

Stormwater Capture Parks Program

Whitsett Fields Park North

Funding Program: Infrastructure Program

Fiscal Year 2022-2023

Upper Los Angeles River

Los Angeles Department of Water and Power (LADWP)

Presenter: Merrill Taylor, PE (Craftwater Engineering)

View the project application at:

<https://portal safecleanwaterla.org/projects-module-api/api/reportdownload/pdf/13/267>



View the project fact sheet at:

<https://portal safecleanwaterla.org/projects-module-api/api/summarydownload/pdf/13/285>



Project Overview

The Whitsett Fields Park North Stormwater Capture Project will capture 150 AF per year of stormwater, improve water quality, and enhance the disadvantaged community (DAC). Fifty percent cost match with strong community support.

- Primary Objectives: Improve water supply and quality through infiltration
- Secondary Objectives: Community benefits for the DAC with very high park needs
- Funding requested for design and construction
- Total Funding Requested: \$8,393,000
- FY 22-23 Funding Request: \$840,000

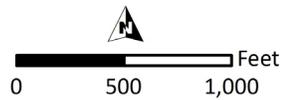


Project Location

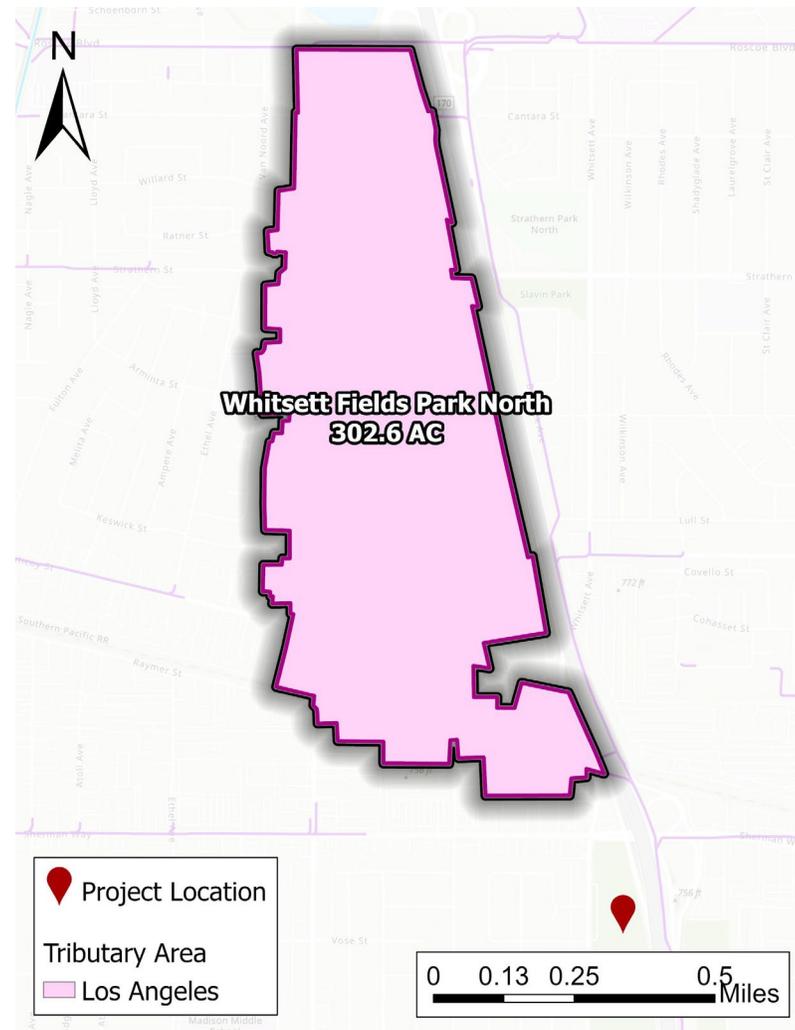
Legend

Land Use (SCAG, 2021)

- Single Family Residential
- Multi-Family Residential
- General Office
- Commercial and Services
- Facilities
- Industrial
- Open Space and Recreation



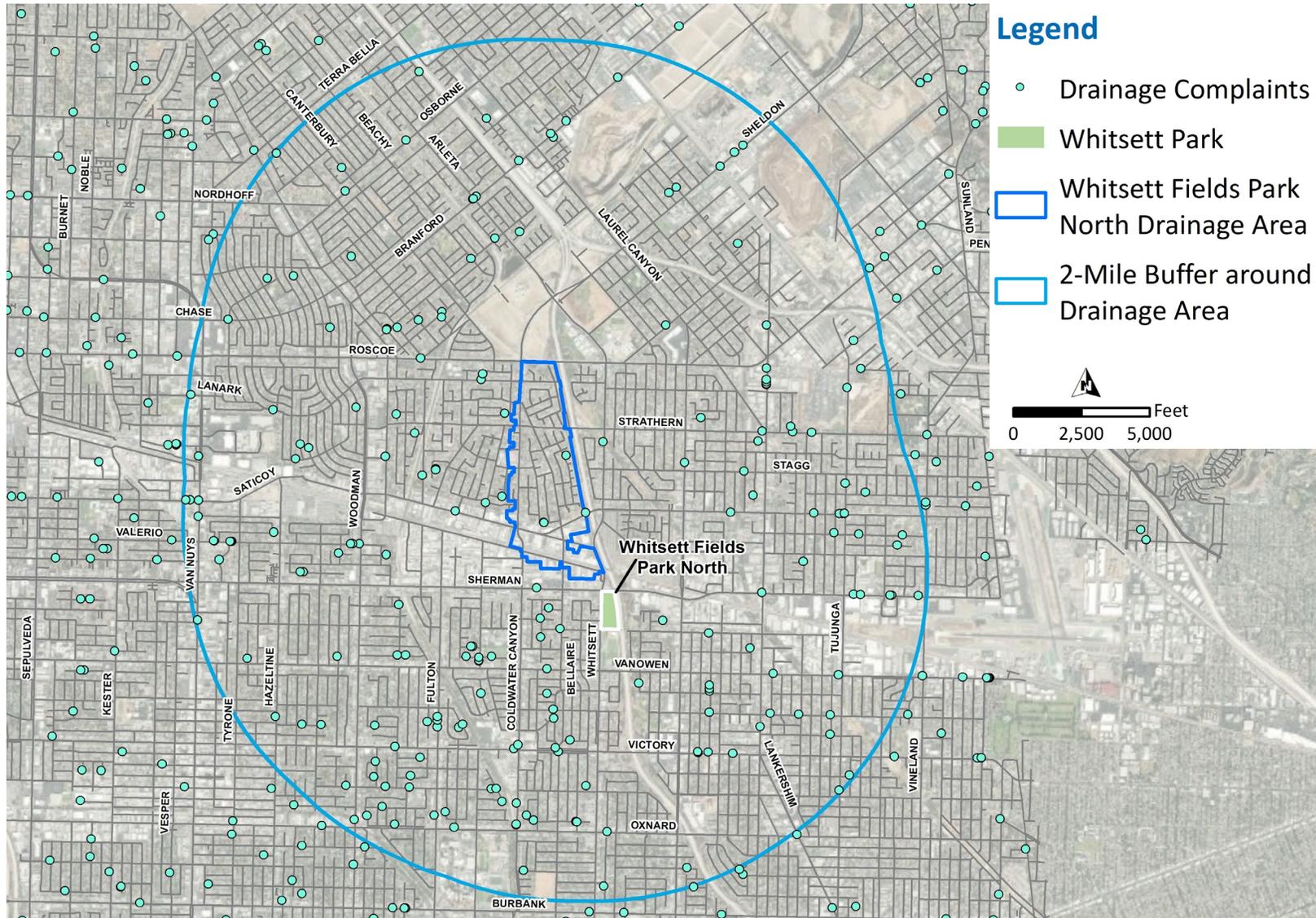
Location Map



Drainage Area – 303 ac



Project Location



Significant Number of Flooding Complaints Reported within 2 miles of Drainage Area

