SAFE CLEAN WATER PROGRAM

INFRASTRUCTURE PROGRAM
FISCAL YEAR 2026-2027

Story Park Stormwater Capture Project

RIO HONDO WATERSHED AREA

APPLICATION TYPE:
DESIGN-ONLY

PRESENTATION DATE:
DECEMBER 16, 2025

PROJECT LEAD:

City of Alhambra
Latoya Waters
Merrill Taylor, Craftwater

Project Overview

Design includes park amenity upgrades and a subsurface infiltration gallery with diversions from a storm drain and the San Pascual Wash.

Project Objectives

- Capture the peak flow rate and runoff volume of the 85th percentile 24-hour design storm from the Woodward Ave drain and delineated watershed
  - Project will capture the peak flow rate (10.7 cfs) and runoff volume of at least the 85th percentile 24-hour design storm (6.56 ac-ft).
- Improve the water quality/water supply within Rio Hondo watershed
  - The Reasonable Assurance Analysis (RAA) identified 126.4 ac-ft of structural control measure capacity to address metals and bacteria by 2037.
  - This project has been identified as part of the Upper LA River Watershed Management Program.
- Improve Story Park's community amenities and benefits
  - Creation, enhancement, or restoration of parks, habitat, or wetlands
  - Increasing the number of trees and local heat island effect
  - Enhanced or new recreational opportunities

