Safe, Clean Water Program

Lower Los Angeles River
Watershed Area Steering Committee (WASC)

Meeting Minutes:
Tuesday, March 23, 2021
1:00pm - 3:00pm
WebEx Meeting

Attendees

Committee Members Present:
Dan Sharp (District)
Kristen Ruffell (LA County Sanitation)
Stephen Scott (Long Beach Parks & Recreation)
James Vernon (Port of Long Beach)
Marybeth Vergara* (Rivers and Mountains Conservancy)
Kedrin Hopkins (Conservation Corps of Long Beach)
Alex Rojas (Central Basin)
Gladis Deras (South Gate)
Melissa You (Long Beach)
Gina Nila (Commerce)
Adriana Figueroa (Paramount)
Kelli Tunnicliff (Signal Hill)
Manny Gonez* (TreePeople)
Melissa Bahmanpour (River Action)

Committee Members Not Present:
Lyndsey Bloxom* (Water Replenishment District)
Dan Mueller (Downey)
Laura Ochoa (Lynwood)

*Committee Member Alternate

See attached sign-in sheet for full list of attendees

1. Welcome and Introductions

Ms. Gina Nila, Chair of the Lower Los Angeles River WASC, welcomed members and called the meeting to order.

Mr. CJ Caluag of the District asked for a rollcall of WASC members, and with a majority present, quorum was established, and an overview of the WebEx functions and housekeeping items was provided.

2. Approval of Meeting Minutes from February 23rd, 2021

The District uploaded a copy of the meeting minutes from the February 23rd meeting, and Ms. Nila asked the committee members for comments or revisions.

Ms. Kristen Ruffell moved to approve the meeting minutes, with Mr. Manny Gonez seconding the motion. The Committee voted to approve the meeting minutes from February 23rd, 2021. (Approved, see Vote Tracker sheet).

3. Committee Member and District Updates

Ms. Nila asked if any Committee members had any updates to provide.

Mr. Caluag provided the District updates, starting with Stormwater Investment Plan (SIP) planning tool. As mentioned at the previous meeting, Mr. Caluag reminded all attendees that an interactive web-based SIP

planning tool has been developed and while it has not been officially finalized, it will be made available in April or May. Mr. Caluag gave a brief demonstration of the SIP tool, asked the Committee members to spend some time with the SIP tool to familiarize themselves with the tool, with the goal of utilizing it to execute the SIP for each Watershed Area (WA) by May.

For the Municipal Program Transfer Agreements (TA), the Annual Plans are posted on the SCWP website under the Municipalities page. Over half the Cities have been cleared to receive their local return funds. For Cities that have not returned their Annual Plans, executed TAs, and Authorizations are requested to turn them in as soon as possible as they are due in April. For Regional Program TAs, the District has received 38 of the 48 scopes of works and 14 have been cleared to receive SCWP funds.

Mr. Caluag gave a brief overview on the Partial Funding guidelines, stating that an email was sent out to various SCW stakeholders. WASCs can now negotiate partial funding to a project applicant, which must demonstrate that the project can fulfill the entire scope utilizing other funding sources, or fund a specific project phase but not the entire project request. Awarding of partial funding should not result in any reduction of scope, project benefits, or score assigned.

Regarding the Watershed Coordinator (WC) selection process, Mr. Caluag stated that each WASC is moving forward with their primary WC choice. With the exception of the North Santa Monica Bay WC, the WCs are working on providing their insurance requirements, their Scopes of Work and their letters of intent, with WC contract execution expected in the coming weeks.

Mr. Caluag went over the available Resources on the Safe, Clean Water (SCW) website, starting with the Call for Projects Round 3 having a current deadline of July 31st. As a reminder to project applicants, the District needs at least two months to review a Project Concept and provide its approval, meaning a May 31st target deadline to submit this request. The SCW website includes tax reduction and credit programs available for Low-income and Senior property owners, with a May 1st deadline. There is more information on the tax reduction and credit program on the SCWP website found at https://safecleanwaterla.org/resources/tools/.

Mr. Caluag and Mr. Alvin Cruz provided an update on the Technical Resources Program (TRP), with Mr. Caluag stating that 14 of the 16 TRPs from the Round 1 approved SIP funding have been issued a Notice-to-Proceed (NTP), with 2 TRPs in this particular WASC. Mr. Cruz then gave a brief update on the 2 TRPs for this WASC: Willow Springs and Parque Dos Rios, with the NTPs having been issued in early March with each TRP kickoff meeting occurring in the near future which will consist of District staff, the consultant, and the project proponent. Finally, TRP updates shall be provided at future meetings as each TRP makes progress.

In regards to the Scientific Studies, Mr. Caluag stated that previously the District had indicated it would be working with the Southern California Coastal Water Research Project (SCCWRP) to provide an independent scientific analysis and review of every scientific study submission in year 2. The summaries should be available at the next WASC meeting.

4. Ex Parte Communication Disclosures

There were no Ex Parte communication disclosures provided during this part of the meeting agenda.

5. Public Comment Period

There were no public comments provided during this part of the meeting agenda.

6. Discussion Items

a) Presentations for Infrastructure Program (LLAR Scoring Rubric and SCW Portal):

i) Huntington Park High School Storm Water Management System Project
Presented by Issam Dahdul of the Los Angeles Unified School District (LAUSD).

Ms. Kelli Tunnicliff asked for Mr. Dahdul to go over the project funding and the total project cost, with Mr. Dahdul stating that the total project cost is $150 million and while referring to the funding request slide in his presentation, showing a $1.4 million request from the Safe, Clean Water (SCW) Program. The majority of the $150 million is being funded through local LAUSD bond funding, and Mr. Dahdul stated that the project is currently in construction and would proceed even if SCW Program funding is not awarded.

Ms. Erica Maceda asked about water being collected in the courtyard area and being directed to a parking lot, and Mr. Dahdul responded that all of the water coming from the roofed areas will be directed to the landscaped areas and then conveyed in pipe drains to the underground retention basins, which will fill up during rain events and over time will be released and directed into the local groundwater. Ms. Maceda asked how much annual volume will be captured, and Mr. Dahdul stated he needs to do some research to provide an accurate figure. Mr. Harry Drake, the project architect, stated that the underground water storage area will hold the 85th percentile of storm water.

Ms. Adriana Figueroa asked if any of the captured rainwater will be reused onsite, with Mr. Dahdul stating that no captured water will be reused onsite. Ms. Figueroa then asked if any infiltration testing has been done to know the site's infiltration rates, and Mr. Dahdul stated that multiple borings were done onsite to identify the optimal locations for infiltration.

Mr. Dan Sharp asked if any offsite water is being brought to the project site, and Mr. Dahdul stated that no offsite water is being brought onsite. Mr. Sharp asked about a connection to a District storm drain as to whether this due to an overflow/bypass design, and Mr. Drake stated that any overflow from the retention basins would be directed to the adjacent street and not into any local storm drains.

Ms. Melissa Bahmanpour asked if there was any learning component to this project either during the construction or afterward. Mr. Drake stated that there will be demonstrations both during and after construction on the bioswale area as part of the campus and will have students educated about the benefits of site, including the treatment process.

Ms. Nila asked about the construction timeline and to confirm if the benefits of this project will not be seen for another five years. Mr. Dahdul stated that the project will be phased, and that the first phase of the project will be the admin and gym buildings in the first two to three years of the project, with the newer buildings to be built in the last two years of the construction schedule – this is due to having to still operate the school campus with construction activities occurring on site.