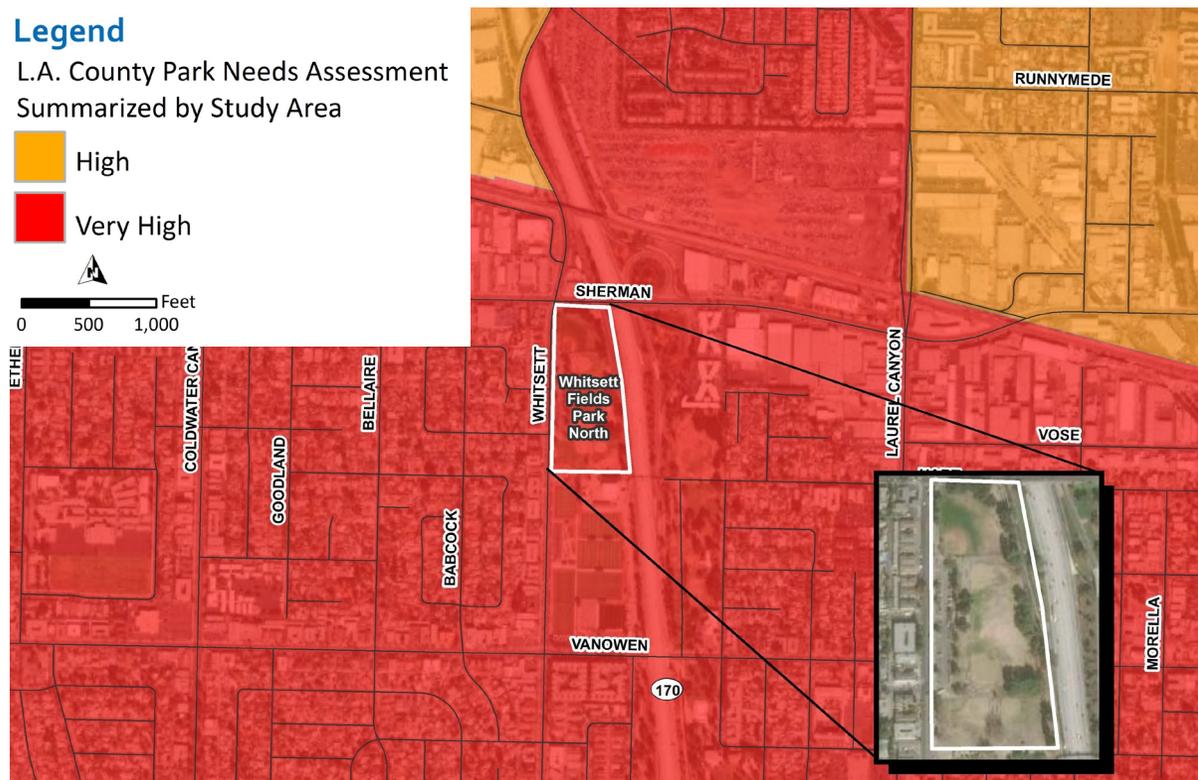
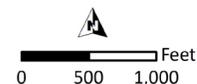


Project Location

Legend

L.A. County Park Needs Assessment
Summarized by Study Area

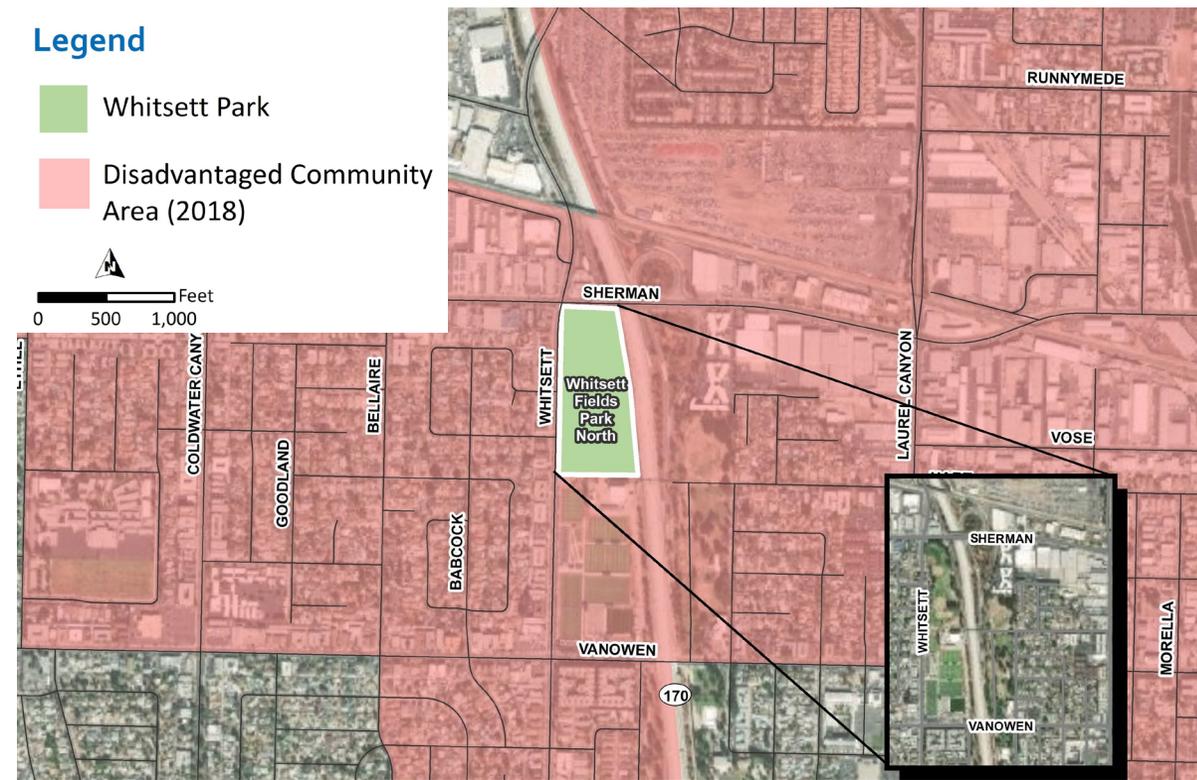
- High
- Very High



Very High Park Needs (Red)

Legend

- Whitsett Park
- Disadvantaged Community Area (2018)



Disadvantaged Community (Pink)



