Hollenbeck Park Lake Rehabilitation Park

Infrastructure Program Executive Summary

Upper Los Angeles River Watershed, City of Los Angeles Sanitation and Environment, 2023-2024 Fiscal Year

SAFE CLEAN WATER PROGRAM

Project Background

This project proposes multi-benefit components consisting of stormwater diversions, stormwater capture and treatment, significant park and lake improvements, and green street network components

The objective of the project is to improve water quality in Hollenbeck Park Lake (HPL) and the Upper Los Angeles River Watershed (ULAR)

SCW funding is being requested for the following project phases:

Planning, Design, Construction, O&M

Total Funding Requested: $25,161,316

Project Overview

The project location was selected because HPL has a history of water quality concerns, is located within a Disadvantaged Community (DAC), and the existing area has minimal stormwater and green infrastructure.

The Project was developed by considering water quality and supply needs for the area, in addition to community investment needs.

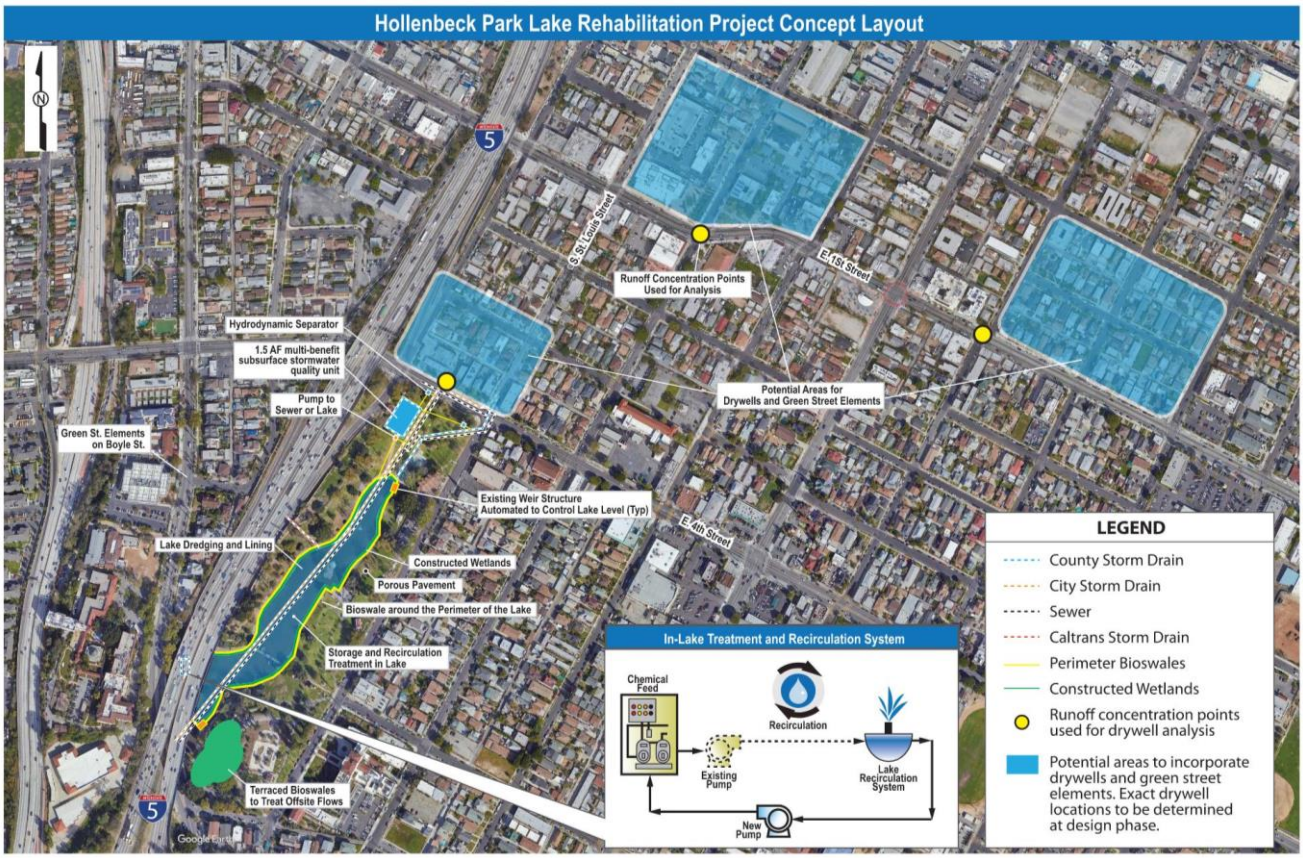
<u>The project will benefit municipalities by</u>:

- Full Capture of 340.9 AF of dry weather runoff annually.
- Annual water supply benefit of 340.9 AF.

<u>The project will provide DAC Benefits by</u>:

- Reducing pollutants in local runoff and the Upper Los Angeles Watershed.
- Providing localized flood mitigation benefits.
- Increase shade, improve air quality, and reduce heat island effect.