Ms. Tunnicliff asked for further clarification on how the SCW funding request for Years 1-5 are attributed to the construction schedule, which appears to be focused on building construction in the first three years. Mr. Drake stated that the current construction at this time is for the buildings, and that the underground utilities are going in before each building

is constructed – as such, the need to build the drains that lead to the underground storage facility is occurring as we speak.

ii) Rancho Los Cerritos: Looking Back to Advance Forward Project
Presented by Alison Bruesehoff of Rancho Los Cerritos, and consultants Travis Taylor and Kirk Keller

Ms. Bahmanpour referred to the vicinity map and asked for the site's address, and Ms. Bruesehoff stated that it's 4600 Virginia Road and is near the 710 freeway near a country club.

Ms. Figueroa asked about the project timeline and whether the site survey, the geotechnical investigations, and conceptual design already completed, and Mr. Keller stated that these efforts were completed for a portion of the project site, with the parking lot portion of the site still having not been completed. Ms. Figueroa stated that water will be retained and reused, but asked what will happen with any excess water, and Mr. Keller stated that because the site sits on the top of a knoll, and as water is flowing downhill from the knoll to the cistern, any excess water can be diverted to the arroyo should the cistern be full.

Ms. Vergara stated that the site is located in a disadvantaged community (DAC) and asked for clarification on whether it's located within a DAC or serving DACs, and what Port of Long Beach funding is being leveraged for this project's request. Ms. Bruesehoff stated that the Port's grant is being leveraged for the construction of the project, including the area for the project that is on our site but does not include the parking lot. As for being in a DAC, Ms. Bruesehoff stated this site is technically in a DAC, but most of the surrounding area is not considered a DAC. Ms. Vergara asked if children visitor fees are waived, and Ms. Bruesehoff stated that these fees are indeed waived, and that public visits are also free.

Ms. Nila referred to the Capture Area 1 and Capture Area 2 figure, and asked if the $1.7 million request is for addressing stormwater in just Capture Area 2 or for both Capture Areas 1 and 2, and Ms. Bruesehoff stated that the funding request is to benefit the stormwater in both areas. Mr. Taylor added that additional funding is needed to address Area 1, as well as needing to complete the entire capture area zone which includes Area 2.

Mr. James Vernon asked if the Capture Area 1 and Capture Area 2 figure was to scale, and Mr. Keller stated that this drawing is not scale and that Capture Area 1 is actually capturing an area outside of this figure's boundary.

Ms. Maceda asked what other community benefits this project envisions, and Ms. Bruesehoff stated that the community benefits include STAM and STEAM curriculum both onsite and in school curriculum and after-school programs, and the site is free to the public. Ms. Maceda asked if these benefits would be contingent on whether the schools can afford to transport the students to the site, and Ms. Bruesehoff stated that their site provides bus stipends. Ms. Maceda asked if it would be possible to request the necessary funding from the surrounding community, and Ms. Bruesehoff stated that because the site is primarily funded with grant funding and not private funding from the local neighborhood that this request is likely not feasible.

iii) Urban Orchard Project
Presented by Gladis Deras of the City of South Gate, and Matilda Reyes of The Trust for Public Land.

Mr. Vernon asked if the site's fruit trees will be irrigated with captured stormwater, and Ms. Deras stated that this is not planned as potable water is required for certain uses.

Ms. Ruffell referred to a portion of the presentation in which it was stated that if the project did not receive the requested funding, that certain portions of the project would not be built, and asked for clarification if the project's request from the SCW Program would bring the project up to full funding for all elements to be built. Ms. Deras stated that even with SCW Program funding that this project will be short of having full funding. The project is broken into a base bid, and an alternate bid, and that the SCW Program funding being requested at this time is simply for just the base bid. The alternate bid would need to be deferred until additional funding is secured. Ms. Reyes added that the requested SCW Program funding would pay for the operation and maintenance (O&M) of the project.

Ms. Bahmanpour asked if any of the funding would be programmed for community programs and/or children programs. Ms. Deras stated that the details in the project have yet to be approved by City Council, but that the program envisioned at the site includes educational opportunities for children and visitors. Ms. Bahmanpour asked if there will be a central setting for these educational programs, and Ms. Deras stated that due to support from the Rivers & Mountains Conservancy, the project will include an educational building. This said, Ms. Deras wants to make sure that education occurs in the outdoor areas.

Ms. Nila asked how much of the $24.6 million total project cost is secured at this time, and Ms. Deras stated that the project has secured $13 million at this time. In addition to the SCW Program funding, Ms. Deras stated that the project has also sought Prop. 68 funding for this project in the amount of $5.4 million. Ms. Nila asked if the entire project is being bid out, or if it will be bid in phases, and Ms. Deras responded that the project will bid out the entire project but will only award funds for what has been secured.

7. Public Comment Period

There were no public comments provided during this part of the meeting agenda.

8. Voting Items

There were no voting items included in this meeting's agenda.

9. Items for Next Agenda

Upcoming items for future meetings include:

a) Presentations from the remaining FY21-22 (2) Infrastructure Program and (2) Scientific Study Project Applicants

After the completion of all presentations, Ms. Nila stated that this WASC will be voting for which projects will be considered for SIP funding, and highly encouraged the WASC to take a look at the SIP tool. Mr. Caluag added a timeline to the efforts by stating that by the end of April, all presentations will be finished. Following the April 27th Lower Los Angeles River WASC meeting, the District will be sending out a project ranking request via e-mail. Mr. Caluag referred to the SCW Reporting Map portal to easily find the project applications to help develop the project rankings. The project ranking results will be available at the May meeting to help move forward with the SIP programming.

Ms. Bahmanpour asked if the GAP analysis scientific study had withdrawn from SCW Program funding consideration, and Mr. Caluag clarified that this scientific study was still being considered and will be presenting at the April 27th meeting. Ms. Bahmanpour then asked for any updates on the SCW school education program, and Mr. Caluag stated that the District can inquire with the lead team for any updates to be provided at the next WASC meeting.

Ms. Nila asked for an update at the next meeting on the WC.

10. Adjournment

Ms. Nila thanked the committee members and public for their time and participation and adjourned the meeting.

Next Meeting: Tuesday, April 27th, 2021
1:00PM – 3:00PM
Virtual Meeting – WebEx Events

LOWER LOS ANGELES RIVER WASC MEETING - MARCH 23, 2021

		Quorum Present				Items
Member Type	Organization	Member	Voting?	Alternate	Voting?	Meeting Minutes
Agency	District	Dan Sharp	x	Carolina Hernandez		y
Agency	Central Basin	Alex Rojas	x	Jeremy Melendez		y
Agency	Water Replenishment District	Diane Gatza		Lyndsey Bloxom		
Agency	LA County Sanitation Districts	Kristen Ruffell	x	Mike Sullivan		y
Agency	Port of Long Beach	James Vernon	x	Dylan Porter		y
Community Stakeholder	Conservation Corps of Long Beach	Kedrin Hopkins	x			y
Community Stakeholder	Rivers & Mountains Conservancy	Mark Stanley		Marybeth Vergara	x	y
Community Stakeholder	TreePeople	Cindy Montanez		Manny Gonez	x	y
Community Stakeholder	City of Long Beach Parks & Recreation	Stephen Scott	x	Meredith Reynolds		y
Community Stakeholder	River in Action	Melissa Bahmanpour	x	Erica Maceda		y
Municipal Members	City of Commerce City of Bell Gardens	Gina Nila	x	Chau Vu		y
Municipal Members	City of Downey	Dan Mueller		Delfino Consunji		
Municipal Members	City of Long Beach	Melissa You	x	Cecilia Salazar		y
Municipal Members	City of Lynwood	Laura Ochoa		Noe Martinez		
Municipal Members	City of Paramount	Adriana Figueroa	x	Sarah Ho		y
Municipal Members	City of Signal Hill	Kelli Tunnicliff	x	Cecil Looney		y
Municipal Members	City of South Gate	Gladis Deras	x	Clint Herrera		y
	Total Non-Vacant Seats	17			Yay (Y)	14
	Total Voting Members Present	14			Nay (N)	0
	Agency	4			Abstain (A)	0
	Community Stakeholder	5			Total	14
	Municipal Members	5				Approved