Project Background

- The project is included in the ULAR EWMP and IRWMP
- Benefits to the San Fernando Valley:
 - Increase local water supply by recharging the groundwater basin
 - Alleviate localized flooding & increase flood control capacity
 - Improve regional water quality
 - Provide community enhancements through park improvements and new amenities
- Disadvantaged Communities Issues: Localized flooding, very high park needs, poor air quality due to proximity to major highways, and historic underinvestment
- Disadvantaged Communities Benefits: Improved flood mitigation, restoration of park, enhanced recreational opportunities, increased shade, and carbon sequestration



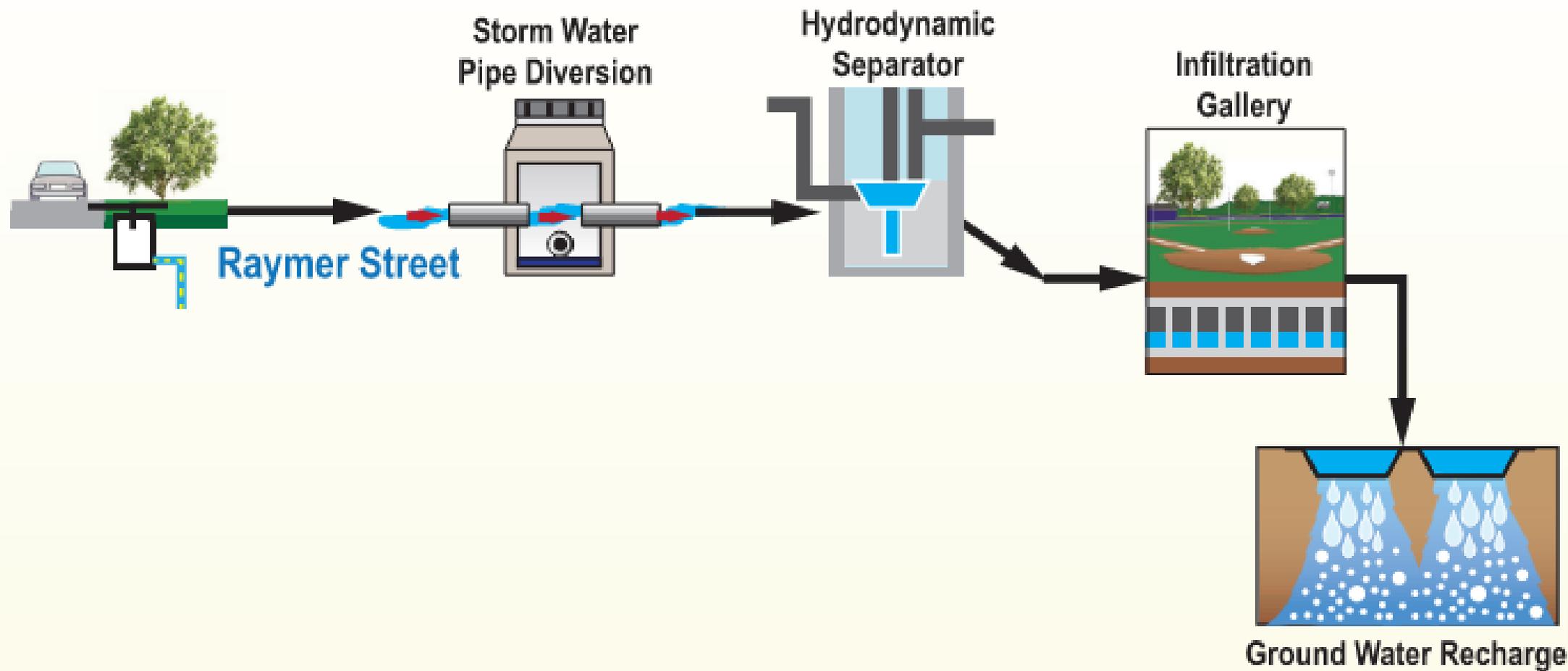
Project Details



- Storage Volume: **9.9 ac-ft**
- Infiltration Footprint Area: **0.9 ac**
- Infiltration Rate: **5.0 in/hr**