PROJECT LEAD

City of Alhambra

SCORING COMMITTEE SCORE

65

PROJECT STATUS

Planning

TOTAL FUNDING REQUESTED

$1,648,000

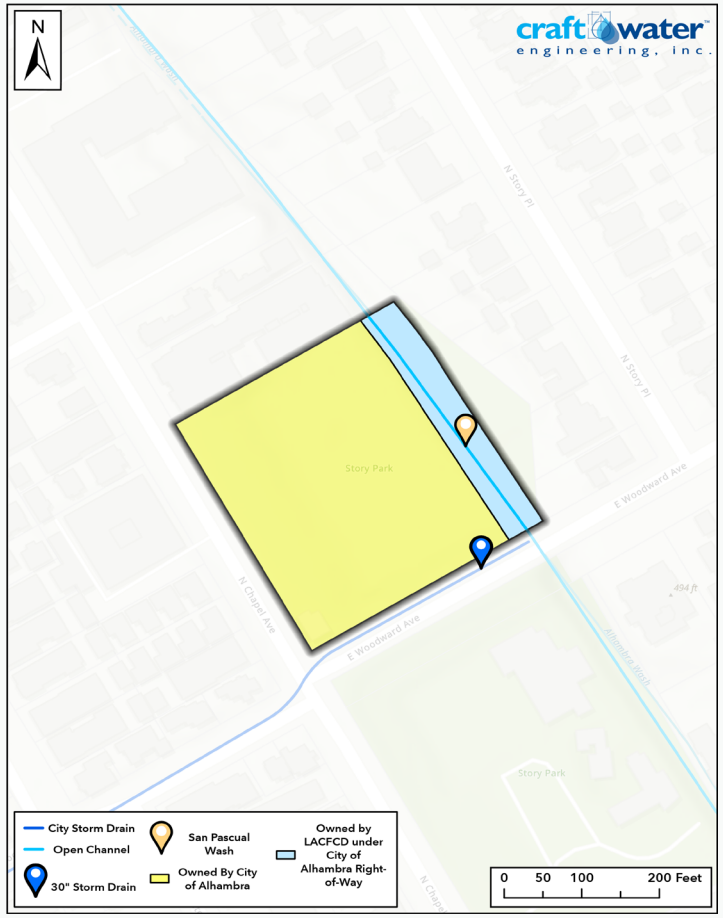
Funding Request Phase(s): Design

Previously Awarded Technical Resources Project Concept: No

Previously Awarded Instructure Program Project: No

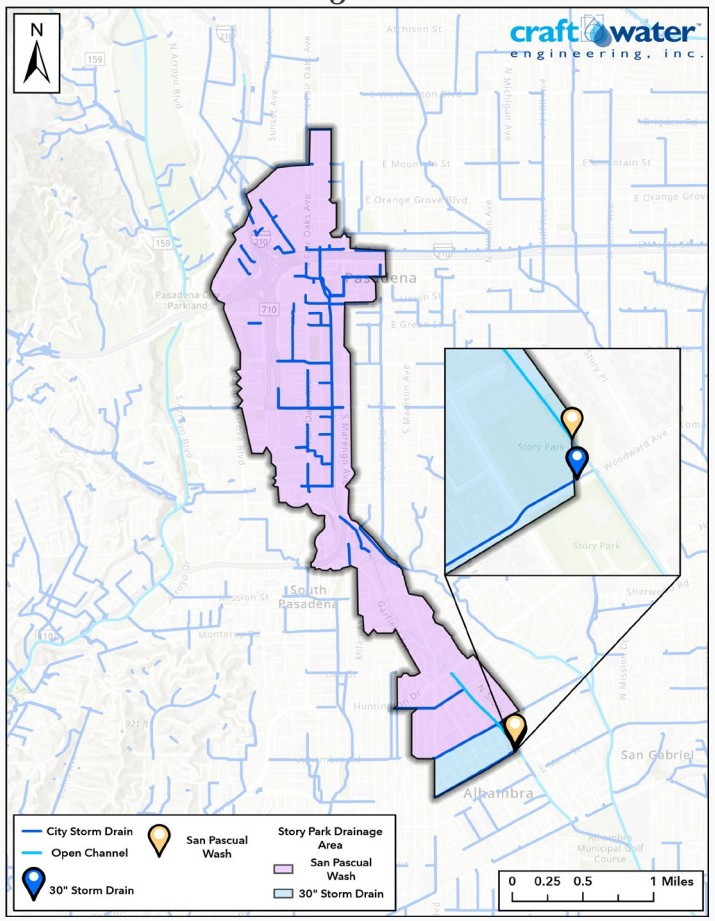
Project Location

- City of Alhambra
- LACFCD Easement



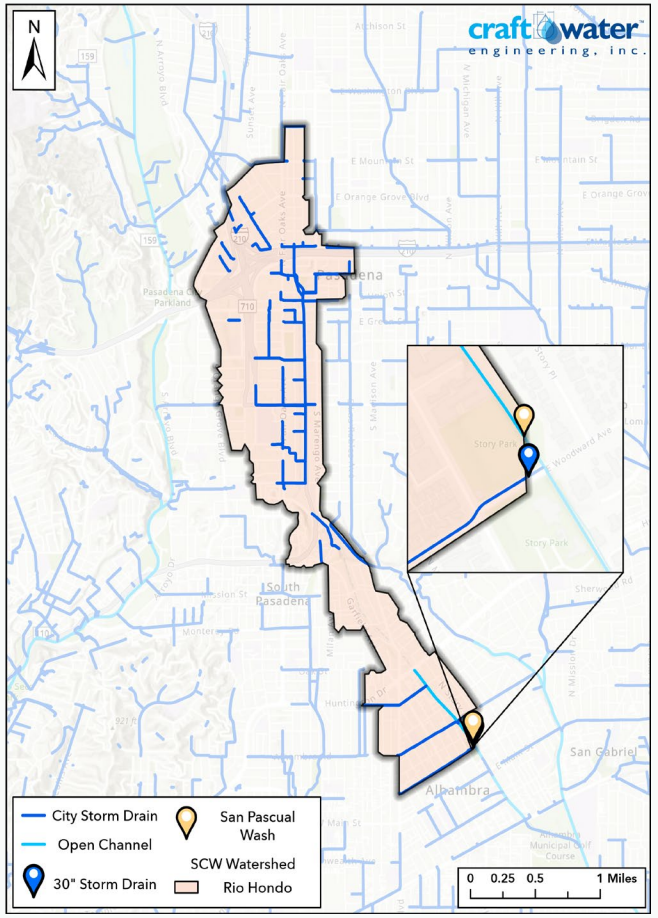
Capture Area

- Regional (San Pascual Wash)
- Local Runoff from City-owned 30” storm drain



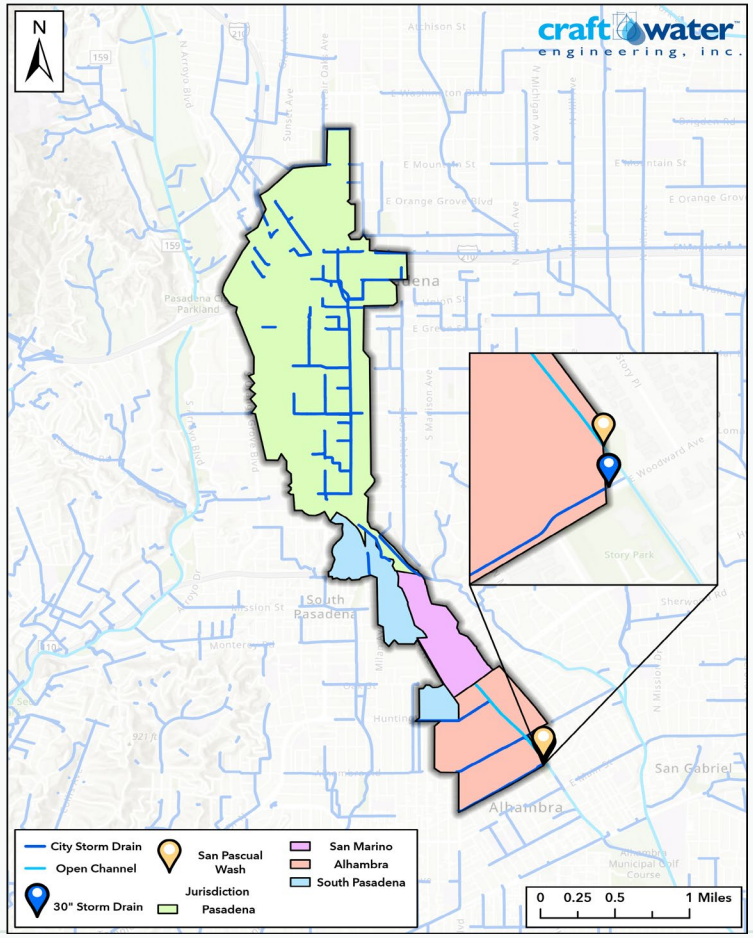
Watershed Area

- 1,875 acres

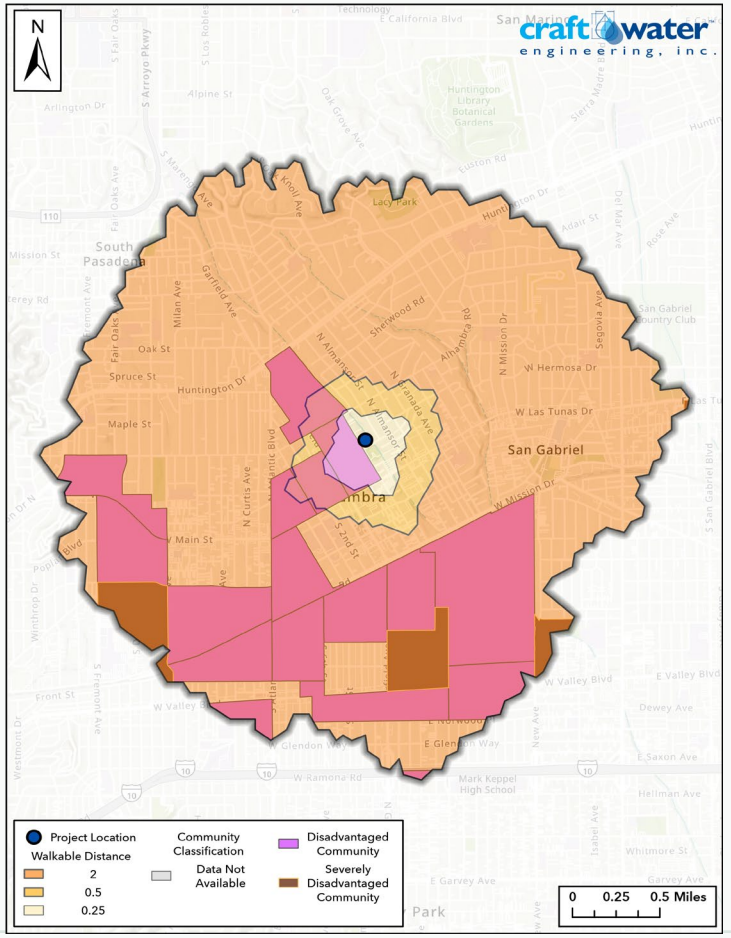


Municipalities Within Drainage Area

- City of Pasadena
- City of South Pasadena
- City of San Marino
- City of Alhambra



DAC Walkshed



Project Background

Why was the Project location selected?