Attendees
Lower Los Angeles River WASC Meeting
March 23, 2021

Safe Clean Water LA
katie m
Dylan Porter
Larry Tortuya - CWE
Elisha Back
Mayra Cabrera - LACFCD
Sarai Jimenez
Jason Casanova
Nate Schreiner
Joe Venzon - LA County
Carlos Moran
I EC
Melissa Bahmanpour
Michelle Kim
Clare Faulkner
Allan Lumidao
James Vernon
Travis Taylor
Bryce Lee
Greg Alexander
Manny Gonez
kirk keller
Alfred Alonzo
Harry Drake
Blake Whittington
Kevin Chang
Alison Bruesehoff
Sergio Gonzalez
Marybeth Vergara
MELISSA YOU
Adriana Figueroa
Alysha Chan
Cecilia Salazar
erica Maceda
Alex Rojas
Karen Lee
Thuan Nguyen
Jon (Stantec)
Jeremy Melendez
Gladis Deras
Mohammed Baig
Dan Sharp
Matilda Reyes
Julia Hawkinson
Stephen Scott
Maritsa DRA Inc.
kelli tunnicliff
Kristen Ruffell
Gina Nila
Issam Dahdul
CJ Caluag - LACFCD
Justin Jones - LACFCD
kedrin Hopkins

LOS ANGELES
UNIFIED SCHOOL DISTRICT

HUNTINGTON PARK HIGH SCHOOL
COMPREHENSIVE MODERNIZATION PROJECT

Safe, Clean Water Infrastructure Program FY21-22

Project Lead: Los Angeles Unified School District

Presenter: Issam Dahdul, Senior Project Development Manager

Project Overview

The Huntington Park High School Comprehensive Modernization project includes a new gymnasium, classroom buildings, swimming pool facility, new hardscape and landscape areas, and a storm water treatment system that includes a bioswale, retention and infiltration.

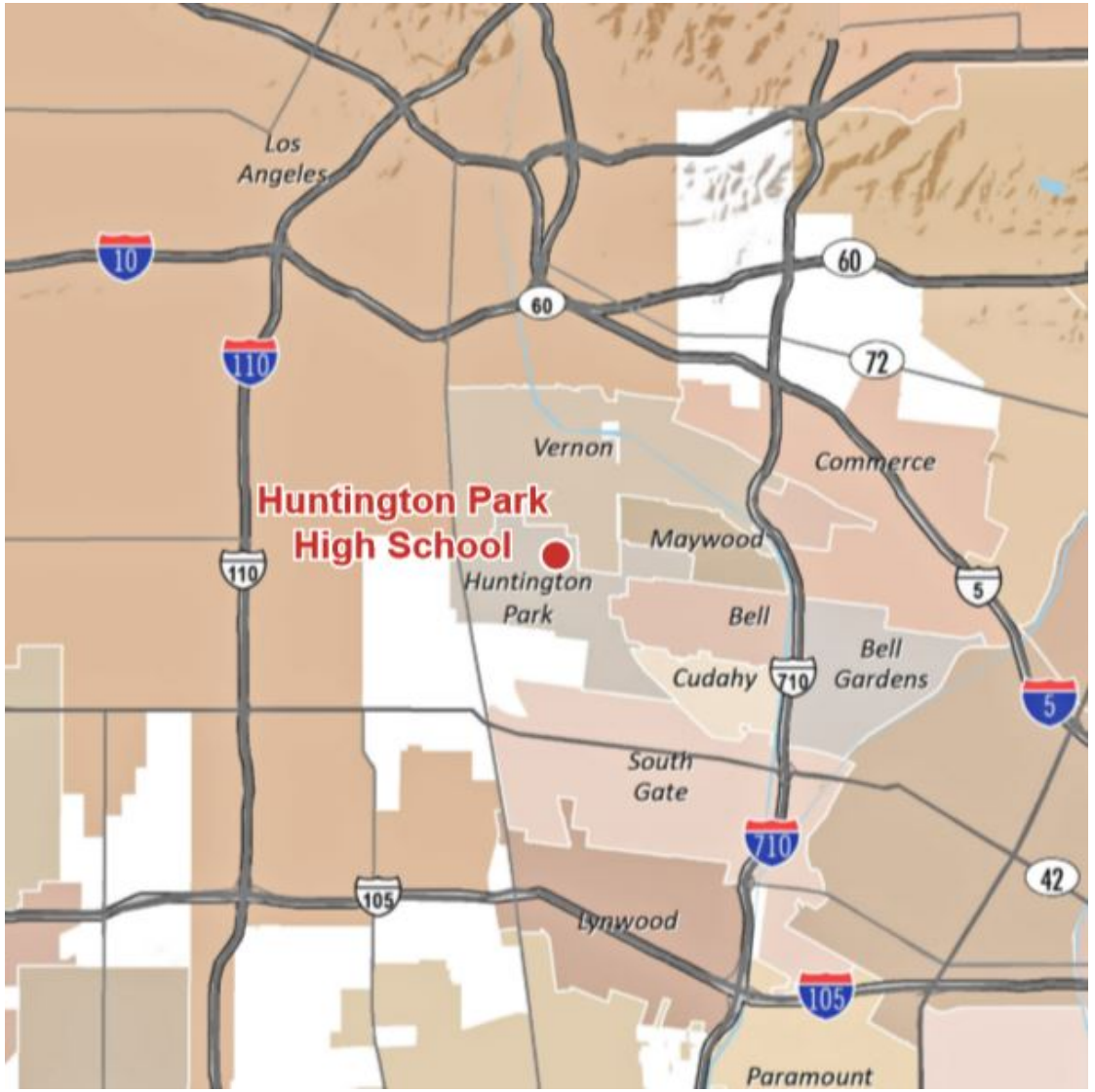
- The goal of the Project is to modernize and replace aging school facilities to provide safe and updated schools for 21st century learning.
- The $150,100,000.00 Comprehensive Modernization Project is funded by local bond funds and will be completed in 2025. SCW funding is being requested for the construction cost of the storm water quality portion of the project and for monitoring, operation and maintenance for the storm water system.
- SCW funding is requested for the construction cost of the storm water quality portion of the project and for operation and maintenance of the storm water system.
- $1,401,707.00 Total Funding Requested

Project Location

Huntington Park High School

- Watershed Area
  - Lower Los Angeles River

Project Location



Project Background

- Huntington Park High School (HPHS) is a four-year high school located in the City of Huntington Park on a 23-acre site. The cornerstone for the first high school building was laid in December 1909.
- The project includes modernization of campus buildings, many over 90-years old, and construction of new general education, special education, and technical classrooms including: culinary arts; video production; fitness; and dance.