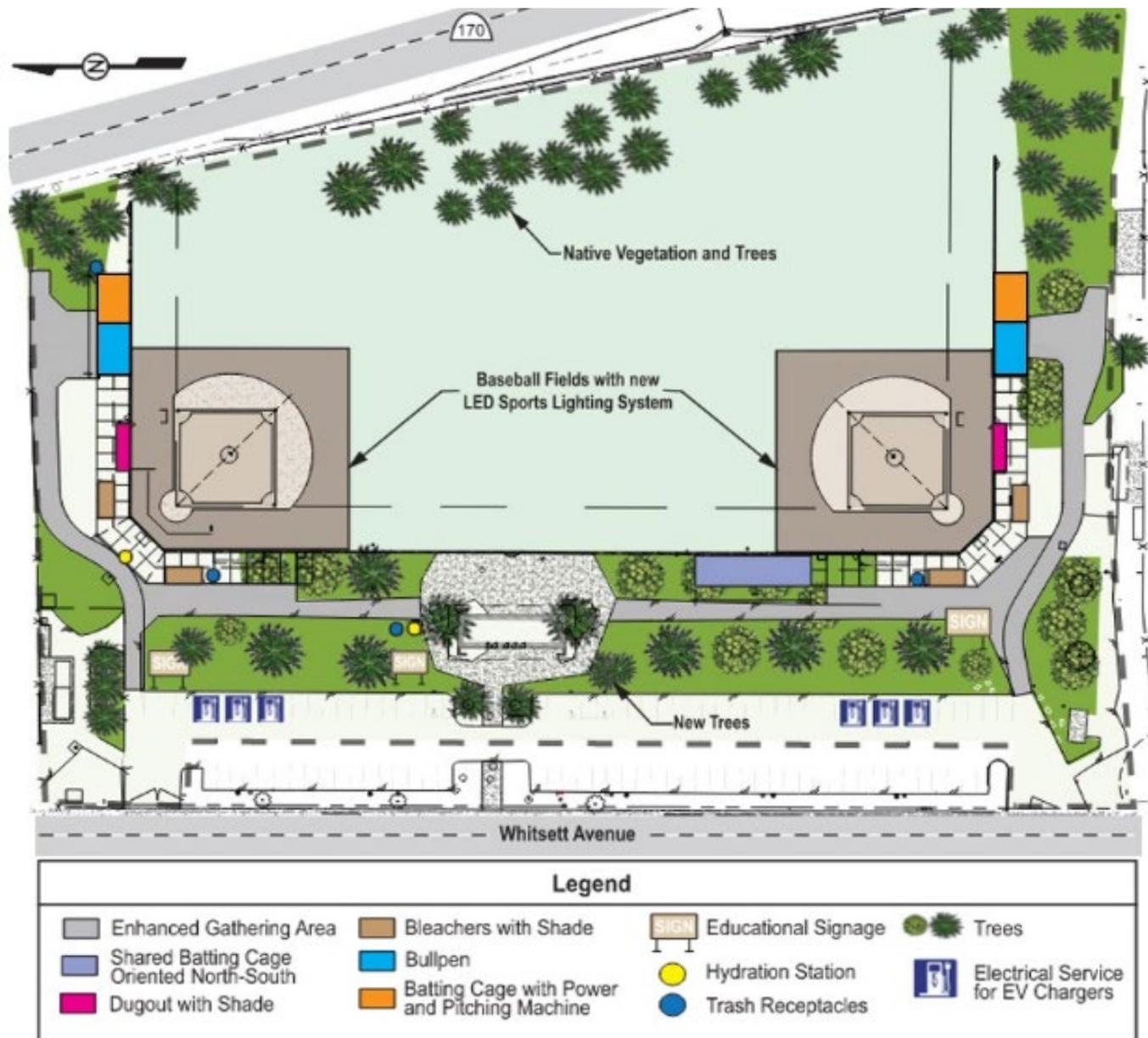


Project Details





Project Details

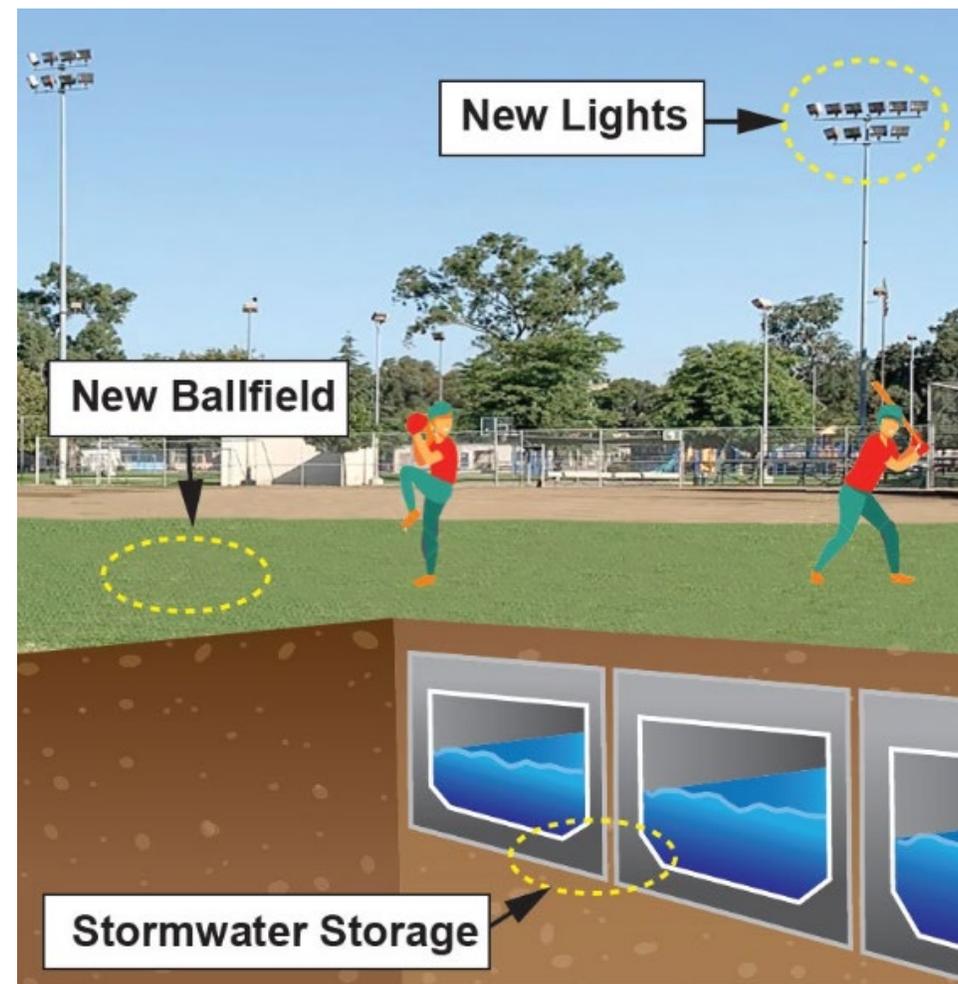




Project Details

Project Features:

- Field turf
- Dugouts
- Back-stops
- Batting Cages with pitching machines
- Benches/Bleachers
- LED sports lighting system
- Irrigation system
- Hydration station
- Educational signage
- Parking lot landscaping, native vegetation, & trees
- Electrical service for EV chargers





Cost & Schedule

Phase	Description	Cost	Completion Date
Design	Design, geotechnical, environmental, outreach, permitting, grant applications, grant reporting	\$1,169,000	January 2022
Construction	Bid & award, construction, construction management, outreach, grant reporting	\$15,787,000	December 2026
TOTAL		\$16,956,000	

- Annual Costs: \$162,000 (O&M, monitoring)
- 40 - Year Lifecycle Cost: \$20.5 million (assumed 3.375% annual discount rate)



Funding Request

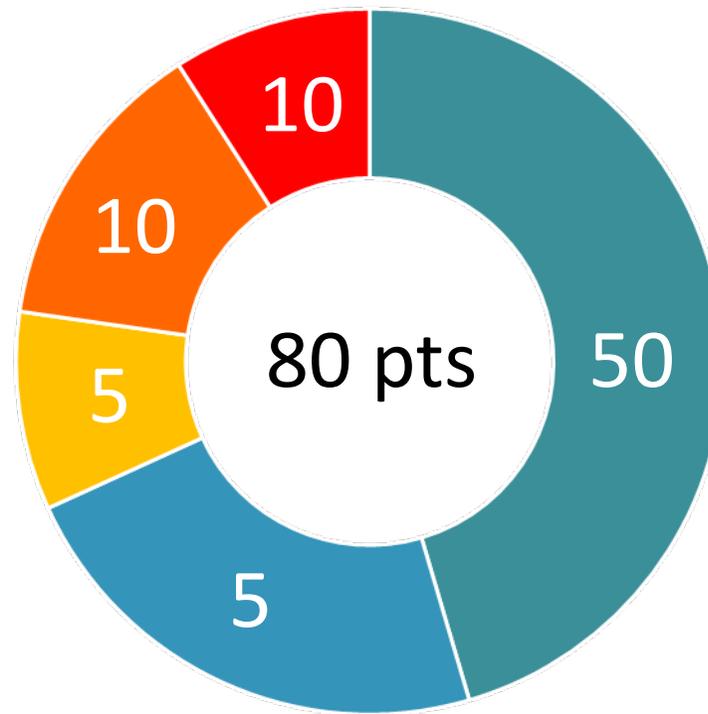
Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$840,000	Design	Design, environmental, outreach, permitting, grant applications, grant reporting
2	\$1,679,000	Design	Design, environmental, outreach, permitting, grant applications, grant reporting
3	\$1,679,000	Design	Design, environmental, outreach, permitting, grant applications, grant reporting
4	\$1,679,000	Construction	Bid & award, construction, construction management
5	\$2,516,000	Construction	Construction, construction management, post-construction management, grant reporting
TOTAL	\$8,393,000		