- Proximity to San Pascual Wash and the Woodward Avenue storm drain infrastructure maximizes pollutant reduction potential
- Available public development space with opportunity to improve existing park facilities and add new public amenities

How was the Project developed?

- Included as a part of the Upper Los Angeles River Watershed Management Group's Watershed Management Program to assist with water quality, water supply, and provide multiple community benefits.

How will the Project provide regional benefits to the Watershed Area?

- Provides watershed-scale pollutant reduction, supporting MS4 Permit compliance.
- Captures, treats, and infiltrates stormwater to improve downstream water quality.
- Expected to fully capture the 85th percentile storm from the diverted storm drain, reduce 86% of the divertible zinc (29.5 lb/yr), reduce 88% of the divertible copper (7.1 lb/yr), and infiltrate 37.1 ac-ft/yr of runoff.

How will the Project provide Disadvantaged Community (DAC) Benefits, if any?

- Provide new and updated urban park facilities for residents of Alhambra and adjacent cities, with 49% of the population within a ¼-mile radius from the project site classified as disadvantaged.
- Provides meaningful community benefits by mitigating urban heat island conditions, adding shade, and increasing site vegetation, resulting in greater carbon sequestration and improved air quality.

Partners

Who are the Project collaborators?

This project does not involve additional project collaborators.

What communities or groups have expressed support for the Project via letters of support?

There has been several community organizations that have committed their support of the project. These organizations include:

Asian Pacific Islander Forward Movement	East Alhambra Little League
American Youth Soccer Organization – Region 60	Alhambra City Arts and Cultural Events Commission
Alhambra Educational Foundation	Environmental Sustainability Commission

For non-municipality, has the Project received a letter of support or non-objection from the Municipality?

The Story Park Stormwater Capture Project is led by the City of Alhambra.

If requesting construction and/or O&M funds, who is the responsible party in charge of operations and maintenance?

The Story Park Stormwater Capture Project is not currently seeking construction or O&M funding.

Partners

If applicable, has the Project received a letter of conceptual approval from the Flood Control District?

- An LACFCD Letter of Conceptual Approval was received on July 28, 2025
  - The LACFCD will continue to be consulted following the completion of this feasibility report as part of the design process.
  - Intended to demonstrate that the proposed diversion system will not have any effect on the existing drainage capacity of the existing storm drains.

Project Details

San Pascual Wash

Existing Conditions

- 85th Percentile Peak Flow = 10.7 cfs
- 85th Percentile Surface Runoff = 6.56 ac-ft
- Infiltration Rate: 0.37 in/hr
- Groundwater Basin: Main San Gabriel Basin
- Owner: City of Alhambra

Diversion Rate (cfs)	Storage Capacity (ac-ft)	24-hour Capacity (ac-ft)	Primary Pollutant Reduction (zinc)	Secondary Pollutant Reduction (copper)
10	10.6	6.56	86%	88%

Project Details

Current Site Conditions

- Public park owned and operated by the City of Alhambra
- Park is divided into two main parcels to both the north and south of Woodward Avenue
- Development of project proposed within Upper Story Park

Land Ownership/Right-of-Way

- Story Park is within City of Alhambra right-of-way
- Proposed work within San Pascual Wash is owned by the U.S. Army Corps of Engineers

Potential/Future Constraints

- Project requires access to Story Park north of E Woodward Ave, the existing storm drain in E Woodward Ave, and a section of the San Pascual Wash behind the five residential properties between 301 and 331 N Story Pl.
- Upper Story Park will be entirely enclosed during construction with construction entrances on E Woodward Ave and/or N Chapel Ave.

Environmental Documents and Permits

- Environmental Documentation
  - CEQA – Anticipated Mitigated Negative Declaration (MND)
- LACFCD Permits
  - Major Modification Permit: Required for installing diversion structure within San Pascual Wash.
  - Discharge Permit: Required for discharging treated non-stormwater into an existing LACFCD facility.
- Additional Regulatory Permits
  - Greater LA County Vector Control District: Mosquito abatement review for potential standing water/ponding.
  - SCAQMD Rule 403: Fugitive dust control compliance required during construction activities.
  - USACE Section 404 Permit: Needed if any dredged or fill material is discharged into Waters of the U.S.
  - USACE Section 408 Permit: Needed for modification of San Pascual Wash to install diversion structure.
  - CDFW 1601 Streambed Alteration Notification: Required due to flow diversion and work affecting San Pascual Wash channel bed.
  - SWRCB Construction General Permit: Required for soil disturbance over one acre; SWPPP must be prepared.
  - City of Alhambra: Construction, Demolition, Compliance Inspection, and Electrical permits.

