Safe, Clean Water Program

Upper Los Angeles River
Watershed Area Steering Committee (WASC)

Meeting Minutes:
Monday, March 2, 2020
2:00pm – 4:00pm
Los Angeles County Public Works, Headquarters – Conference Room A
900 S. Fremont Ave., Alhambra, CA 91803

Attendees:

Committee Members Present:
Paul Lui (LA Dept. of Water and Power)
Javier Solis* (LA Recreation & Parks)
Alfredo Magallanes (Los Angeles – Sanitation)
Art Castro* (LA Dept. of Water and Power)
David Nahai (Lewis Brisbois Bisgaard & Smith)
Veronica Padilla-Campos (Pacoima Beautiful)
John Luker (Santa Susana Mountain Park Association)
Yazdan Emrani (Glendale)
Teresa Villegas* (Los Angeles)
Patrick DeChellis (La Canada Flintridge)
Miguel Luna (Urban Semilla DakeLuna Consultants)
Paul Alva (Los Angeles County Public Works)
Gary Hildebrand (Los Angeles County Flood Control District)
Ernesto Pantoja (Laborers Local 300)
Kris Markarian (Pasadena)

Committee Members Not Present:
Jeff Camp (Los Angeles)
Ackley Padilla (Los Angeles)

*Committee Member Alternate

See attached sign-in sheet for full list of attendees

1. Welcome and Introductions

Mr. David Nahai, the Chair of the Upper Los Angeles River WASC, called the meeting to order.

All committee members made self-introductions and quorum was established.

2. Approval of Meeting Minutes from February 24, 2020

The District provided a copy of the meeting minutes from the previous meeting. Mr. Nahai asked the committee members for comments or revisions, there were none. Mr. Yazdan Emrani made a motion to approve the meeting minutes from February 24, 2020. Mr. Pat DeChellis seconded the motion. **The Committee voted to approve the meeting minutes from February 24, 2020 (unanimous).**

3. Committee Member and District Updates

Mr. CJ Caluag announced that today is the last day of presentations. He said there are two meetings scheduled in March for the Committee to develop the SIP and, tentatively, meeting in April to further develop the SIP if needed.

Mr. Caluag noted that District staff developed general tools and guidelines for the Committee to further develop SIP. He also showed the Committee the SIP Tool that may be used during the next meetings when discussing the SIP.

Mr. Nahai said he attended a meeting with the WASC chairs, expressed that it was valuable and shared what he learned from the meeting.

Ms. Teresa Villegas asked if the SIP tool will be provided to the Committee. Mr. Caluag said it is meant to use during the meetings, but that District staff will provide handouts guiding the Committee on how the SIP Tool works.

4. Public Comment Period

No public comments.

5. Discussion Items

a) Ex Parte Communications

Ms. Teresa Villegas said she was informed on the City of Los Angeles' Lankershim Boulevard Local Area Urban Flow Management Network Project and LA Metro's Active Transportation Rail to River Corridor Project - Segment A Project.

Mr. Alfredo Magallanes said that the City of Los Angeles' Lankershim Boulevard Local Area Urban Flow Management Network Project was created under his supervision.

Mr. Yazdan Emrani said the City of Glendale's The Distributed Drywell System Project was done under his supervision. He added that he was briefed on the City of San Fernando Regional Park Infiltration Project and reviewed it.

Mr. Art Castro said he partnered on the design of the City of San Fernando Regional Park Infiltration Project.

Mr. Paul Lui said he had discussions on the Active Transportation Rail to River Corridor Project - Segment A.

Mr. Nahai said that he was contacted by Ms. Heather Repenning, one of the presenters for the Active Transportation Rail to River Corridor Project - Segment A Project, with general questions regarding the SCW Program process.

b) Presentations:

i) <u>Infrastructure Program (IP)</u>

(1) Lankershim Boulevard Local Area Urban Flow Management Network Project
Presentation by Carmen Andrade and Phuoc L (City of Los Angeles, Bureau of Sanitation and Environment). The Lankershim Blvd Project aims to improve the City of Los Angeles' water quality by capturing and infiltrating stormwater, providing flood mitigation and community enhancement through greening of the Project area.

Mr. DeChellis asked if any of the travel lanes will be reduced for the landscaping adjacent to the sidewalk. Ms. Carmen Andrade said no because the project is along the sidewalk and that the width of the project varies along the corridor between ten and twelve feet.

Ms. Veronica Padilla-Campos commented that its score of 70 is low. The response by Ms. Andrade and a member of the public was that the Safe, Clean Water (SCW) Program determines the water supply score based on cost effectiveness and benefit magnitude.

Mr. Nahai asked about operation and maintenance (O&M) costs and when O&M would begin. Ms. Andrade said O&M would be approximately $12,500,000 over fifty years and would begin after round four of the SCW Program funding.

Mr. Nahai asked if the amount given to project applicant would be earmarked or provided to the project applicant as needed. Mr. Caluag noted if the Committee decides to fund this project, only first year (FY 20-21) funding are guaranteed, and the subsequent years are earmarked. In other words, after this round, the Committee can adjust the funds provided to the applicant.

Mr. Nahai said that there can be further discussions on how the cost of the project could be spread out over the years. He asked how taxpayers would be guaranteed that this project will be completed. Mr. Magallanes said that it is not feasible to spread out the potential funding over five years because that would not be an appropriate construction timeframe because that would increase construction cost over the years.

Mr. Antos reminded the Committee may find most of the answers that they are asking in the SCW Program Regional Program Committee handbook.

Mr. Paul Alva and Ms. Kris Markarian asked if it is possible for the project applicant to request funding for design first, then get a better construction cost estimate after design plans are finished. Mr. Magallanes said that before proceeding with City of LA's process, they need to prove that they have funds for construction.

(2) <u>Active Transportation Rail to River Corridor Project - Segment A</u>

Presentation by Heather Repenning (LA Metro), Brad Owen (LA Metro), and David Pohl (Burns & McDonnell). The Project will provide new and safe pedestrian and bicyclists pathways linking high density disadvantaged communities with three major transit lines, local schools and businesses. The project improves water quality with 25 new infiltration planters and biofiltration areas. The over 8 acres of new landscaping provides recreational opportunities with pocket parks and play areas and greenhouse gas reductions with over 600 new trees. The Project receives strong local jurisdictions, community, and elected officials support as it improves traveling conditions, encourages utilization of mass transit, and provides opportunities for upward mobility in underserved areas. The Project is shovel ready.

Mr. Gary Hildebrand asked for clarification on the 20 acres that drain into the corridor. LA Metro pointed it out on the slide and said it is all the drainage areas along the corridor.

Mr. Ernesto Pantoja asked how safety and crime will be addressed. LA Metro said that the O&M program addresses the project site's security, which is either through Metro Transit security or contracted out. They are currently installing CCTV cameras that transmit to Metro Headquarters and security operations center.

Mr. Miguel Luna asked what happens if the project is not funded by the SCW Program. LA Metro said they have a backup plan that involves seeking funds through the City of Los Angeles or other sources.

Ms. Markarian asked for the cost of the overall project and if they are bidding it as single contract. LA Metro noted the entire cost is around $140 million, which includes design and soft costs for managing the project and they are bidding it out as a single contract.

Mr. John Luker asked how much of the O&M costs would go to security, such as police presence, and how they will address relocating people experiencing homelessness. LA Metro said that their Security Department is involved with hiring extra security and that the costs for O&M funding request does not include security costs. Rather the O&M request will be used to maintain the bikepath, trees, and the new infrastructure.

Mr. Nahai asked how much water will be infiltrated. LA Metro said it would be 10-15 acre-feet per year, varying every year. Mr. Nahai asked for LA Metro to elaborate on Measure M does not provide the rest of the funds needed. Ms. Heather Repenning said that Metro does not have a stormwater permit, so they want to design each project in the "greenest" possible way. They want to leverage the significant construction and design Metro is doing between now and 2028. It would benefit Metro to have a partnership with SCW Program to go the extra mile to promote water quality and water supply.

Mr. Paul Alva asked if there will be opportunities to educate the public on native vegetation and water quality benefits that this project brings forward. LA Metro said they are working with Councilmembers and are seeking to create a cultural center, educational signage, and integrate into existing bike path programs.

(3) <u>City of San Fernando Regional Park Infiltration Project</u>

Presentation by Kenneth Jones (City of San Fernando). The San Fernando Regional Park Infiltration Project was identified in the ULAR EWMP and captures runoff from 988 acres for groundwater recharge. The Project will capture over 312 acre-feet of runoff annually to recharge the San Fernando Groundwater Basin, achieving water quality, water supply, and other benefits. The Project is also located within, and will benefit, a severely disadvantaged community (sDAC).

Mr. Pantoja asked how this benefits the City of San Fernando residents. Ms. Katie Harrel she said this project is mainly for water quality and water supply benefits. Although, there is flooding at the park that will be alleviated with the project and trees will be added to provide shading. Mr. Kenneth Jones added that the water that currently goes down storm drains will be captured, treated, and percolated underground into the San Fernando basin that will improve the region as a whole for the people. The project also will result in an enhanced park above ground for residents to enjoy.

Mr. Luker asked if the grant that the City of San Fernando is expecting is contingent based on receiving SCW Program funds. Ms. Harrel said the grant is not contingent on SCW Program funds.

Mr. Luna asked for clarification on the partnership between the City of San Fernando and LADWP. Ms. Harrel that the City of San Fernando received grant funds from Proposition 1 and that LADWP provided matching funds because of the infiltration benefits from the project.

Mr. Magallanes asked if water monitoring was done and what the results were. Ms. Harrel said that there has not been site-specific monitoring, but they plan to do monitoring as the project progresses.

The Committee decided to take a break at this time.

(4) The Distributed Drywell System Project

Presentation by Sarkis Oganesyan, P.E. (City of Glendale Department of Public Works). The proposed project will achieve its water quality and supply benefits by runoff/pollutant capture, infiltration, use, and recharge through the drywell system and bioswale retention areas, while the subsurface nature of the drywell and bioswale retention areas allows for continued use of the sidewalk and public areas within the neighborhood, while including the planting of native trees and vegetation to provide shade structures and improve air quality.

Ms. Villegas asked if there are jurisdictions that have used drywells in the past. Mr. Sarkis Oganesyan said there was a pilot study done a few years ago using three of these drywells and they have been performing exceptionally well in capturing the runoff that was intended to capture.

Mr. Lui asked about where the water recharge into the San Fernando aquifer comes from. Mr. Oganesyan navigated to the slide and explained that they used 85th percentile rain event and the range falls based on the intensity of the rainfall for a given year. He added that whatever is not captured in the drywell will runoff into the bioswales.

Mr. Solis asked what is involved in O&M. Mr. Oganesyan said that there are yearly inspections and yearly cleaning. Cleaning activities include vacuuming out the drywell depending on how much contaminants accumulated. Inspection reports would provide how detailed repairs will have to be.

Ms. Padilla-Campos asked about the makeup of the area. Mr. Oganesyan said the area is 72 percent single-family residential.

Mr. Magallanes asked who leads O&M and what happens with O&M after the twenty-fifth year. Mr. Oganesyan said that the drywells have five-year warranty and the drywells are expected to have fifty-year lifespan. The City of Glendale will replace drywells using its own funds after the twenty-fifth year.

Mr. Luna asked if the drywells captures water quality data. Mr. Oganesyan said the project team captured data on zinc and bacteria for their feasibility report and the drywells do improve water quality, but the systems itself do not capture water quality data.

(5) Rory M. Shaw Wetlands Park Project

Presentation by Kenneth Chow (Los Angeles County Flood Control District). The Rory M. Shaw Wetlands Park addresses the major flooding and stormwater quality issues in the Sun Valley Watershed by converting a 46-acre, inert debris landfill into a multi-purpose wetlands park with a 21-acre detention pond, 10-acre wetland, and 15 acres of open space and recreational area.

Ms. Carolina Hernandez from the Los Angeles Flood Control District introduced Mr. Kenneth Chow and said that she will be available to answer questions after Mr. Chow's presentation.

Ms. Villegas asked if there are acquisition costs and for clarification on the treatment process. Mr. Chow no acquisition costs because the property is fully owned by LA County. Mr. Chow clarified that the water will be pumped into adjacent wetland on the project site

and then pumped to the Sun Valley Park with the current infiltration basins funded by Prop O. Ms. Villegas asked if they are in discussions regarding O&M with the City of Los Angeles. Mr. Chow said that operational components for phase three are still being determined and that they have an existing agreement with the City of Los Angeles as a result of Prop O that clarifies a lot of the terms already dictated out with the City of Los Angeles. She asked how the Committee will be aware of the progress. Ms. Carolina Hernandez said that the O&M will be transferred over to the City of Los Angeles. It is unlikely that they will know within this round what the O&M costs will be, but she anticipates that the City of Los Angeles may come to the Committee with that information.

Ms. Padilla-Campos commented that this project has large community benefits and believes they received too low of a score for that.

Mr. Luker asked if people will be likely be in contact with contaminated water since this involves water from large industrial areas. Mr. Chow said there was extensive water quality monitoring completed several years ago so they have full knowledge of the different types of constituents. As far as safety, they plan to have fencing around the detention ponds and other safety features for the wetlands, and that it is not meant for people to enter the water.

Mr. Nahai asked where the remaining of the project funds will come from. Mr. Chow said that the remaining funds will come from the Flood Control Fund. The additional funds have been earmarked. He added that the benefit for the SCW Program funding requests allows the District to pursue other multi-benefit projects within the watershed. Ms. Hernandez added that after doing geo-technical analysis there was a significant amount of effort that would need to be investigated during the second phase. That is where they found the need for additional funding as well.

ii) <u>Technical Resources Program (TRP)</u>

(1) None

iii) <u>Scientific Studies Program (SS)</u>

(1) None

6. Break

The Committee took a break after agenda item 5.b.i.5.

7. Voting Items

a) None

8. Items for next agenda

Mr. Nahai recommended that the Committee briefly discuss how the Committee can approach the SIP development. Mr. Caluag briefly showed the SIP Tool on the screen and said that it can be used during the next WASC meetings. He also showed an option that the Committee can used based on ranking the projects. It is recommended that the Committee discuss the percentage of funds to allocate this year and how much for the subsequent years, recommending not to allocate 100 percent of the funds.

Mr. Caluag asked how the Committee may want to approach this. Mr. Nahai recommended that the Committee not rank the projects until after the Committee discusses all twenty-five projects. Mr. Nahai believes there needs to be some process to give each project its respectful consideration.