- **LADWP is committed to matching 50% of the total capital cost of Project**



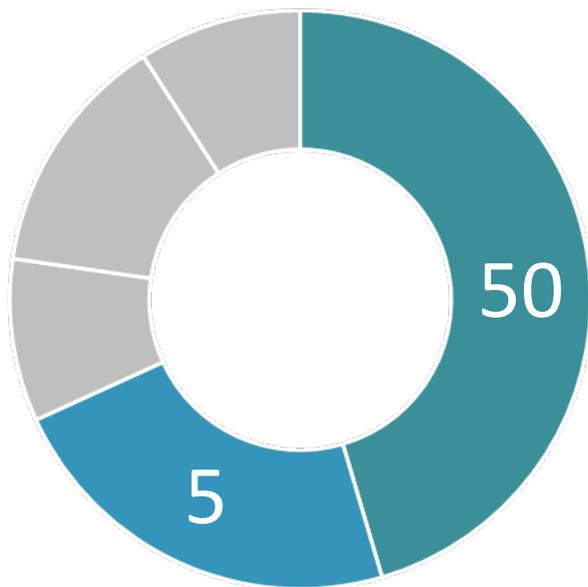
Preliminary Score

- Water Quality
- Water Supply
- Community Investment Benefits
- Nature Based Solutions
- Leveraged Funds and Community Support





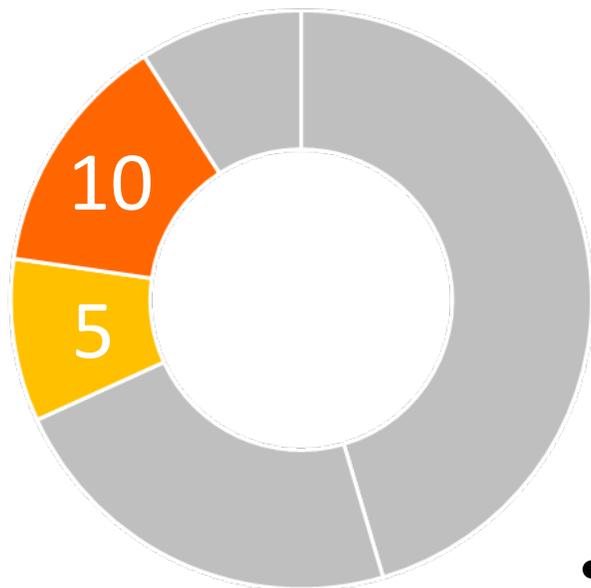
Water Quality & Water Supply Benefits



- Primary Mechanism: **Capture and Infiltration**
 - Captures **dry** and **wet** weather flows
- Tributary Area: **303 ac**
- 24-Hour Capacity: **18.9 ac-ft**
- Pollutant Reduction
 - Zinc Removal – **94%**
 - Bacteria Removal – **86%**
- Annual Water Supply Capture: **150 ac-ft**
- Water Supply Use: **Aquifer Recharge**
- Water Supply Cost Effectiveness: **\$6,377/ac-ft**



Community Investment Benefits and Nature Based Solutions



- **Community Investment Benefits**

- Improved flood mitigation
- Creation, enhancement, & restoration of parks
- Enhanced recreational opportunities
- Reduced heat island effect & increased shade
- Increased trees & vegetation, carbon sequestration, & improved air quality

- **Nature Based Solutions**

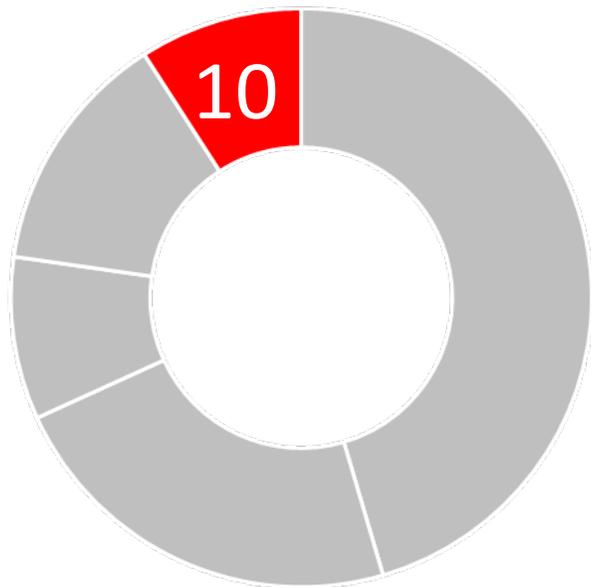
- Incorporates natural processes (infiltration, carbon sequestration)
- Utilizes natural materials (native vegetation, grass fields)





Leveraging Funds and Community Support

- Leveraging Funds
 - \$8,563,000
 - LADWP committed to 50% cost share



- Community Support
 - 9 outreach/engagement events have been held to date
 - Community meetings, surveys, informational mailers, banners, collaboration with community sports teams
 - Also conducted with Spanish translations
 - Letters of support:





Leveraging Funds and Community Support



Outreach & Engagement Conducted		
1	Council District 2	5/6/2020
2	Key Stakeholders	6/25/2020
3	Community	8/20/2020
4	Community	4/24/2021
5	North Hollywood West Neighborhood Council	5/12/2021
6	Chai Neighbors	5/26/2021
7	North Hollywood Northeast Neighborhood Council	7/16/2021
8	Toluca Little League	11/4/2021
9	Community	11/16/2021



Recent Projects



Woodman Avenue Green Street



Tujunga Spreading Grounds Enhancement Project

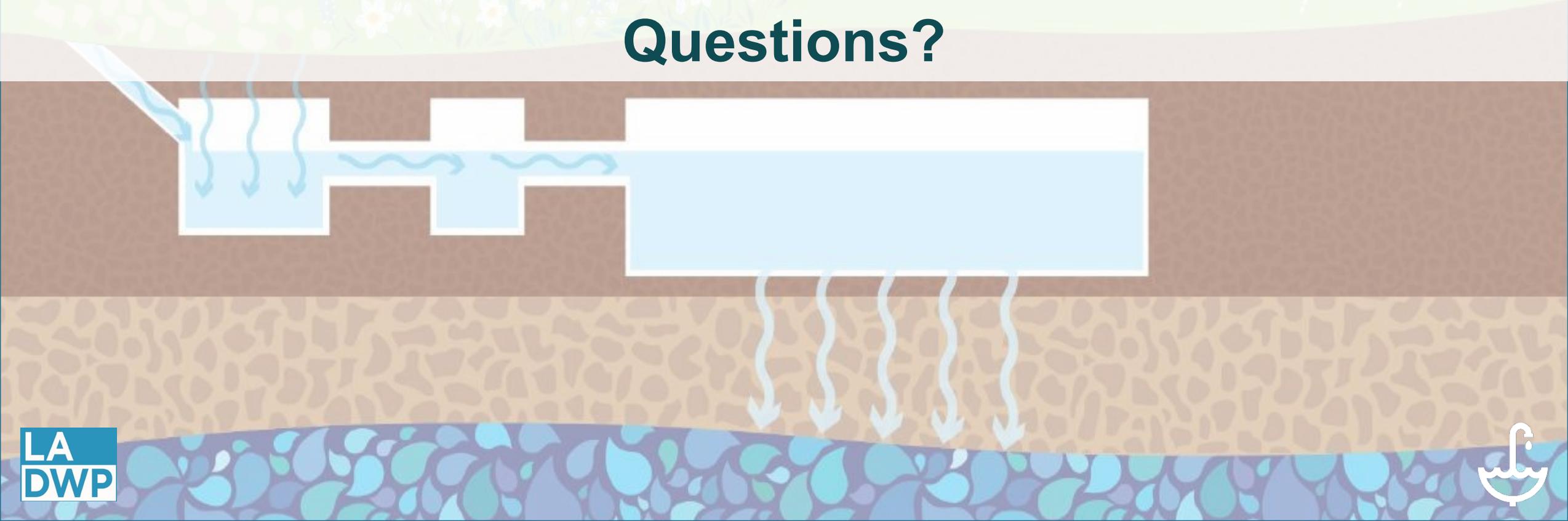


Laurel Canyon Green Street





Questions?





