LA River Green Infrastructure Project

Funding Program

Fiscal Year 2024 – 2025

Upper Los Angeles River Watershed

Project Lead: Los Angeles Sanitation and Environment

Presenting: Valeria Arteaga, LASAN

Previously Awarded TRP – No

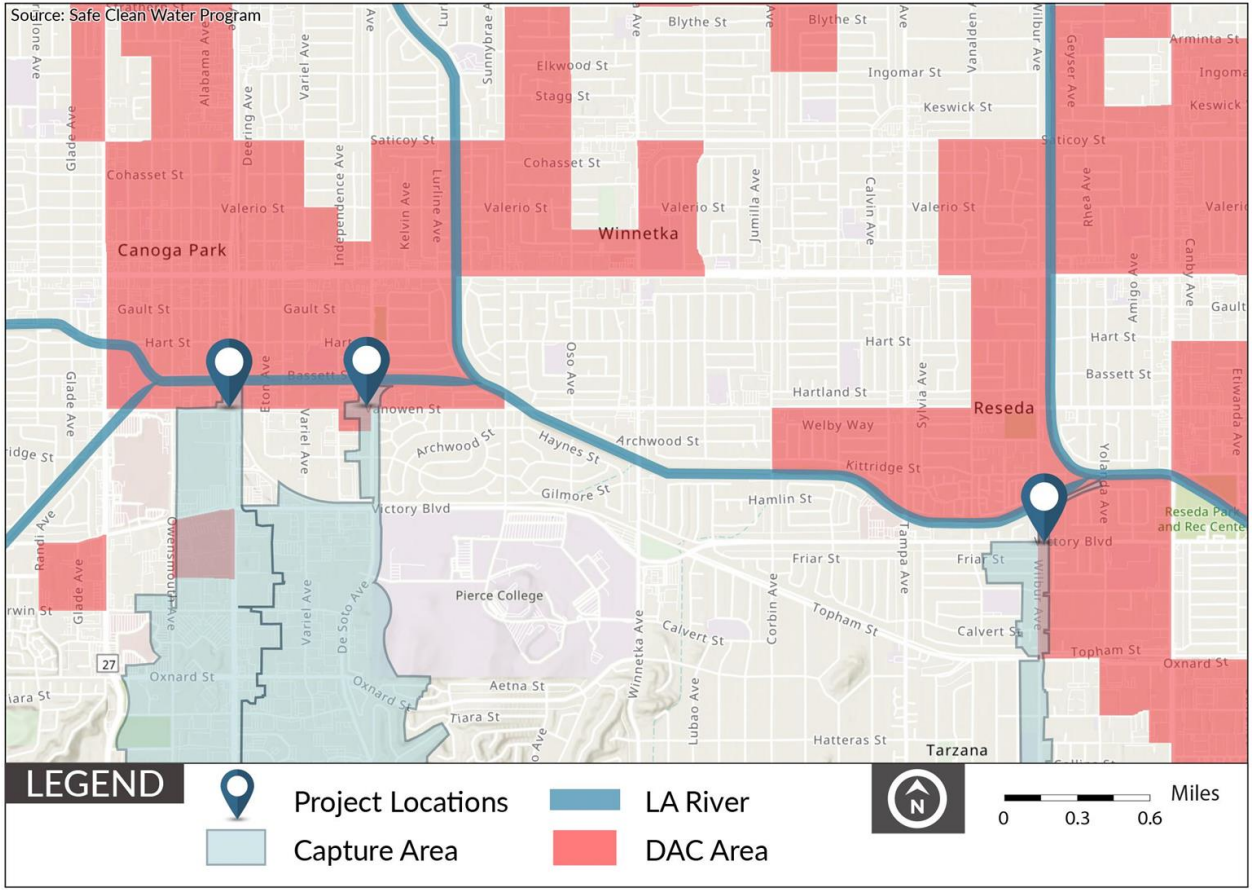
Project Overview

The Project will install three dry weather diversions to remove pollutants from runoff, improve water quality, and increase water supply.

- Primary: 100% bacteria
- Project Status: Feasibility
- SCW funding requested for Planning, Design, Construction, O&M
- Total Funding Requested $17,053,812

Project Location

Disadvantaged Community (DAC)



Project Background

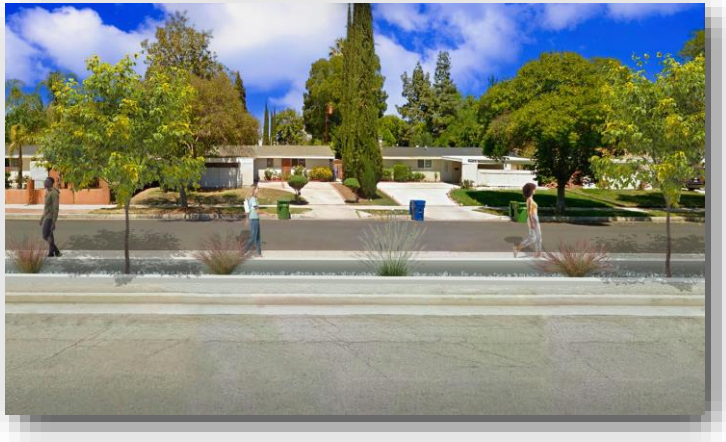
Project location was selected due to:

- Located within a Disadvantaged Community (DAC)
- Greatest need and highest potential for cost-effective implementation of BMPs

Development of the project took place with the following items in mind:

- Originally submitted in Round 3
- Project reduced size and focused on optimizing water quality and cost benefit effectiveness based on feedback from the WASC
- Community input on needs in the project area

Project area is included in the Upper LA River Watershed Management Plan



Partners

- Support for the Project
  - Approximately 65 local residents from the City of Los Angeles
  - Friends of the LA River
  - LA River Watchers & Walkers
  - Los Angeles Department of Water and Power
  - Council District 3
  - Winnetka Neighborhood Council
  - Reseda Neighborhood Council (voted to provide a support letter at October 16th meeting - signed letter pending)
- Vector Control District will be contacted during the pre-design phase

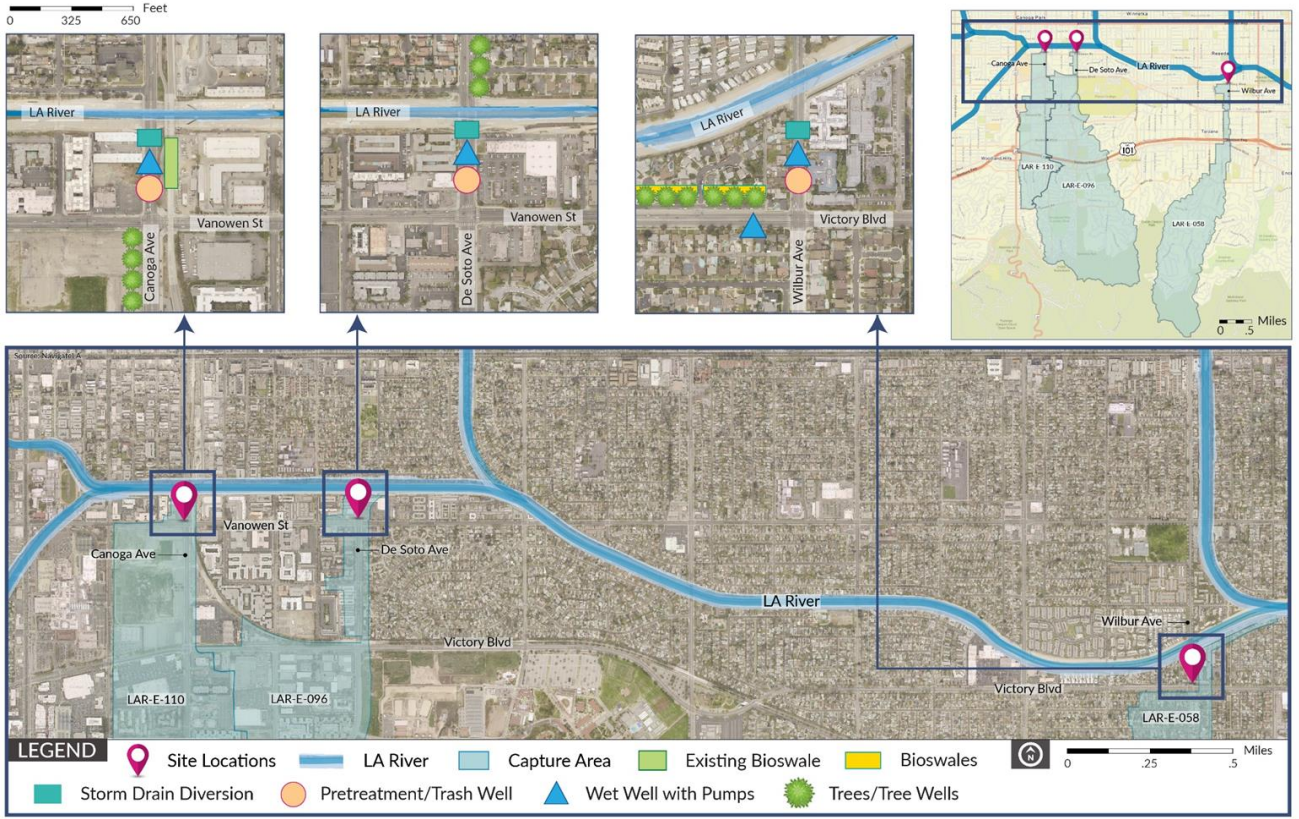
FRIENDS OF THE LA RIVER

L.A. River Walkers & Watchers

LA DWP Los Angeles Department of Water & Power

Winnetka NEIGHBORHOOD COUNCIL

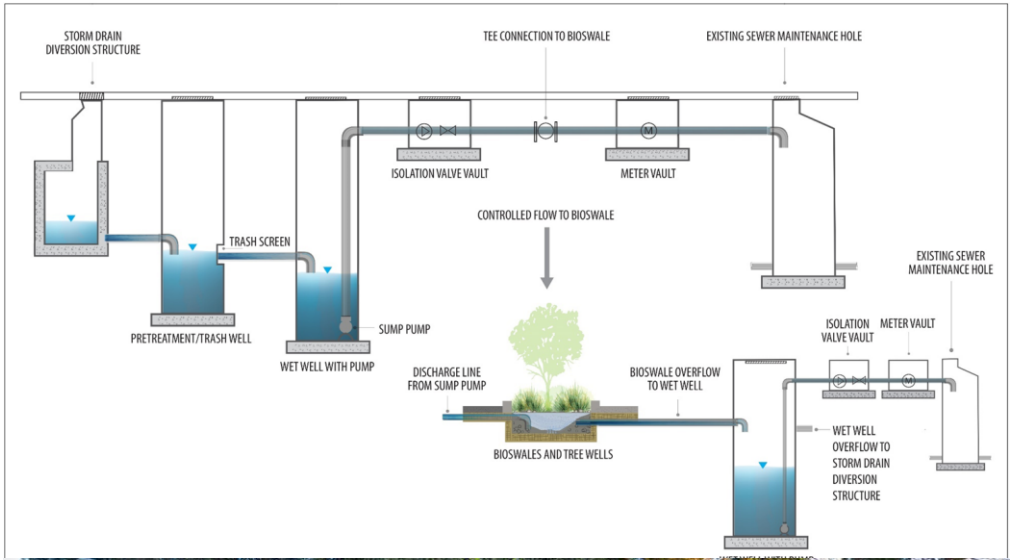
Site Plan


Feet
0
325
650
LA River
Vanowen St
Canoga Ave
De Soto Ave
Victory Blvd
Wilbur Ave
Miles
0
.5
LAR-E-110
LAR-E-096
LAR-E-058
LEGEND
Site Locations
LA River
Capture Area
Existing Bioswale
Bioswales
Storm Drain Diversion
Pretreatment/Trash Well
Wet Well with Pumps
Trees/Tree Wells
0
.25
.5
Miles