Ms. Villegas asked when the SIP needs to be developed. Mr. Caluag said that the Regional Oversight Committee (ROC) meet on April 15 and April 30 to look over the SIPs from all the WASCs. Therefore, ideally a Committee-approved SIP can be provided to the ROC by April 15. Ms. Villegas asked if there will be resources given to the Committee members to help make their decision. Mr. Caluag said that resources have been handed out at previous meetings, resources can be found on the SCW Program website, and additional resources will be provided at the upcoming meetings.

Mr. Luna asked for a hybrid approach for the Committee to develop the SIP, in which the Committee discuss each project and rank the projects.

Mr. Hildebrand suggested that perhaps the Committee could discuss the SS and TRP projects first, and then IP projects. He added that there needs to be a discussion on how much funding to allocate. He expressed that it would be helpful to have a breakdown of how much of the requested funds are for planning, design, and/or construction for each project.

Mr. Antos and Mr. Nahai explained that the Committee will have to accept funding for each project as it is proposed.

Mr. Lui suggested that the Committee can discuss the SS, TRP, and IP projects during the next meeting on March 12, gather questions for the project applicants, and receive responses by the following meeting on March 26.

Mr. Alva agreed with Mr. Hildebrand's earlier comment with regards to knowing how much of the requested funds are being allocated for planning, design, and/or construction.

Mr. Emrani asked if the most recent overview of project submittal is online. District staff said yes.

9. Adjournment

Mr. Nahai reminded the Committee to sign in and announced the next meeting location, date and time. Mr. Nahai thanked the committee members and public for their time and participation and adjourned the meeting.

Next Meeting: Thursday, March 12, 2020, 10:00am – 12:00pm
LA County Public Works Headquarters, Conference Room C
900 S. Fremont Avenue, Alhambra, CA 91803

Future Meeting Dates and Times:
Thursday, March 26, 2020, 2:00pm – 4:00pm
Media Center, Training Room A/B, 2714 Media Center Drive, Los Angeles, CA 90065

Tentative Meeting Dates and Times:
Monday, April 6, 2020, 2:00pm – 4:00pm
Thursday, April 16, 2020, 2:00pm – 4:00pm
LA County Public Works Headquarters, Conference Room C
900 S. Fremont Avenue, Alhambra, CA 91803

Upper Los Angeles River
Watershed Area Steering Committee Meeting
COMMITTEE MEMBER AND ALTERNATE SIGN-IN

SAFE CLEAN WATER

Member Name	Municipality/ Organization	Email Address		Signature
Gary Hildebrand	FCD	garylisah@gmail.com	P	
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Paul Liu	Los Angeles Department of Water and Power	paul.liu@ladwp.com	P	
Rafael Villegas	Los Angeles Department of Water and Power	Rafael.Villegas@ladwp.com	A	
Cathie Santo Domingo	Los Angeles Recreation & Parks	cathie.santodomingo@lacity.org	P	
Javier Solis	Los Angeles Recreation & Parks	javier.solis@lacity.org	A	
Alfredo Magallanes	Los Angeles - Sanitation	alfredo.magallanes@lacity.org	P	
Ariel Flores	LA Sanitation and Environment	ariel.flores@lacity.org	A	
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Art Castro	Los Angeles Department of Water and Power	art.castro@ladwp.com	A	
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Sergio Rascon	Laborers Local 300	srascon@local300.com	A	
Miguel Luna	Urban Semilla DakeLuna Consultants	miguel@dakeluna.com	P	
Yvette Lopez-Ledesma	Urban Semilla DakeLuna Consultants	yvette_lopezledesma@tws.org	A	
David Nahai	Lewis, Brisbois, Bisgaard & Smith	dn@davidnahai.com ; lr@davidnahai.com	P	

Upper Los Angeles River
Watershed Area Steering Committee Meeting
COMMITTEE MEMBER AND ALTERNATE SIGN-IN

SAFE CLEAN WATER

Member Name	Municipality/ Organization	Email Address		Signature
Jacob Lipa	Lipa Consulting Company	jacob@lipaconsulting.com	A	
Veronica Padilla-Campos	Pacoima Beautiful	vpadilla@pacoimabeautiful.org	P	
Felipe Escobar	Pacoima Beautiful	fescobar@pacoimabeautiful.org	A	
John Luker	Santa Susana Mountain Park Association	jcluker2@yahoo.com	P	
Wendi Gladstone	Santa Susana Mountain Park Association	ssmpawendi@gmail.com	A	
Yazdan Emrani	Glendale	YEmrani@Glendaleca.gov	P	
Chris Chew	Glendale	CChew@Glendaleca.gov	A	
Patrick DeChellis	La Canada Flintridge	pdechellis@lcf.ca.gov	P	
Barbara Romero	City of Los Angeles	barbara.romero@lacity.org; riki.esquer@lacity.org	P	
Teresa Villegas	Los Angeles	teresa.villegas@lacity.org	A	
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Jeff Camp	Los Angeles	jeff.camp@lacity.org	P	
Paul Alva	Los Angeles County	PALVA@dpw.lacounty.gov	P	
TJ Moon	Los Angeles County	TMOON@dpw.lacounty.gov	A	
Kris Markarian	Pasadena	kmarkarian@cityofpasadena.net	P	

Upper Los Angeles River
Watershed Area Steering Committee Meeting
COMMITTEE MEMBER AND ALTERNATE SIGN-IN

SAFE CLEAN WATER

Member Name	Municipality/ Organization	Email Address		Signature
Sean Singletary	Pasadena	ssingletary@cityofpasadena.net	A	

March 2, 2020

Upper Los Angeles River
Watershed Area Steering Committee Meeting
PUBLIC SIGN-IN

SAFE CLEAN WATER

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EDWARD ~~[illegible]~~	HITTI	CITY OF GLENDALE	ehitti@glendaleca.gov
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Jessica	Seyde	WSP	jessica.seyde@wsp.com

*Signing or completing this form is voluntary for members of the public

March 2, 2020

Upper Los Angeles River
Watershed Area Steering Committee Meeting
PUBLIC SIGN-IN

SAFE CLEAN WATER

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March 2, 2020

Upper Los Angeles River
Watershed Area Steering Committee Meeting
PUBLIC SIGN-IN

SAFE CLEAN WATER

First Name	Last Name	Municipality/Organization	Email Address
William	O'Brazis	KERAMIDA	WOBRAZIS@KERAMIDA.com
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Carmen	Andrade	LA SAN	carmen.andrade@lacity.org
Caroline	Hernandez	LA Co DPW	chernandez@dpw.lacounty.gov

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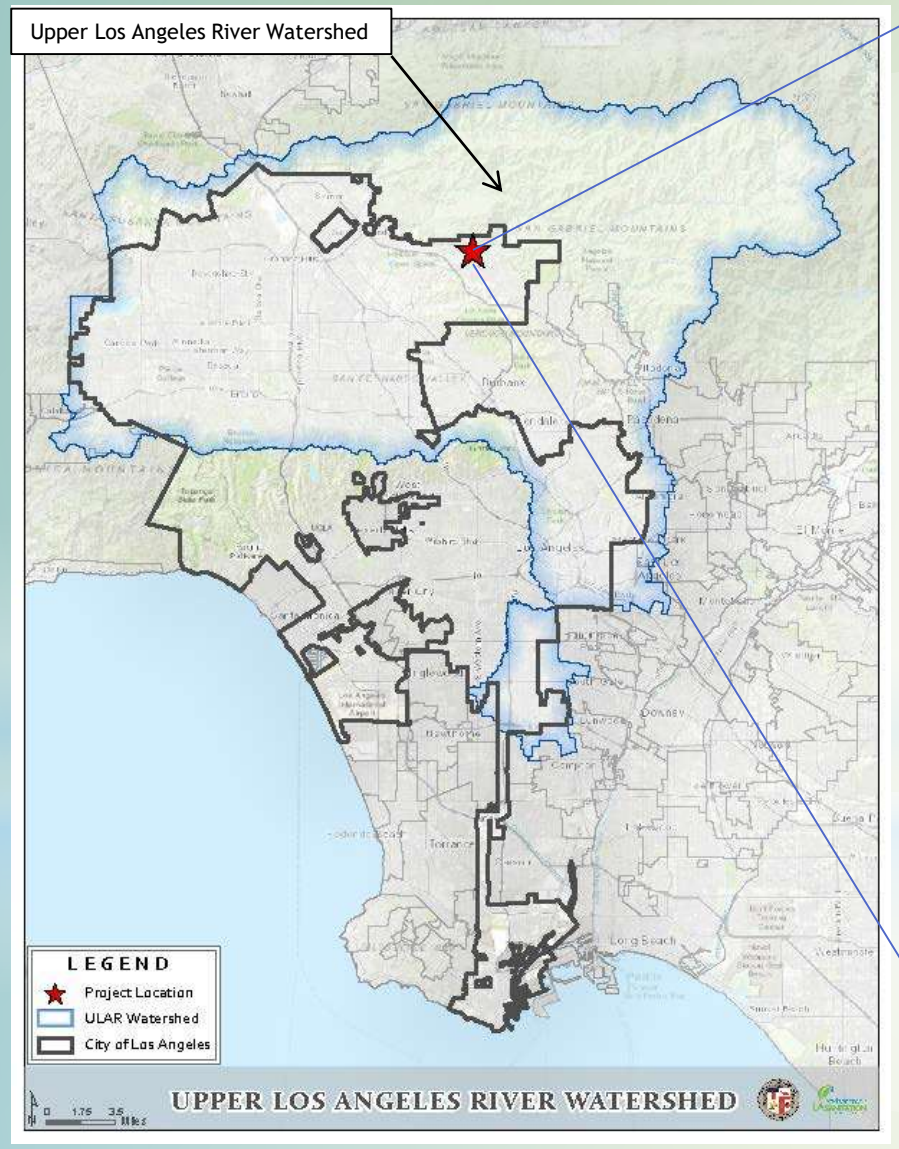
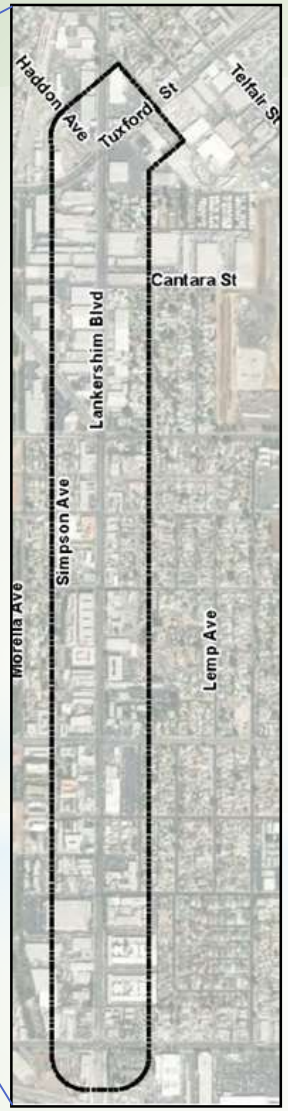
March 2, 2020

Lankershim Boulevard Project

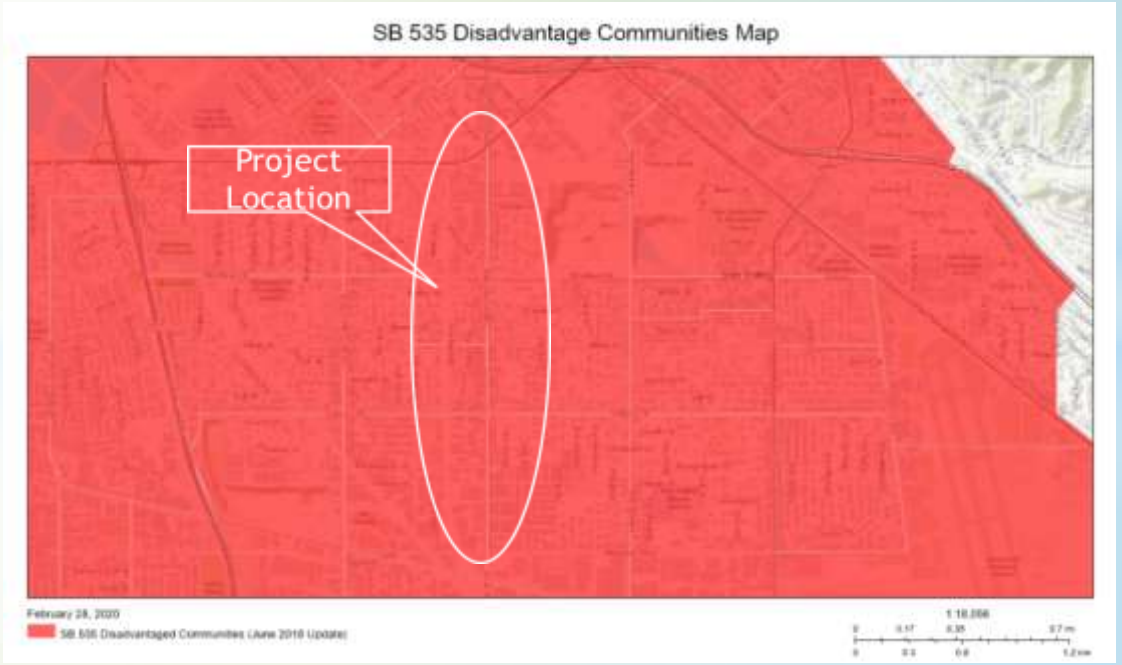
Presenter: Carmen Andrade, Civil Engineering Associate II
Watershed Protection Program, LASAN
Funding Amount Requested: $25,696,900

Project Location





- The project is a **linear project** (1.5 miles)
- Upper Los Angeles River (ULAR) Watershed Area
- Los Angeles, San Fernando Valley, North Hollywood
- Sun Valley Community (CD 6 to CD 2)
- Lankershim Blvd (between Sherman Way and Tuxford St.)
- DAC



