SAFE CLEAN WATER PROGRAM

INFRASTRUCTURE PROGRAM
FISCAL YEAR 2026-2027

Arrow Highway Beautification and Stormwater Capture Project

UPPER SAN GABRIEL RIVER WATERSHED

APPLICATION TYPE:
DESIGN-ONLY

PRESENTATION DATE:

January 22, 2026

PROJECT LEAD:

City of Irwindale

Project Overview

Regional stormwater capture at Arrow Highway and Azusa Canyon Rd and stormwater planters/greening improvements along Arrow Highway between Maine Ave and Heintz St.

Project Objectives*:*

- *Improving water quality within the Upper San Gabriel River Watershed*
- *Reduce anecdotal flooding in project area*
- *Enhance aesthetic of the highway*
  - *Introducing natural habitat*
  - *Increasing tree canopy*

PROJECT LEAD

City of Irwindale

SCORING COMMITTEE SCORE

61

PROJECT STATUS

Planning

TOTAL FUNDING REQUESTED

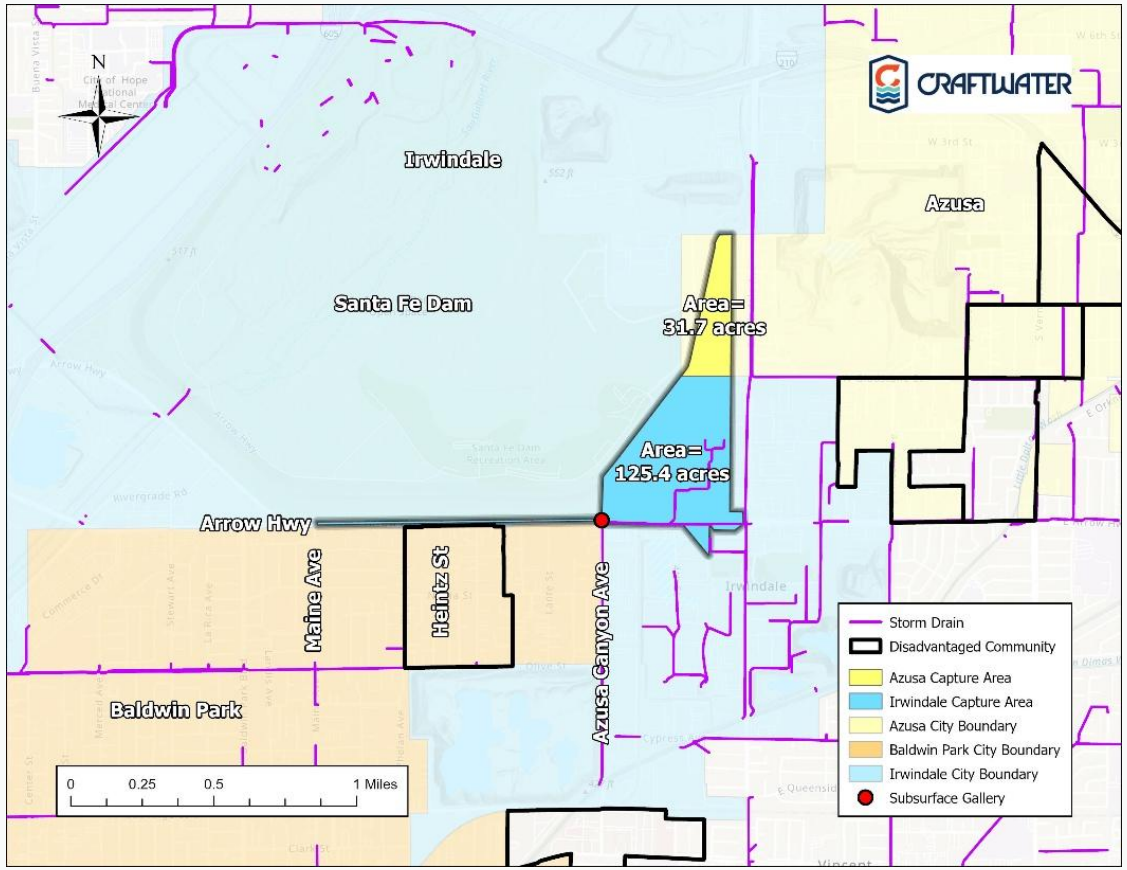
$1,724,000

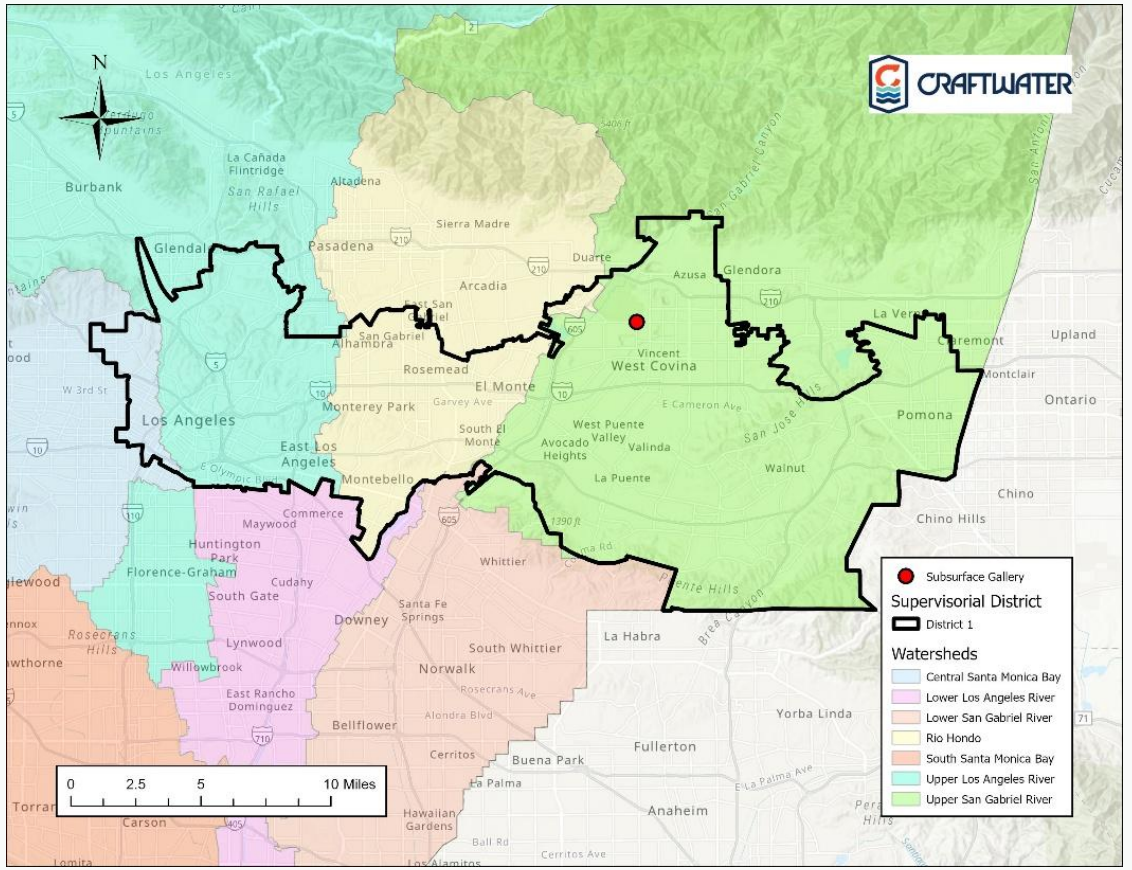
Funding Request Phase(s): Design

Previously Awarded Technical Resources Project Concept: No

Previously Awarded Instructure Program Project: No

Jurisdictions and Watershed Area





- **Municipalities**: Irwindale, Azusa
- **Watershed Area**: 157 acres

Watershed and Supervisorial District Jurisdictions

Project Background

Why was the Project location selected?

- Well positioned to capture and treat flows from large drainage area
- Opportunity to improve landscape of proposed Arrow Highway section
- Project reduces localized flooding on the outermost westbound lanes

How was the Project developed?

- Design supports City's compliance with the MS4 permit by capturing and treating flows via a regional stormwater capture facility
- Reduce localized flooding issues
  - Northern side of Arrow Highway is inundated frequently
  - Planters are intended to remove trash and other floatables
- Public Safety
  - Transformation of northern sidewalk for safer travel that links directly to Santa Fe Dam Recreational Area

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

- Expected to fully capture the 85th percentile storm from the diverted storm drain, reduce 83% of the divertible zinc (98.3 lb/yr), reduce 83% of the divertible copper (21.85 lb/yr).

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

- Water Quality Benefits
- Water Supply Benefits
- Creation of Habitat and Improved Public Access to Waterways
- Reduction of Local Heat Island Effect

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:

City of Irwindale – Mayor, Larry G. Burrola	
City of Irwindale – Mayor Pro Tem Ortiz	City of Irwindale Chamber of Commerce
Athens Services	Active SGV

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

The Arrow Highway Beautification and Stormwater Capture Project is led by the City of Irwindale.