Project Details

Project Details

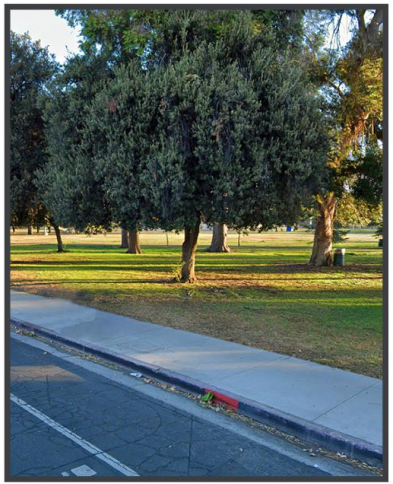
- Capture approx. 210.3 ac-ft (AF) of dry weather runoff annually
- 4,247 ac drainage area
- Add approx. 3,528 SF of bioswales
- 50 new street trees
- Runoff diverted from existing LA County storm drain system routed to Donald C. Tillman Water Reclamation Plant to provide additional recycled water
- Alternative 1 - proposed underground storage at the Randal D. Simmons Park along Wilbur Ave.
    - Not chosen due to high construction costs



Municipality Benefits

Disadvantaged Community (DAC) & Municipality Benefits

- Trees and greening will create additional shade, improved air quality, and reduce heat island effect.
- Educational displays about SCWP and LA River will foster interest in the environment and the long-term sustainability of the LA River.
- Greening along streets going to the LA River will enhance aesthetics and encourage the community to use the LA River for recreational activities like walking, jogging, and bicycling
- Improvements to water quality in the LA River and downstream recreational areas
- Decreasing municipal water demand with added recycled water
- Pollutant removal



Cost & Schedule

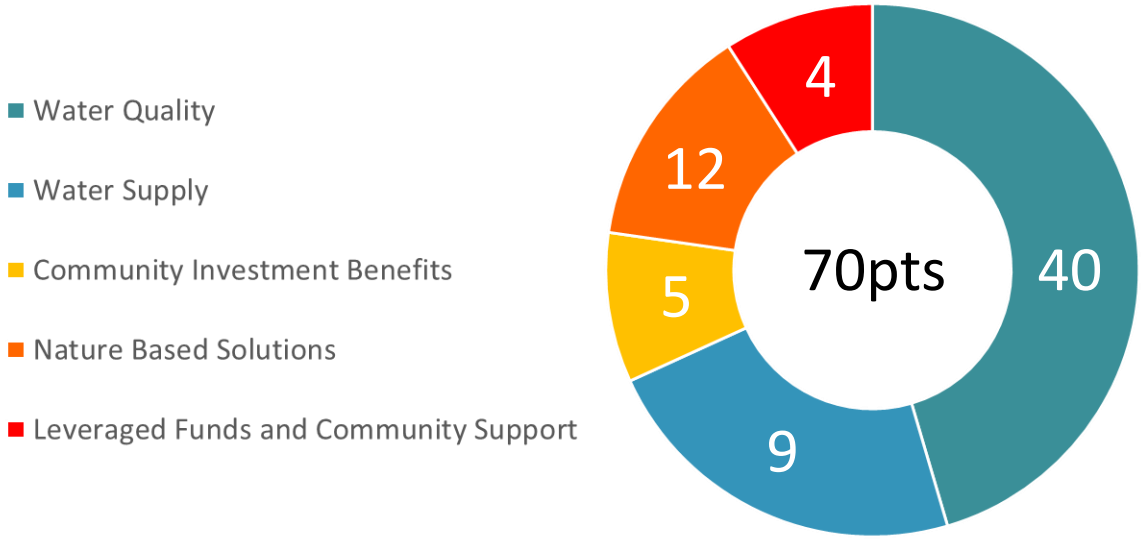
Phase	Description	Cost	Completion Date
Planning	Concept report, feasibility study, public engagement, project planning, permitting, and preliminary design	$1,156,930	06/2025
Design	Engineering, design, CM	$4,959,128	12/2028
Bid/Award	Bid/Award	$1,072,244	04/2027
Construction	Construction Contract	$12,330,806	12/2028
Construction	Three (3) years post-construction monitoring as required in the project transfer agreement and O&M	$702,091	06/2029
TOTAL		**$20,221,200**	
Leveraged Funds	City Services	$3,167,388	YR1-YR5

Funding Request

Project Schedule Based 5-Yr Cost						
Task Name	YR1-FY24/25	YR2-FY25/26	YR3-FY26/27	YR4-FY27/28	YR5-FY28/29	Total
Project Cost						
Planning[1]	$1,156,930.50					$1,156,930.50
Design & CM[2]		$1,608,366.00	$1,206,274.50	$1,072,244.00	$1,072,244.00	$4,959,128.50
Construction			$4,110,268.67	$4,110,268.67	$4,110,268.67	$12,330,806.00
Bid and Award			$1,072,244.00			$1,072,244.00
O&M					$402,091.00	$402,091.00
Monitoring					$300,000.00	$300,000.00
Total Cost:	$1,156,930.50	$1,608,366.00	$6,388,787.17	$5,182,512.67	$5,884,603.67	$20,221,200.00
Total Match:	$218,717.00	$737,167.75	$737,167.75	$737,167.75	$737,167.75	$3,167,388.00
Funding Request:	$938,214	$871,198	$5,651,619	$4,445,345	$5,147,436	$17,053,812

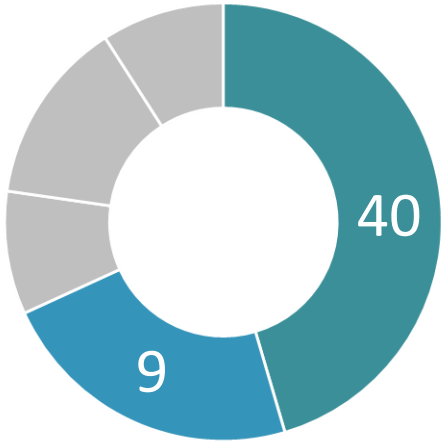
- 15.7% of funding matched (City Services)

Score as confirmed by the Scoring Committee



The Scoring Committee confirmed this score on 11/2/2023

Water Quality & Water Supply Benefits



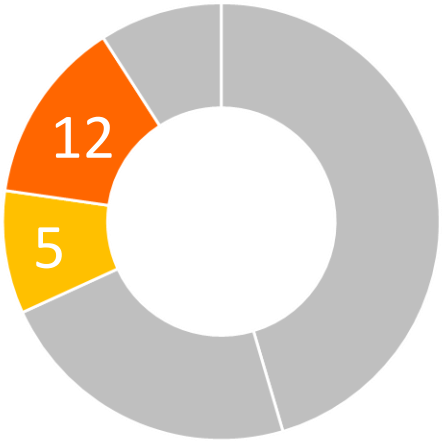
Water Quality

- Bioswales, street trees and LFDs
- Tributary area: 4,247 acres
- 100% Dry Weather Capture
- Pollutant Reduction: 100% bacteria, 100% trash

Water Supply

- Annual Water Supply Volume: 210.3 AF/yr
- Water Supply Use: Recycled water at Donald C. Tillman Water Reclamation Plant
- Water Supply Cost-Effectiveness: $5,840/AF

Community Investment Benefits and Nature-Based Solutions



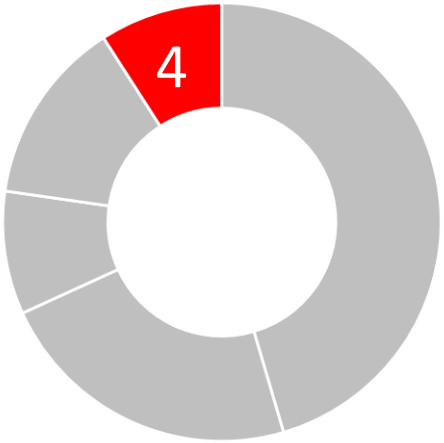
Community Investment Benefits

- Creation/enhancement of habitat
- Improved access to LA River
- Enhanced recreational and learning opportunities
- Increased shade and reduction of Heat Island Effects
- Increased trees and vegetation

Nature-Based Solutions

- Mimics natural processes in trees and bioswales
- Utilizes natural materials in bioswales
- Replaces impermeable surface with green space

Leveraging Funds and Community Support

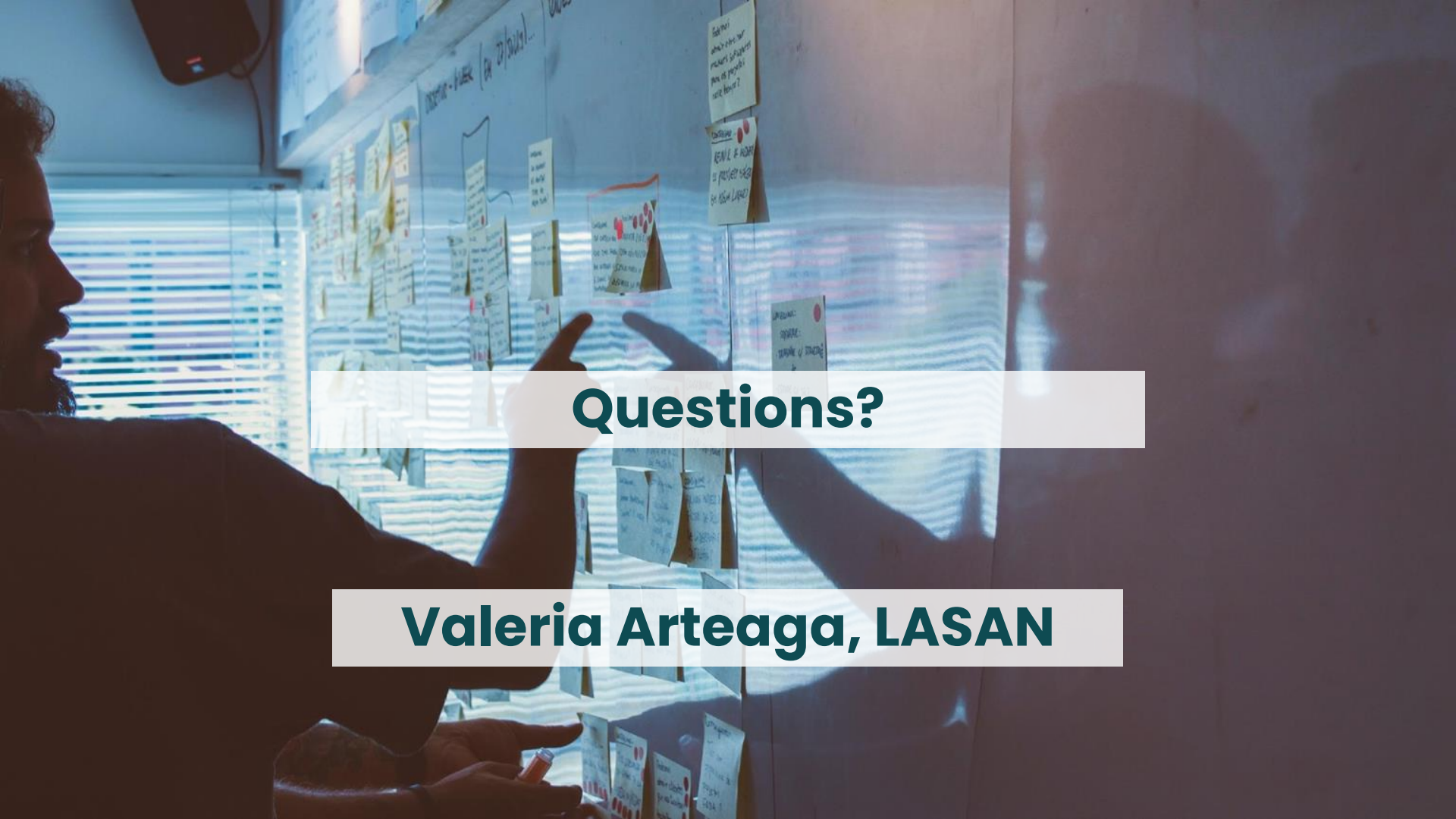


Leveraging Funds

- This project has 16% leveraged funds

Community Support

- This Project has received strong community support from:
  - LA Department of Water and Power,
  - Council District 3,
  - Friends of the LA River,
  - LA River Watchers & Walkers,
  - Winnetka Neighborhood Council, and
  - approximately 60 local residents from the City of Los Angeles.