Echo Park Lake Rehabilitation Operation and Maintenance

Infrastructure Program

Fiscal Year 2022-2023

Upper LA River Watershed

Project Lead: Wing Tam, City of LA Sanitation and Environment

Presenters: Gordon Haines, City of LA Sanitation and Environment



Project Overview - Echo Park Lake O&M



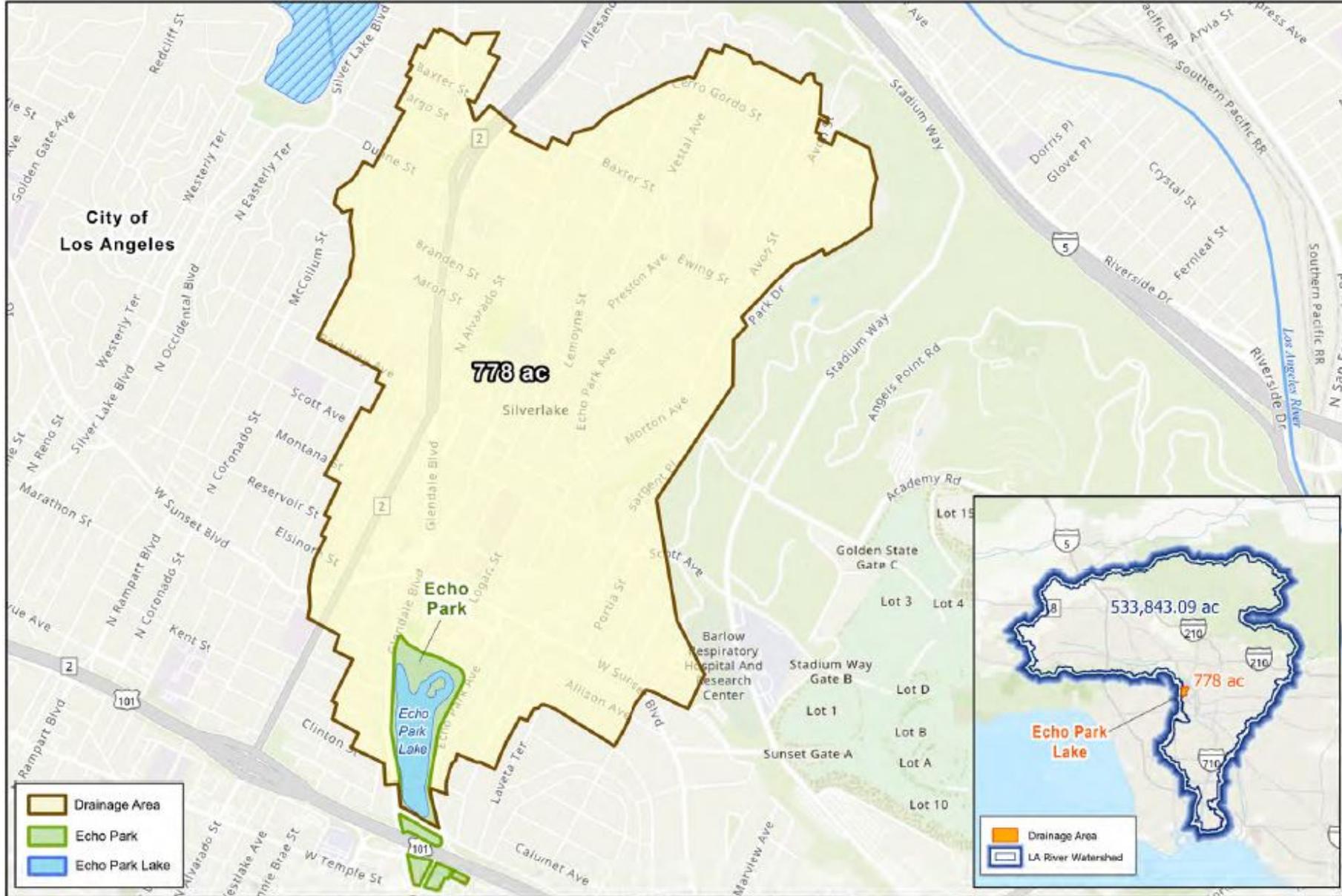
Operation and maintenance of 13-acres of lake and treatment wetlands at a vital regional multi-purpose City of Los Angeles facility.

- Primary Objective: Sustain improvements of City of LA Clean Water Bond (Prop O) project: Regionally improved open space and recreational amenities, flood mitigation, improved water quality, MS4 compliance and reduced water supply demand
- Secondary Objectives: Ensure recreation and habitat beneficial uses, public health protection
- Project Status: O&M
- Total Funding Requested: \$2,400,000