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

The Arrow Highway Beautification and 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 23, 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

Existing Conditions

- 85th Percentile Peak Flow = 12.7 cfs
- 85th Percentile Surface Runoff = 8.46 ac-ft
- Infiltration Rate: Not feasible due to potential groundwater contamination

Diversion Rate (cfs)	Storage Capacity (ac-ft)	24-hour Capacity (ac-ft)	Primary Pollutant Reduction (zinc)	Secondary Pollutant Reduction (copper)
15	18.1	8.46	83%	83%

Project Details

Current Site Conditions

- Santa Fe Dam sits just north of the project site
  - Proposed improvements to the northern edge of Arrow Highway will assist in making the Santa Fe Dam safer and more accessible to the community
- Likely volatile organics compound contamination in underlying groundwater, eliminating potential for infiltration

Land Ownership/Right-of-Way

- Located entirely within the City of Irwindale right-of-way

Potential/Future Constraints

- Construction will require temporary lane closures, traffic control, and limited pedestrian access

Environmental Documents and Permits

- **Environmental Documentation**
  - CEQA - Anticipated Mitigated Negative Declaration for CEQA
- **LACFCD Permits**
  - Major Modification Permit: Required for installing diversion structure within LACFCD BI 0445 – Line A
  - Discharge Permit: Required for discharging treated non-stormwater into an existing LACFCD facility
  - Catch Basin Relocation Permit: Required to relocate catch basins or related assets
- **Additional Regulatory Permits**
  - City of Irwindale Public Works Department - Encroachment/Construction Permit required when construction will interfere with public right of way
  - San Gabriel Valley Mosquito & Vector Control District – Mosquito & Vector Abatement to address potential mosquito concerns
  - State Water Resources Control Board – Construction General Permit for disturbed soils during construction
  - South Coast Air Quality Management District Rule 403 to prevent, reduce, or mitigate fugitive dust emissions from construction activities