Project Details

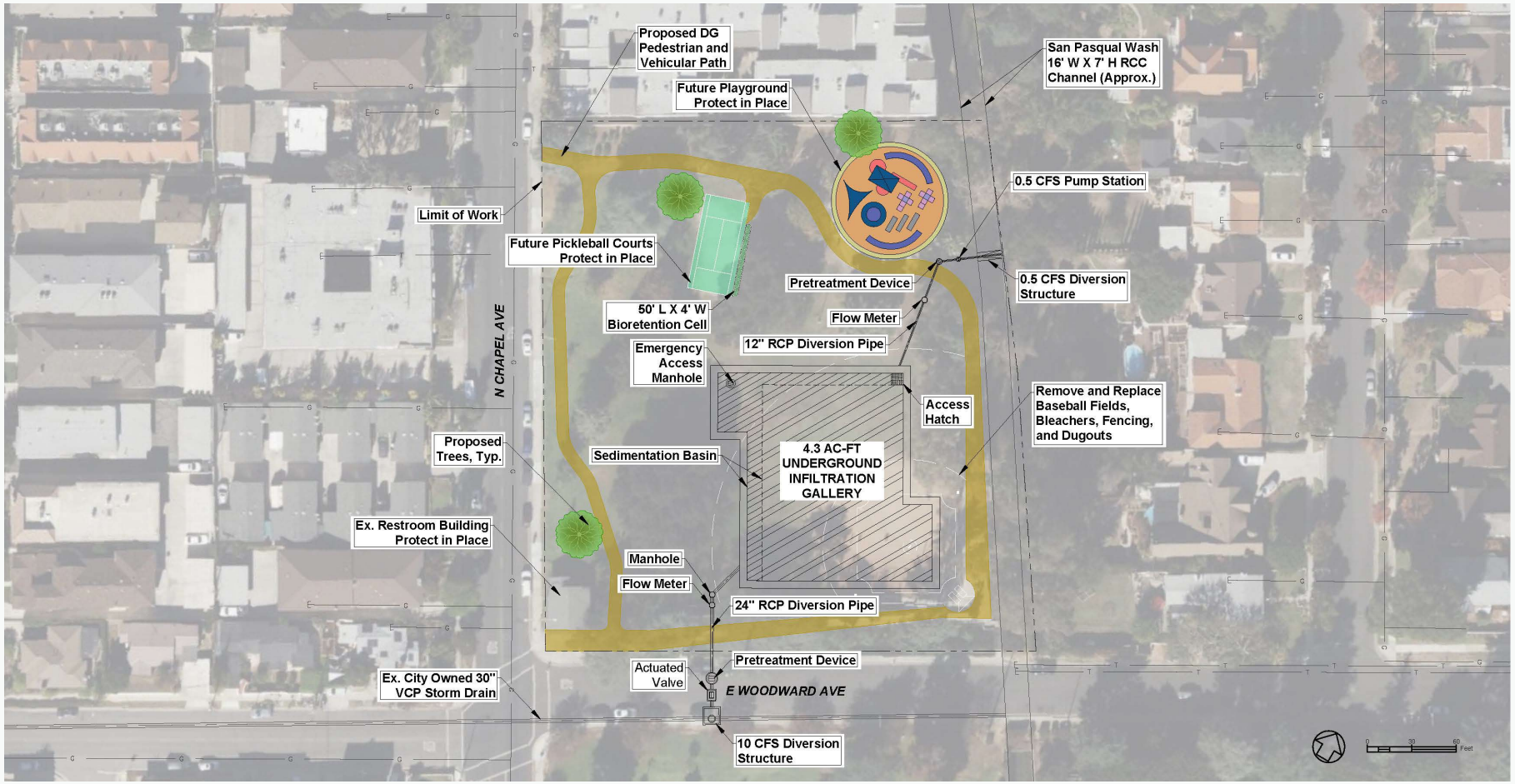
Technical Activities Completed

- Geotechnical – Performed in October 2023
- Stormwater Capture Strategy Memorandum
  - Covers diversion location, rates, storage size, and outflow rates.
- Site Access/Right-of-Way Review
- Utility Data Review
- Feasibility Study

Vector Minimization

- The Project has not yet received feedback from local Vector Control District.
- The San Gabriel Valley Mosquito and Vector Control District will be contacted during the design phase to discuss potential for mosquito growth in the system. Additional coordination will occur throughout the design process.
- Guidelines outlined in the California Department of Public Health's Checklist for Minimizing Vector Production in Stormwater Management Structures will be followed.

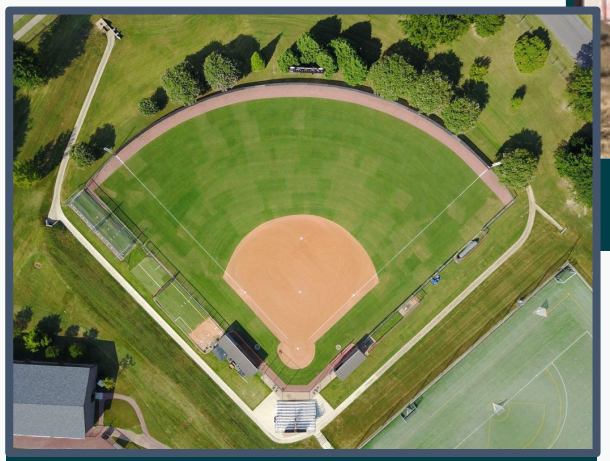
Project Schematic



Project Benefits

NEW PARK AMENITIES

1.6 AC-FT UNDERGROUND INFILTRATION GALLERY



NEW SOFTBALL FIELD

- **Water Quality** improvement in ULAR by treating stormwater and urban runoff
- **Nature-Based** creation of habitat through approximately 6,000 sq ft of native planting
- **Park Recreational Enhancements** through new decomposed granite walking paths and a suite of recreational facilities (pickleball, new baseball field and dugouts, new playground)

Cost and Schedule

PHASE	DESCRIPTION	COST	COMPLETION DATE
Planning	Feasibility Study	$100,000	06/2023
Design	Final Design (30/60/90/100)	$1,370,000	01/2027
Design	Public Outreach during Design	$50,000	02/2027
Design	Environmental Planning (CEQA) and Permitting	$137,000	01/2027
Design	Agency Management (Design)	$91,000	01/2027
Construction	Construction Cost0F	$9,130,000	08/2028
Construction	Construction Administration and Design Support	$913,000	08/2028
Construction	Construction Survey	$25,000	08/2028
Construction	Agency Management (Construction)	$137,000	05/2028
TOTAL COST		**$11,953,000**	

Cost and Schedule (Continued)

ANNUAL COSTS	
Annual Maintenance Cost	$263,000
Annual Operation Cost	$42,000
Monitoring Costs	$35,000

LIFE-CYCLE COSTS	
Project Life Span	50 Years
Total Life-Cycle Cost	$20,110,926.24
Annualized Life-Cycle Cost	$838,168.27

Cost Share

- The City of Alhambra acknowledges that eligible expenditures are only those incurred after November 7, 2018 for this project.
- The City of Alhambra has evaluated other sources of funding for this project.
  - **Planning Phase Cost Share.** The City of Alhambra provided funding for the Feasibility Study and the preliminary geotechnical testing for this project through their SCWP Municipal Returns.
  - **Design Phase Cost Share.** The City of Alhambra will evaluate the use of some of the Municipal Return of the Safe Clean Water Program to provide their cost share of the Design Costs for this project, if deemed necessary. Since Story Park's drainage area will also manage runoff from the cities of Pasadena, San Marino, and South Pasadena, the City will engage with these neighboring municipalities to explore potential cost-sharing opportunities.
  - **Construction Phase Cost Share.** The City of Alhambra will continue to pursue additional funding sources to support the construction costs of this project such as:
- The City will explore a competitive grant program providing park funding under Proposition 68 that grants between $200,000 to $8.5 million per eligible park improvement project.
- WASC Watershed Coordinator and the Watershed Group are also involved in seeking alternative funding.