Project Location - Echo Park Lake O&M

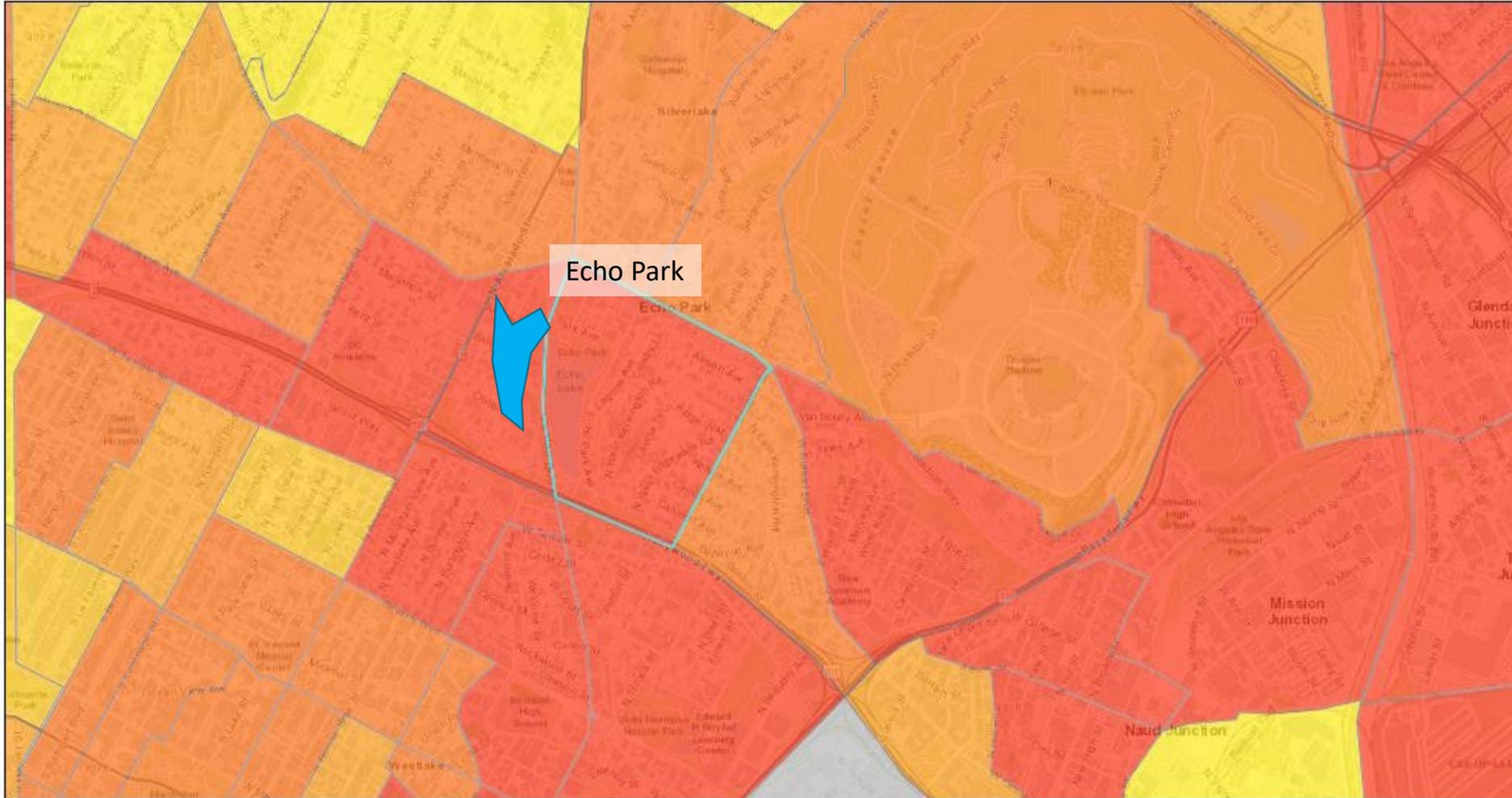


0 0.1 0.2 Miles

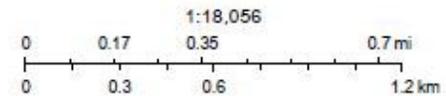
**ECHO PARK LAKE DRAINAGE AREA
within LA River Watershed**



CalEnviroScreen - Echo Park Lake O&M



11/12/2021, 11:46:27 AM



County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, EPA, USDA



Project Background - Echo Park Lake O&M



- The \$37M Echo Park Lake Rehabilitation Project was constructed under the City of LA's Prop O program and completed in 2013.
 - The original capital project was identified in the 2006 Greater Los Angeles County Integrated Regional Water Management Plan (IRMWP), Project 88 in the Upper Los Angeles River Subregion Projects.
 - The O&M project is necessary to sustain these improvements.
- Benefits to the region include a healthy environment for persons visiting and using the park facilities, or recreating on the lake and enjoying the wetlands habitat and wildlife.
- DAC - 30,000 residents in immediate area are in 90-95%
 - Park and lake are the only recreational facility within walking distance, and the only park with aquatic habitat with recreational use for miles
 - On a daily basis, scores of individuals, families, schools and groups use the park for recreation, exercise and social and educational activities.



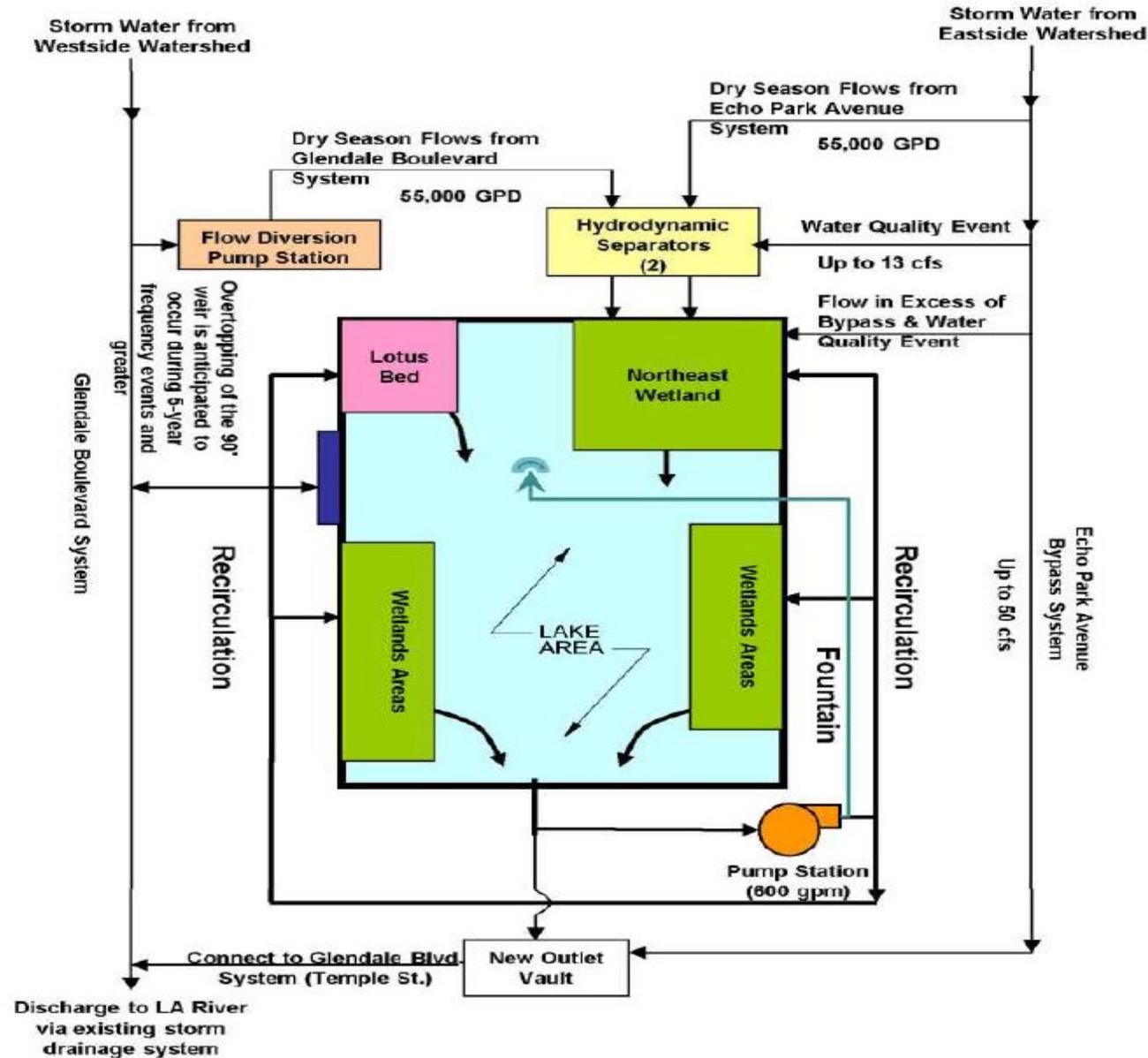
Project Overview - Echo Park Lake O&M



2 EPL - Major project elements of lake and wetlands O&M



Project Schematic - Echo Park Lake O&M





Cost & Schedule - Echo Park Lake O&M



Phase	Description	Cost	Completion Date
Design*	Pre-Design, Design, Construction Management, Inspection	\$ 10,653,574	01/2011
Construction *	Bid-award, Construction, post-construction costs	\$ 25,972,441	11/2013
Life-Cycle Cost for Project*	(Module-generated)	\$ 45,815,073.47	2027
Annualized Cost for Project*	(Module-generated)	\$ 2,742,205.91	2027
O&M	Operation and Maintenance	\$480,000 per year	June 2027
TOTAL	Operation and Maintenance	\$2,400,000	June 2027