Questions?
Valeria Arteaga, LASAN

Sun Valley Green Neighborhood Infrastructure Project

Funding Program (Infrastructure Program)

Fiscal Year 2024-2025

ULAR Watershed

LA Sanitation & Environment

Kevin Ho

Previously Awarded TRP –No

Project Overview

This Project proposes the implementation of green street elements such as dry wells, to increase water supply, improve water quality, and mitigate flood risk

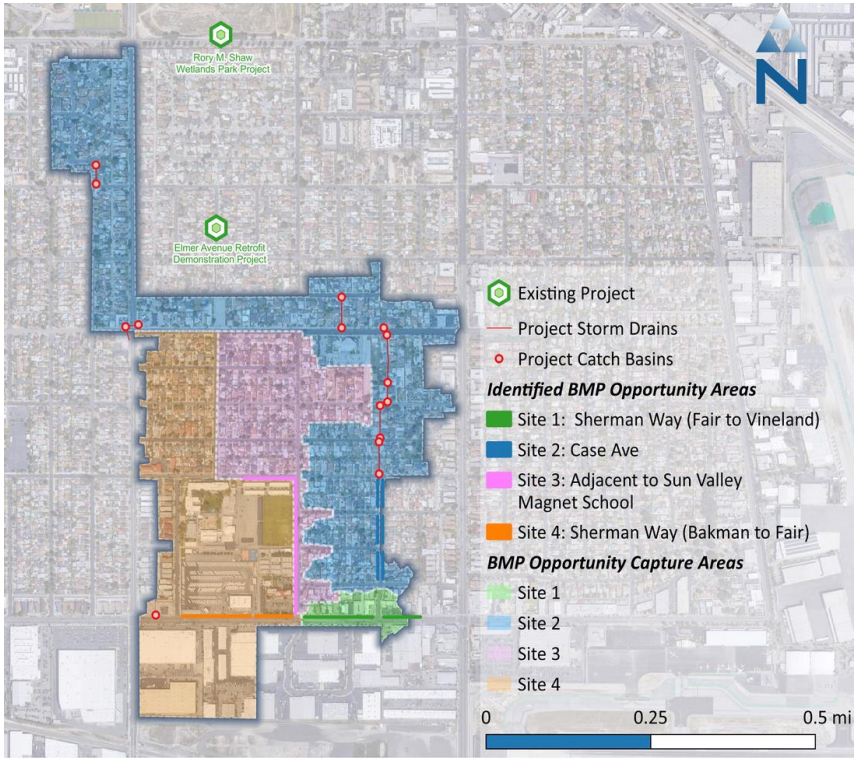
- Primary Objective: Increase water supply, improve water quality, and mitigate localized flooding by constructing nature-based stormwater capture and infiltration features.
- Secondary Objectives: Enhance safety and recreational opportunities for the neighborhood
- Project Status – Funding Request for: Planning, Design, O&M, Monitoring, & Construction
- Total Funding Requested: $13,771,475

Project Location

Project Location

DAC Location Map (shown in orange)

Project Location



Drainage Area and Project BMP Opportunity Areas

Project Background

- Project location selected because the Sun Valley Neighborhood has:
  - Historically experienced flooding
  - Minimal existing stormwater and green infrastructure
  - Located within a Disadvantaged Community (DAC)
- The project was developed taking into account the water quality and supply needs of area, in addition to community needs
- The project area is included in the Upper Los Angeles River (ULAR) Enhanced Watershed Management Program (EWMP), identified as Subwatershed No. 664249

Localized flooding at Case Avenue and Sherman Way

Localized flooding Case Avenue and Valerio St

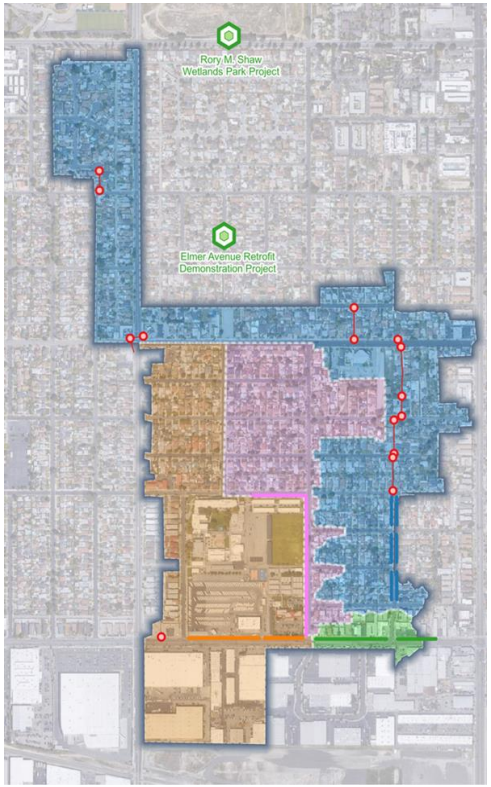
Partners

- Communities/groups that have expressed support for the project:
  - Council District 2
  - Sun Valley Area Neighborhood Council
- 19 total Letters of Support received from community members
- Letter of Support received from the ULARA Watermaster
- Vector Control District will be contacted during design phase

LOS ANGELES CITY COUNCIL PRESIDENT
PAUL KREKORIAN
COUNCILMEMBER, SECOND DISTRICT

SUN VALLEY AREA NEIGHBORHOOD COUNCIL

Project Details



Project Layout

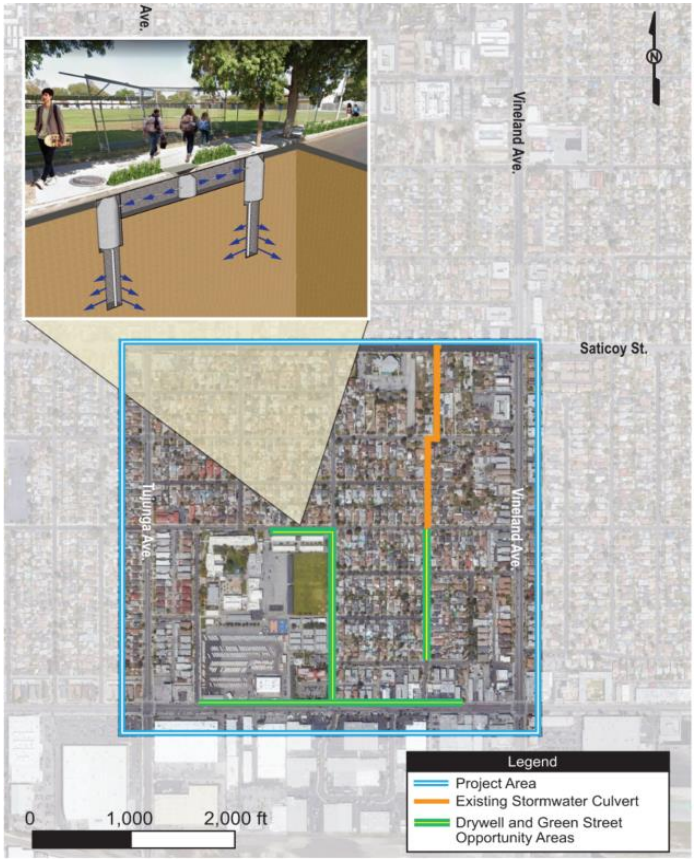
Preliminary geotechnical investigation was completed to determine:

- Soil Type: Interbedded sand and silty sand
- Groundwater Depth: Not Encountered
- Design Infiltration Rate: 4.5 in/hr

The following alternative concepts were considered:

- **Alternative 1** - Including County storm drain diversions along Vineland Avenue
    - Not chosen due to high cost
- **Alternative 2** - Excluding a portion of the capture area and County storm drain diversions along Vineland Avenue
    - Not chosen due to exclusion of improvements near school

Project Details



Project Layout

Project to include:

- 40 drywells
- 2,000 square ft of bioswales
- Approximately 35 trees
- Native, drought-resistant vegetation
- Stormwater educational signages

Project Benefits

- Benefits to municipality/municipalities:
  - Capable of capturing 189.9 AF of runoff annually (76.1 AF/yr of wet weather runoff and an additional 113.8 AF/yr of dry weather runoff)
  - Captures 8.9 AF (91% of the 85th Percentile storm volume)
  - Removal of 81% of zinc and 85% of trash from captured runoff.

- Disadvantaged Community (DAC) Benefits:
  - Improved flood management and flood risk mitigation.
  - Additional trees (35) and greening to provide improved air quality, reduction of heat island effect, and increased carbon sequestration.
  - Reduction in pollutants from local runoff.
  - Increased educational opportunities about stormwater and water resources.