Project Location

Municipalities and DAC Benefits

Improve water quality by addressing bacteria and metal TMDLs

Objectives

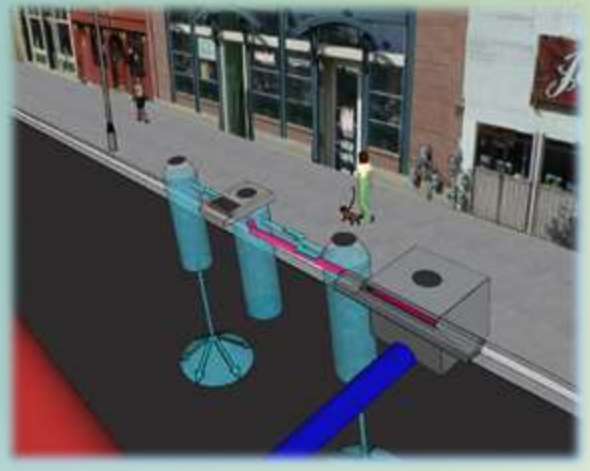
Mitigate flooding/Capture stormwater

Community enhancement through the addition of nature base elements

Project Details

Project Scope

57 **NEW** catch basins & storm drain infrastructure for flood mitigation

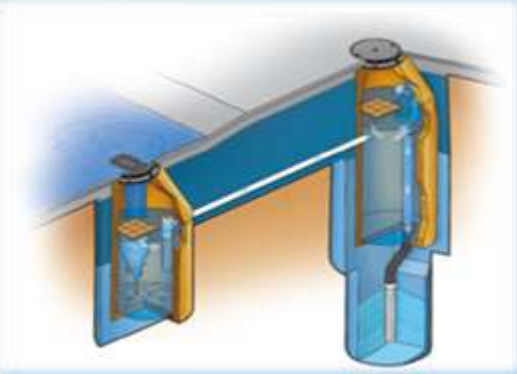


15 **NEW** vegetated medians

232 **NEW** parkway planters for added green space

315 **NEW** street trees to reduce the heat island effect

52 **NEW** drywells for stormwater infiltration



Project Details

Schedule and 5 Year Expenditure Outlook

Project Schedule

Task	Duration	Approx. Dates	Funding Round
Design/B&A	18 months	7/2020 - 12/2021	Regional Prg #1
Construction	24 months	01/2022 - 12/2023	
Optimization	12 months	01/2024 - 12/2024	Regional Prg #4
O&M	50 years	01/2025 →	

All construction funding required prior to B&A

Project Funding Request

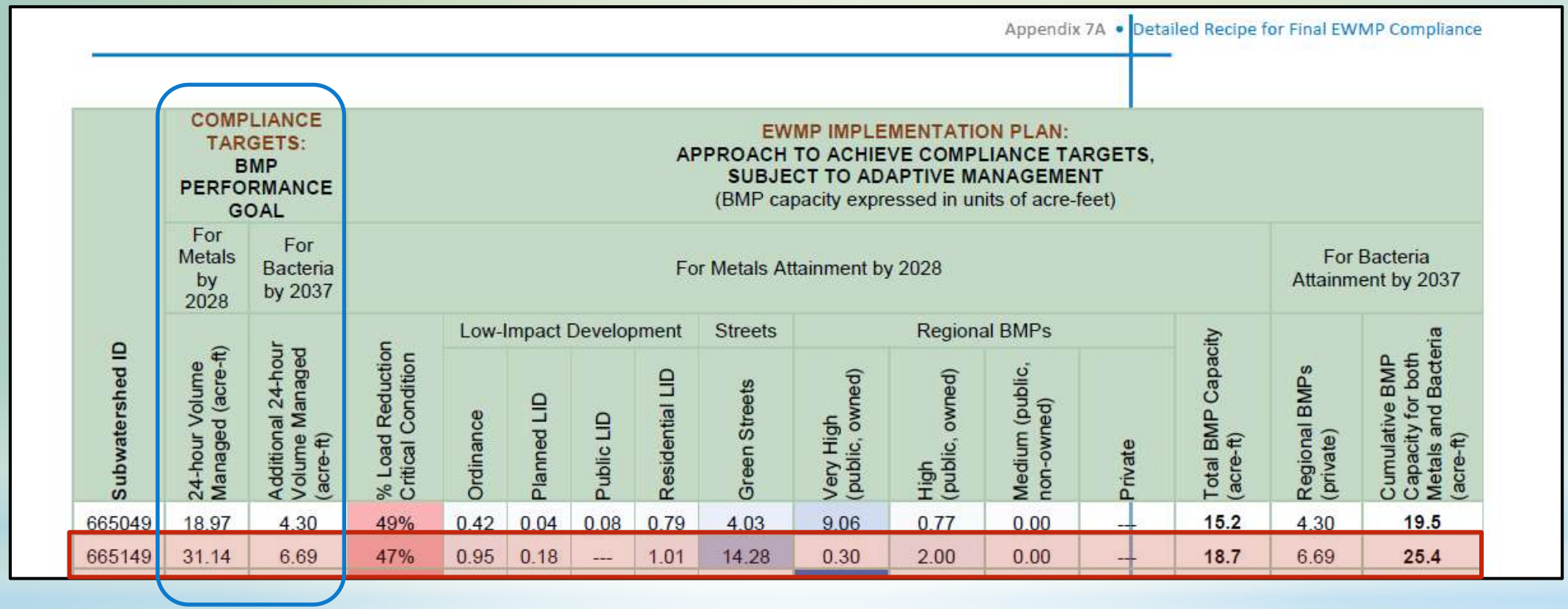
Funding Requested	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 24/25	Total
Project	$13,772,400	$11,924,500				$25,696,900
O&M				$260,000	$260,000	$12.5M over 50 yrs

Current Funding Application

Future Funding Application

Project Details

EWMP Implementation Plan



Appendix 7A • Detailed Recipe for Final EWMP Compliance

Subwatershed ID	COMPLIANCE TARGETS: BMP PERFORMANCE GOAL		EWMP IMPLEMENTATION PLAN: APPROACH TO ACHIEVE COMPLIANCE TARGETS, SUBJECT TO ADAPTIVE MANAGEMENT (BMP capacity expressed in units of acre-feet)												
	For Metals by 2028	For Bacteria by 2037	For Metals Attainment by 2028											For Bacteria Attainment by 2037	
				Low-Impact Development				Streets	Regional BMPs						
	24-hour Volume Managed (acre-ft)	Additional 24-hour Volume Managed (acre-ft)	% Load Reduction Critical Condition	Ordinance	Planned LID	Public LID	Residential LID	Green Streets	Very High (public, owned)	High (public, owned)	Medium (public, non-owned)	Private	Total BMP Capacity (acre-ft)	Regional BMPs (private)	Cumulative BMP Capacity for both Metals and Bacteria (acre-ft)
665049	18.97	4.30	49%	0.42	0.04	0.08	0.79	4.03	9.06	0.77	0.00	---	**15.2**	4.30	**19.5**
665149	31.14	6.69	47%	0.95	0.18	---	1.01	14.28	0.30	2.00	0.00	---	**18.7**	6.69	**25.4**

Lankershim Boulevard Project is part of the Upper LAR EWMP

(Recipe of Compliance Line No. Subwatershed 665149)

~52 AF

capacity

Project Details

Summary of Benefits

WET WEATHER WATER QUALITY BENEFITS

100 % Trash Removal

85 % Zinc Removal

SIGNIFICANT WATER SUPPLY BENEFITS

111 AF/YR Captured

52 Dry Wells

COMMUNITY BENEFITS

NATURE BASED SOLUTIONS

Trees to Add Shade and Reduce the Heat Island Effect by Using More Than 300 Trees and Native Plants

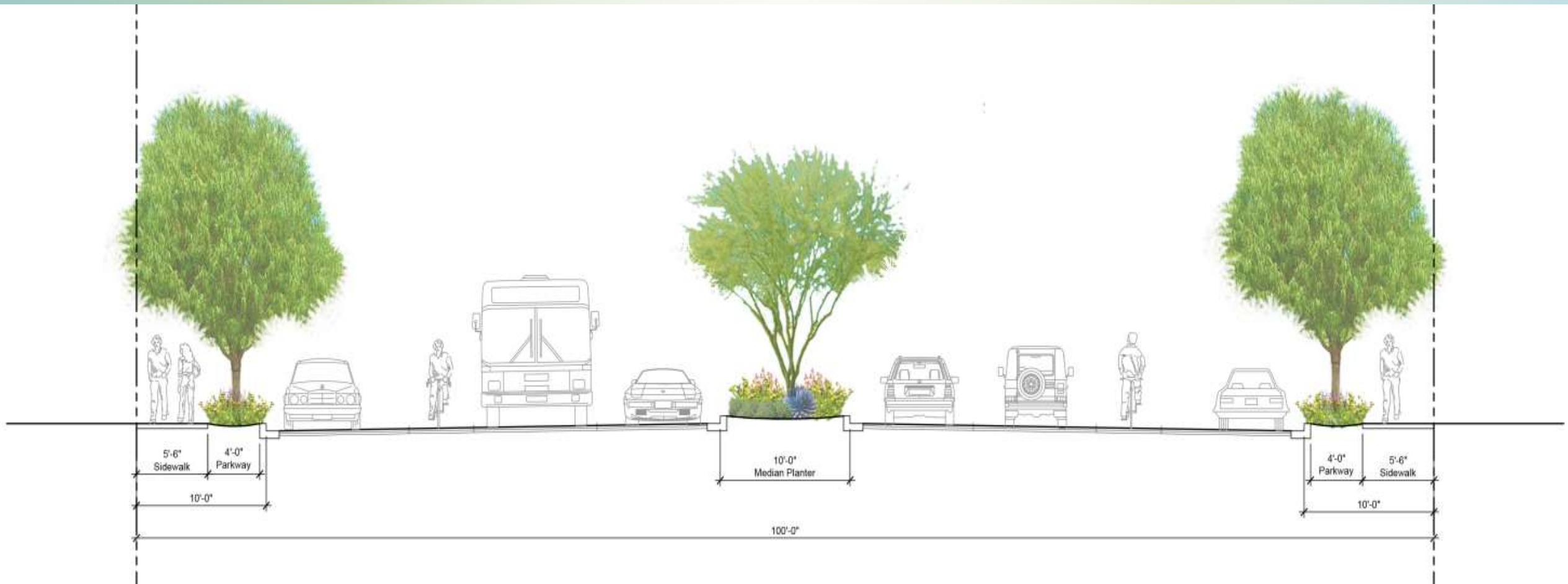
COMMUNITY ENGAGEMENT

PAUL KREKORIAN
COUNCILMEMBER · DISTRICT 2

NURY MARTINEZ

COUNTY SCORE
Safe Clean Water (SCW) Program = 70 points

Alfredo Magallanes, P.E.
City of Los Angeles, Bureau of Sanitation
Alfredo.magallanes@lacity.org
(213) 485-3958



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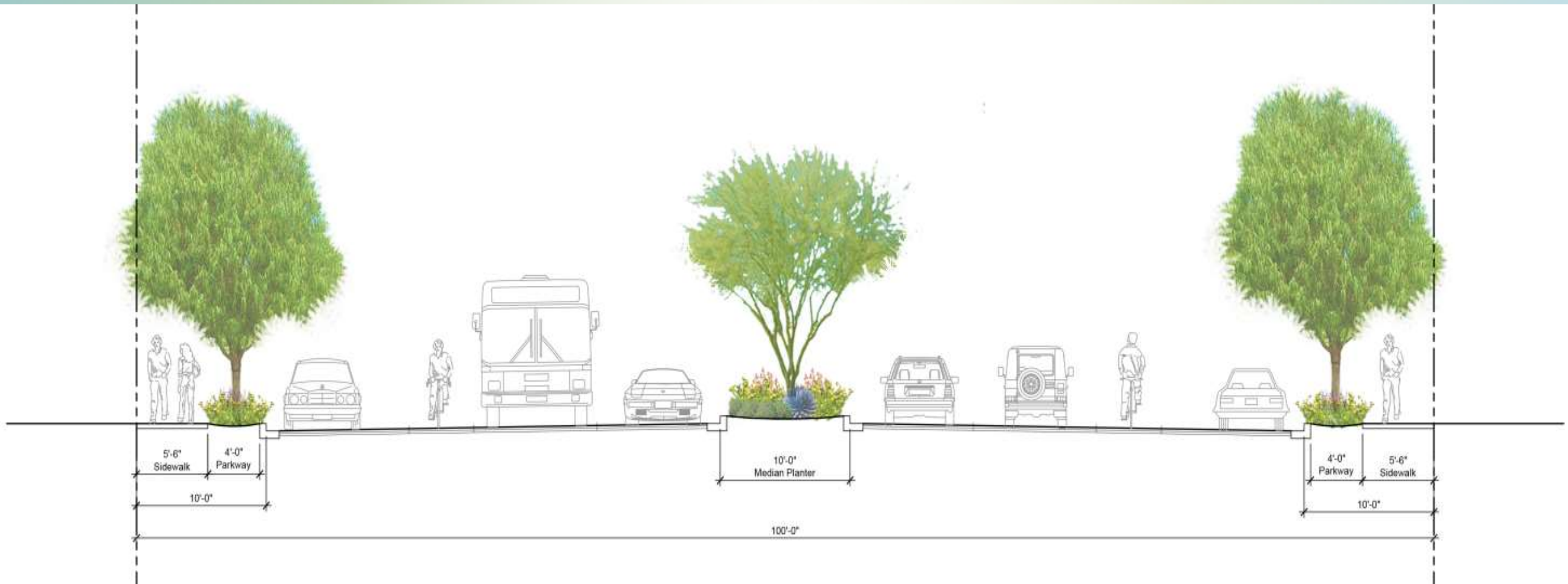


Los Angeles County Metropolitan Transportation Authority

Rail to Rail Active Transportation Corridor Segment A

Watershed Area Steering Committee – March 2, 2020

Metro

Rail to Rail Active Transportation Corridor Segment A

Project Lead

Los Angeles County Metropolitan Transportation Authority (Metro)

Presenters

Heather Repenning, Executive Officer, Sustainability Policy (Metro)
Brad Owen, Executive Officer, Program Management (Metro)
David Pohl, Project Manager (Burns & McDonnell)