Project Background

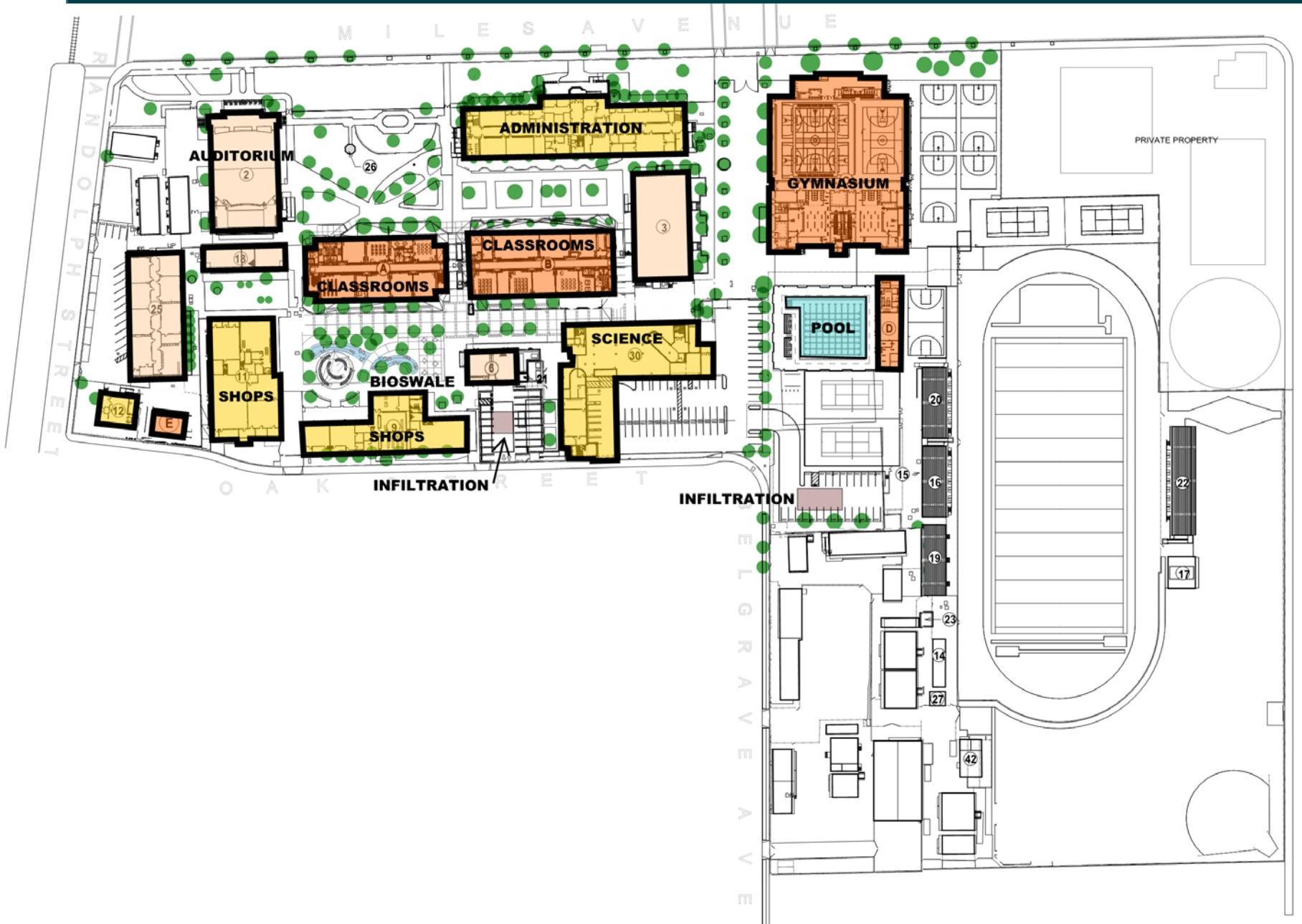
- HPHS has a STEAM magnet program that is embedded in the comprehensive school that benefits students from Disadvantaged Communities.
- This STEAM magnet program is the only STEAM magnet high school in the area.
- The mission of this program and the campus as a whole is to ensure maximum success for the varied socio-economic and culturally diverse student population.

Project Background

- Unlike the existing storm water sheet flow into street gutters that has been in place on campus since its founding in 1909, and through the campus build-out in the 1920s, 1930s and 1980s, the current project will filter and reduce the storm water run-off into the surrounding residential neighborhood.
- By taking advantage of the soil conditions on campus, the proposed post-development storm water treatment system has been designed to include storm water retention and infiltration and will replenish the ground water table in the community.

Project Details – New and Existing Buildings

Project Details – Campus Plan



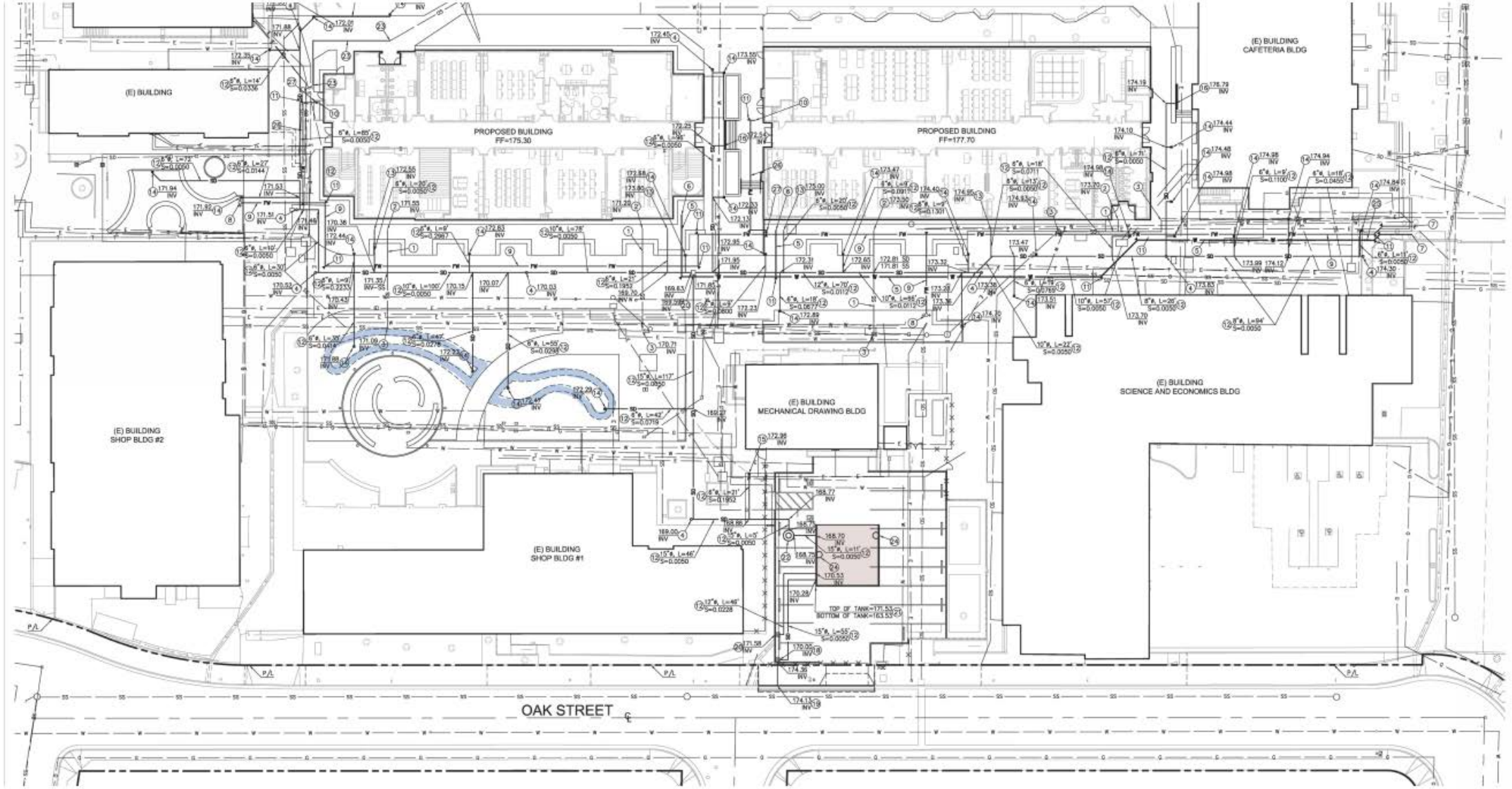
- Existing Building to Remain
- Existing Building to be Renovated
- New Building
- Area of Infiltration