Cost & Schedule

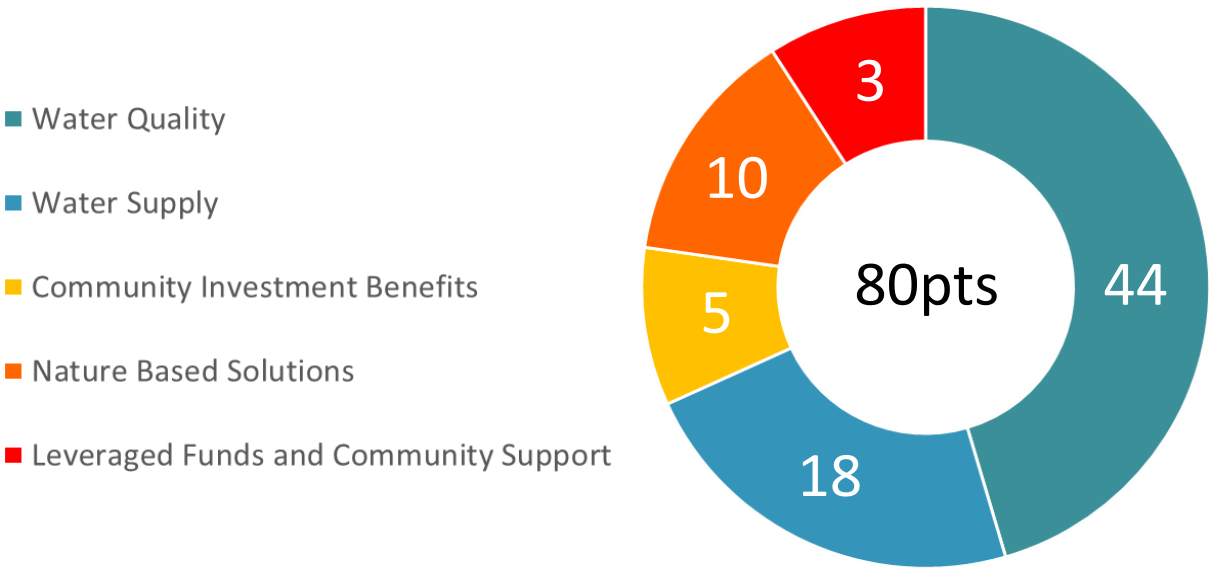
Phase	Description	Cost	Completion Date
Planning	Project Planning, Permitting, Preliminary Design	$963,363	YR1-FY24/25
Design & CM	Design and CM	$4,034,917	YR5-FY28/29
Bid & Award	Bid & Award	$87,241	YR4-FY27/28
Construction	Construction	$10,817,940	YR5-FY28/29
Monitoring and O&M	Three (3) years post-construction monitoring	$467,154	Continued After Project Construction
TOTAL		**$16,370,615**	
Leveraged Funds	City Services	$2,599,140	YR1-YR5

Funding Request

5-Yr Cash Flow						
0	YR1-FY24/25	YR2-FY25/26	YR3-FY26/27	YR4-FY27/28	YR5-FY28/29	Total
Project Cost						
Planning	$963,363	$0	$0	$0	$0	$963,363
Design	$0	$1,308,622	$981,466	$872,415	$872,415	$4,034,917
Construction	$0	$0	$0	$5,452,591	$5,452,590	$10,905,181
O&M	$0	$0	$0	$0	$327,154	$327,154
Monitoring	$0	$0	$0	$0	$140,000	$140,000
Total Cost	**$963,363**	**$1,308,622**	**$981,466**	**$6,325,006**	**$6,792,159**	**$16,370,615**
Total Leverage	**$200,000**	**$599,785**	**$599,785**	**$599,785**	**$599,785**	**$2,599,140**
Funding Request	**$763,363**	**$708,837**	**$381,681**	**$5,725,221**	**$6,192,374**	**$13,771,475**

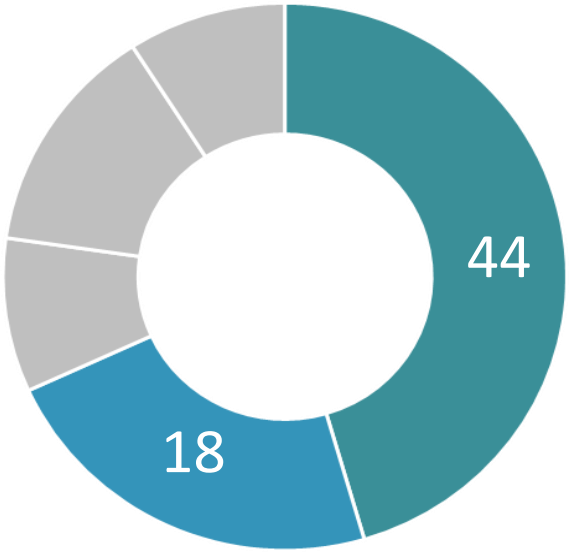
- 15.9% of funding matched (City Services)

Scoring



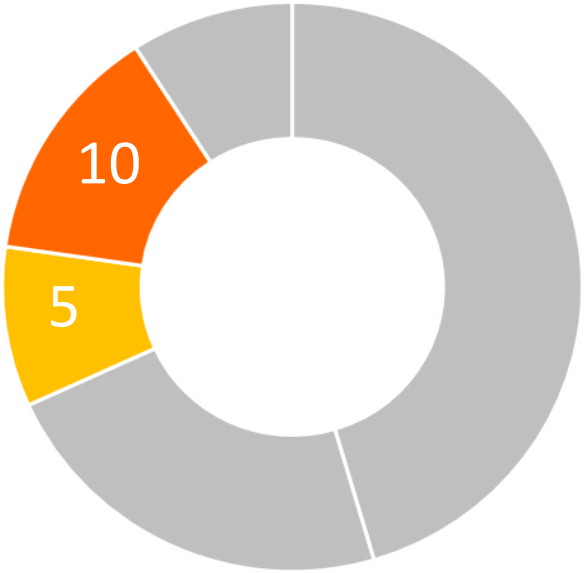
*Scored in Scoring Committee Meeting on November 2, 2023

Water Quality & Water Supply Benefits



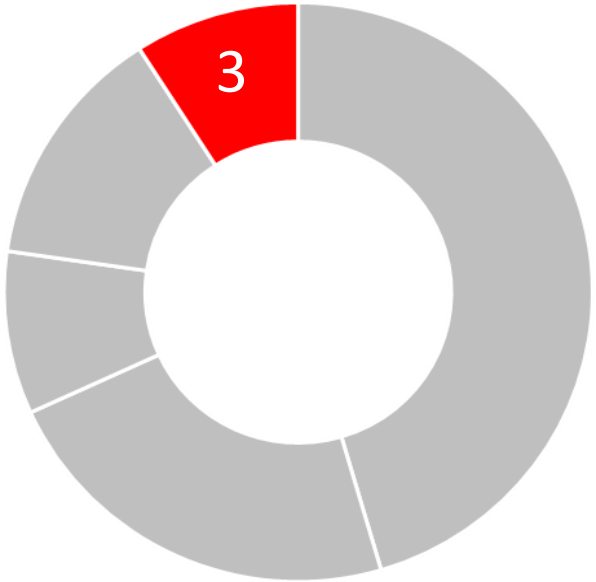
- Water Quality
  - Water quality effectiveness 0.82 AF/$-Million
  - 81% Primary Load (zinc) reduction
  - 85% Secondary Load (trash) reduction
- Water Supply
  - Water supply cost effectiveness of $5,244/AF
  - 189.9 AF/yr of stormwater capture

Community Investment Benefits and Nature Based Solutions



- (6) Community Investment Benefits
  - Improved flood mitigation
  - Enhancement and Restoration of Habitat
  - Enhanced recreational opportunities
  - Increased shade and reduced heat island effect
  - Increased carbon sequestration and air quality improvements
- Nature Based Solutions
  - Implements natural processes in stormwater runoff infiltration
  - Use of natural materials and California-native vegetation

Leveraging Funds and Community Support



- Leveraging Funds
  - The City is exploring potential leveraged funding opportunities
  - 15.9% of funding will be matched
- Community Support
  - The project has been embraced by the local community
  - 19 Letters of Support received from community members and local community organizations


Questions?
Kevin Ho

Osborne Street Stormwater Capture Green Street Project

Infrastructure Program – Fiscal Year 2024-2025

Upper Los Angeles River Watershed

City of Los Angeles, Bureau of Street Services (StreetsLA)

Previously Awarded TRP – No

Presenters:

Mark Prieto-Ines, StreetsLA

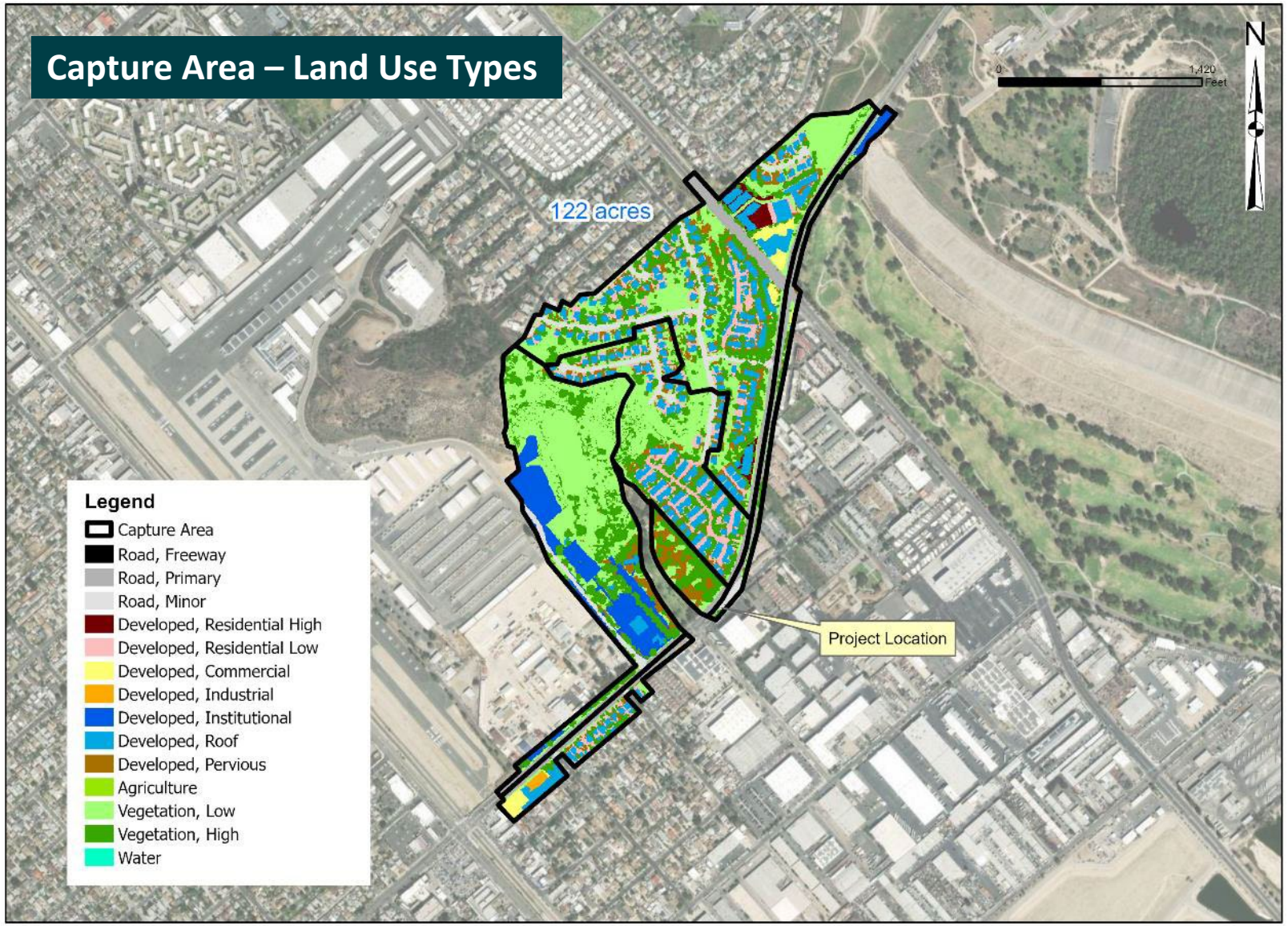
Curtis Fang, Geosyntec Consultants

Project Overview

Regional stormwater capture and infiltration located along 1.7-mile stretch of Osborne Street to enhance active transportation improvements

- Project Lead: **StreetsLA**
- Primary Objective: **Use nature-based solutions to provide 5.1 ac-ft water quality management capacity.**
- Secondary Objectives: **Recharge groundwater, promote active transportation, reduce local urban heat island effect**
- Phases for which SCW funding is being requested: **Planning, Design, and Construction**
- Total Funding Request: **$9,500,000**