Project Details

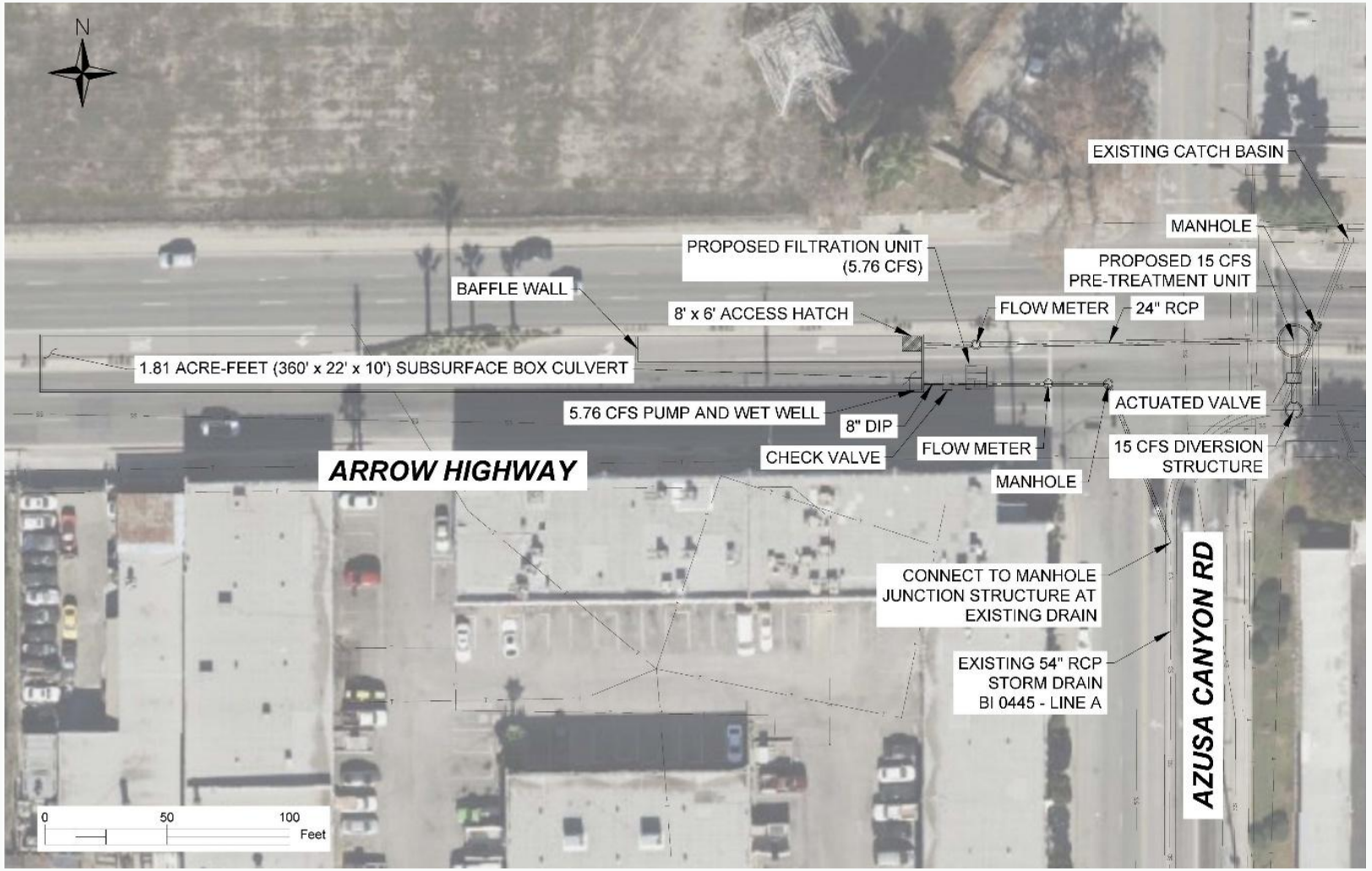
Technical Activities Completed

- 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 Measures

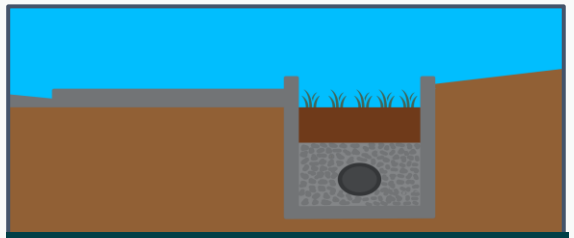
- The following are the potential mitigation measures to reduce vectors (and have been accepted by the San Gabriel Valley Mosquito and Vector Control District in other projects).
  - Incorporating best vector control practices.
    - Sealing sumps, vaults, and/or basins that hold water longer than four days
    - Using closed pick hole manhole covers for maintenance manhole covers
    - Tight fitting covers with gaps or holes no greater than 1/16-inch
    - The system includes provisions for rapid dewatering if needed for emergency control of mosquitoes.

Project Schematic



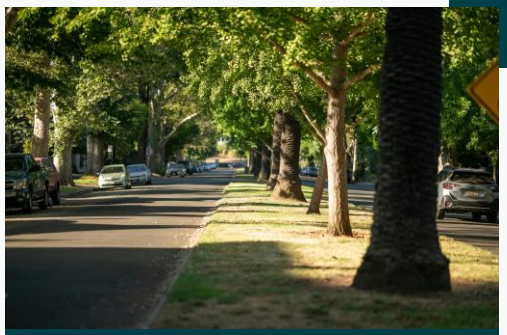
Project Schematic

Project Benefits



SECTION VIEW OF BIORETENTION PLANTERS

1.8 AC-FT UNDERGROUND STORAGE GALLERY



NEW TREES ALONG ARROW HIGHWAY

- **Water Quality** improvement in USGR by treating stormwater and urban runoff
- **Nature-Based** – Soil filtration process through engineered stormwater planters
- **Corridor Enhancements** – 42 new trees will be planted, providing 9,100 sq ft of canopy cover

Cost and Schedule

PHASE	DESCRIPTION	COST	COMPLETION DATE
Planning	Feasibility Study	$107,000	01/2023
Design	Final Design (30/60/90/100)	$1,524,000	02/2027
Design	Public Outreach during Design	$50,000	02/2027
Design	Environmental Planning (CEQA) and Permitting	$153,000	02/2027
Design	Agency Management (Design)	$102,000	02/2027
Construction	Construction Cost0F	$10,159,000	05/2028
Construction	Construction Administration and Design Support	$1,016,000	05/2028
Construction	Construction Survey	$15,000	05/2028
Construction	Agency Management (Construction)	$153,000	05/2028
TOTAL COST		**$13,279,000**	

Cost and Schedule (Continued)

ANNUAL COSTS	
Annual Maintenance Cost	$204,000
Annual Operation Cost	$30,000
Monitoring Costs	$35,000

LIFE-CYCLE COSTS	
Project Life Span	50 Years
Total Life-Cycle Cost	$19,733,359.29
Annualized Life-Cycle Cost	$822,432.31

Cost Share

TYPE OF COST SHARE	FUNDING AMOUNT	PHASE	COST SHARE STATUS	BRIEF DESCRIPTION
Municipal Funds	$105,000	Design	Money Received	• The City dedicated the use of some of their Municipal Return of the Safe, Clean Water Program to provide their cost share of the Design Costs for this project (funding commitment of $1,047,563 programmed into their Capital Improvement Projects (CIP) program for both design and construction). 10% of that amount ($105,000) will be used to offset the design funding request.