HPHS - Aerial View of Campus

HPHS - Proposed Gymnasium/ Historic Palm Tree Court & Proposed Classroom Buildings

HPHS - Proposed Bioswale & Demonstration Area & Proposed Bioswale/ Shade Structure

Project Details – South Campus Bioswale & Infiltration



Project Details – North Campus Infiltration

Cost & Schedule

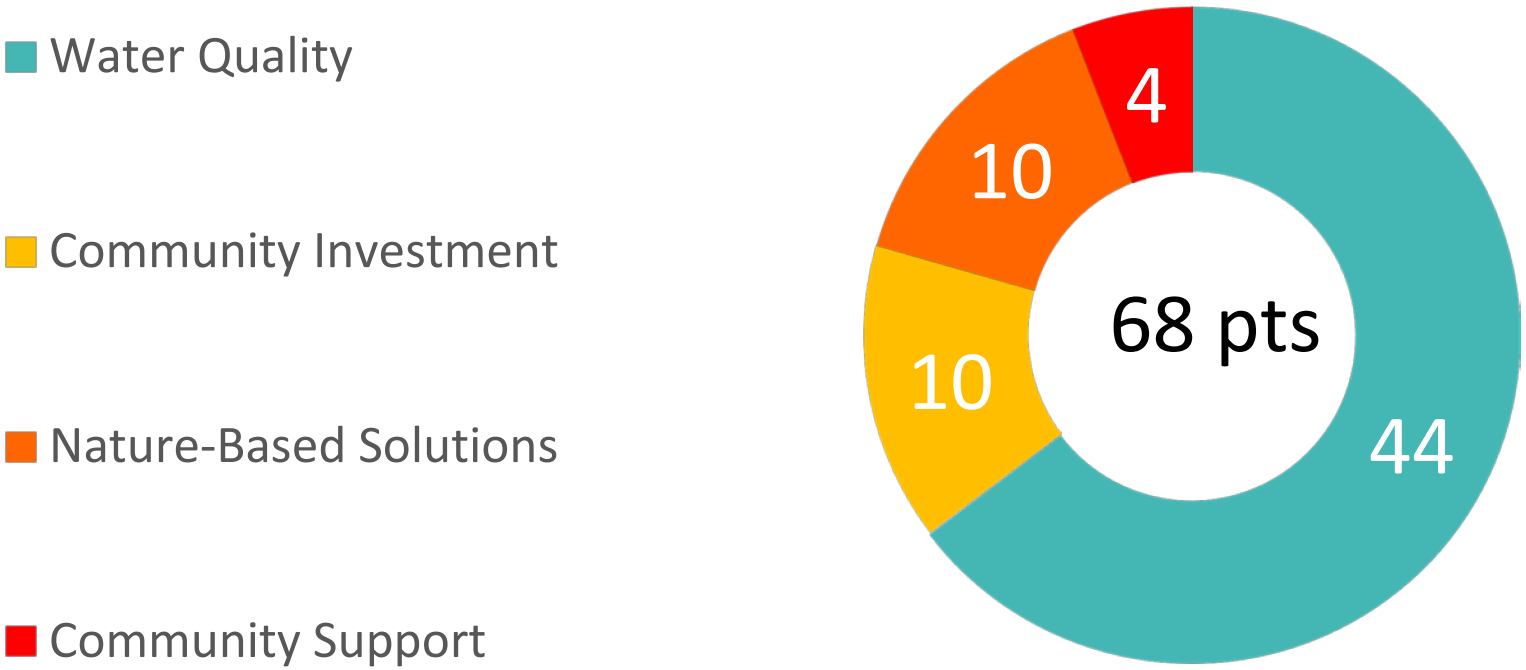
Phase Costs			
Phase	Description	Cost	Completion Date
Construction	Construction	$1,263,707.00	03/2025
TOTAL		**$1,263,707.00**	

Annual Cost Breakdown	
Annual Maintenance Cost:	$12,000.00
Annual Operation Cost:	$12,000.00
Annual Monitoring Cost:	$3,600.00
Project Life Span:	**30 years**

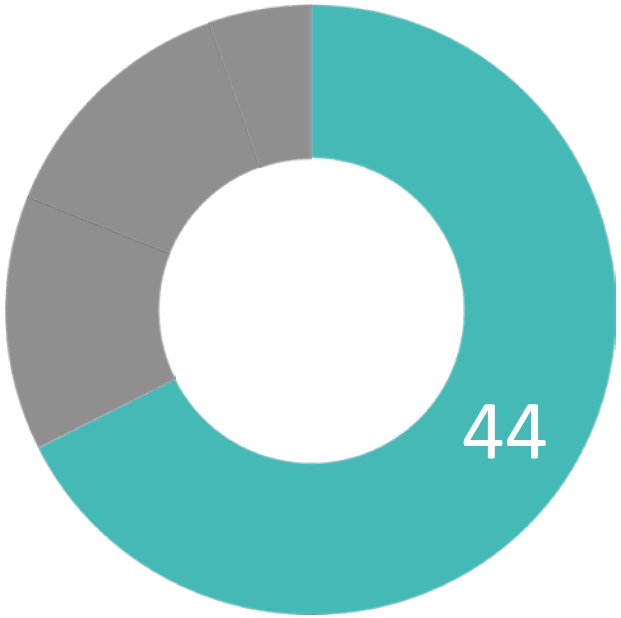
Funding Request

Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	$252,741.40	Construction	Construction
2	$252,741.40	Construction	Construction
3	$252,741.40	Construction	Construction
4	$252,741.40	Construction	Construction
5	$252,741.40	Construction	Construction
Funding requested beyond 5 years	$120,000.00	O & M	Maintenance & Operations Costs for 5 years
Funding requested beyond 5 years	$18,000.00	Monitoring	Monitoring Costs for 5 years
Total funding requested beyond 5 years	$138,000.00		
TOTAL	**$1,401,707.00**		