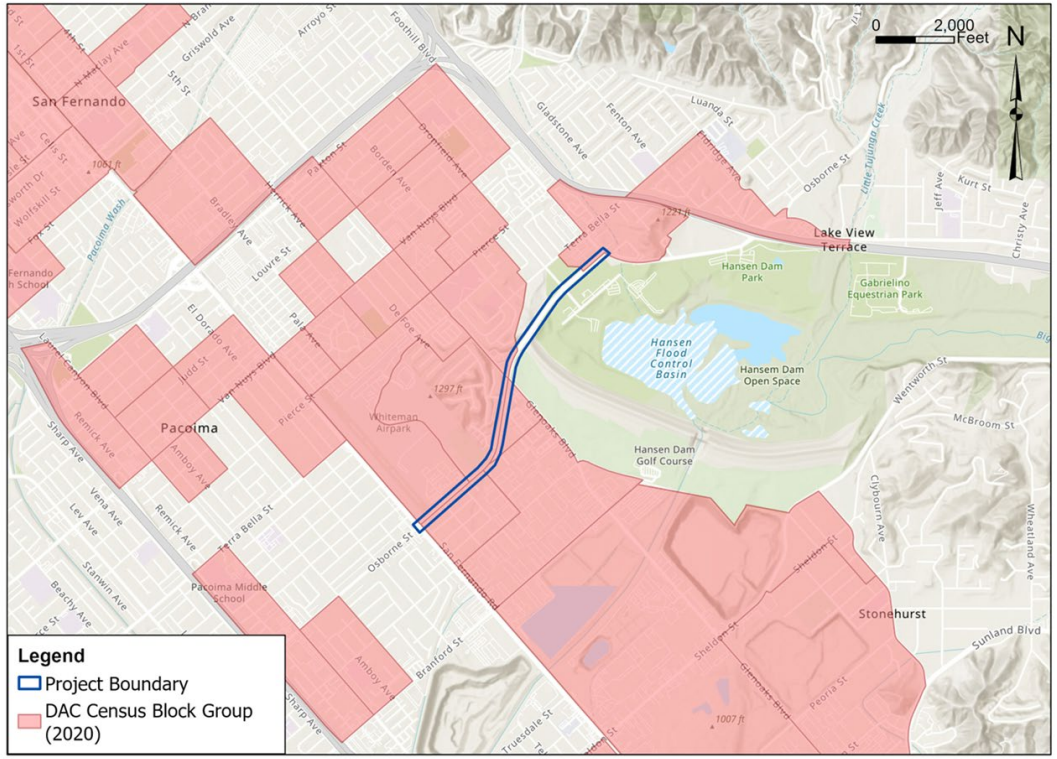
Project Location



The Project will capture 122-acres of drainage area in the City of Los Angeles portion of the Upper Los Angeles River Watershed Management Program Area.

Project Location

Disadvantaged Communities



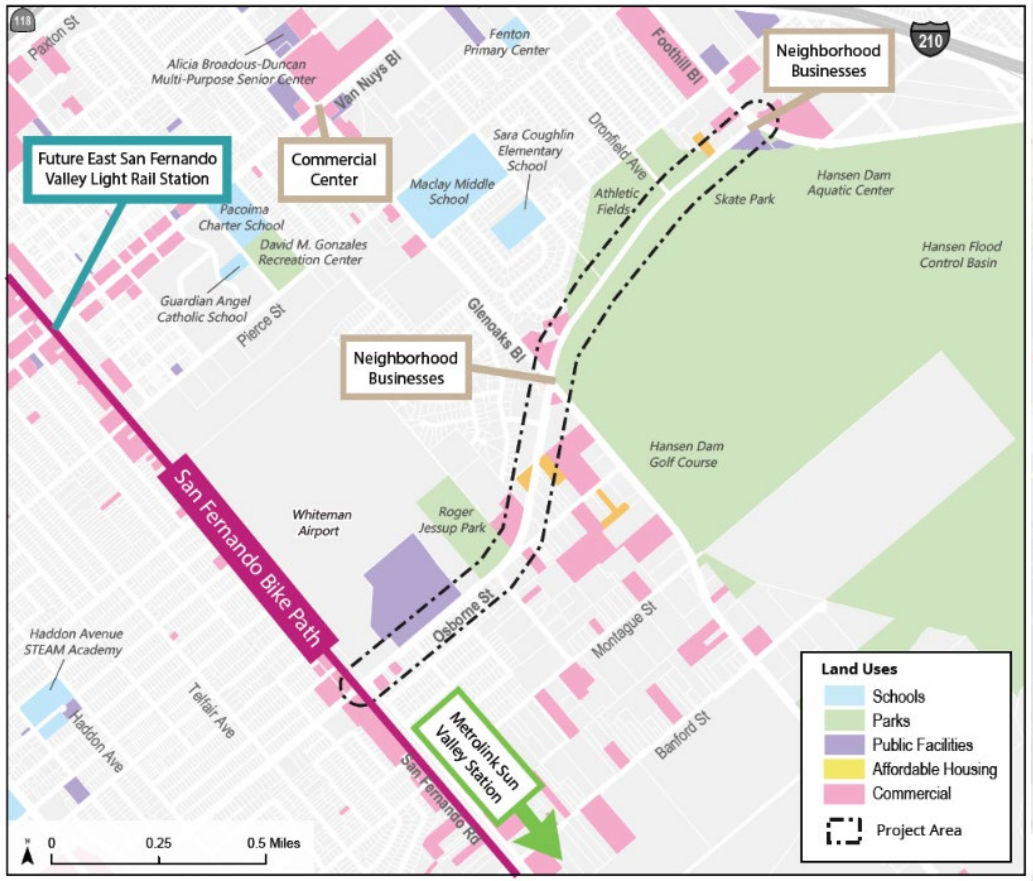
City of LA Equity Tool showing Cooling Center Need

The Project encompasses five DAC census block groups that are in great need for shade improvement within the City of Los Angeles, Council District 7.

Project Background

The Osborne Street Path to Park Access Project was selected and developed to:

- prioritize livability and safety within a disadvantaged community, and
- creates a complete street between transportation options, neighborhood destinations, open spaces, waterways, and trails.



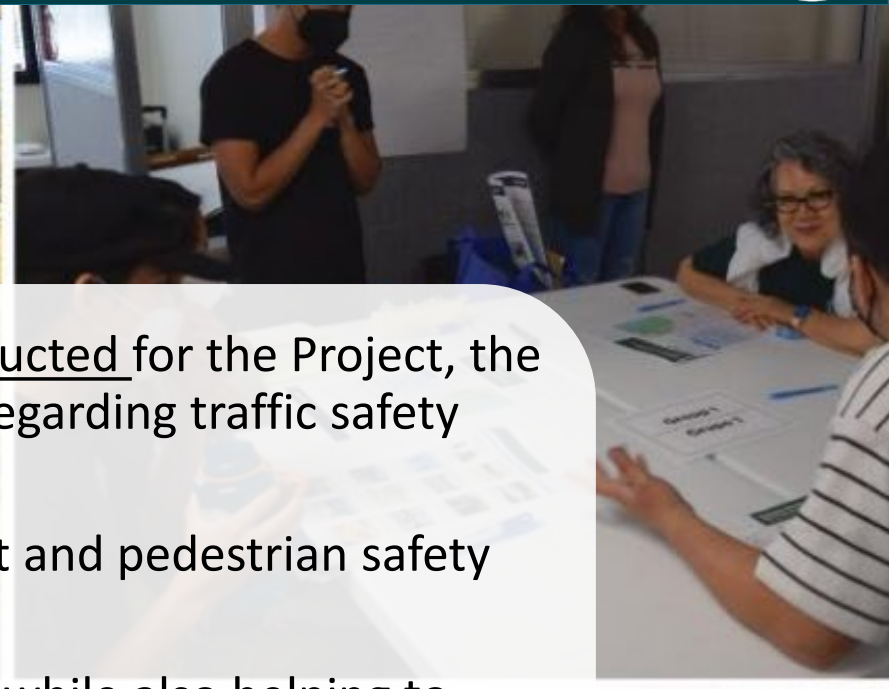
Project Background

The stormwater capture component is integrated to provide additional water quality, water supply and community investment benefits to the municipality and disadvantaged community:

- ULAR WMP Implementation: Contribute 5.1 ac-ft of 24-hr stormwater management capacity to ULAR EWMP subwatershed 668649
- Groundwater recharge: Infiltrate 95.5 ac-ft/year of water into the underlying San Fernando Valley Groundwater Basin.
- Improved flood management
- Creation, enhancement, and restoration of open space
- Recreational enhancements (protected bike lanes and walkways)
- Heat island effect reduction
- Increased shade with 250 new trees
- Accessible, safe route to Hansen Dam Recreation Area and other community destinations

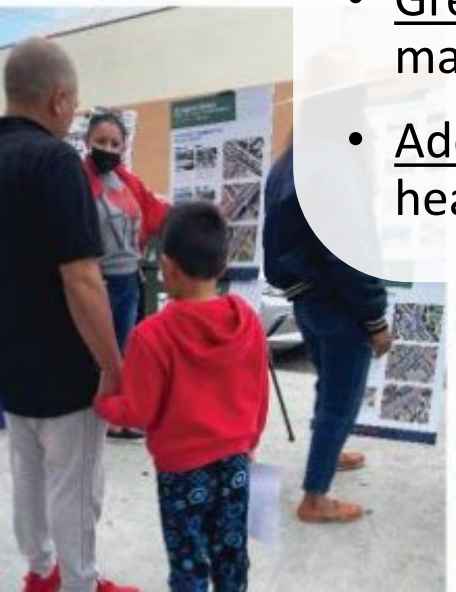
Project Background

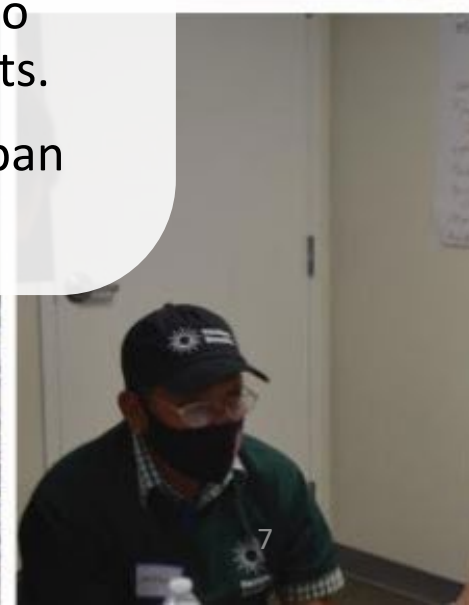




Based on feedback provided at over 20 outreach events conducted for the Project, the community identified major concerns along Osborne Street regarding traffic safety and lack of shade along the corridor.

- New protected bike lanes and sidewalks will increase cyclist and pedestrian safety and encourage more active transportation.
- Green stormwater features will provide shade and cooling, while also helping to manage stormwater runoff, prevent flooding, and provide water quality benefits.
- Addition of green space and trees throughout the corridor will reduce local urban heat island effect and provide physical and mental health benefits.