Funding Requested

$8,425,000

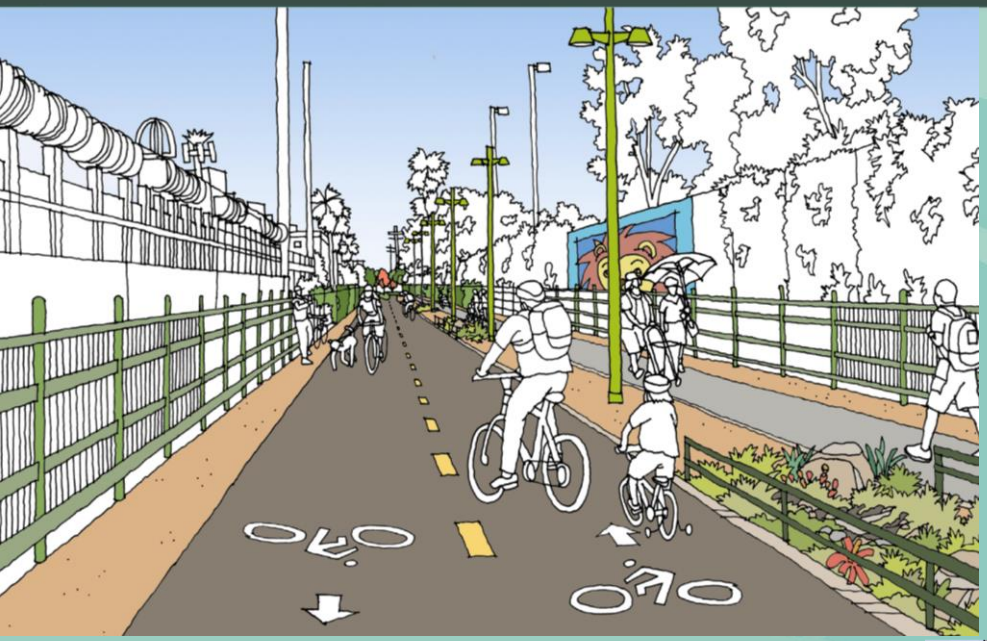
Project Area

- Upper LA River Watershed
- Transforms 5.6 miles of abandoned freight ROW into bike/ped path connecting community to three major transit connections: Crenshaw/LAX, Silver, A-Line (Blue)
- Area includes high-density neighborhoods and disadvantage communities (DACs)
- Phase B will connect to LA River

Connecting Communities

- R2R is multi-benefit: water quality, mobility, community placemaking, green spaces, flood management, shade, safety
- Consistent with ULAR EWMP intent for green infrastructure programs to provide multiple benefits to community

Connecting Communities



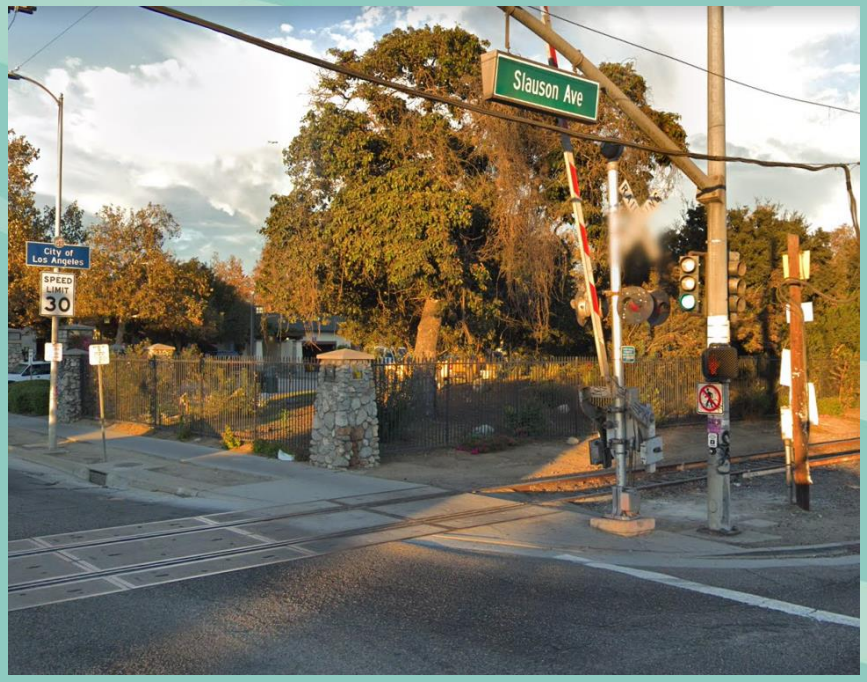
Placemaking through corridor activation

Major improvements to city infrastructure lead to greater accessibility

Metro

Continuity of Green Spaces

Los Angeles Academy Middle School



Augustus F. Hawkins Nature Park

Metro

Project is “Shovel Ready”

Major Milestones

Summer 2020	Complete Design
Fall 2020	Issue Solicitation
Winter 2020	Award Contract
Spring 2021	Construction Mobilization
Winter 2023	Substantial Completion
January 2024	Operations and Maintenance

Metro

Funding Partners & Community Support

Expenditure Plan

Total Requested Funding: $8.425m
$7.8m Capital + $625k O&M

FY20-21 | $1.5m (mobilization and site prep)
FY21-22 | $4m (LID construction)
FY22-23 | $2m (LID construction)
FY23-24 | $425k (LID landscaping and begin O&M)
FY24-25 | $125k (O&M)
FY25-26 | $125k (O&M)
FY26-27 | $125k (O&M)
FY27-28 | $125k (O&M)

Community Support

Metro

Project Water Quality & Supply Benefits

- **Reduces pollutants** from urban runoff (85th Design Storm)
- Uses **Nature-based Solutions**
- Implements **New Low Impact Development** - infiltration planters, biofiltration and hybrid infiltration areas.
- **Additional water quality** from **7.5 acres of new landscaping** including 600 trees.

ULAR EWMP: "Green infrastructure will be responsible for a major portion of the pollutant reduction to be achieved by the EWMP. Green infrastructure makes up over 58 percent of the control measure capacity in the EWMP to be implemented by 2028."

Metro

Community Investments Benefits

- **Safety, Mobility and Economic Benefits**
  - Provides safe, new pedestrian and bike paths in Disadvantaged Communities (DACs) to improve mobility to jobs, local businesses, and major transit lines
  - Economic benefits linking the Cities of Los Angeles, Inglewood, Huntington Park, Vernon, Maywood, Bell and parts of unincorporated Los Angeles County
- **Recreational and Air Quality Benefits**
  - Active transportation corridor with landscaping provide access and continuity between existing parks and schools.
  - Reduced VMT from mode shift
- **Flood Management Benefits**
  - Upgrades to storm drain system

Metro

Thank you

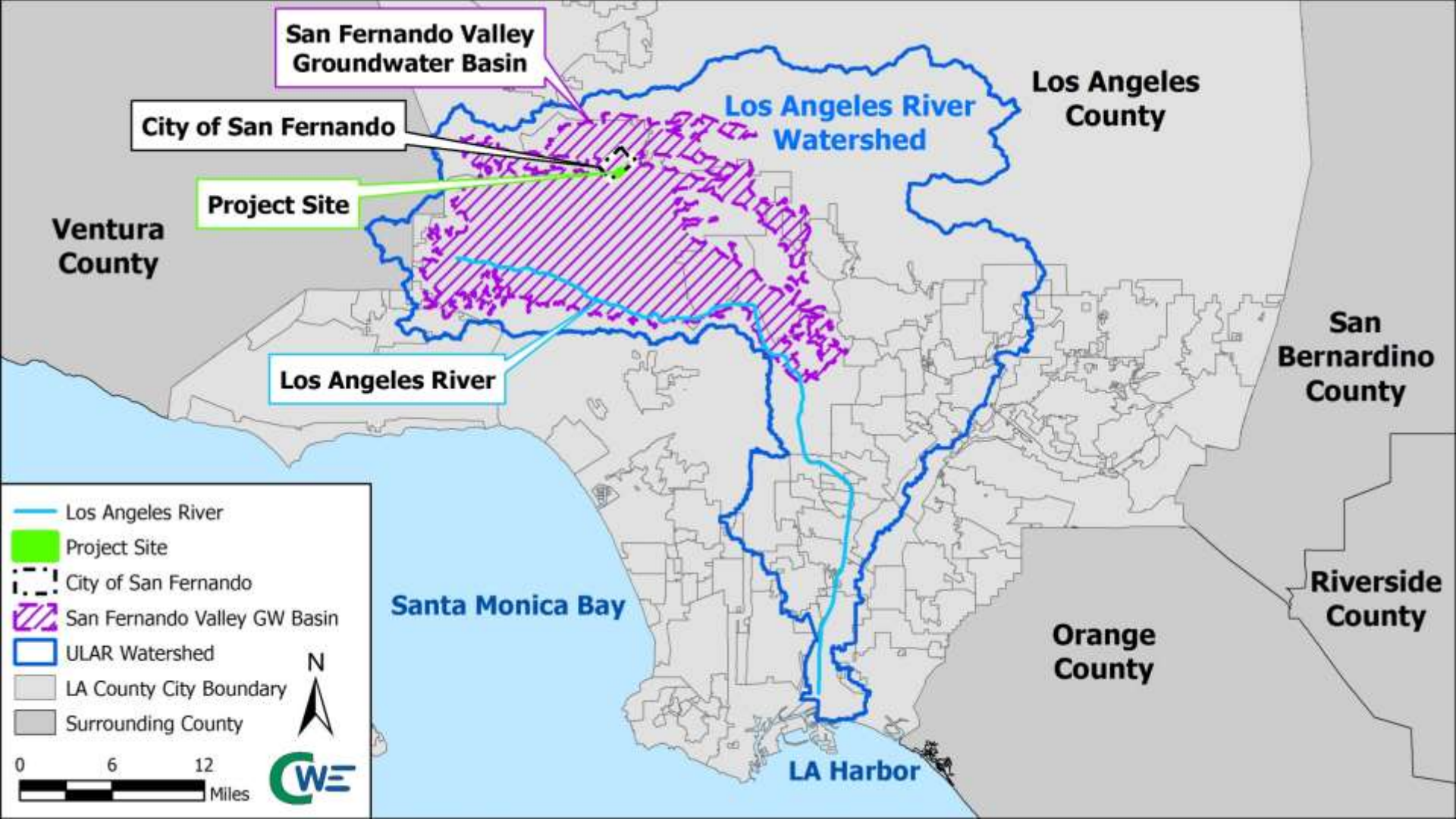
Metro

City of San Fernando Regional Park Infiltration Project

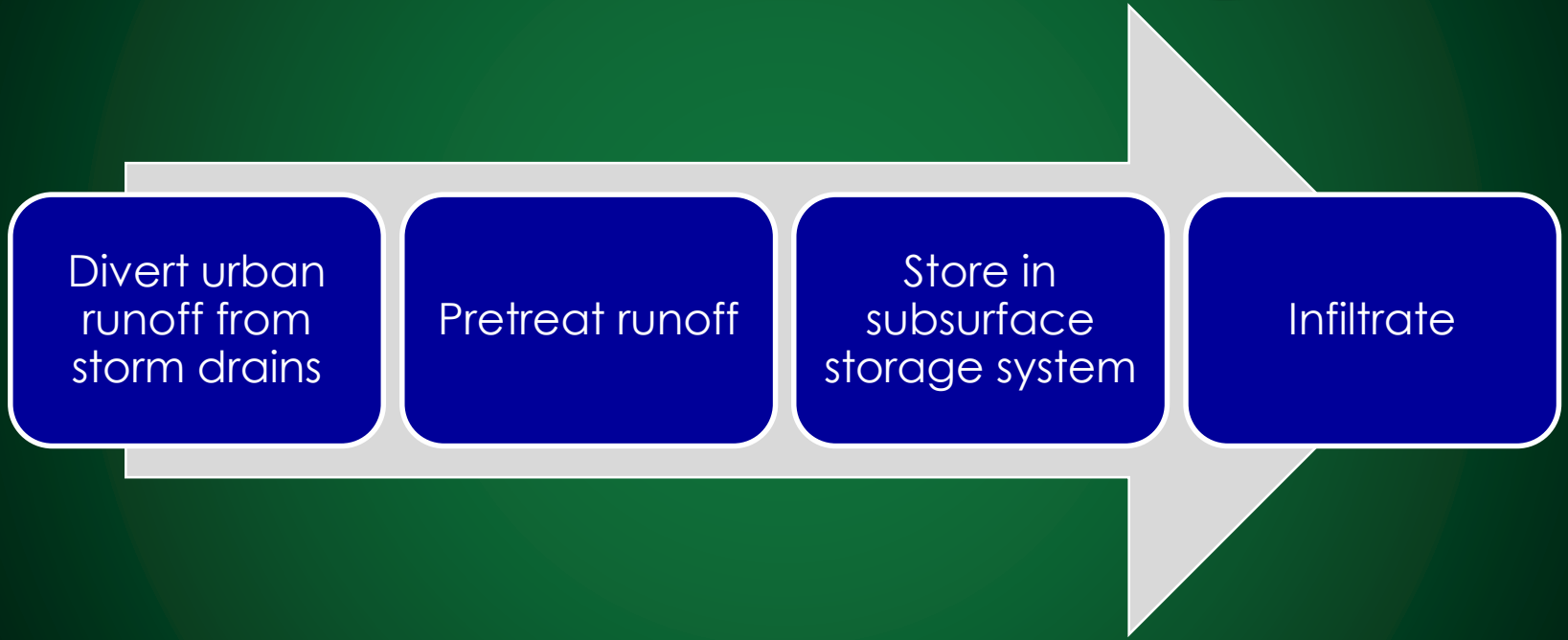
Requesting: $9,201,200

City Lead: Kenneth Jones, San Fernando
Presented by: Katie Harrel, CWE


City of San Fernando
Project Site
Los Angeles River Watershed
Los Angeles County
Ventura County
Los Angeles River
San Bernardino County
Riverside County
Orange County
Santa Monica Bay
LA Harbor
Los Angeles River
Project Site
City of San Fernando
ULAR EWMP Group
ULAR Watershed
LA County City Boundary
Surrounding County
N
0
6
12
Miles


San Fernando Valley Groundwater Basin
City of San Fernando
Project Site
Los Angeles River
Los Angeles River Watershed
Los Angeles County
Ventura County
San Bernardino County
Riverside County
Orange County
Santa Monica Bay
LA Harbor
Los Angeles River
Project Site
City of San Fernando
San Fernando Valley GW Basin
ULAR Watershed
LA County City Boundary
Surrounding County
N
0
6
12
Miles