Preliminary Score

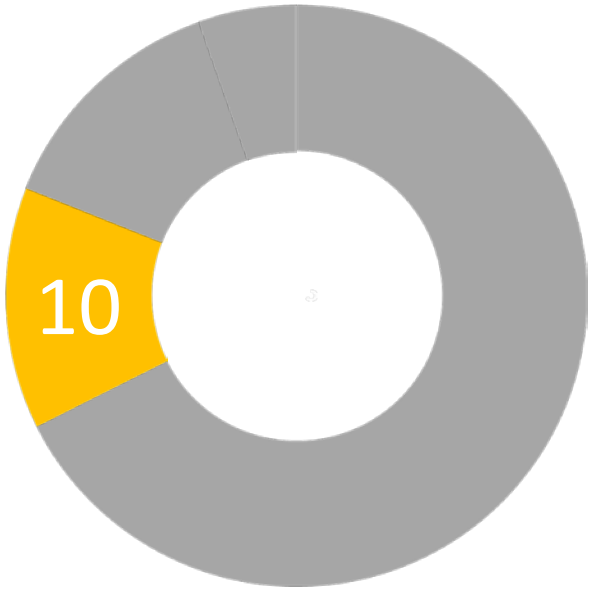


Water Quality & Water Supply Benefits



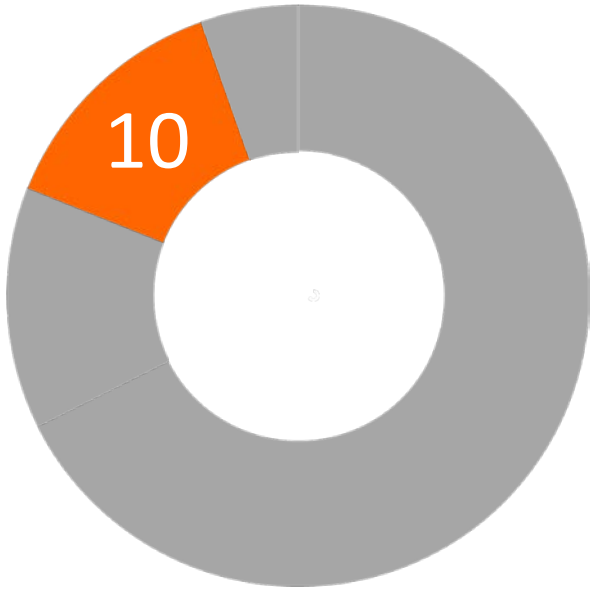
- The new storm drain system will be designed to collect all surface runoff from the project site and from roof drainage.
- The project encompasses a 5.7 ac capture area with a 5.7 ac impervious area.
- The project will decrease the impervious area through additional planted areas and is therefore anticipated to decrease storm water runoff.
- The project infiltration facility has a 0.06 ac footprint and an 8 ft ponding depth. The module generated storage volume is 0.4800 ac-ft.
- The infiltration system provides stormwater runoff treatment through a variety of natural mechanisms: filtration, absorption, and biological degradation as water flows through the soil profile.
- The treatment system will not only treat the storm water but will alleviate flooding and control the rate of water leaving the campus.

Community Investment Benefits



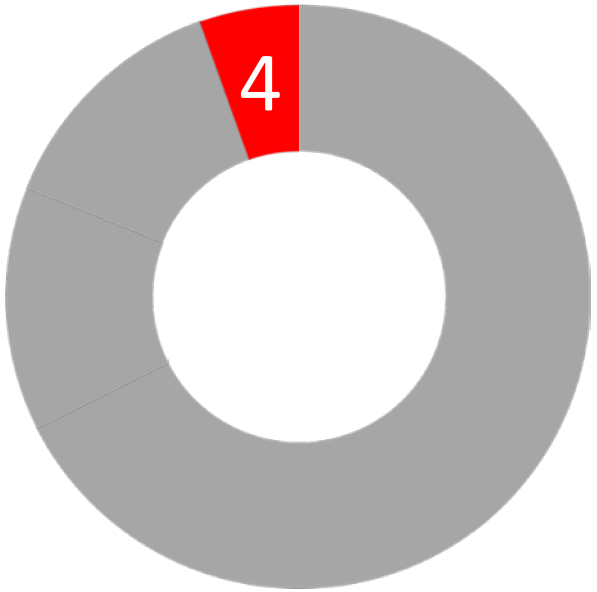
- Community Investment Benefits
  - System is designed to collect and treat an 85th percentile storm through infiltration
  - Project enhances landscape areas throughout the 100-year-old campus and protects over 100 mature trees
  - Construction of new Gymnasium and outdoor pool will create recreational opportunities for the high school aged youth in the community
  - Protection of existing mature trees, addition of new trees and plants, and construction of a new shade structure will increase ecological function and increase shade areas for students and teachers
  - Areas of existing asphalt pavement will be replaced with natural color concrete paving to reduce heat island effect

Nature Based Solutions



- Nature Based Solutions
  - A portion of the storm drain downstream mainline will be diverted to a landscaped bioswale filtration system.
  - The campus landscape design incorporates 74 new trees, green areas and planters throughout the exterior circulation spaces using a California native planting pallet.

Leveraging Funds and Community Support



- Leveraging Funds and Community Support
  - Huntington Park HS has an active and engaged local community. The Project Advisory Board including neighborhood council members, parents and staff are in strong support of this project.
  - The Huntington Park HS Alumni Association has provided a letter in strong support of this project.
- Community Support
  - The mission of the outreach process for LAUSD is to build greater public understanding, broader participation and productive partnerships for LAUSD projects.
  - The outreach process is initiated by assigning a LAUSD community relations point person who assembles a contact list for each project that includes parents, staff, neighbors within 500 ft. of the school, neighborhood councils, community-based organizations, and local elected officials and anyone who provides contact information.
  - Community meetings are held at each milestone of the project. All community input is responded to and documented for follow up by the design team and LAUSD officials.


Questions?

LOOKING BACK TO ADVANCE FORWARD

FUNDING PROGRAM: INFRASTRUCTURE

Rancho Los Cerritos

ALISON BRUESEHOFF
Rancho Los Cerritos

TRAVIS TAYLOR
P2S Inc.

KIRK KELLER
Studio One Eleven

Project
OVERVIEW

Stormwater reclamation and reuse project at a National historic site. Innovative water management education will benefit DAC communities.