- Total Cost Share: $105,000
- Leveraged Funding Percentage: 5.7%

Funding Request

YEAR (FISCAL YEAR)	SCW FUNDING REQUEST	PHASE	EFFORTS DURING PHASE AND YEAR
Year 1 (FY 2027-28)	$153,000	Design	Environmental Planning (CEQA) and Permitting
Year 1	$1,419,000*	Design	Professional Design Services (30/60/90/100)
Year 1	$50,000	Design	Community Outreach during Design
Year 1	$102,000	Design	Agency Project Management (Design Phase)
TOTAL	**$1,724,000**	—	—

- *** Subtracted the $105k Cost Share from the City**

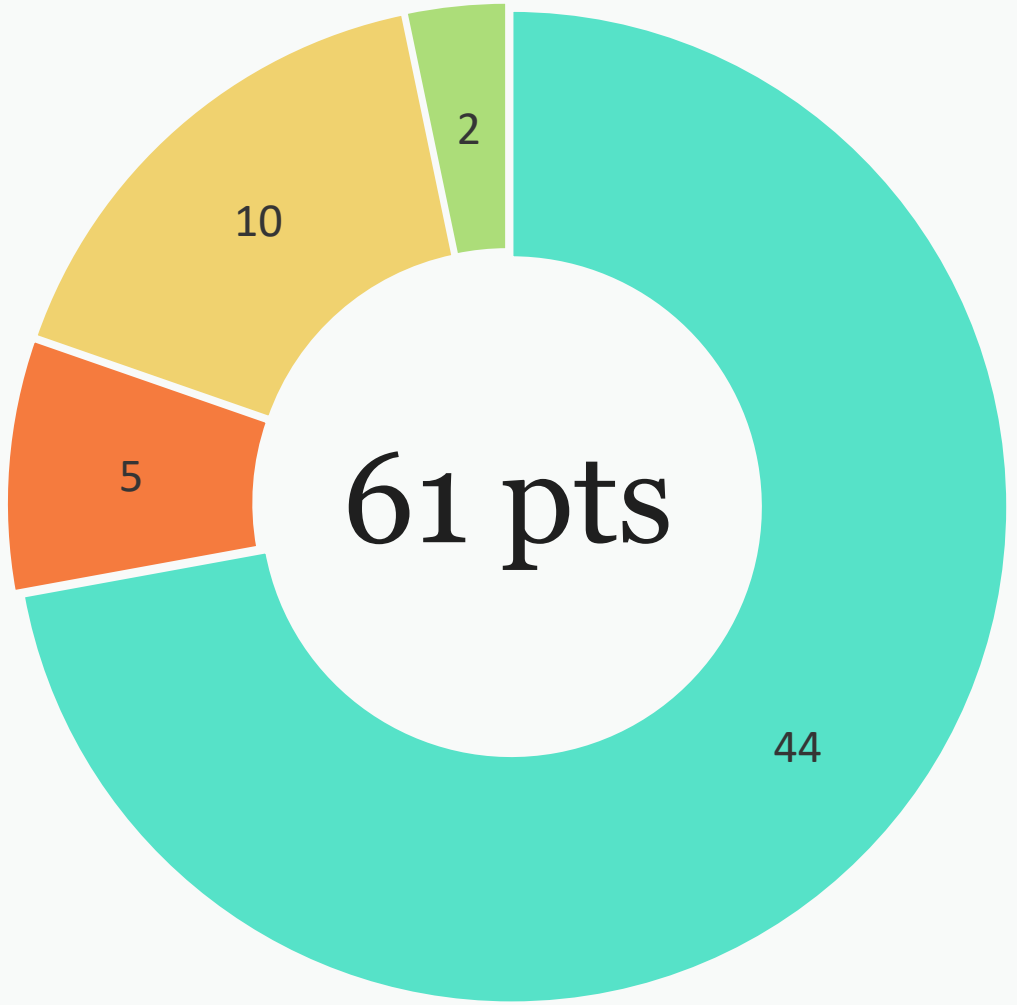
- Potential Future SCW Funding Request: Yes, Approximately $11,343,000 for Construction

Metrics & Measures

	PROJECT BENEFIT METRICS	METRIC
Improve Water Quality	Zinc load reduction (lbs/year)	98.30
	Total Phosphorous load reduction (lbs/year)	67.06
Increase Drought Prepared-ness	Increase Local Water Supply through Stormwater Capture (ac-ft/year)	71.51
	Increase local supply through groundwater recharge and storage (ac-ft/yr)	0
Improve Public Health	Net area of park and green space created (acres)	0.298
	Net area of green space at schools created (acres)	0
	Net area of park enhanced or restored (acres)	0.298
	Net area of canopy, cooling, and shading surfaces (acres)	0.507
	Net new trees planted	42
Deliver Multi-Benefit Projects	Net area of habitat created, enhanced, restored, protected (acres)	0.298
Promote Green Jobs & Career	Annual Full Time Equivalent Jobs Created	57.82