- Total Cost Share: $0
- Leveraged Funding Percentage: 0%

Funding Request

YEAR (FISCAL YEAR)	SCW FUNDING REQUEST	PHASE	EFFORTS DURING PHASE AND YEAR
1 (FY26-27)	$137,000	Design	Environmental Planning (CEQA) and Permitting
1	$1,370,000	Design	Professional Design Services (30/60/90/100)
1	$50,000	Design	Community Outreach during Design
1	$91,000	Design	Agency Project Management (Design Phase)
TOTAL	**$1,648,000**		

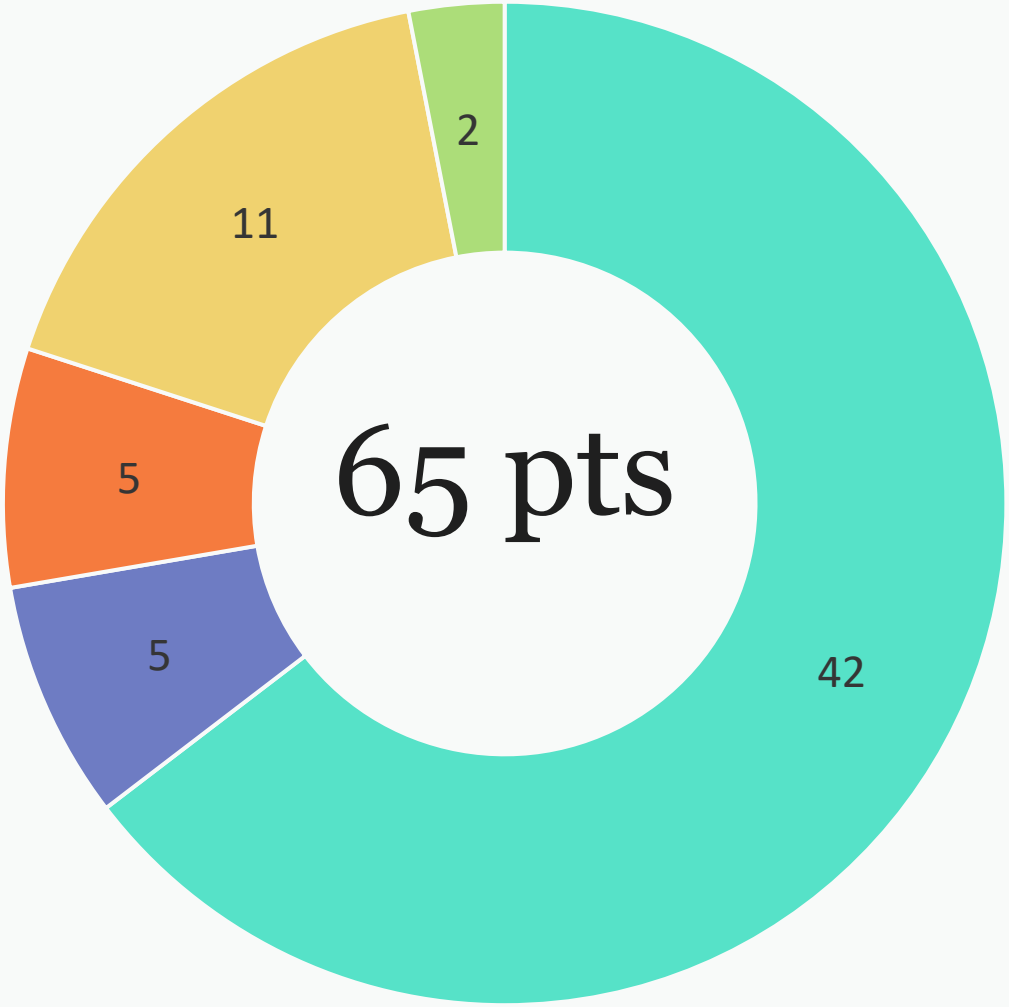
- Potential Future SCW Funding Request: Yes, approximately $10,305,000

Metrics & Measures

	PROJECT BENEFIT METRICS	METRIC
Improve Water Quality	Zinc load reduction (lbs/year)	29.47
	Total Phosphorous load reduction (lbs/year)	56.67
Increase Drought Prepared-ness	Increase Local Water Supply through Stormwater Capture (ac-ft/year)	35.00
	Increase local supply through groundwater recharge and storage (ac-ft/yr)	35.00
Improve Public Health	Net area of park and green space created (acres)	0.138
	Net area of green space at schools created (acres)	0
	Net area of park enhanced or restored (acres)	2.33
	Net area of canopy, cooling, and shading surfaces (acres)	0.16
	Net new trees planted	3
Deliver Multi-Benefit Projects	Net area of habitat created, enhanced, restored, protected (acres)	0.468
Promote Green Jobs & Career	Annual Full Time Equivalent Jobs Created	58.93