Objectives

- Primary: Capture and reuse water onsite
- Secondary: Expand water education curriculum and programs

Project Status

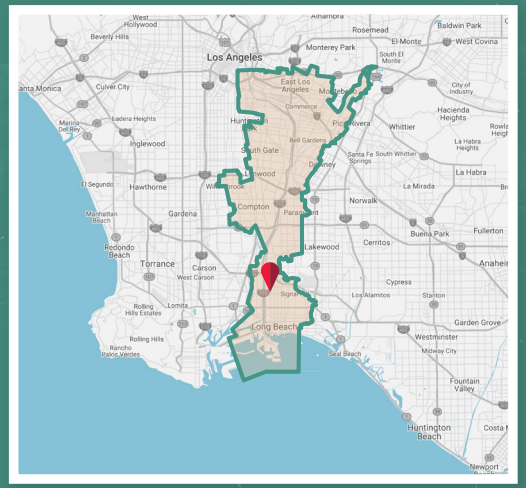
- Planning
  - Construction: Complete
  - Water Educational Programming: In Progress
- Design
  - Expand Engineering Design
  - Water Educational Programming: Begin 2021
- Construction
- O&M

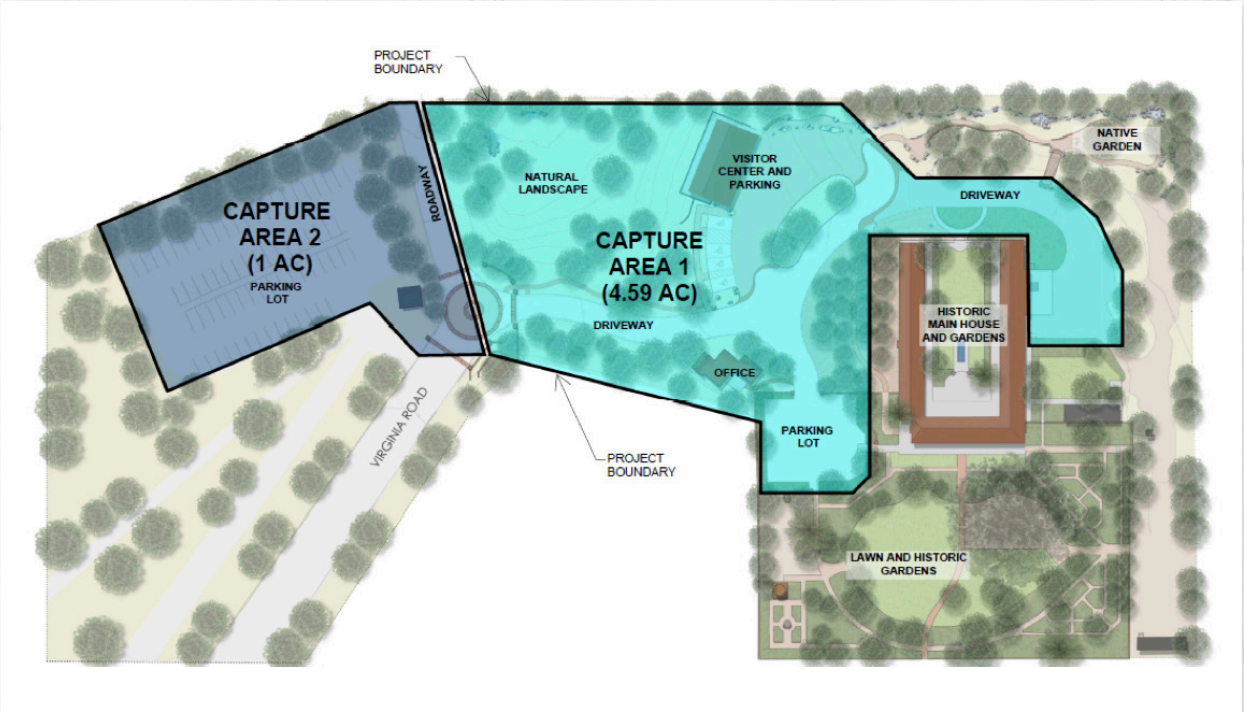
Total Funding Requested:
$1,715,000.00

Project
LOCATION

Within the Lower Los Angeles River Watershed

- Total Capture Area 5.59
- City - Offsite 1.0 Ac
- Rancho managed 4.59 Ac



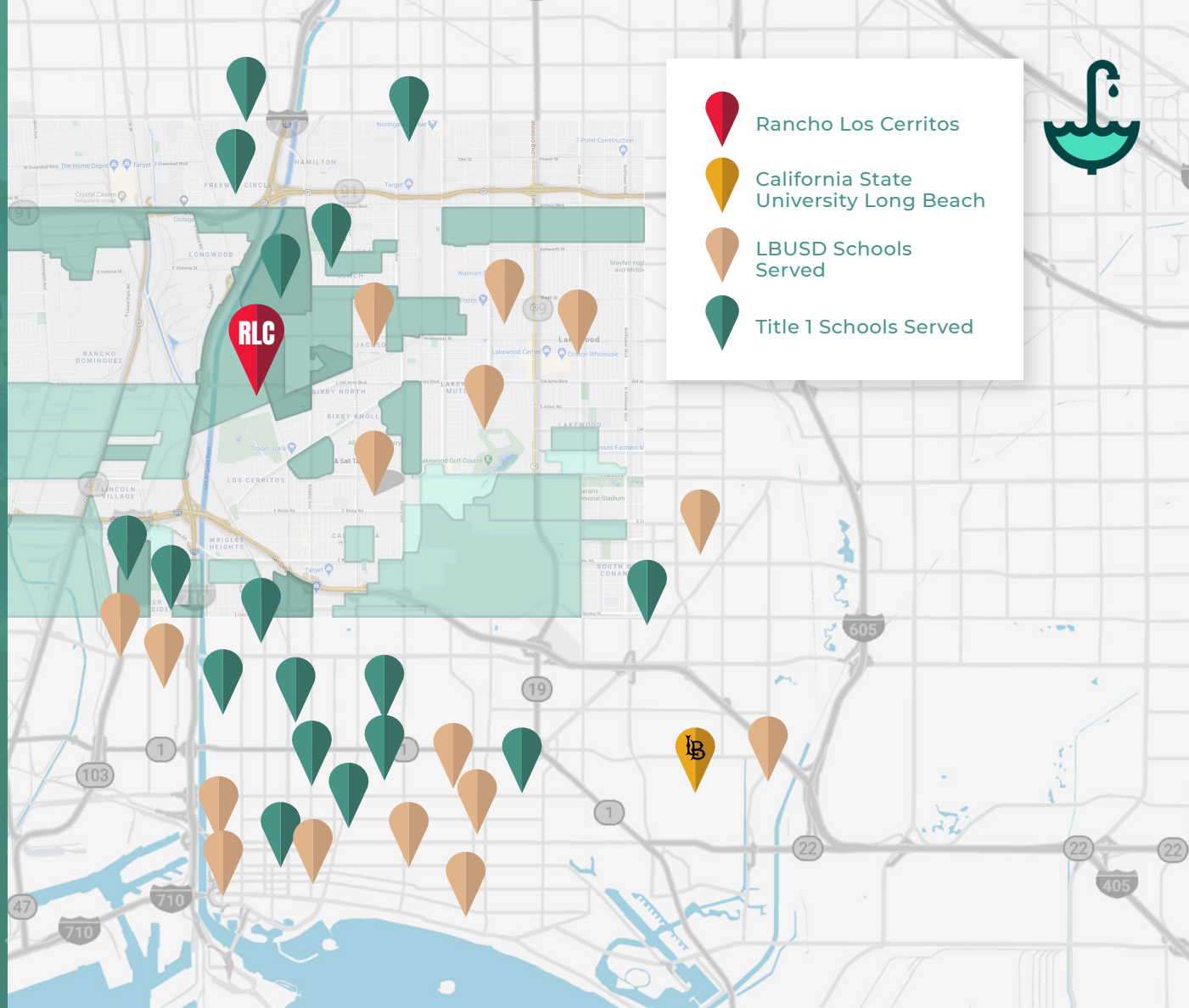


Project
LOCATION

- 29 LBUSD Afterschool Childcare Programs including WRAP and CDC
- Partnership with CSULB
- A total reach of 8000 schoolchildren

17 Districts Served:
Long Beach Unified, Los Angeles Unified, Bellflower, Lakewood, Huntington Beach, Cypress, Orange, Torrance, Garden Grove, Wilmington, Los Alamitos, Compton, Downey, Temple City, El Monte, Paramount, Artesia and the ABC School Districts.