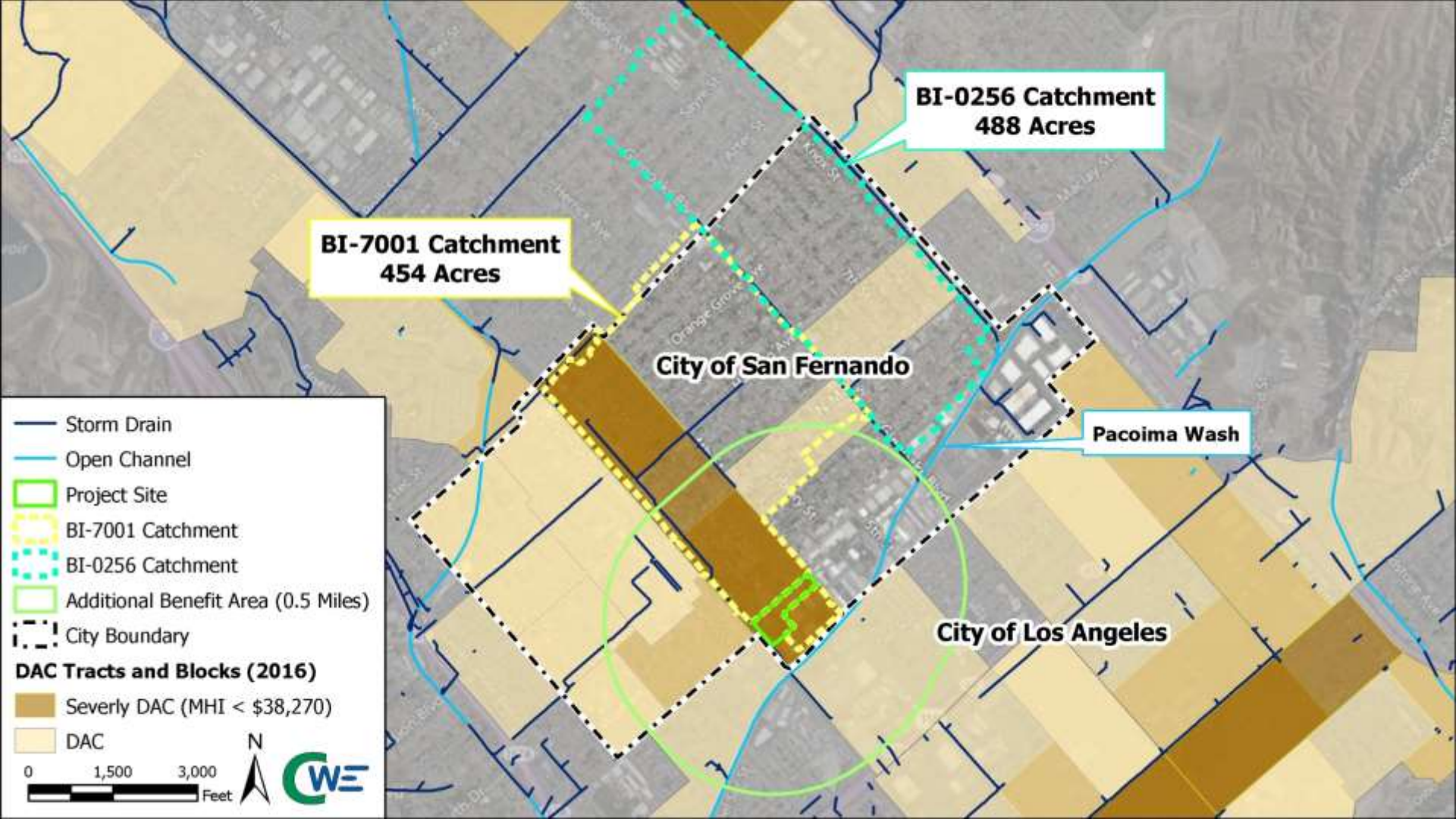
What is the Project?



24-hour capacity: 27 acre-feet

Annual capture: 321 acre-feet


Subsurface Infiltration System
Diversion Structure
Pretreatment Unit
Diversion Structure
Pretreatment Unit
Storm Drain 63-inch RCP
Ex. Storm Drain (typical)
Ex. Catch Basin (typical)
Diversion Pipe
Pacoima Wash
Storm Drain 30-inch RCP
Subsurface Infiltration System
Storm Drain 87-inch RCP
Park Avenue
First Street
Brand Boulevard
Fifth Street
Newton Street
Griswold Avenue
Jessie Street
Fourth Street
Library Street
Glenoaks Boulevard
City of San Fernando
City of Los Angeles
Arroyo Street
Corcoran Street
Fellows Avenue
Vaughn Street
Borden Avenue
Desmond Street
San Fernando Road
Pico Street
Kewen Street
Herrick Avenue
Bradley Avenue


BI-0256 Catchment
488 Acres
BI-7001 Catchment
454 Acres
City of San Fernando
Pacoima Wash
City of Los Angeles
Storm Drain
Open Channel
Project Site
BI-7001 Catchment
BI-0256 Catchment
Additional Benefit Area (0.5 Miles)
City Boundary
DAC Tracts and Blocks (2016)
Severly DAC (MHI < $38,270)
DAC
0
1,500
3,000
Feet
N

Water Quality

Capture/Cost

24-hour capacity: 27 acre-feet

Cost effectiveness = 27 AF/$12.5 M = 2.16

[>1 for full points]

Load Reduction

> 80% load reduction for total zinc and total lead using Method 2 (% load reduction)

Water Supply

21 million
5-gallon bottles

160
Olympic swimming pools

318 feet high
Over football field

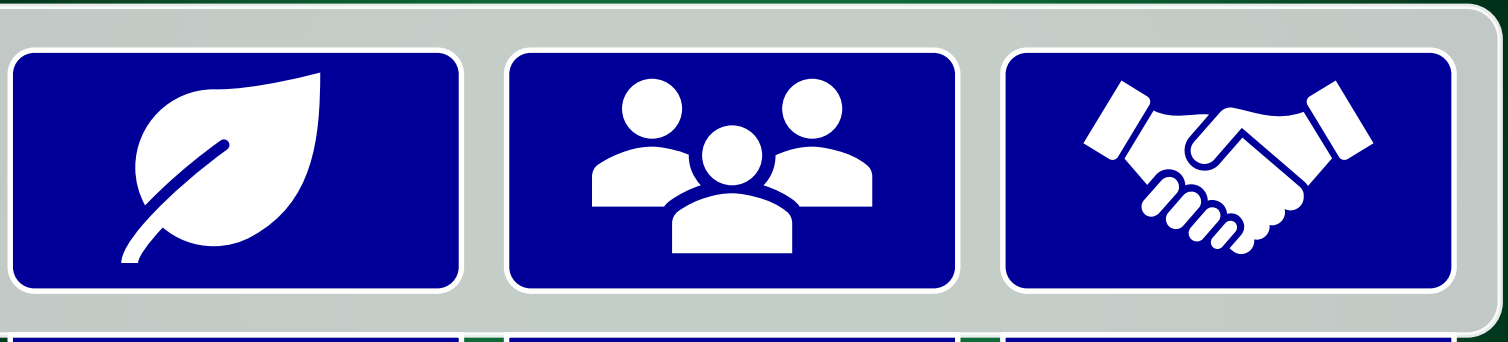
Annual capture
(321 acre-feet/year)

→

Recharge San Fernando Valley Groundwater Basin

Community

Other Benefits



Nature-Based Solutions

Infiltration of flows to mimic pre-development conditions

Outreach

2 public meetings to date

Signage for ongoing education

Local Support

Support from Tree People

Support from LADWP

Schedule

Milestone	Anticipated Completion Date
Design	January 2020
Permitting	April 2020
Award Construction Contract	October 2020
Start Construction	December 2020
Complete Construction	April 2021

Project Budget

Estimated Project Expenses	
Planning and Design	$652,646
Estimated Construction	$12,500,000
Total Estimated Project Expenses	**$13,152,646**

Annual Cost Breakdown	
Annual Maintenance Cost	$50,400
Annual Operation Cost	$40,000
Annual Monitoring Cost	$10,000
Annual Costs (50-year Life Span)	**$100,400**
Module Generated Life-Cycle Cost	$15,561,633
Module Generated Annualized Cost	$648,566

Project Budget

Estimated Project Expenses (Construction + O&M)					
Funding Source	**FY 2020-2021**	**FY 2021-2022**	**FY 2022-2023**	**FY 2023-2024**	**FY 2024-2025**
Safe Clean Water Program Funds	$3,115,000	$5,785,000	$100,400	$100,400	$100,400
Leveraged Funds	$1,260,000	$2,340,000	-	-	-

Leveraged Construction Funds	
Proposition 1 IRWM Grant	$3,600,000
Total Leveraged Funds	**$3,600,000**

Contact

Kenneth Jones
Management Analyst
818.898.1240
Kjones@sfcity.org

THE DISTRIBUTED DRYWELL SYSTEM PROJECT

SAFE CLEAN WATER PROGRAM

THE DISTRIBUTED DRYWELL SYSTEM PROJECT

PROJECT LEAD	City of Glendale
PROJECT PRESENTER	**Sarkis Oganesyan, P.E.** Principal Civil Engineer Department of Public Works
TOTAL FUNDING REQUESTED	**$1,893,000**
WATERSHED AREA	**Upper Los Angeles River (ULAR)**

SCW VISION

CAPTURE IT → CLEAN IT → MAKE IT SAFE → MAKE IT FOR EVERYONE

SCW GOALS

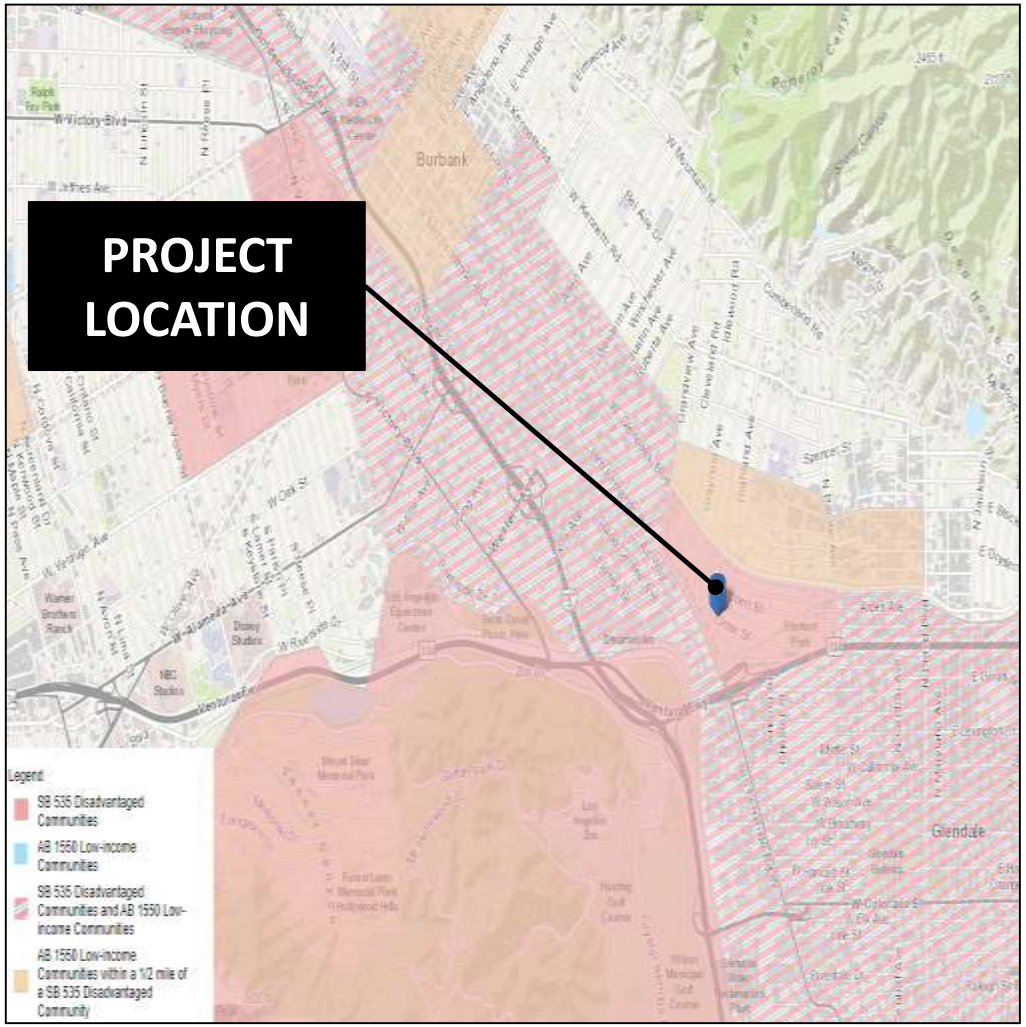
- ❑ Capture the billions of gallons of water we lose each year
- ❑ Protect coastal waters and beaches from trash and contaminants
- ❑ Modernize our 100 year-old water system infrastructure
- ❑ Help protect public health and create more livable spaces for all
- ❑ Prepare our region for the effects of a changing climate
- ❑ Ensure local monies raised stay local

MUNICIPALITY BENEFITS

- Improve water quality
- Recharge SF Aquifer
- Reduce flooding
- Raise awareness
- Plant trees & vegetation
- Provide shade structures
- Improve air quality
- Comply with MS4 permit

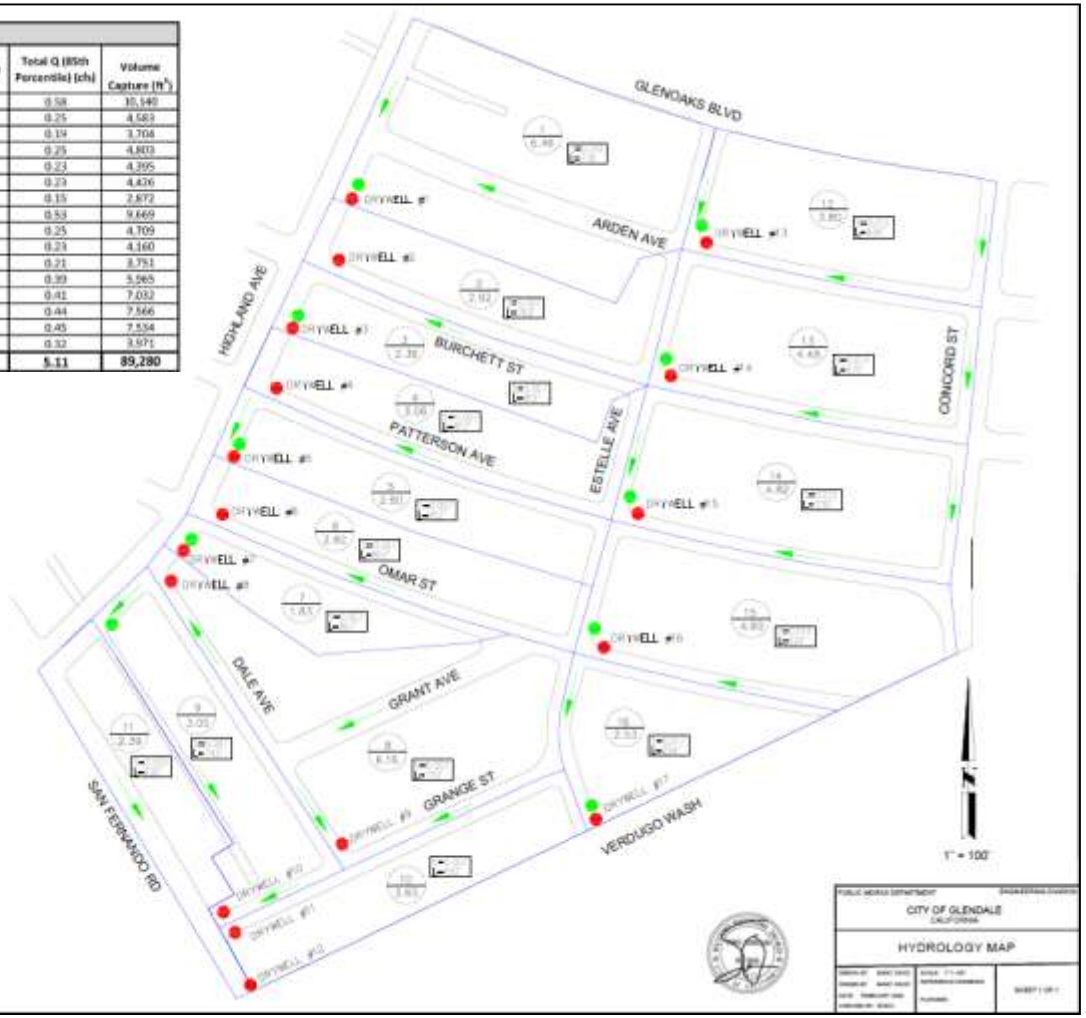
DAC BENEFITS

- Project entirely within DAC
- Improve water quality
- Recharge SF Aquifer
- Reduce flooding
- Raise awareness
- Plant trees & vegetation
- Provide shade structures
- Improve air quality
- Beautify public areas