Partners – Strong Community and Elected Official Support

Pacoima Beautiful

Office: 818.899.2454 Fax: 818.485.4306
12510 Van Nuys Boulevard, Suite 302, Pacoima, CA 91331

June 13, 2023

Safe, Clean Water Program
Upper Los Angeles Watershed Area Committee
Scoring Committee
Regional Oversight Committee

Subject: Safe, Clean Water (SCW) Regional Program Round 5 Letter of Support for the Osborne Street Stormwater Capture Green Street Project

elnido FAMILY CENTERS
A CHILD CAN'T GROW UP TWICE

Administration Office
440 Shatto Place, Suite 417
Los Angeles, CA 90020
Tel: 818.830.3646
Fax: 818.891.6547
www.elnidofamilycenters.org

Executive Director
Liz Herrera, LCSW

Board Officers
Lisa Carloss, MBA
President

To: Safe, Clean Water Program

Attention: Upper Los Angeles Watershed Area Committee
Scoring Committee
Regional Oversight Committee

Subject: **Safe, Clean Water (SCW) Regional Program Round 5 Letter of Support for the Osborne Street Stormwater Capture Green Street Project**

CHAMPIONS IN SERVICE
Every Family Needs A Champion
12605 Osborne St (CIS), Pacoima, Ca 91331 - 818.891.9399

Los Angeles County Flood Control District
% Safe, Clean Water Program
Upper Los Angeles River Watershed Area Committee
Scoring Committee, Regional Oversight Committee
900 S. Fremont Avenue Alhambra, CA 91803

Subject: Safe, Clean Water (SCW) Regional Program Round 5 Letter of Support for the Osborne Street Stormwater Capture Green Street Project

LOS ANGELES POLICE SERGEANT 4765

SERGEANT II Jesse Ojeda
Foothill Area Community Relations Office
Officer in Charge
(818) 756-8866

June 19, 2023

Los Angeles County Flood Control District
% Safe, Clean Water Program
Upper Los Angeles River Watershed Area Committee
Scoring Committee, Regional Oversight Committee
900 S. Fremont Avenue Alhambra, CA 91803

Subject: Safe, Clean Water (SCW) Regional Program Round 5 Letter of Support for the Osborne Street Stormwater Capture Green Street Project

Fernandeño Tataviam Band of Mission Indians
Native Sovereign Nation

Fernandeño Tataviam Band of Mission Indians · California ·

Rudy J. Ortega Jr.

July 19, 2023

Los Angeles County Flood Control District
% Safe, Clean Water Program
Upper Los Angeles River Watershed Area Co
Scoring Committee, Regional Oversight Comm
900 S. Fremont Avenue Alhambra, CA 91803

RE: SAFE, CLEAN WATER (SCW) REGI
FOR THE OSBORNE STREET STORMW

Metro

Los Angeles County
Metropolitan Transportation Authority

One Gateway Plaza
Los Angeles, CA 90012-2952

213.922.2000 Tel
metro.net

June 28, 2023

To: Safe, Clean Water Program

Attention: Upper Los Angeles Watershed Area Committee
Scoring Committee
Regional Oversight Committee

Subject: **Safe, Clean Water (SCW) Regional Program Round 5 Letter of Support for the Osborne Street Stormwater Capture Green Street Project**

Partners – Strong Community and Elected Official Support

COMMITTEE: ENERGY AND COMMERCE

SUBCOMMITTEES 118TH
SUBCOMMITTEE ON COMMUNICATIONS AND TECHNOLOGY
SUBCOMMITTEE ON ENERGY, CLIMATE, AND GRID SECURITY
SUBCOMMITTEE ON HEALTH

Tony Cárdenas
Congress of the United States
29th District, California

WASHINGTON OFFICE
2181 RAYBURN HOUSE OFFICE BUILDING
WASHINGTON, DC 20515
P (202) 225-6131
F (202) 225-0819

DISTRICT OFFICE
9612 VAN NUYS BOULEVARD, SUITE 201
PANORAMA CITY, CA 91402
P (818) 221-3718
F (818) 221-3801

Los Angeles County Flood Control District
C/O Safe, Clean Water Program
Upper Los Angeles River Watershed Area Committee
Scoring Committee, Regional Oversight Committee
900 S. Fremont Avenue
Alhambra, CA 91803

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E-MAIL
Assemblymember.Rivas@assembly.ca.gov

Assembly
California Legislature
LUZ M. RIVAS
ASSEMBLYMEMBER, FORTY-THIRD DISTRICT

COMMITTEES
CHAIR: NATURAL RESOURCES
BUDGET
COMMUNICATIONS AND CONVEYANCE
REVENUE AND TAXATION
BUDGET SUBCOMMITTEE NO. 3 ON CLIMATE CRISIS, RESOURCES, ENERGY, AND TRANSPORTATION

JOINT COMMITTEES
BUDGET

June 15, 2023

Los Angeles County Flood Control District
Safe, Clean Water Program
Upper Los Angeles River Watershed Area Committee
Scoring Committee, Regional Oversight Committee
900 S. Fremont Avenue Alhambra, CA 91803

t for Safe, Clean Water (SCW) Regional Program Round 5 Letter of Support for the Osborne Stormwater Capture Green Street Project

City of Los Angeles

MONICA RODRIGUEZ
COUNCILWOMAN, 7TH DISTRICT

June 13, 2023

Los Angeles County Flood Control District
% Safe, Clean Water Program
Upper Los Angeles River Watershed Area Committee
Scoring Committee, Regional Oversight Committee
900 S. Fremont Avenue Alhambra, CA 91803

Subject: Safe, Clean Water (SCW) Regional Program Round 5 Letter of Support for the Osborne Street Stormwater Capture Green Street Project

California State Senate

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VAN NUYS, CA 91401
TEL (818) 901-5588

SENATOR.MENJIVAR@SENATE.CA.GOV

SENATOR
CAROLINE MENJIVAR, MSW
TWENTIETH SENATE DISTRICT

COMMITTEES
BUDGET & FISCAL REVIEW
ELECTIONS & CONSTITUTIONAL AMENDMENTS
ENVIRONMENTAL QUALITY
HEALTH
HUMAN SERVICES
MILITARY & VETERAN AFFAIRS

SUBCOMMITTEE
BUDGET SUBCOMMITTEE #3 ON HEALTH & HUMAN SERVICES
CHAIR

July 21, 2023

Los Angeles County Flood Control District
% Safe, Clean Water Program
Upper Los Angeles River Watershed Area Committee
Scoring Committee, Regional Oversight Committee
900 S. Fremont Avenue Alhambra, CA 91803

Subject: Safe, Clean Water (SCW) Regional Program Round 5 Letter of Support for the Osborne Street Stormwater Capture Green Street Project

Partners

Ongoing Correspondence with Vector Control District

From: Mark Hall <mhall@glacvcd.org>
Sent: Thursday, July 20, 2023 1:02 PM
To: Kimberly Goins
Cc: Alyssa Yu; Phil Reidy; Curtis Fang; mark.prieto-ines@lacity.org; gina.liang@lacity.org
Subject: RE: Vector Control District Contact - Osborne Street Stormwater Capture Green Street Project

Some people who received this message don't often get email from mhall@glacvcd.org. Learn why this is important

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic. If you suspect fraud, click "Phish Alert Report."

Hi Kimberly,

Thank you for the additional documents. After reviewing the proposed project, I only have a few items of concern that will need to be verified. Also, I understand the drawing supplied are not construction specific and any comments related should be considered for inclusion into the final construction plans.

- Diversion structure – The secondary side of the structure to slope to the invert of the discharge so there is no standing water in the absence of flow. Maintenance hole covers must be sealed (void of any through or pick holes), or have a mosquito exclusion insert installed beneath each cover to eliminate mosquito access into or out of the system.
- Pretreatment (CDS) units – Devices must be from the State Water Board list of certified full trash capture devices. Access covers must be sealed (void of any through or pick holes), or have mosquito exclusion inserts installed beneath each cover.
- Drywells – Many drywells are designed with a solid bottom and the wall perforations do not allow for complete draining of the unit. The floor of each drywell must be pervious to allow for complete draining of the unit. Additionally, maintenance or access covers must be sealed (void of any through or pick holes), or have mosquito exclusion inserts installed beneath each cover.
- Catch basins – Basin must slope to discharge pipe invert. No standing water.

Please let me know if you have any questions or concerns with the above comments or other aspects of the project.

Thanks again,
Mark

Mark Hall
Environmental Program Manager
Greater Los Angeles County Vector Control District
12545 Florence Avenue
Santa Fe Springs, CA 90670
Office: 562.944.9656 x554
Cell: 562.244.2029

Letter of Support from ULARA Watermaster

ULARA
UPPER LOS ANGELES RIVER AREA
WATERMASTER
Richard C. Slade - Watermaster

ularawatermaster.com
14051 Burbank Blvd, STE 300
Sherman Oaks, CA 91401
818-506-0418 PHONE
818-506-1343 FAX

July 19, 2023

To: SCWP Regional Oversight Committee Members
SCWP Scoring Committee Members
SCWP ULAR Watershed Area Steering Committee Members
City of Los Angeles Bureau of Street Services (Streets LA)

Re: Letter of Support for Streets LA
For Osborne Street Stormwater Capture
Green Street Project, San Fernando Basin

Dear Committee Members:

The undersigned, as the Court-appointed Watermaster for the adjudicated region known as the Upper Los Angeles River Area (ULARA), wishes to express my direct support for the Streets LA grant funding application for its Osborne Street Stormwater Capture Green Street Project (the Project). The Project is located along Osborne Street, between San Fernando Road on the southwest and Foothill Blvd on the northeast, and along the northwesterly side of the Hansen Dam Golf Course; as such, the Project overlies a portion of the San Fernando Groundwater Basin (Basin), the largest of the four adjudicated groundwater basins in ULARA.

This Watermaster recognizes that various local agencies are applying for Regional Project Funds under the Los Angeles County Flood Control District's Safe Clean Water Program (SCWP). I also understand that I have been contacted by Streets LA, as the local Watermaster for this adjudicated Basin, to provide my concurrence and support of the proposed goals of the Project.

From information provided to my office by Streets LA, the Project is to consist of a series of dry wells and linear bioretention features designed to capture local stormwater, and dry-weather and wet-weather flows, and to help permit the captured flows to deep percolate (infiltrate) into the ground. Water supply benefits could include improving the quality of the runoff flows, reducing local street flooding, and potentially increasing the local water supply by inducing recharge to the local groundwater in this portion of the Basin.

