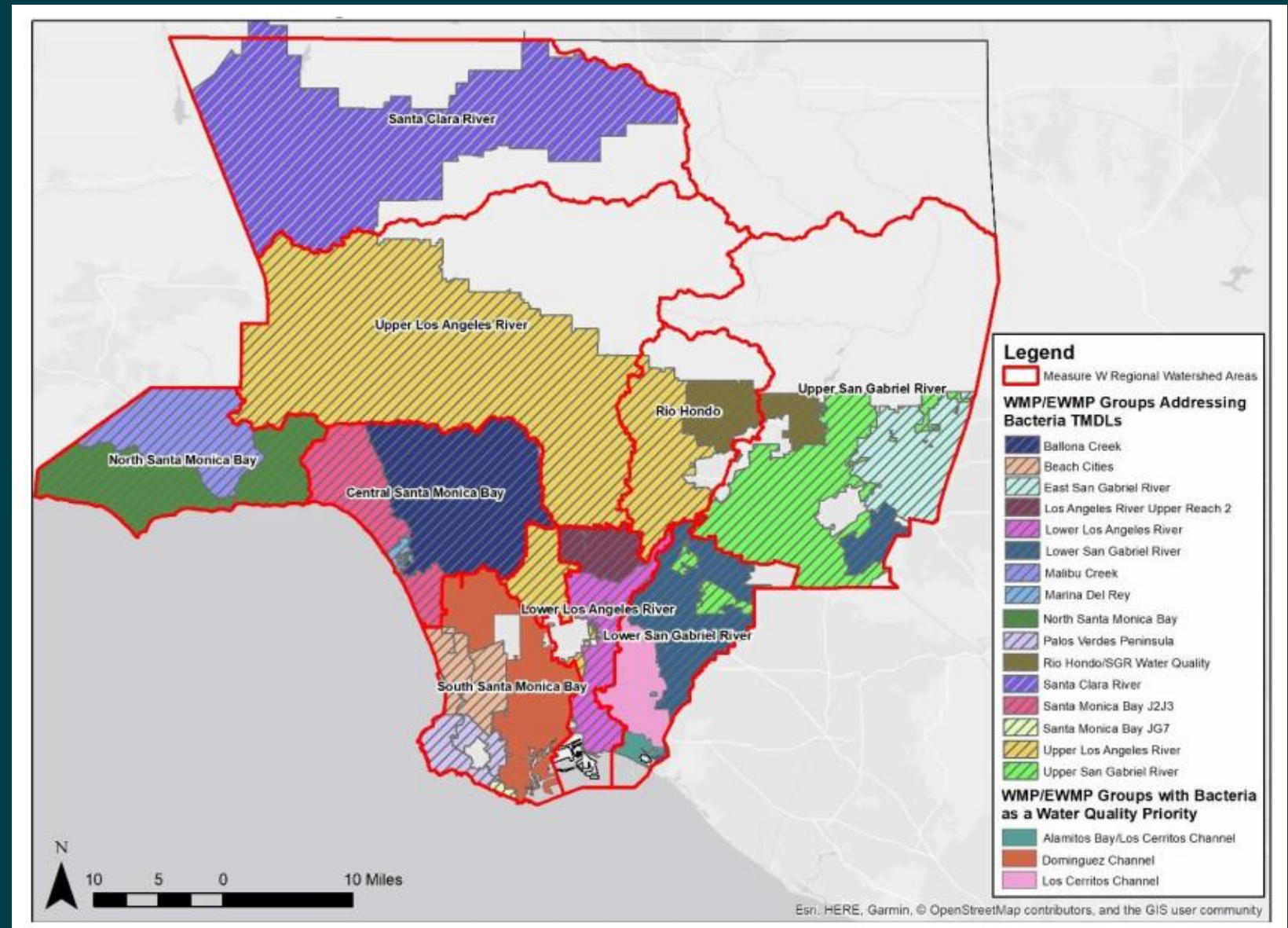


Figure 1. Watershed Management Program/Enhanced Watershed Management Program Groups Addressing Bacteria and SCWP Watershed Areas