HYDROLOGY STUDY

Highland Avenue Hydrology Study_85th Percentile									
Subarea	Drywell #	Area (Acres)	Length (Feet)	Slope	Rainfall Depth (Inches)	% Impervious	Soil Type	Total Q (85th Percentile) (cfs)	Volume Capture (ft³)
1	1	6.46	718	0.010	1.00	0.42	S	0.58	10,140
2	2	2.92	763	0.007	1.00	0.42	S	0.25	4,583
3	3	2.36	812	0.007	1.00	0.42	S	0.19	3,704
4	4	3.06	812	0.007	1.00	0.42	S	0.25	4,803
5	5	2.80	812	0.007	1.00	0.42	S	0.23	4,395
6	6	2.82	857	0.007	1.00	0.42	S	0.23	4,426
7	7	1.83	857	0.007	1.00	0.42	S	0.15	2,872
8	8 & 9	6.16	730	0.007	1.00	0.42	S	0.53	9,669
9	10	3.00	743	0.007	1.00	0.42	S	0.25	4,709
10	11	2.65	650	0.007	1.00	0.42	S	0.23	4,160
11	12	2.39	630	0.009	1.00	0.42	S	0.21	3,751
12	13	3.80	634	0.012	1.00	0.42	S	0.39	5,965
13	14	4.48	675	0.014	1.00	0.42	S	0.41	7,032
14	15	4.82	730	0.015	1.00	0.42	S	0.44	7,566
15	16	4.80	824	0.014	1.00	0.42	S	0.45	7,534
16	17	2.53	254	0.017	1.00	0.42	S	0.32	3,971
Total	17	56.88						5.11	89,280



** Translates to 25-100 acre-feet per year of water recharge into the SF aquifer*

MAXWELL® PLUS DRYWELL SYSTEM

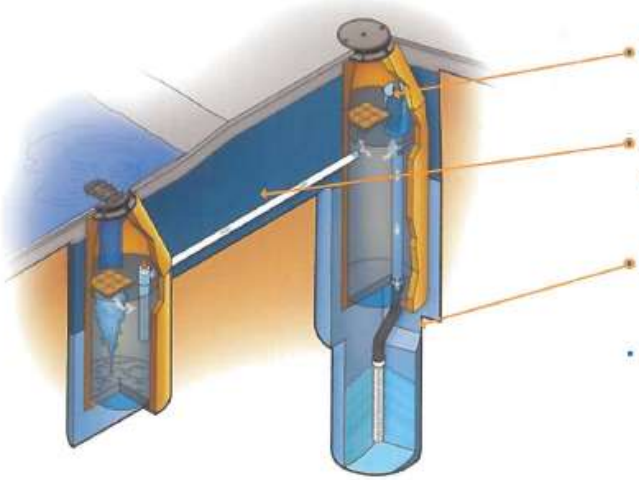
BEWARE: ALL DRYWELLS ARE NOT THE SAME

UNCOATED COMPONENTS
Internal components are periodically submerged in water or exposed to high levels of moisture, which promotes corrosion.

NO SLURRY BACKFILL
Stabilizing slurry around all settling chambers and connecting trenches provides greater compaction and elimination of surface settling.

SMALLER DIAMETER BOREHOLE
A drywell drilled with a 36" diameter auger rather than the specified 48" diameter auger provides 43% less gravel and 25% less drainage area.

THE MAXWELL® PLUS DRAINAGE SYSTEM

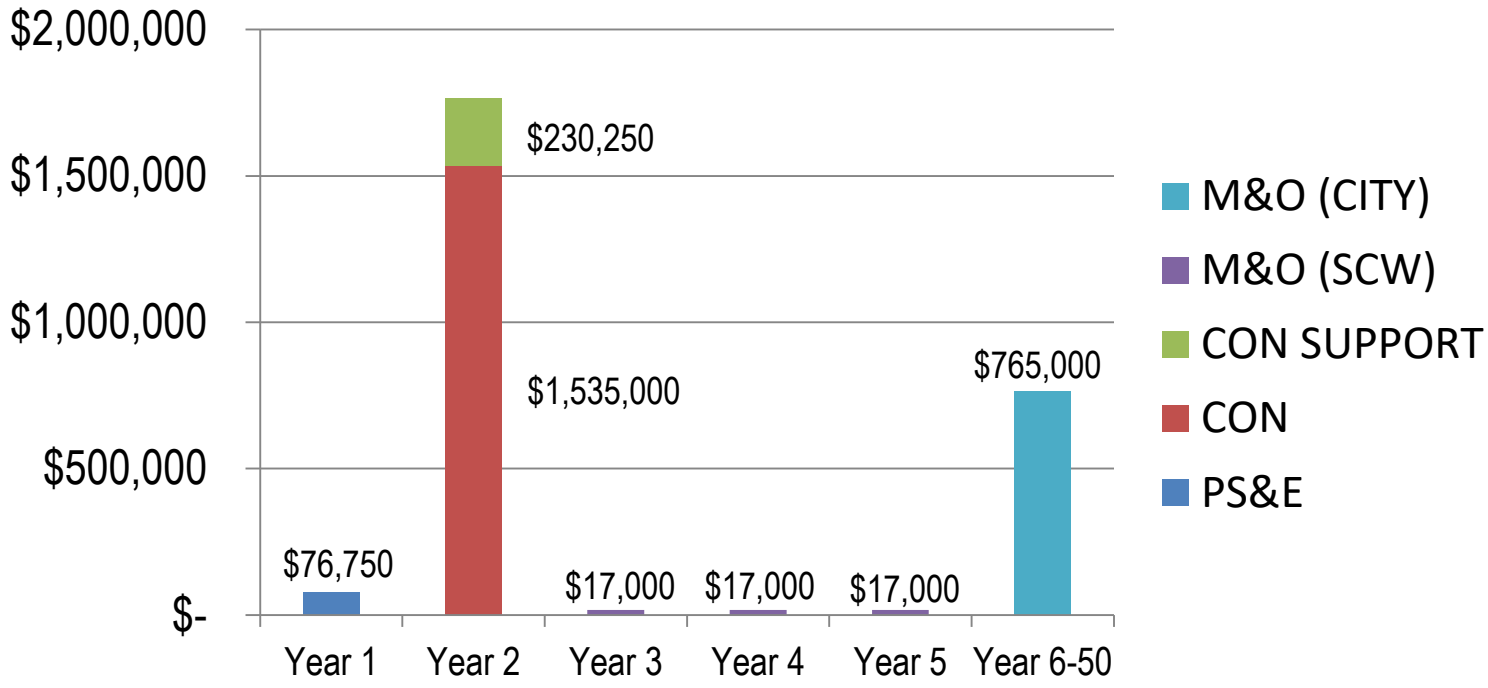


WHAT SETS THE MAXWELL® DRYWELL APART

- High-quality engineered components
- Stabilizing slurry around chambers and connecting trenches
- 48" diameter borehole
- Five year warranty, longest in the industry

PROJECT DETAILS

SEP 2020-SEP 2021	DEC 2021-OCT 2022	OCT 2022-OCT 2025	OCT 2025-OCT 2072
PS&E	**Construction**	**M&O (SCW Funds)**	**M&O (City Funds)**



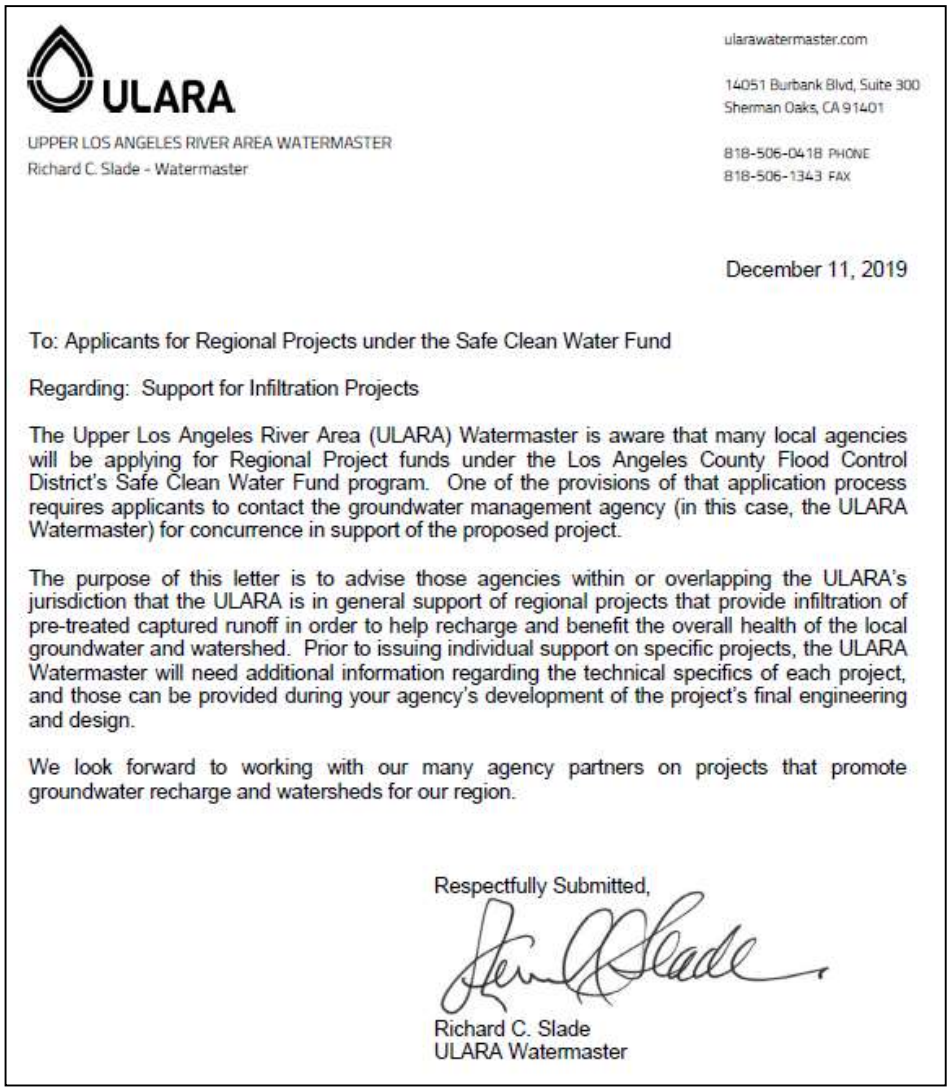
**Incorporated into the Adaptive Management section of the ULAR Watershed Annual Report as a replacement to the Fremont Park signature project identified in the ULAR EWMP*

SUMMARY OF BENEFITS

CAPTURE IT → CLEAN IT → MAKE IT SAFE → MAKE IT FOR EVERYONE

Scoring Section	Project Score	Scoring Criteria Thresholds
Water Quality Wet + Dry Weather Part 1	20	Cost Effectiveness = (24-hour BMP Capacity) / (Construction Cost in $Millions) • >1.0 = 20 points
Water Quality Wet + Dry Weather Part 2	30	Primary Pollutant Reduction: Total Zinc Reduced 99% • >80% = 20 points Secondary Pollutant Reduction: Bacteria Reduced 90% • >80% =10 points
Water Supply Part 1	10	• $1000–1500/ac-ft = 10 points
Water Supply Part 2	2	• 25 - 100 ac-ft/year = 2 points
Community Investment	5	• Three Benefits = 5 points *improves flood management, conveyance, and risk mitigation (stormwater capture will increase flood protection by reducing flow)* *reduces heat local island effect and increases shade (mix of peppermint willow, desert willow, & California Sycamore trees)* *increases number of trees & vegetation at the site (vegetation will uptake pollutants)*
Nature Based Solutions	10	• Implements natural processes or mimics natural processes to slow, detain, capture, and absorb/infiltrate water in a manner that protects, enhances and/or restores habitat, green space and/or usable open space = 5 points • Utilizes natural materials such as soils and vegetation with a preference for native vegetation = 5 points
Total	**77**	

SCW SUPPORT & GOALS MET



ULARA

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

ularawatermaster.com

14051 Burbank Blvd, Suite 300
Sherman Oaks, CA 91401

818-506-0418 PHONE
818-506-1343 FAX

December 11, 2019

To: Applicants for Regional Projects under the Safe Clean Water Fund

Regarding: Support for Infiltration Projects

The Upper Los Angeles River Area (ULARA) Watermaster is aware that many local agencies will be applying for Regional Project funds under the Los Angeles County Flood Control District's Safe Clean Water Fund program. One of the provisions of that application process requires applicants to contact the groundwater management agency (in this case, the ULARA Watermaster) for concurrence in support of the proposed project.

The purpose of this letter is to advise those agencies within or overlapping the ULARA's jurisdiction that the ULARA is in general support of regional projects that provide infiltration of pre-treated captured runoff in order to help recharge and benefit the overall health of the local groundwater and watershed. Prior to issuing individual support on specific projects, the ULARA Watermaster will need additional information regarding the technical specifics of each project, and those can be provided during your agency's development of the project's final engineering and design.

We look forward to working with our many agency partners on projects that promote groundwater recharge and watersheds for our region.