Project Details



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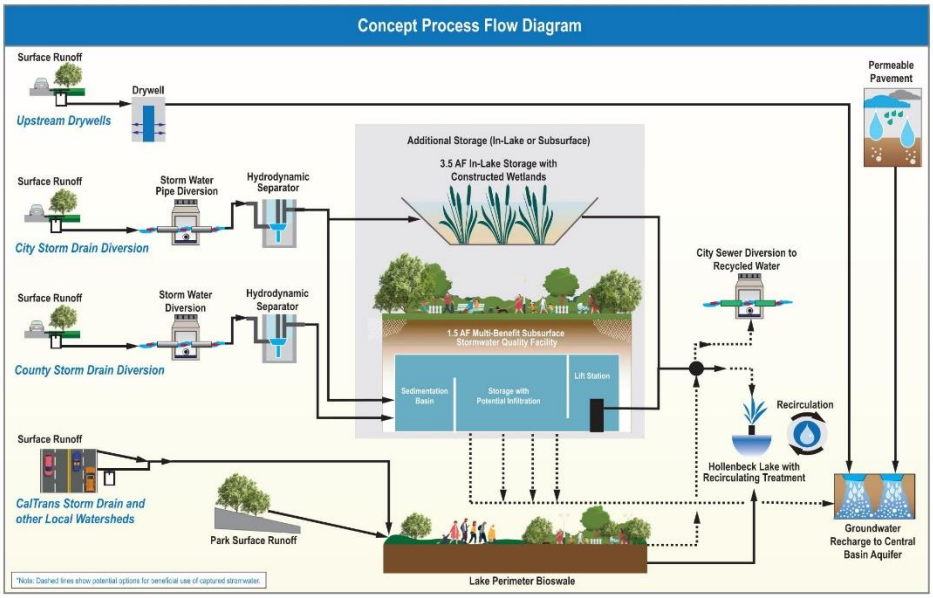
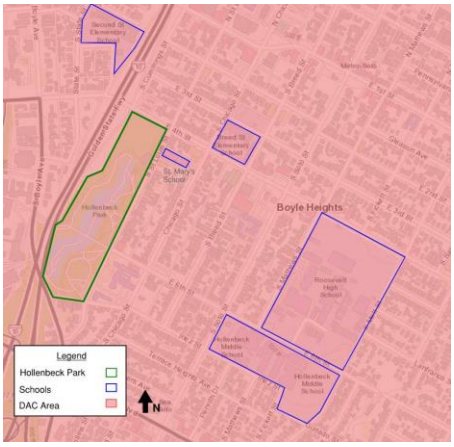


Project Key Elements:

- Additional Storage (subsurface and in-lake) in the form of a subsurface multi-benefit water quality unit or within the lake itself is proposed to accommodate 5 ac-ft of necessary runoff storage.
- Constructed wetlands, whether constructed along the entire lake perimeter or a portion of the lake shoreline, will receive pretreated stormwater at the design flowrate of 1.2 cfs from the additional storage source and park bioswales.
- Improvements to the Lake's recirculation system and incorporating in-lake mechanical treatment.
- Lake dredging and lining with a bentonite-enhanced liner system.
- Lake perimeter bioswales and terraced bioswales located in the southeastern portion of the park to intercept external loading.
- 18 drywells distributed throughout the drainage area upstream of Hollenbeck Park Lake.

Project Location



Preliminary Score		
Benefit	**Score**	**Description**
Water Quality	40	• Primary mechanisms – infiltration, sedimentation, aeration/recirculation, media treatment, dredging and removal • 340.9 AF/yr dry weather runoff capture • Estimated average dry weather flow rate of 0.47 cfs • 695.6-acre Tributary Area
Water Supply	12	• Captures 100% of all tributary dry weather flows • An average annual water supply benefit of 340.9 AF/yr
Community Investment	10	• Planned green street elements will capture surface flow, providing local flood mitigation • Addition of 50 trees, 35,000 sf of bioswales, and educational signs will enhance the park • Park aesthetic enhancement will encourage and provide greater recreational opportunities • Using California native vegetation for the greening of two potential different school sites • Proposed landscaping elements will provide additional public shade and reduce the heat island effect • Increased carbon sequestration and air quality improvements through natural processes resulting from bioswales and tree planting
Nature Based Solutions	12	• Greater than 40% of impermeable area within Hollenbeck Park will be replaced with porous pavement, thus improving infiltration • The constructed wetlands will mimic the natural water treatment process of natural wetlands, improving lake water quality • The drywells and bioswales will capture water for supply and use natural process of infiltration • The Project will use largely native California plants for landscaping the green street and park features
Leveraged Funds	3	• $5 million from Proposition O for Design & CM, and Construction • $7 million from City Earmark Funding for Construction and O& • Leverage funding along with City services matching funds results in $19.4 Million • 43.6% of funding expected to be matched
Community Support	4	• The Project demonstrates strong local, community-based support and/or has been developed as part of an on-going partnership with community leaders and local NGOs/CBOs.
TOTAL	**81**	

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Project Cost & Schedule			
Phase	Description	Cost	Completion Date
Planning	Engineering, Legal, & Administrative (ELA)	**$1,257,636**	YR1-FY23/24
Design & CM	ELA	**$12,695,922**	YR3-FY25/26
Construction	Including Contingencies	**$29,495,096**	YR5-FY27/28
O&M	50-Year Design Life Span	**$496,451**	After Project Construction
Monitoring	Lake Monitoring and Storm Drain Diversion & Green Infrastructure Elements Monitoring	**647,848**	Continued After Project Construction
TOTAL		**$44,592,953**	

Funding Request			
Year	SCW Funding Request	Phase	Efforts during Phase and Year
1	**$482,582**	Planning & Monitoring	Preliminary design and baseline monitoring, YR1-FY23/24
2	**$1,658,979**	Design & Monitoring	Design and baseline monitoring, YR2-FY24/25
3	**$1,687,479**	Design & Monitoring	Final Design and continued monitoring, YR3-FY25/26
4	**$9,247,548**	Construction	Construction, project effectiveness monitoring, YR4-FY26/27
5	**$12,159,728**	Construction	Post-Construction, Optimization, and First Year of O&M, YR5-FY27/28
TOTAL	**$25,161,316**		