LSGR WATERSHED AREA FY23-24 PROJECT APPLICANT 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: ~~City of Lakewood~~
Gateway Water Management Authority

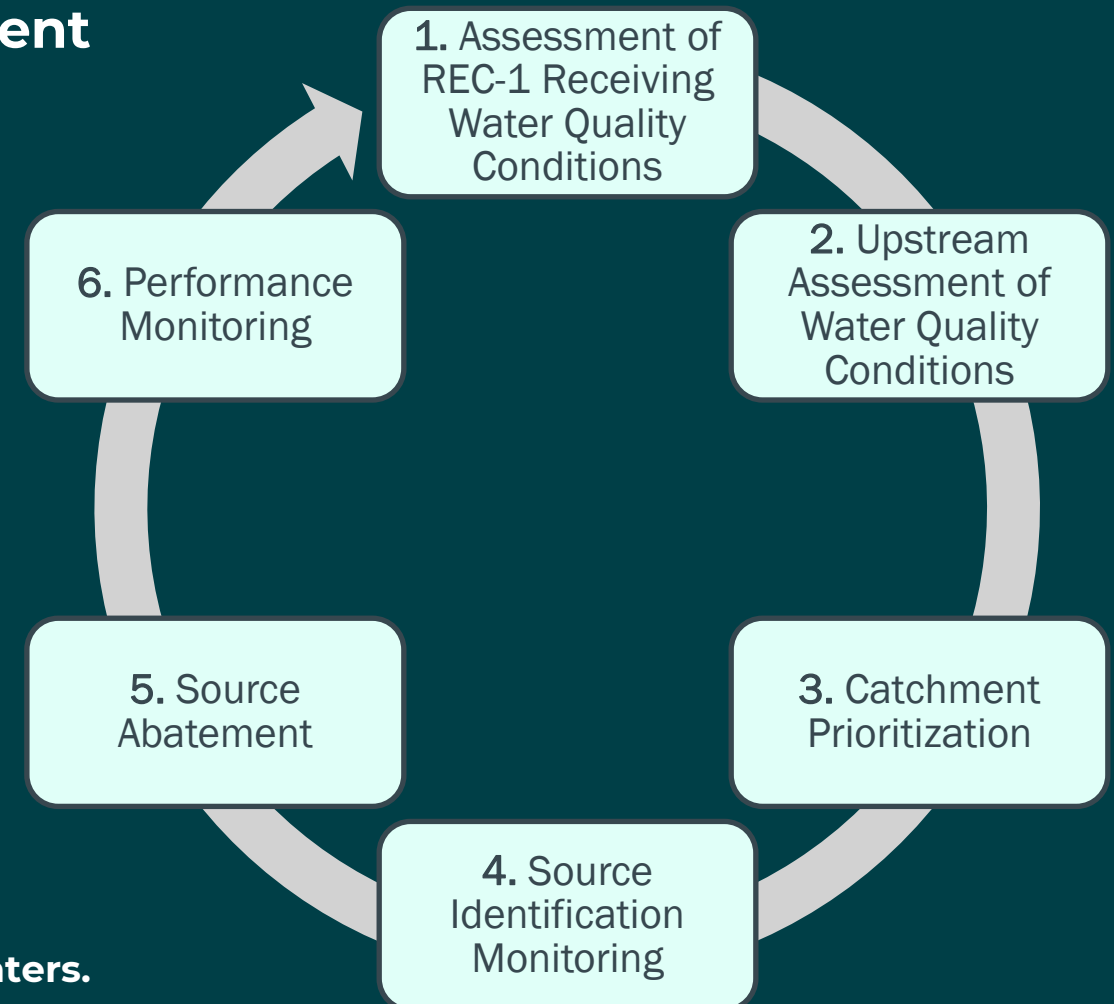
TOTAL MEASURE W FUNDING REQUEST: \$475,000

<u>FUNDING YEAR</u>	<u>AMOUNT</u>
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.





QUESTIONS