Respectfully Submitted,

Richard C. Slade
ULARA Watermaster

- ✓ **WILL** recharge the aquifer at a rate of 25-100 ac-feet per year
- ✓ **WILL** reduce primary and secondary pollutants
- ✓ **WILL** modernize 100-year old water system infrastructure using Maxwell Drywells, bioswales, tree and vegetation planting
- ✓ **WILL** help protect public health, ensuring safer, greener, healthier, and more livable spaces for all by making improvements in DAC
- ✓ **WILL** prepare for climate change by reducing drought and flooding
- ✓ **WILL** ensure Glendale monies raised address Glendale communities

#MyGlendale

SAFE
CLEAN
WATER
PROGRAM

Public Works
LOS ANGELES COUNTY

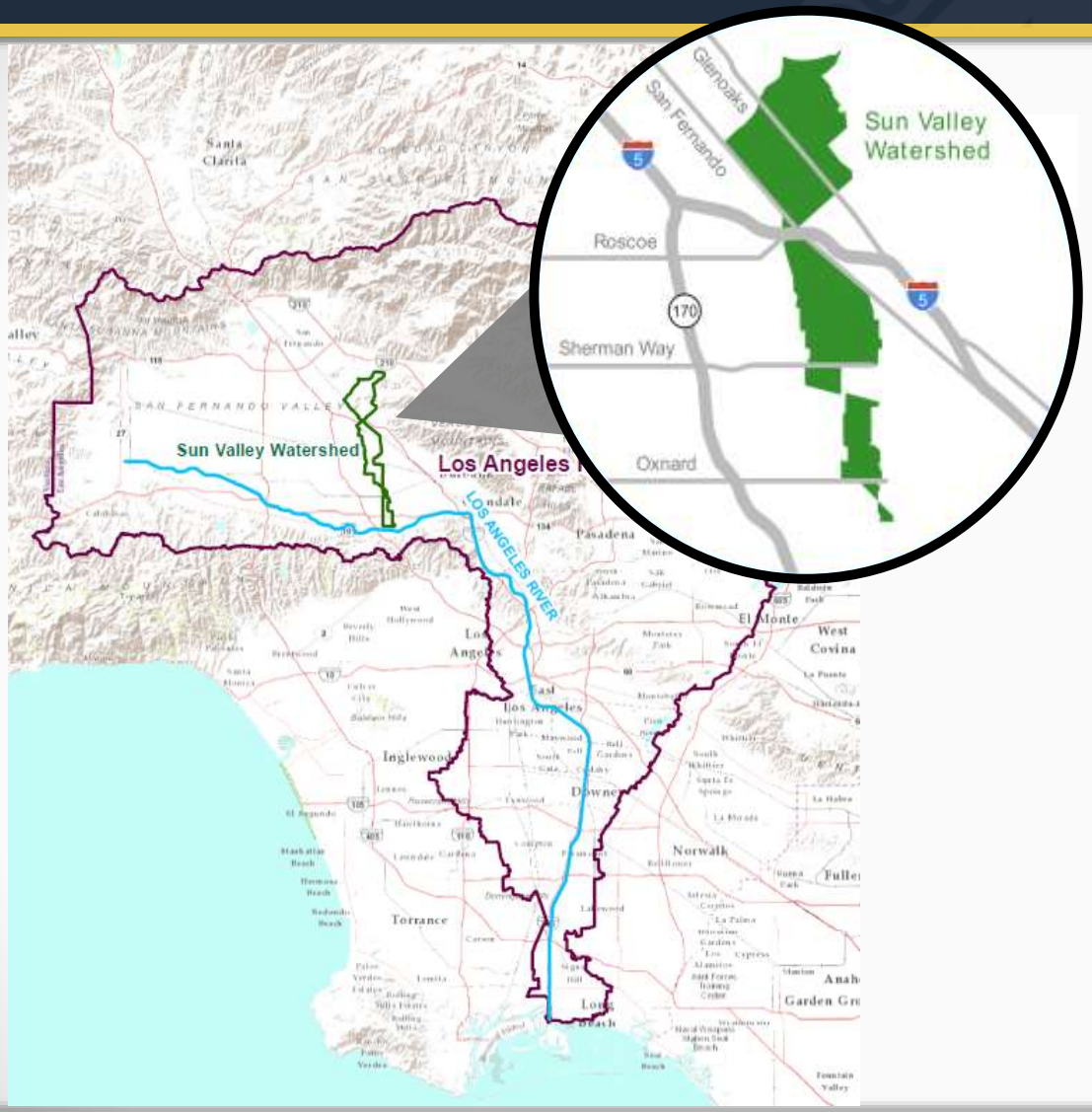
Rory M. Shaw Wetlands Park

March 2, 2020

Project Lead & Presenter: Kenneth Chow

Total Safe Clean Water Funding Requested: $10 million

Sun Valley Watershed



Public Works
LOS ANGELES COUNTY

Partnerships and Collaborations

SUN VALLEY WATERSHED STAKEHOLDER GROUP

MUNICIPALITIES

GOVERNMENT OFFICES

LOCAL AND FEDERAL AGENCIES

COMMUNITY (RESIDENTS)