Final Score by Scoring Committee

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

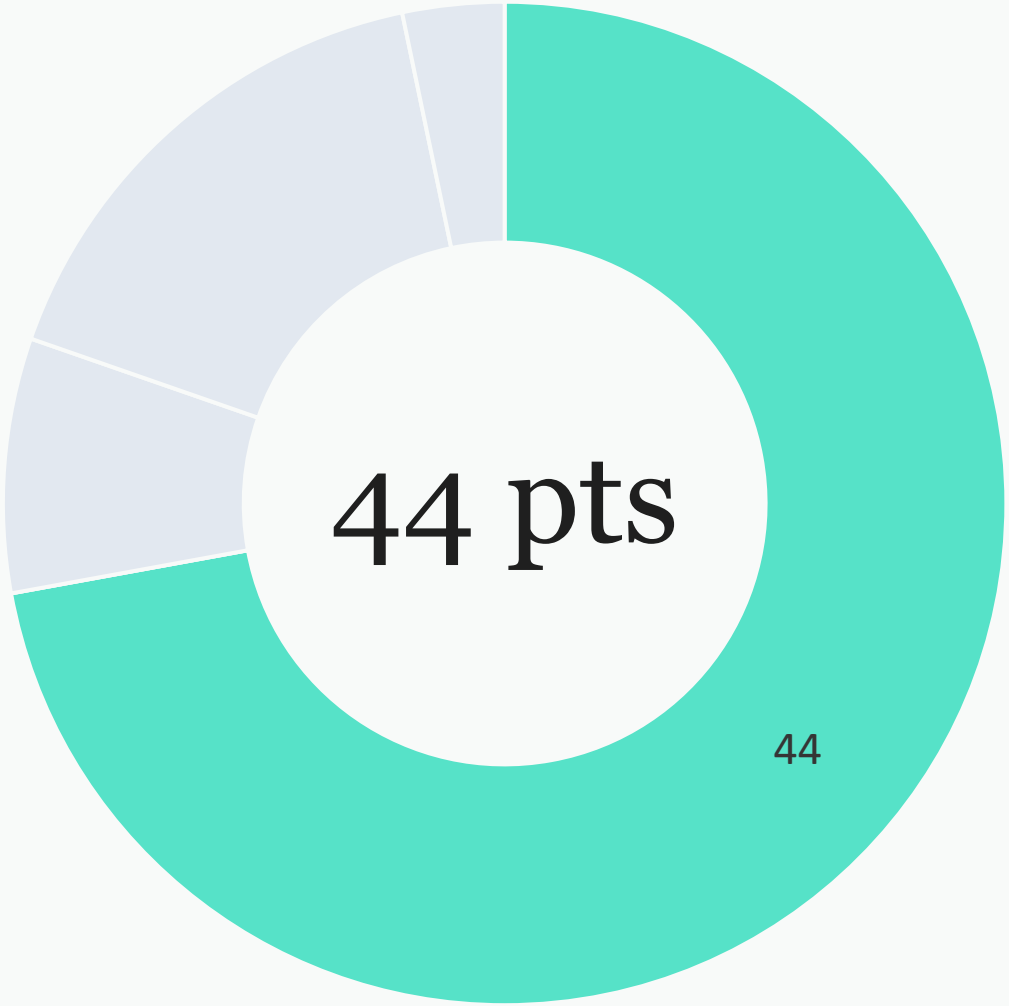


* The Scoring Committee confirmed this score on December 1, 2025

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 0.746, yielding a score of **14 points**.
  - Additionally, wet weather projects must quantify primary and secondary pollutant reduction concentration:
    - Primary Pollutant Reduction metric calculation resulted in over 83% reduction and a corresponding score of **20 points**.
    - Secondary Pollutant Reduction metric calculation resulted in over 83% reduction and a corresponding score of **10 points**.
  - Total Score of **30 points**
- Grand Total of **44 points** for the Water Quality Section