* Capital costs of project funded by City of LA Clean Water Bond (Prop O)



Funding Request - Echo Park Lake O&M



Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$ 480,000.	O&M	Lake upkeep, trash and debris removal and disposal, invasive species control, algae and BGA control, diversion and trash separator inspections and cleanings, vegetation management, sediment removal, other tasks as needed.
2	\$ 480,000.	O&M	Same as above
3	\$ 480,000.	O&M	Same as above
4	\$ 480,000.	O&M	Same as above
5	\$ 480,000.	O&M	Same as above
TOTAL	\$2,400,000	O&M	



Preliminary Score – Echo Park Lake O&M



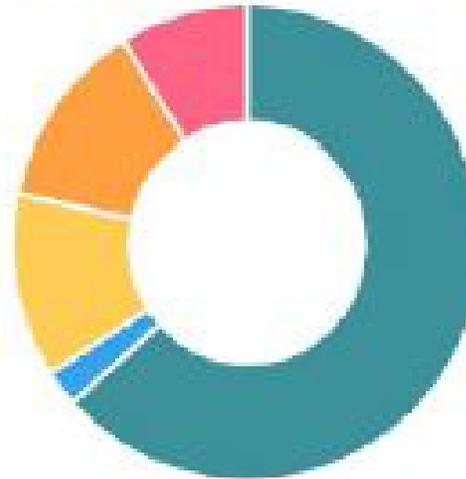
SAFE
CLEAN
WATER
PROGRAM

SAFE, CLEAN WATER PROJECT SCORE

Preliminary Estimated Project Score: **79 points**

The following graphics summarize the project scoring. The first graphic shows the components of the project score, based on the different scoring sections. The second graphic shows the percent of maximum score achieved by the project within each scoring section.

-  Water Quality
-  Water Supply
-  Community involvement
-  Nature-Based Solutions
-  Funds and Community



Score Breakdown

Water Quality: 50

Water Supply: 2

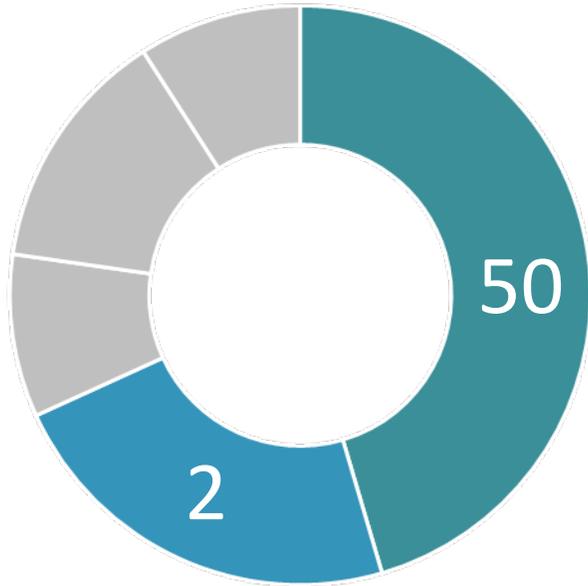
Community Investment: 10

Nature-Based Solutions: 10

Funds and Community: 7



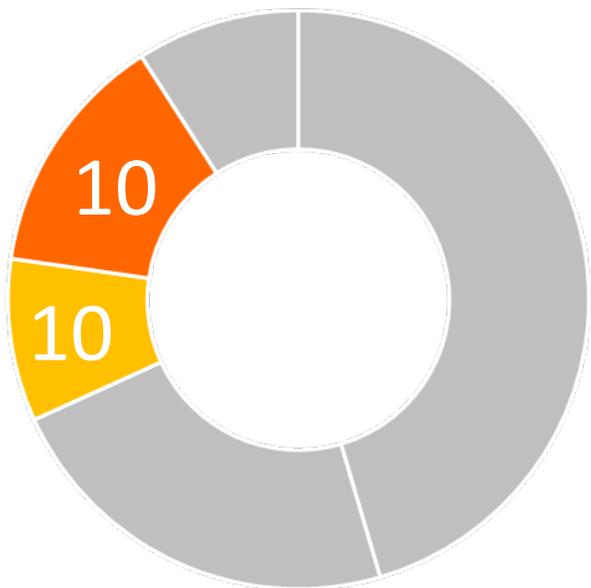
Water Quality & Water Supply Benefits



- Water Quality BMPs: Storm drain diversion; Pre-treatment devices; natural treatment wetlands
- Wet and Dry weather water into the lake
- Tributary Area = 784 acres
- Capacity = 90 AF (24 hr storm)
- Pollutant Reduction: Total N (93%), Total P (92%)
- Annual Water Supply Volume: 74 AF
- Water Supply Use : Augmentation of lake level and sustaining wetland plants
- Water Supply Cost Effectiveness: \$ 37,012 per AF



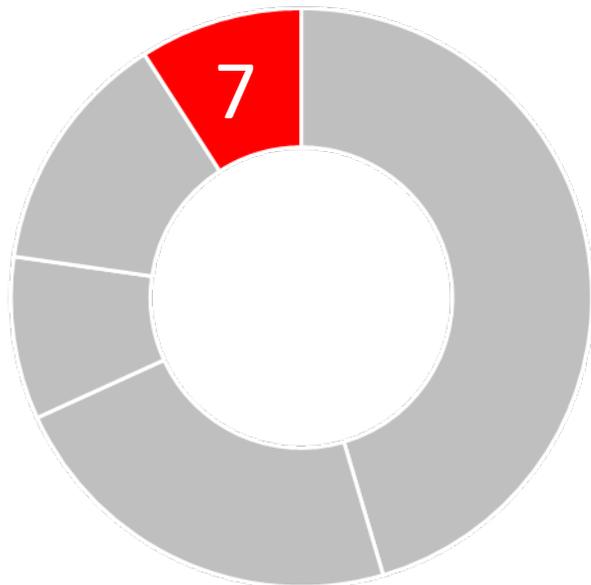
Community Investment Benefits and Nature Based Solutions



- Community Investment Benefits
 - Flood management Project will maintain the function of Echo Park Lake retention
 - Maintain 4.4 acres of wetlands and habitat
 - Maintain improved access to Lake and wetlands
 - Project will maintain and/or enhance recreation opportunities to provide regional access
 - Lake and wetlands reduces heat island effects
 - Maintain and increase plantings and vegetation
- Nature Based Solutions
 - Increased wetland plantings and habitat, reduced invasive plants, natural processes for improved water quality



Leveraging Funds and Community Support



- Leveraging Funds
 - \$1,360,000 cost share utilizing City of LA Municipal funds 11/7/2018 through FY 26-27.
 - \$942,000 City of LA non-SCW funds
 - \$418,000 SCW Municipal funds
 - 36% funding matched
- Community Support
 - Letters of Support from Community groups
 - Utilization of local small businesses for maintenance contracted services
 - Support of local businesses
 - Updating community on O&M activities through social media



Questions?