ENVIRONMENTAL GROUPS

CONSERVATION AGENCIES AND GROUPS

LOCAL BUSINESSES

Public Works
LOS ANGELES COUNTY

Multi-Agency Collaboration

Public Works
LOS ANGELES COUNTY

CITY OF LOS ANGELES
FOUNDED 1781

The Sun Valley Watershed Project
El Proyecto de la Cuenca de Sun Valley

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GREATER LOS ANGELES COUNTY
VECTOR CONTROL DISTRICT

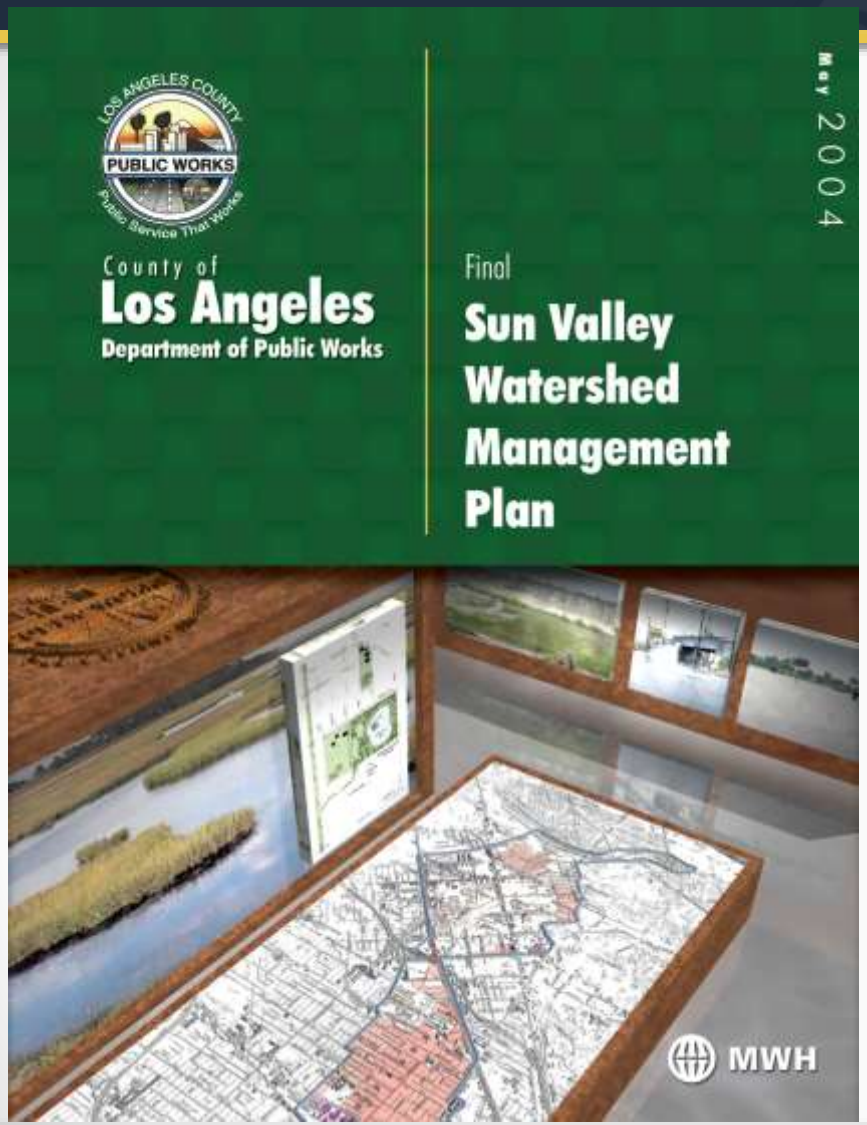
CITY OF LOS ANGELES
SANITATION
DEPARTMENT OF
PUBLIC WORKS

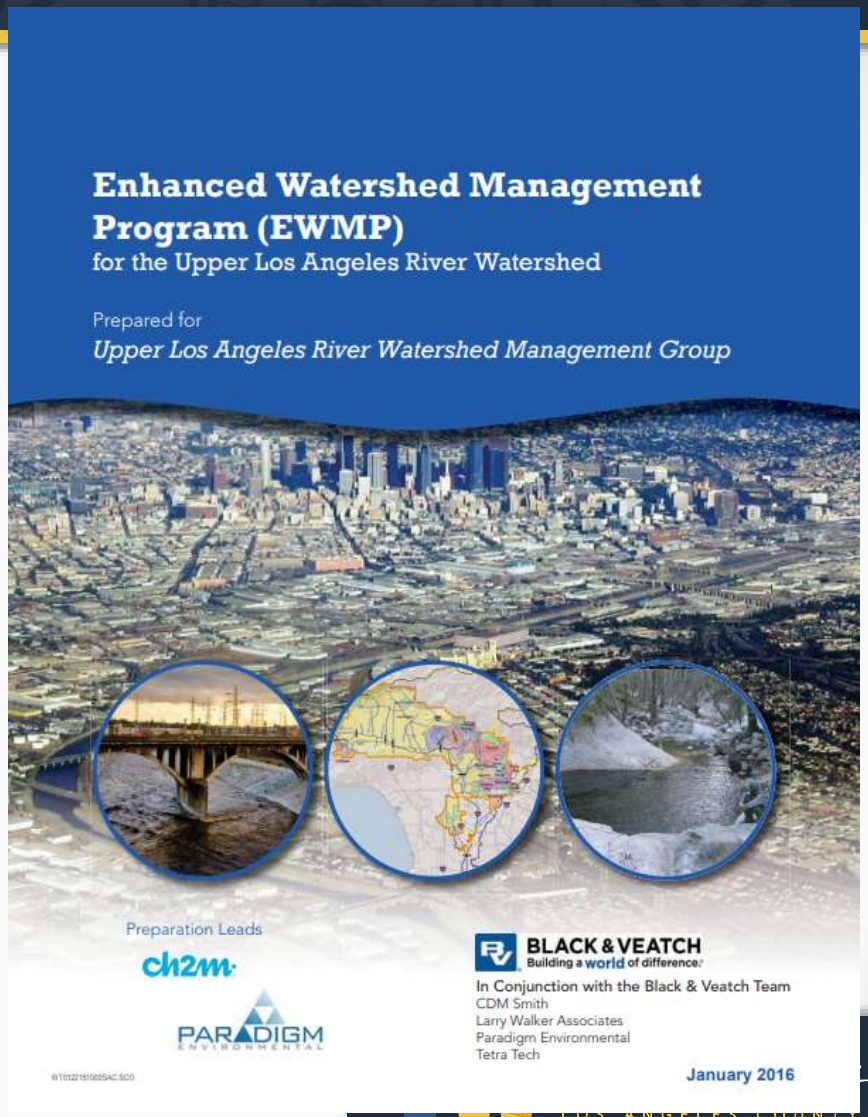
COUNTY OF LOS ANGELES
CALIFORNIA

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

Public Works
LOS ANGELES COUNTY

Components of the Sun Valley Watershed Multi-Benefit Project





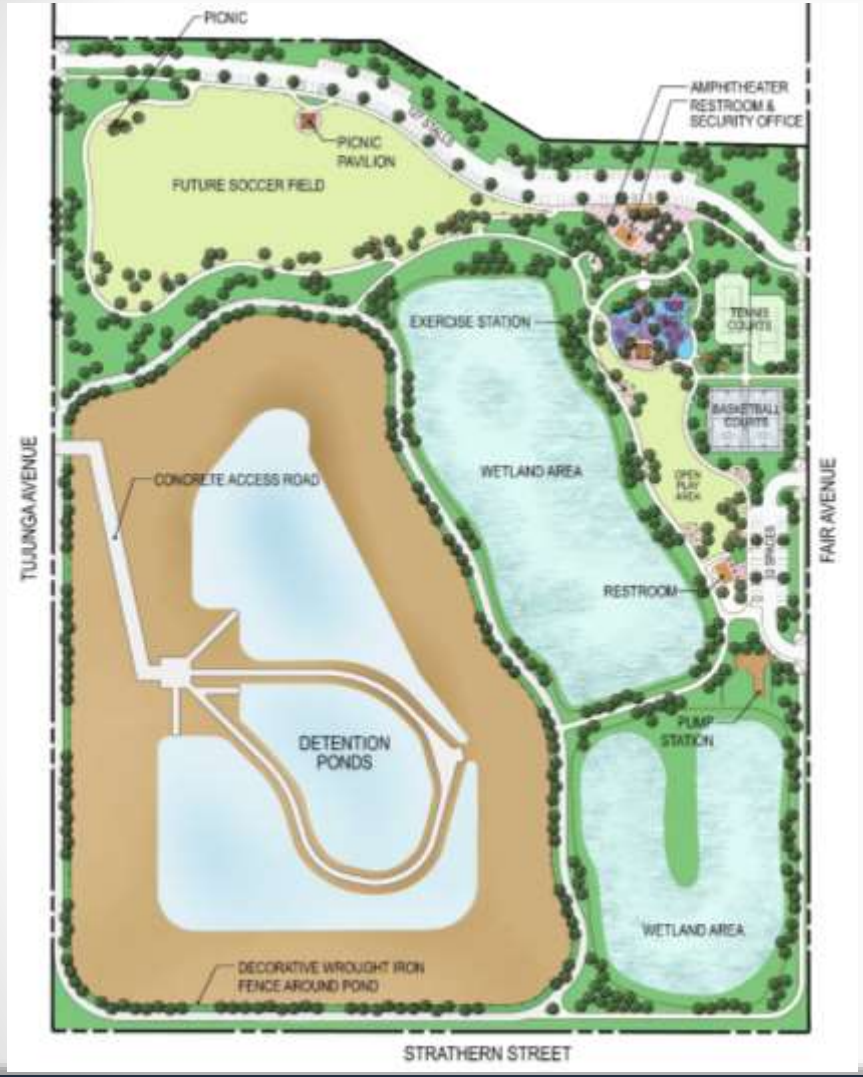
Sun Valley Community Needs

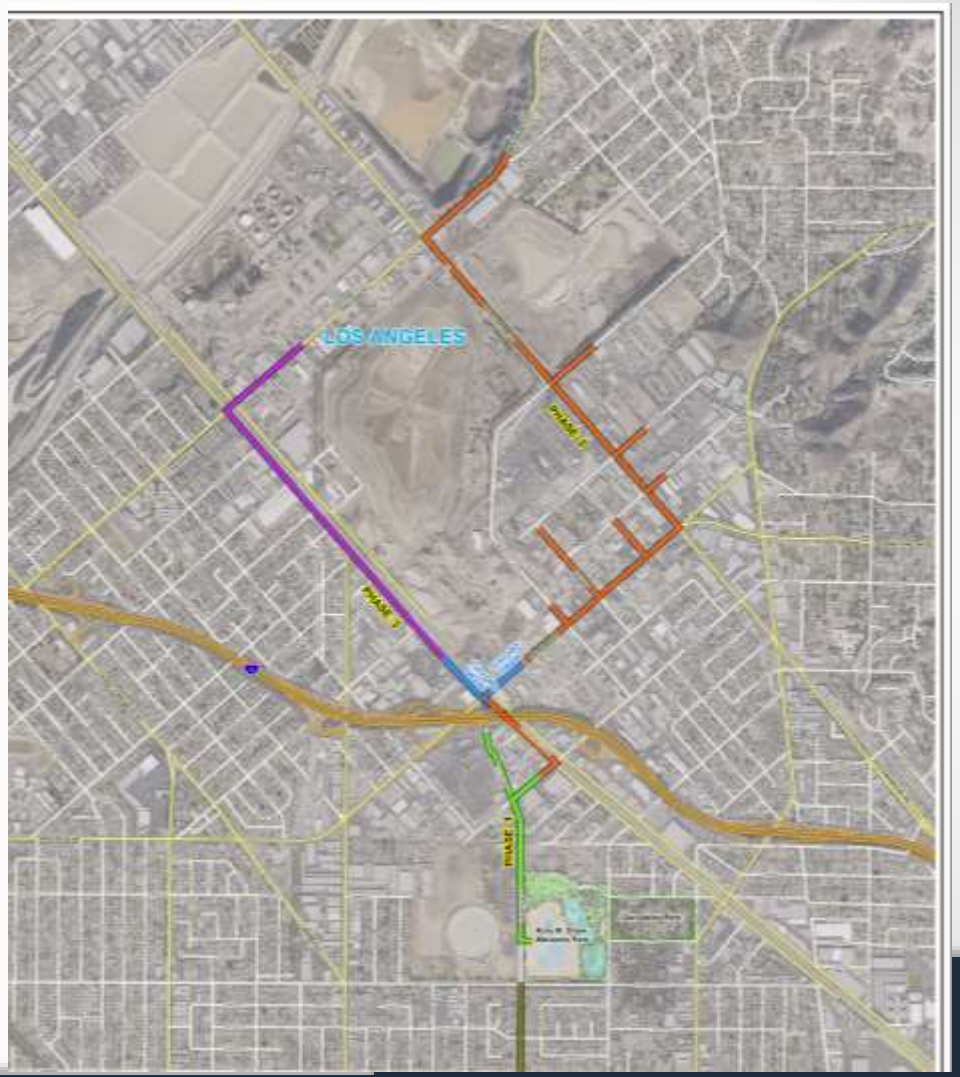
Sun Valley is categorized as a severely Disadvantaged Community (DAC)

- Reduce stormwater pollution
- Resolves major flooding problems
- Add new open space and recreational area
  - Sun Valley is categorized as a Very High Park Need area in the LA County Comprehensive Parks and Recreation Needs Assessment (2016)
- Add new habitat for plant and animal species

Rory M. Shaw Wetlands Park Project Site

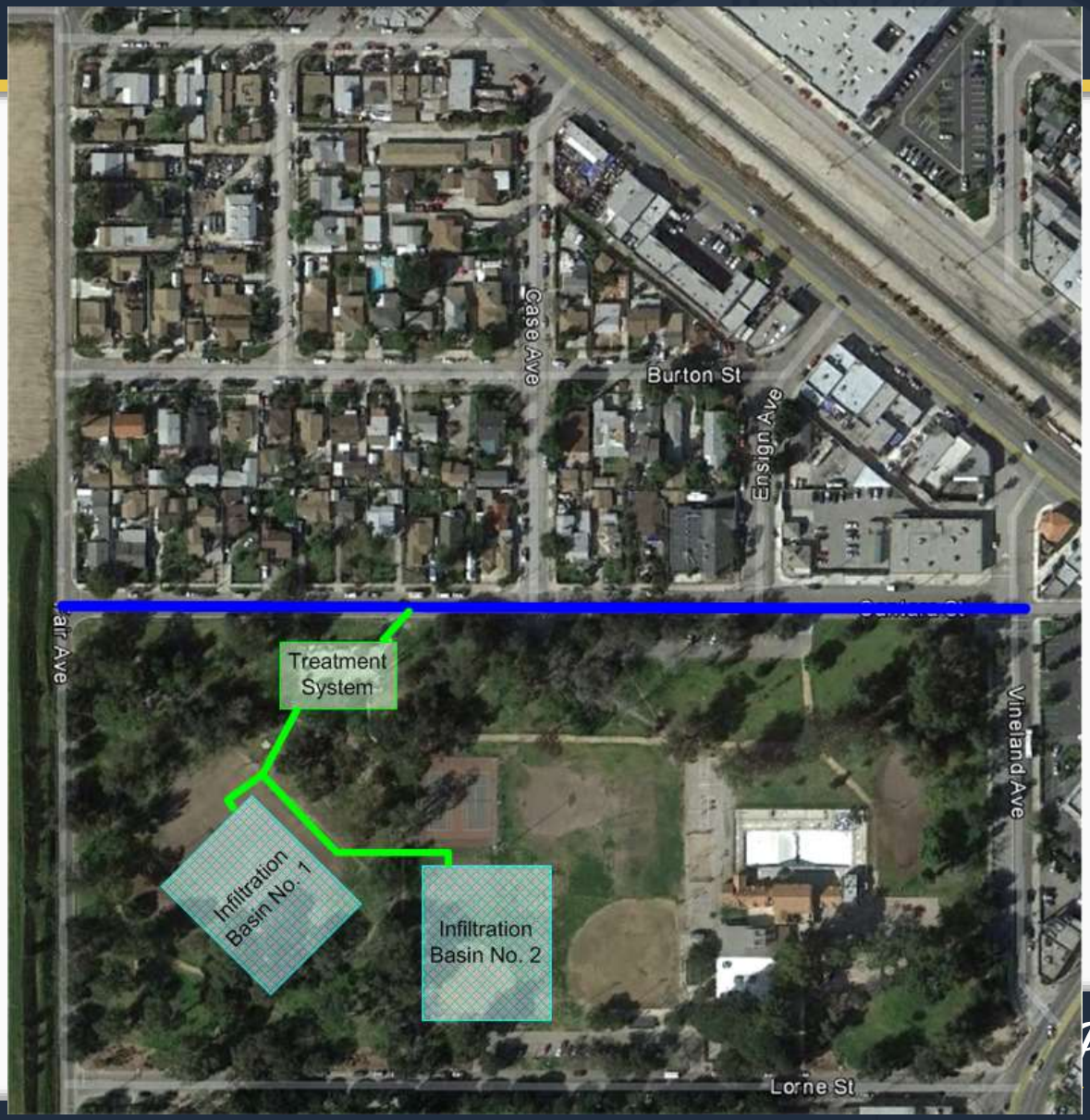
Rory M. Shaw Wetlands Park & Sun Valley Upper Storm Drain Concept





Treatment Process

Sun Valley Park



Public Works
OS ANGELES COUNTY

Renderings

Renderings

Phases

Phase 1

Planning, Site Demolition, and Testing

Phase 2

Excavation, Rough Grading, and Underground Infrastructure

Phase 3

All Above Ground Improvements – installation of detention pond, wetlands, basketball courts, tennis courts, amphitheatre, playground

Public Works
LOS ANGELES COUNTY

Phase 1 – Site Demolition and Testing

BEFORE

AFTER

Public Works
LOS ANGELES COUNTY

Summary of Benefits

- Water Quality (50/50)
  - High rate of pollutant removal through the treatment train beginning with hydrodynamic separators, detention pond, wetlands, and infiltration basins.
- Water Supply (25/25)
  - Stormwater from the project will recharge the groundwater through the infiltration basins at Sun Valley Park
- Community Investment Benefits (5/10)
  - Improves flood management, flood conveyance, and flood risk mitigation
  - Creates park space, habitat and wetland space
  - Creates new recreational opportunities
  - Reduces local heat island effect and increases shade
  - New trees and vegetation
- Nature Based Solutions (10/15)
  - 10 acres of wetlands to slow, detain, and treat stormwater
  - Planting of native trees and shrubs
- Leveraging Funds (6/10)
  - $17.8 million from City of Los Angeles Proposition O Clean Water Bond

Schedule

Milestone	Description	Cost	Tentative Construction Start Date	Tentative Construction End Date	Status
Phase 1	Planning, Site Demolition and Testing	$4 million	FEBRUARY 2017	AUGUST 2017	Completed
Phase 2	Excavation and Grading; Underground Infrastructure	~$51 million	MARCH 2021	APRIL 2025	Finalizing Designs; Preparing Bid Package
Phase 3	All Above Ground Improvements	~$30 million	OCTOBER 2025	NOVEMBER 2027	In Development

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Funding

Approximate Project Capital Cost

$85 million

- Construction Cost: $81 million
- Planning Cost: $4 million
- Operation and Maintenance: Still in Design Phase

Total Safe Clean Water Funding Requested

$10 million

Additional Funding

$17.8 million from City of Los Angeles Proposition O Clean Water Bond

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Expenditure Projections of SCW Funds

Fiscal Year	Description of Expenditures	Funding Allocation
2019-2020	Phase 2 Design and Planning Phase 2 Obtaining Permits	N/A
2020-2021	Phase 2 Construction	$2 million
2021-2022	Phase 2 Construction	$2 million
2022-2023	Phase 2 Construction	$2 million
2023-2024	Phase 2 Construction	$2 million
2024-2025	Phase 2 Construction	$2 million

Questions

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APPENDIX – Sun Valley Park

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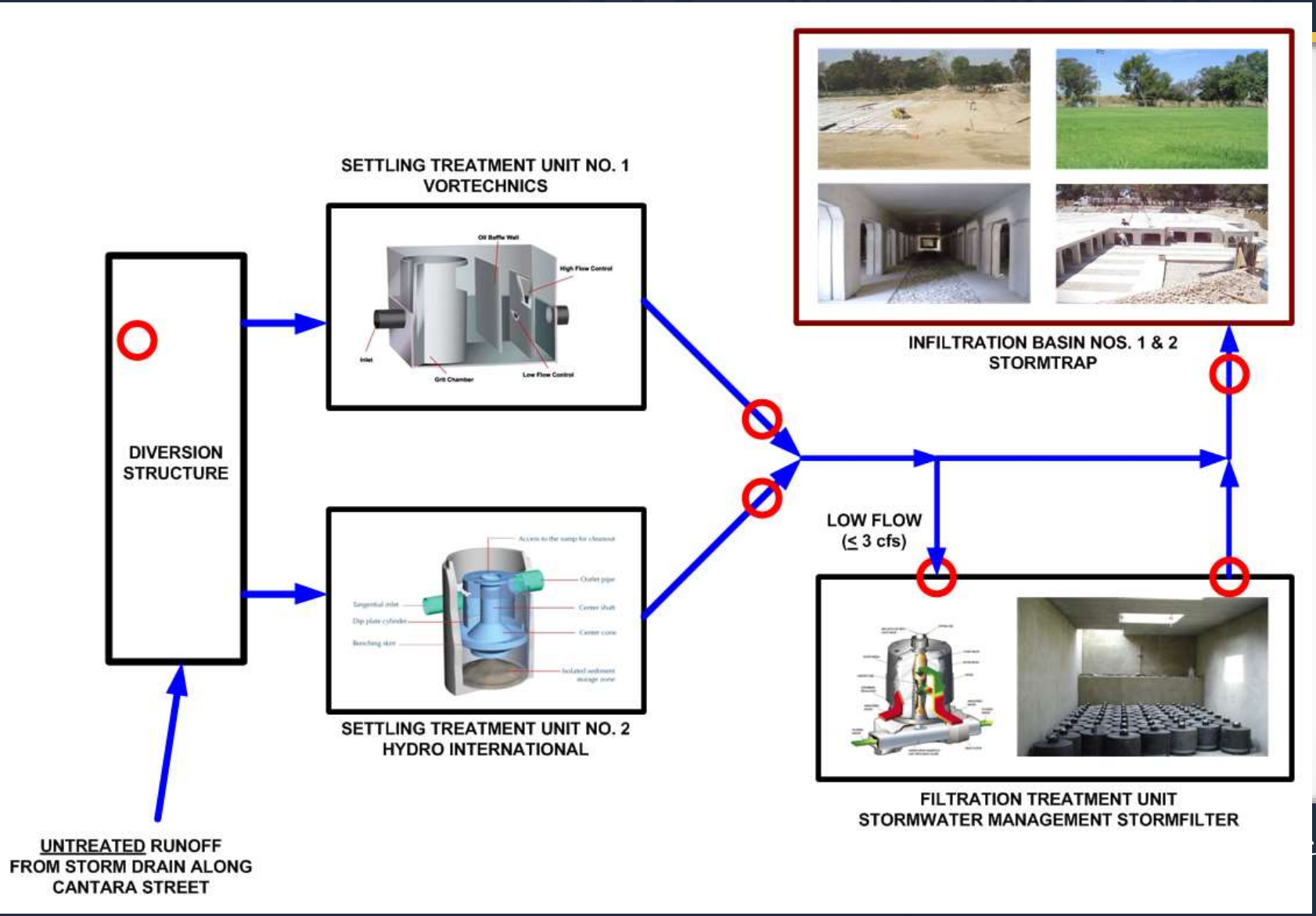

APPENDIX - Renderings

APPENDIX - Phase 1
Site Demolition and Testing

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APPENDIX – Sun Valley Watershed Upper Storm Drain System

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