Project Details

Engineering analysis completed during the Feasibility Study phase:

- ✓ As-built review
- ✓ Utility mapping
- ✓ H&H analysis
- ✓ In-situ geotechnical exploration
- ✓ Conceptual design
- ✓ Cost estimate

Subsurface BMP alternative evaluated:

- ~~× Infiltration trench~~
- ~~× Diversion to sewer~~
- ~~× Cistern~~
- ✓ Drywell

Drywell is selected due to cost effectiveness, O&M procedure familiarity, and favorable deep infiltration condition at the Project site

Surface BMP alternative evaluated:

- ✓ Tree well filter
- ✓ Rain garden
- ✓ Bioswale
- ✓ Bioretention planter
- ~~× Engineered wetland~~
- ~~× Pervious pavement~~

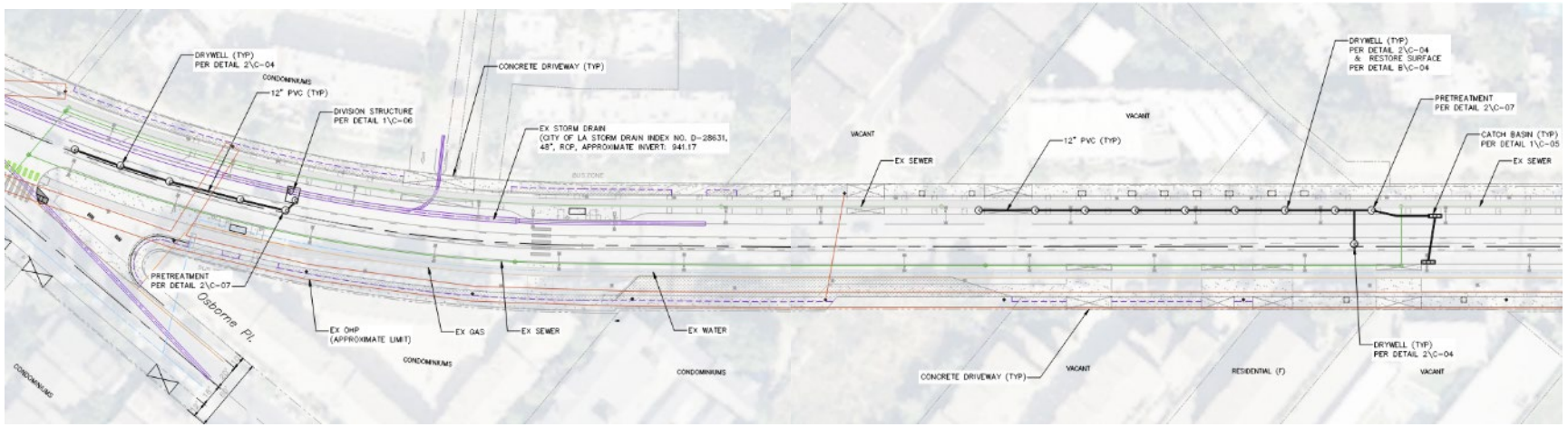
Selected surface BMPs are compatible with the landscape plan of the Osborne Street: Path to Park Access Project

Project Details (Plan View)

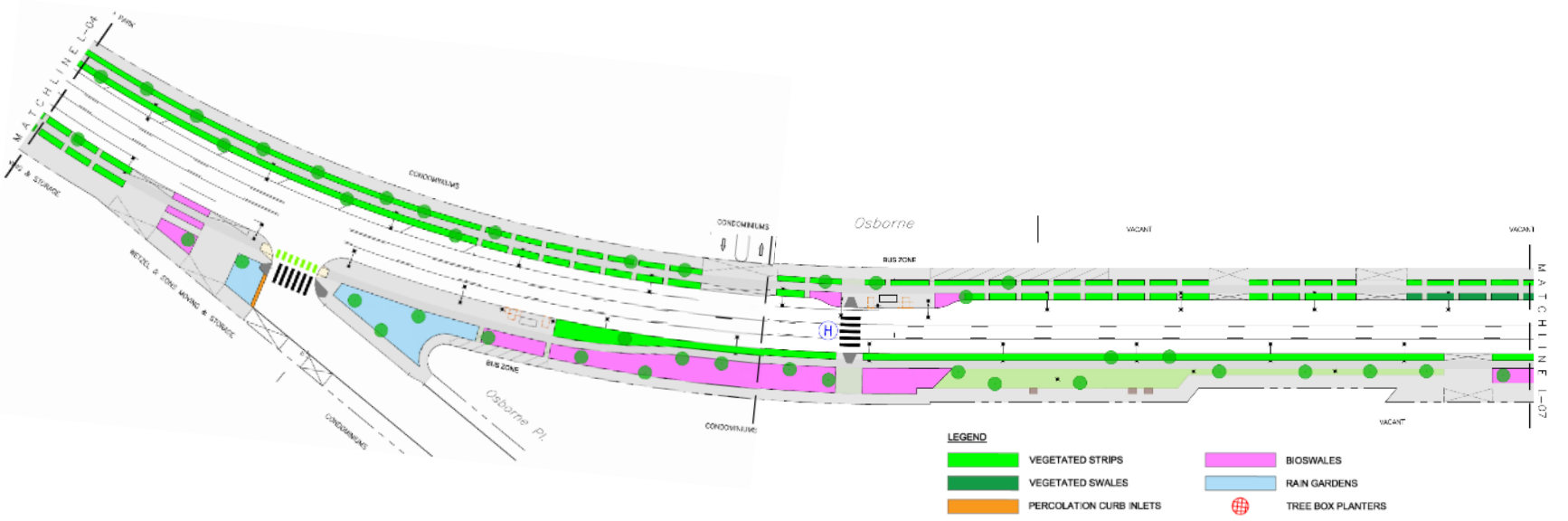
BMP quantities and locations are optimized based on H&H modeling output to fully capture the design storm.

- ✓ 19 drywells
- ✓ 1 storm drain diversion
- ✓ 131,000 sq-ft of vegetated bioswale, bioretention planters, rain gardens, and tree box infiltration planters
- ✓ 250 new trees

Partial Site Layout - Subsurface Infiltration Features

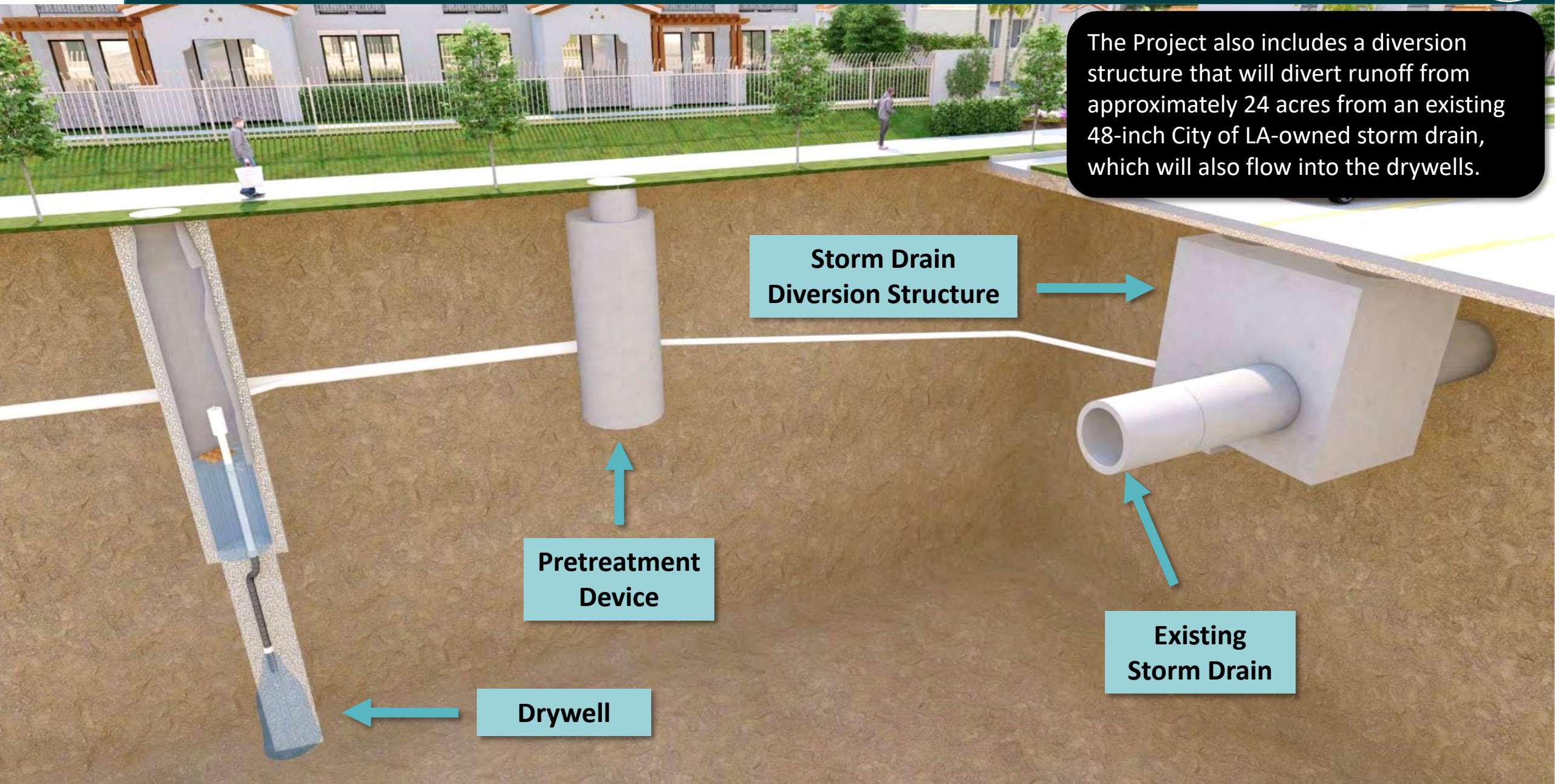


Partial Site Layout - Green Street Surface Features

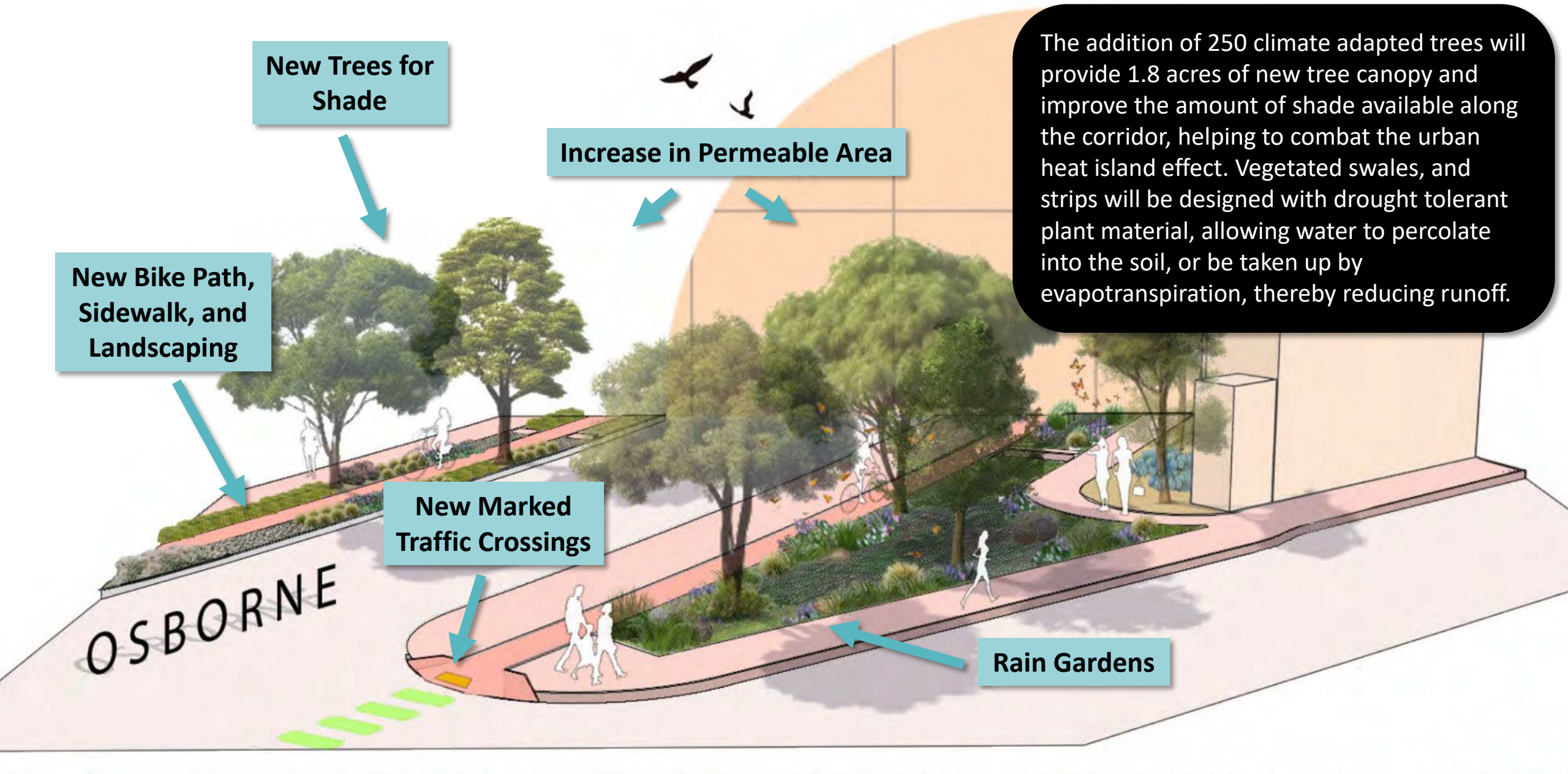


Project Details (Surface Capture Illustration)

Project Details (Storm Drain Diversion Illustration)



Project Details (Community Benefits Illustration)



The addition of 250 climate adapted trees will provide 1.8 acres of new tree canopy and improve the amount of shade available along the corridor, helping to combat the urban heat island effect. Vegetated swales, and strips will be designed with drought tolerant plant material, allowing water to percolate into the soil, or be taken up by evapotranspiration, thereby reducing runoff.