* The Scoring Committee confirmed this score on December 1, 2025

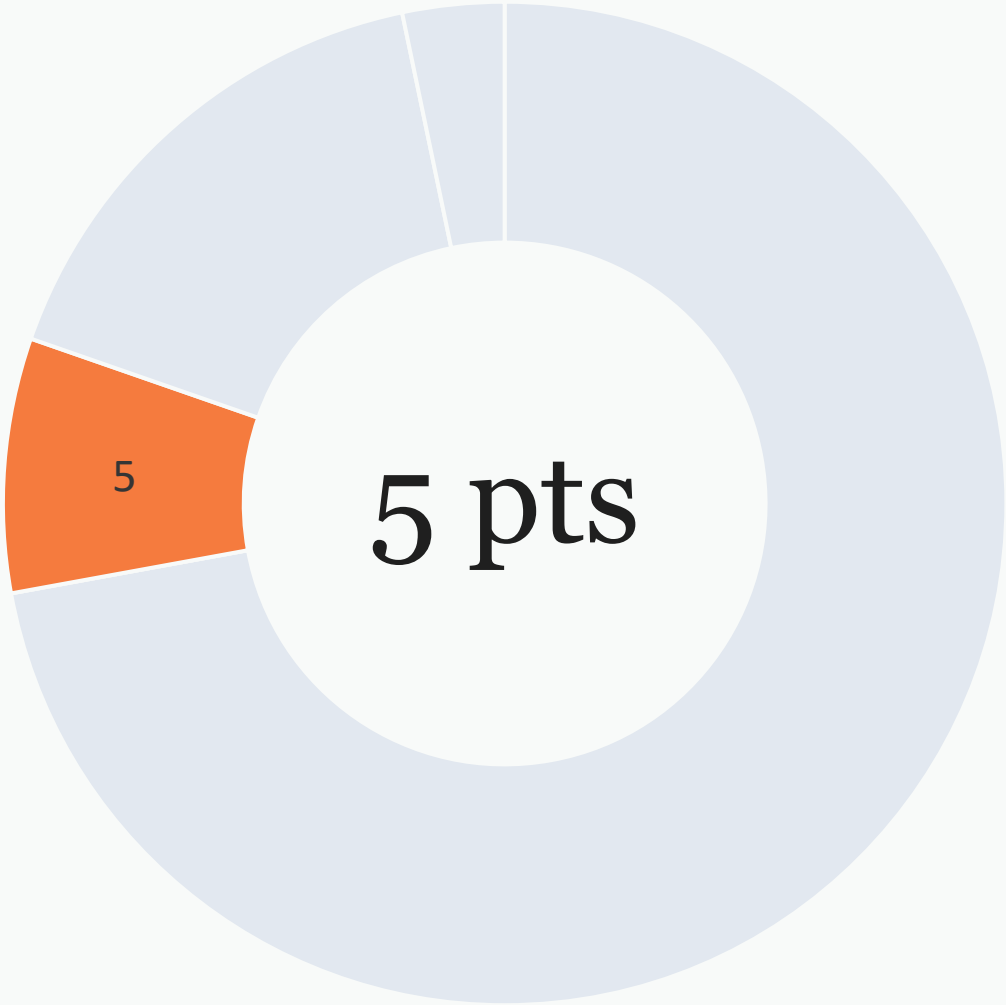
Score Breakdown

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.



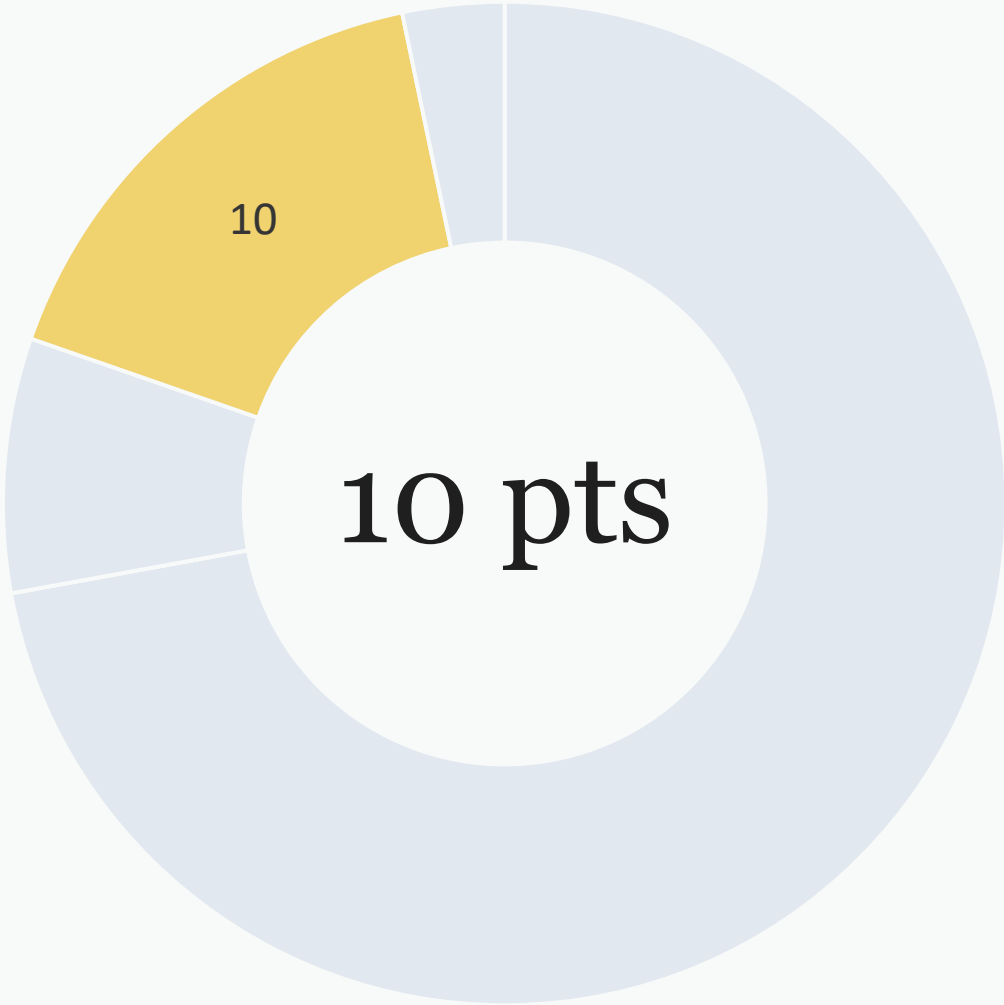
* The Scoring Committee confirmed this score on December 1, 2025