Final Score by Scoring Committee

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

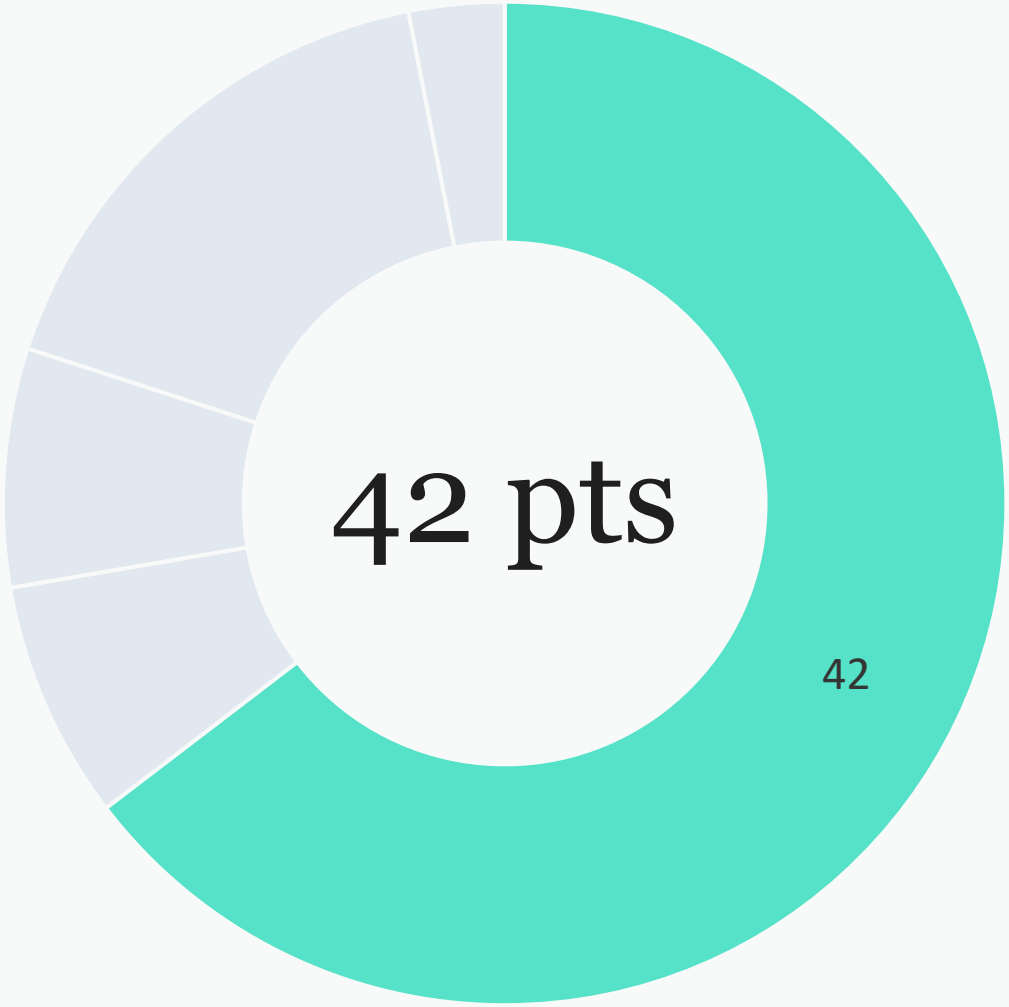


* The Scoring Committee confirmed this score on September 15, 2025

Score Breakdown

Water Quality

- This project's water quality section was scored based on the 2025 pilot scoring criteria. The Water Quality Benefit pilot scoring criteria have two parts:
  - For wet weather projects, water quality cost-effectiveness (24-hour BMP capacity per capital cost in millions of dollars or AF/$M): This calculation resulted in a cost-effectiveness metric of 0.643, yielding a score of **12 points**.
  - Additionally, wet weather projects must quantify primary and secondary pollutant reduction concentration:
    - Primary Pollutant Reduction metric calculation resulted in over 86% reduction and a corresponding score of **20 points**.
    - Secondary Pollutant Reduction metric calculation resulted in over 88% reduction and a corresponding score of **10 points**.
  - Total Score of **30 points**
- Grand Total of **42 points** for the Water Quality Section



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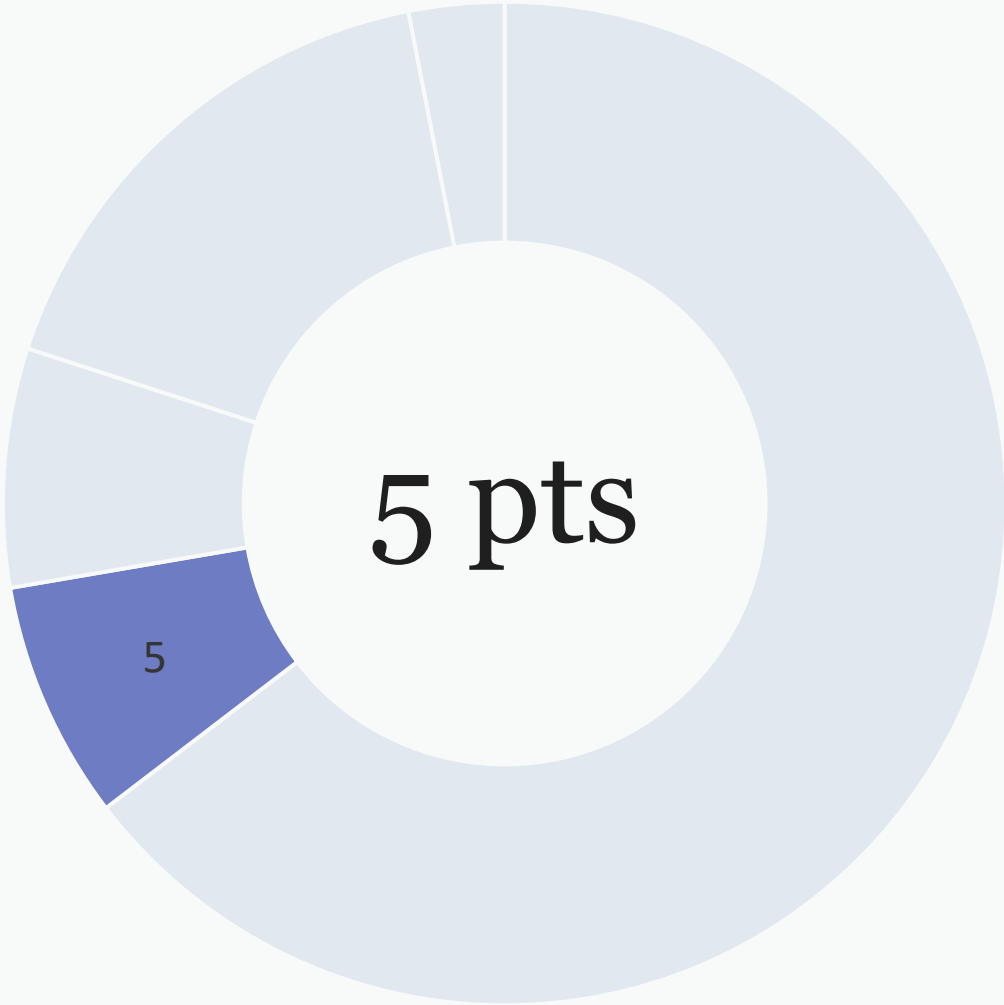
Score Breakdown