Cost & Schedule

Phase	Description	Cost	Completion Date
Planning	Planning includes early concept design, site investigations, and California Environmental Quality Act (CEQA) and other environmental impact studies and permitting	$597,400	6/2025
Design	Design includes, pre-project monitoring, site investigations, formal project design, intermediate and final project completion audits.	$4,659,600	6/2026
Construction	Construction cost includes the cost of labor, equipment, material, plus overhead and contingencies.	$11,947,800	6/2028
	TOTAL	**$17,205,000**	

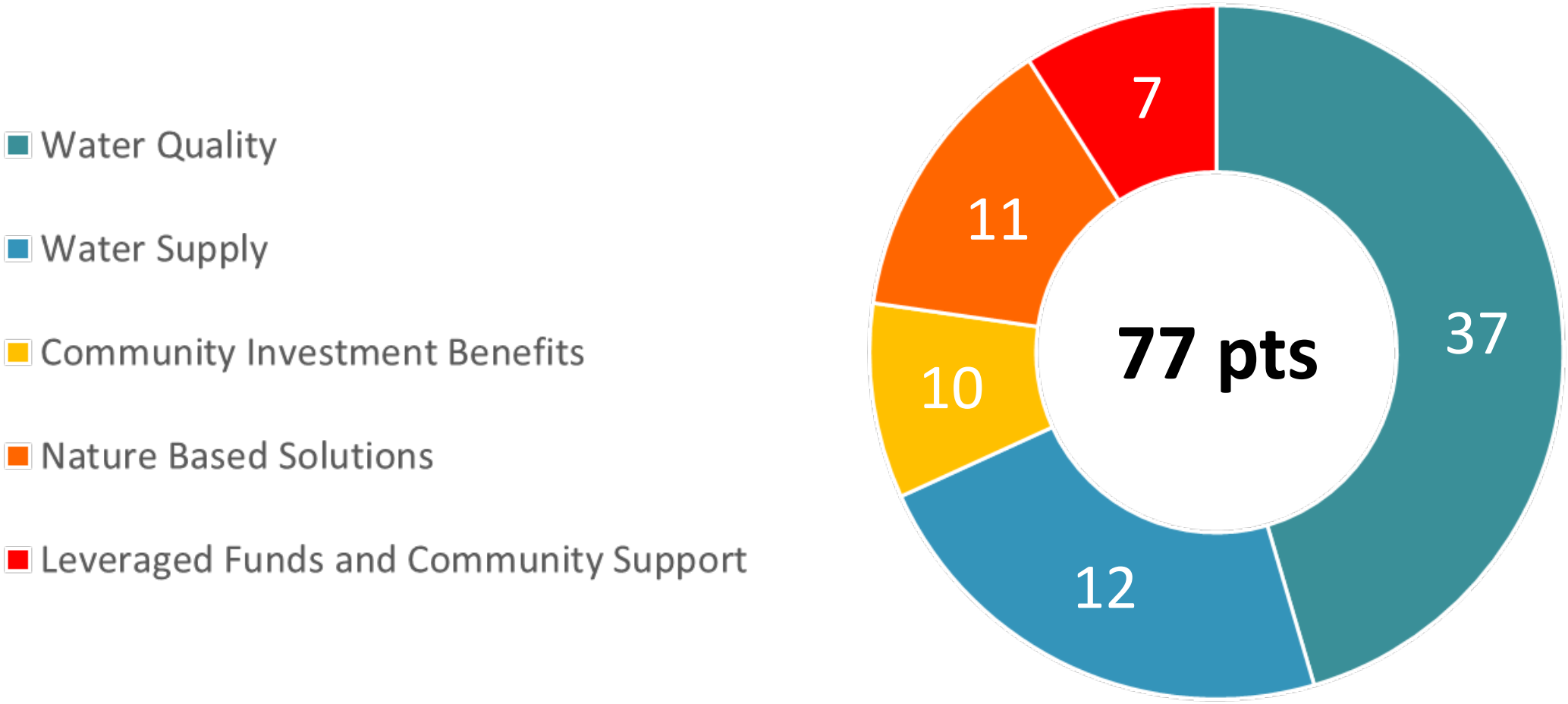
- Annual O&M: $169,850 / Annual Monitoring: $38,800
- Project Lifespan: 30 years
- (Module-generated) Life-Cycle Cost for Project: $21,103,312.49
- (Module-generated) Annualized Cost for Project: $1,129,515.95

Funding Request

Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	$150,000	Planning	Project planning will be completed during Year 1
2	$1,194,780	Design	Project design and permitting will be completed during Year 2
3	$3,262,088	Construction	Project construction will begin in Year 3
4	$4,893,132	Construction	Project construction will be completed in Year 3
5	-	-	--
TOTAL	**$9,500,000**		

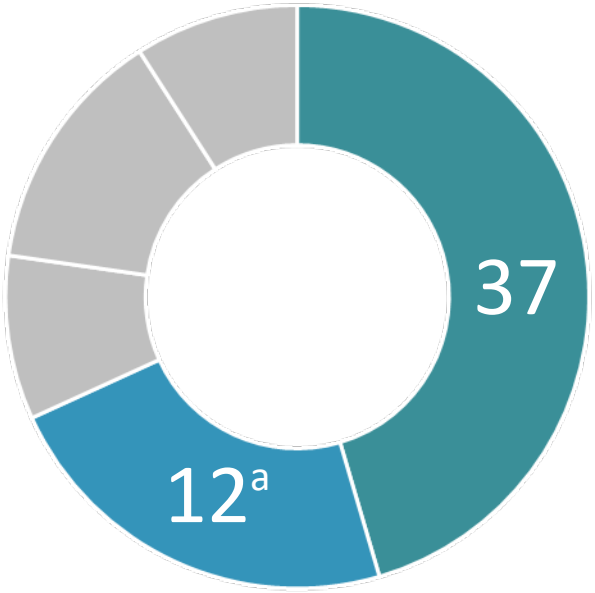
Leveraged Funding: **$7,705,000 (45% Cost Share)**

Final Score as confirmed by the Scoring Committee



The Scoring Committee confirmed this score on December 7, 2023

Water Quality & Water Supply Benefits

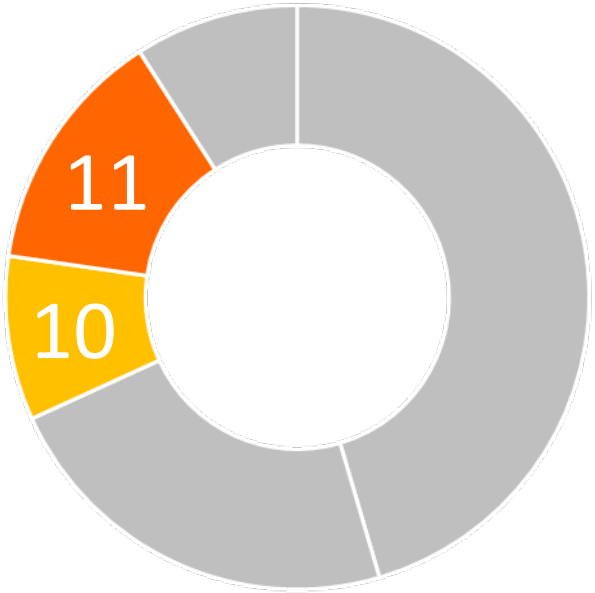


[a] Calculated using alternative pilot scoring rubric

Water Quality Benefits	✓ **5.1 ac-ft,** 24-hour management of flows from 122-acre drainage area (85th Percentile Storm) ✓ **98.4%** Zinc Removal / **91.0%** Bacteria Removal ✓ 0.43 AF / $ M ✓ Contribute to ULAR WMP Implementation Metric
Water Supply Benefits	✓ **95.5 ac-ft** annual average capture for water supply ✓ Recharge benefits to the underlying San Fernando Valley Groundwater Basin ✓ Capture of first flush flows up to design capacity ✓ Cost Effectiveness: $ 11,825 per ac-ft

The Scoring Committee confirmed this score on December 7, 2023

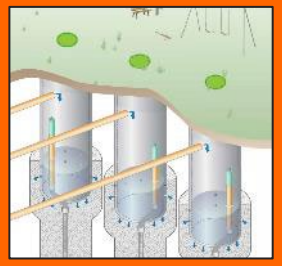
Community Investment Benefits and Nature Based Solutions



Community Investment

- ✓ Improved flood management
- ✓ Creation of habitat and park space
- ✓ Recreational enhancements (protected bike lanes and walkways)
- ✓ Accessible, safe route to Hansen Dam Recreation Area
- ✓ Heat island effect reduction with 131,000 sf of permeable, vegetated areas
- ✓ Increased shade with 250 new trees

Nature-based Solutions



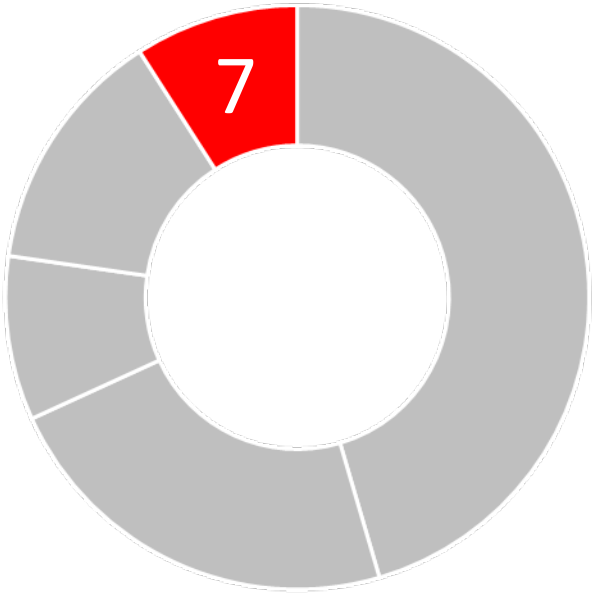
Mimics natural processes

Removes 3 acres of impervious surface

Uses Natural Vegetation

The Scoring Committee confirmed this score on December 7, 2023

Leveraging Funds and Community Support



Leveraging Funds and Community Support	✓ 45% leveraged funding match using municipal and Active Transportation Program funds ✓ Project demonstrates strong, local, community-based support ✓ Project has been developed as part of a partnership with local NGOs and CBOs

The Scoring Committee confirmed this score on December 7, 2023

Questions?

Mark Prieto-Ines
StreetsLA

Curtis Fang
Geosyntec Consultants