Score Breakdown

Nature-Based Solutions

The following project elements leverage nature-based solutions:

- **Vegetation/Green Space**
  - Native vegetation and new trees
    - Approximately 22.6% of the project area will be covered with green infrastructure
- **New Landscape Elements**
  - Engineered bioretention planters will allow for 85th percentile, 24-hour storm event capture and treatment
- **Enhancement of Soil**
  - Incorporate mulch and compost
    - Retain moisture, suppress erosion,and support microbial activity



* The Scoring Committee confirmed this score on December 1, 2025

Score Breakdown

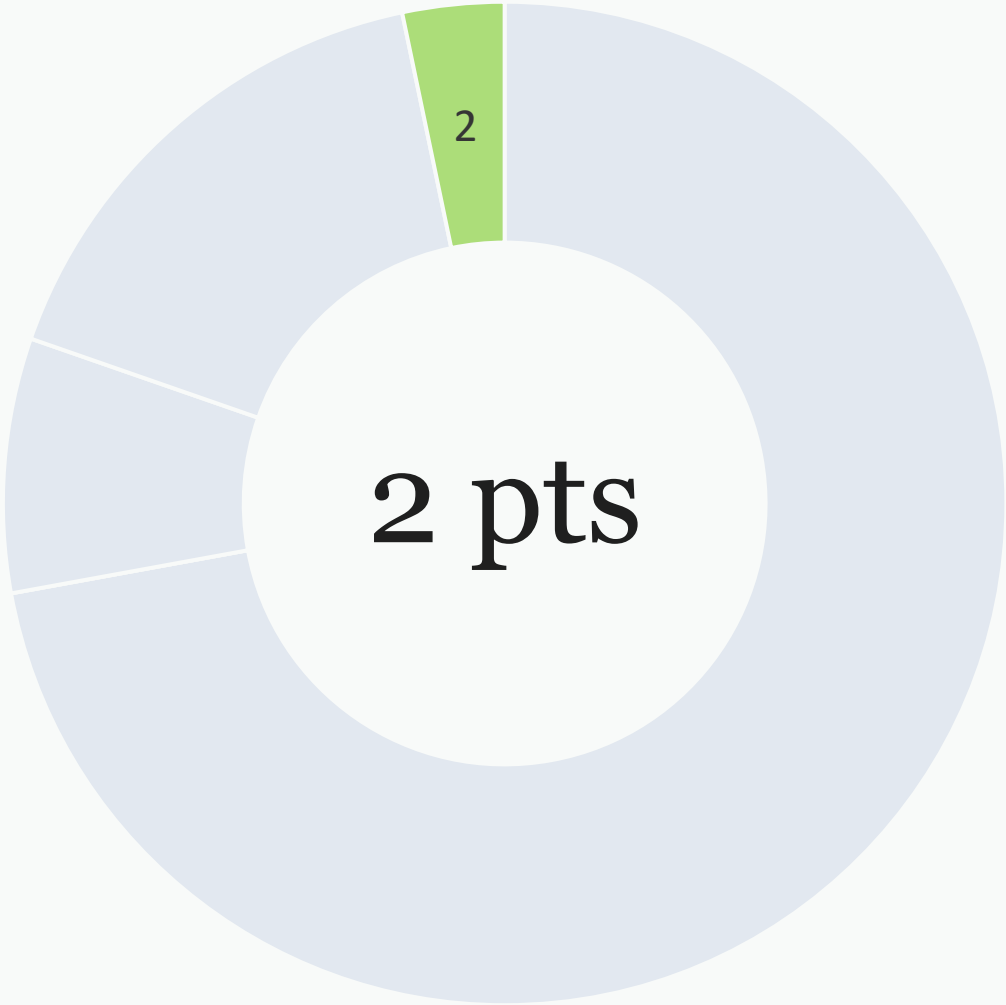
Leveraged Funds and Community Support

This project has garnered strong community backing, receiving letters of support from 5 local organizations-a reflection of the project's alignment with community priorities and its ability to deliver meaningful, multi-benefit outcomes.

Prior outreach to community members of the City of Irwindale were conducted on 3 separate occasions in 2023 and 2024.

- Tabling to inform and educate the public
- Conducted a survey that confirmed the dissatisfaction of the current landscape status and desire for planters and increased tree canopy

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



* The Scoring Committee confirmed this score on December 1, 2025

Thank you

QUESTIONS?

Eddie Chan, City of Irwindale

Merrill Taylor, Craftwater