Water Supply

- This project's water supply section was scored based on the 2025 pilot scoring criteria. The Water Supply Benefit pilot scoring criteria have two parts:
  - Water Supply Cost Effectiveness: This project's achieved cost-effectiveness score of $66,468.54/ac-ft, resulting in a score of **2 points** under the Water Supply Cost Effectiveness section.
  - Water Supply Benefit Magnitude: This project's yearly additional water supply volume has been modeled to be 12.61 ac-ft/year. This qualifies the project for **3 points** under the Water Supply Benefit Magnitude section.
- Grand Total of **5 points** for the Water Supply Section



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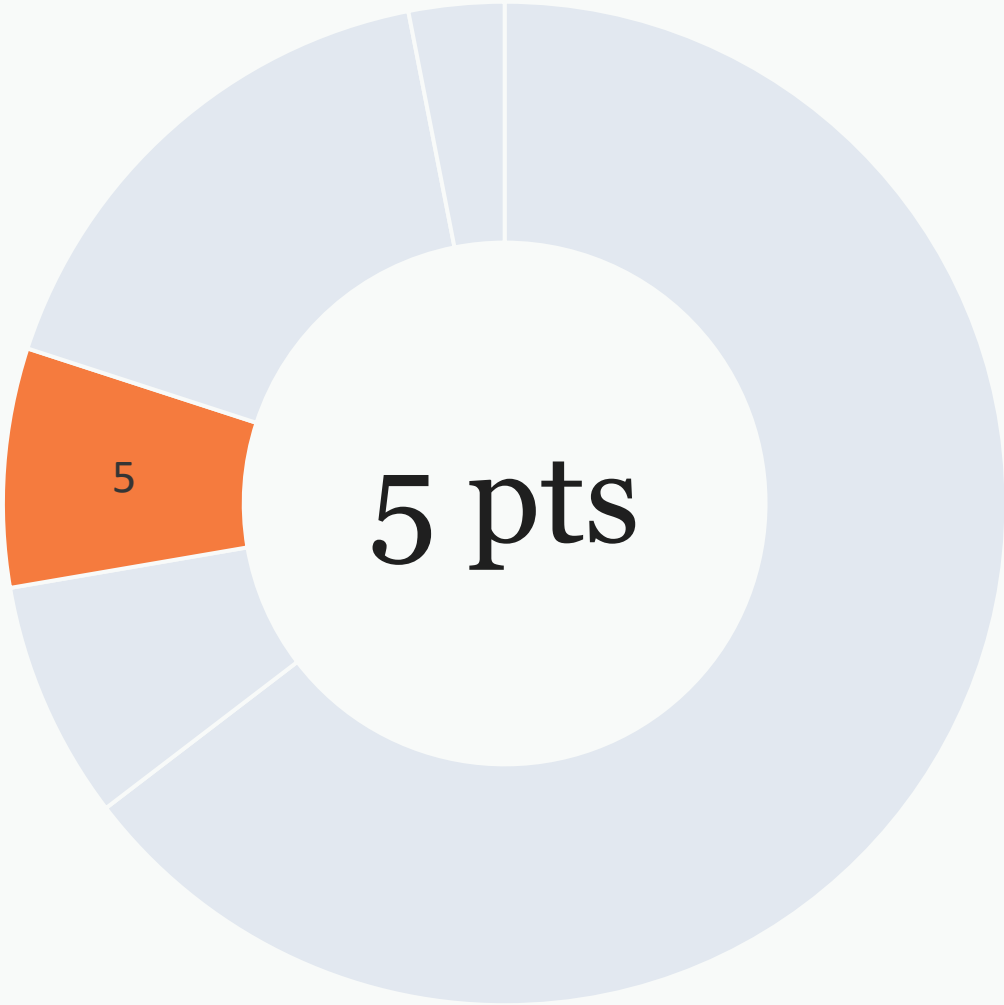
Score Breakdown

Community Investment Benefits

The project will potentially provide community investment benefits for the following criteria:

- Flood management, flood conveyance, and flood risk mitigation
- Parks, habitat, or wetland creation
- Create or enhance new recreational opportunities
- Tree count/shade increase

Because the project provides five community benefit opportunities, the project is estimated to **receive 5 points** for the community investment benefits section.



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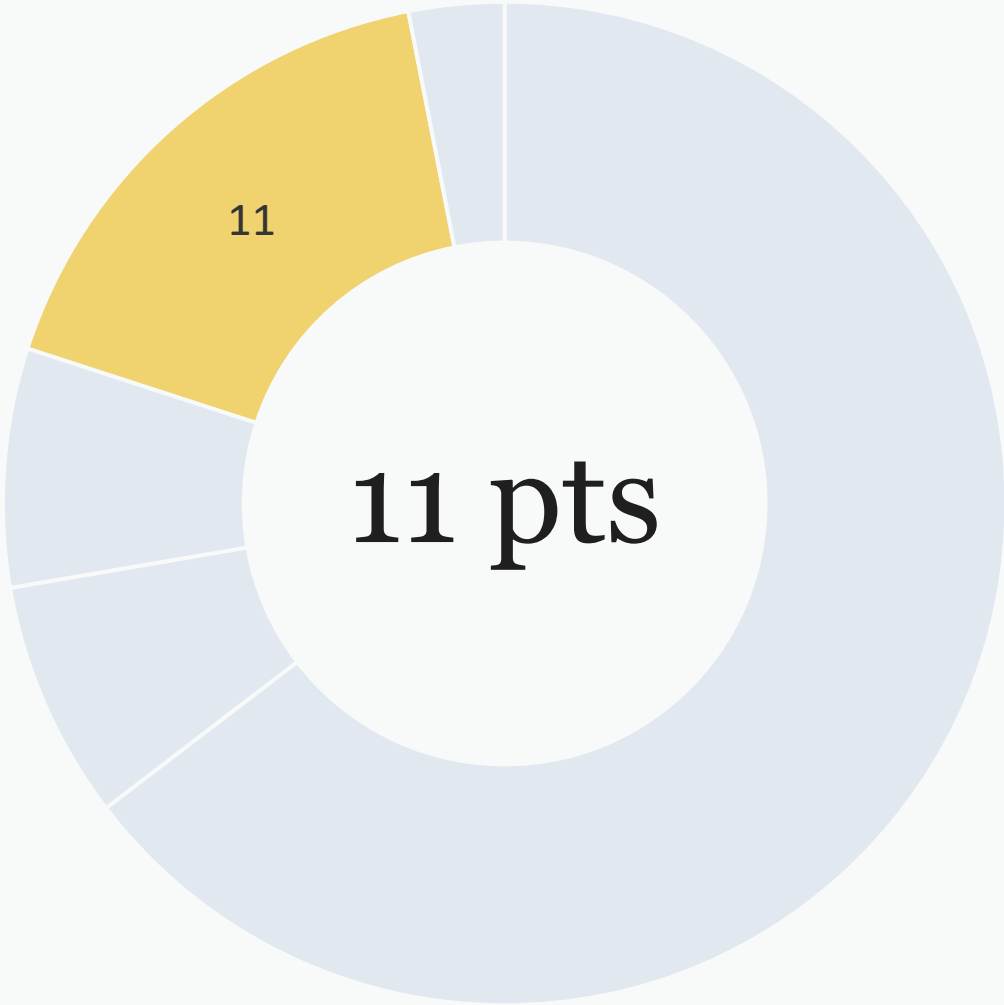
Score Breakdown

Nature-Based Solutions

This project aims to both implement natural processes as well as increase natural vegetation and trees. In addition to natural processes and utilizing natural materials, this project is estimated to remove approximately 20% of impermeable areas from the project. The project is estimated to receive **11 points** under the Nature-Based Solutions section.



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Score Breakdown

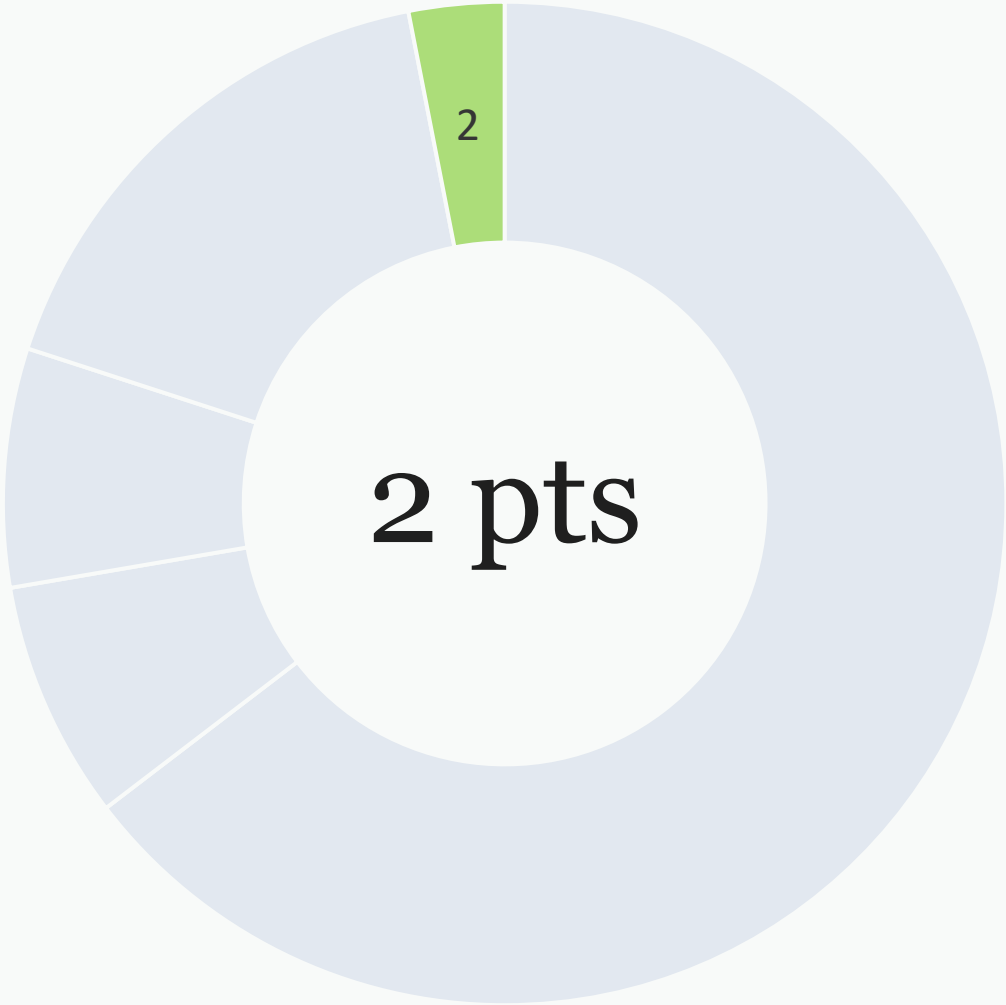
Leveraged Funds and Community Support

This project has garnered strong community backing, receiving letters of support from 6 local organizations-a reflection of the project's alignment with community priorities and its ability to deliver meaningful, multi-benefit outcomes.

Initial community meetings were held virtually in October 2020 with individual city park meetings later that month.

- Community expressed the desire for shaded structures, more trees, a walking loop, seating, etc.

With this, the project is estimated to receive **2 points** under the Community Support section.



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Thank you

QUESTIONS?

Latoya Waters, City of Alhambra

Merrill Taylor, Craftwater