The nearest DAC is approximately 0.2 miles from the Rancho Los Cerritos.



Project BACKGROUND

Why was this location selected?

- Sustain the Historic resource utilizing nature-based solutions and educate the community. These twin goals were developed together since they are inherently linked with the Rancho's mission.
- Solving our public safety issue around erosion and run-off.
- Re-charging groundwater to preserve national historic gardens and protect our natural resources .
- Unique opportunity to educate the public about our most precious resource – water.

How was the Project developed?

- The Rancho's 25-year Master Plan includes innovative water technology and nature-based education. Created a new Strategic Plan, Education Plan, and institutionalized DEIA (now a standing committee).

Which regional water management plan includes the proposed project?

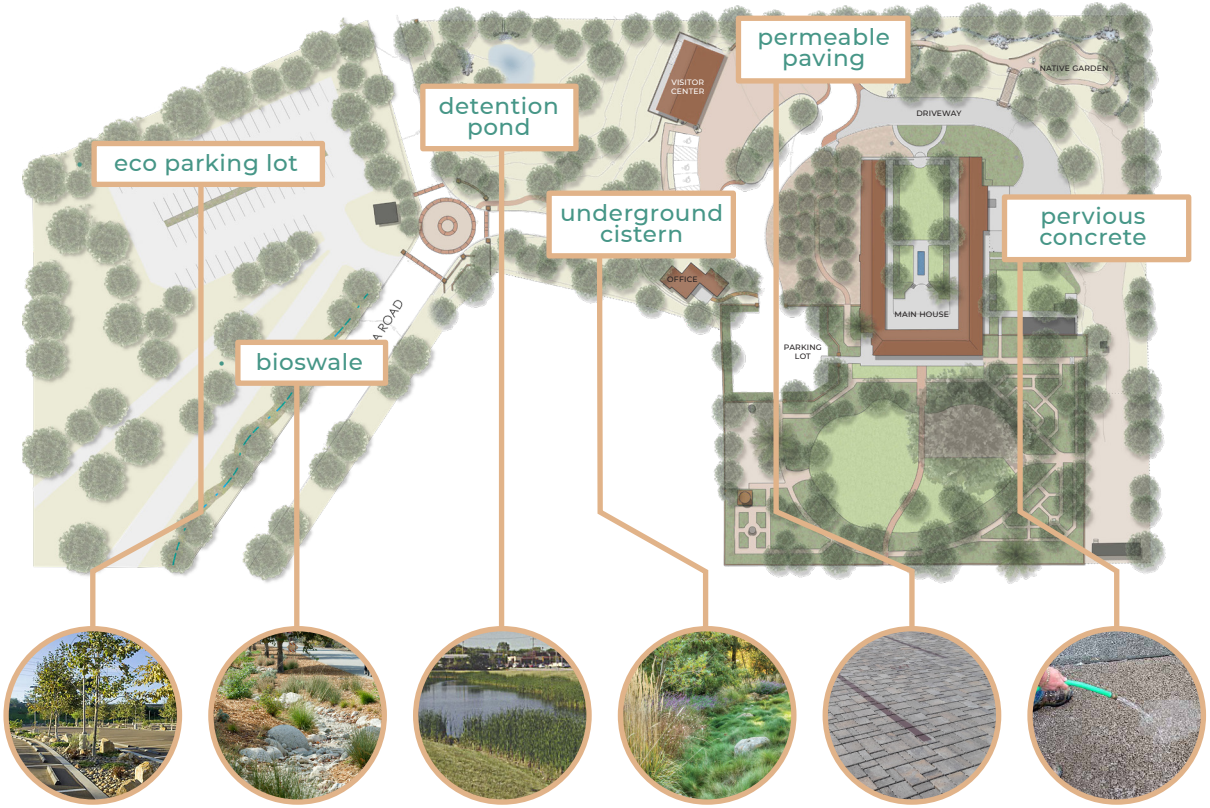
1. Adaptive Management section of the Lower Los Angeles River (LLAR) Watershed Management Group's (WMG) Watershed Annual Report for Reporting Year 2018-19
2. LLAR WMG biennial Adaptive Management Report from December 2019
3. Revised LLAR Watershed Management Plan

Description of benefits to municipalities:

- Partnership with city of Long Beach
- Correcting run-off concern on Virginia Road into historic Arroyo.
- Permeable paving of parking lot.
- Capture and reuse on site 95% of stormwater.
- Educate diverse learners of all ages about the necessity and opportunities for water wise strategies.

DAC benefits:

- Unique access to over 8000 school children - 65% are socio-economically disadvantaged.
- Educational opportunities in multiple different languages, in-person and on-line.
- Welcome and include families and children in traditionally underserved neighborhoods .
- Provide access to DAC's who have diminished opportunities for park space and natural environments.



Nature Based Solutions

Project DETAILS

Current Site Conditions

- Damaging erosion
- Stormwater lost to municipal drains without reuse or educational opportunities.

Completed Studies/Analysis

- Site Survey and Geotechnical Investigation completed in Q1 2020

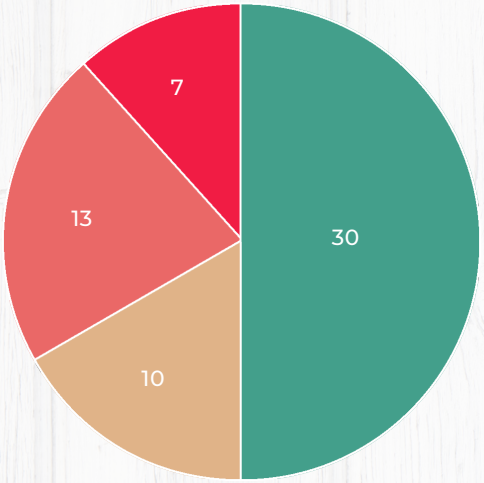
Alternative – Reduced project currently designed.

Cost & SCHEDULE

Phase	Description	Cost	Completion Date
Planning	Site surveying and geotechnical investigation.	$50,000	01/2020
Design	Conceptual Design, 50% Construction Documents, 100% Construction Documents (Permit Set) and Permitting.	$265,000	11/2020
Construction	Bidding, contracting, mobilization, construction, demobilization, and closeout.	$2,400,000	05/2022
TOTAL		**$2,715,000**	

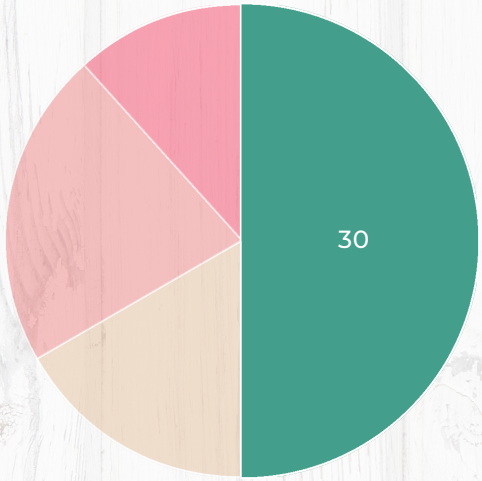
Year 1: $1,000,000 **Year 2:** $715,000

Preliminary
SCORE



Total: 60 points

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

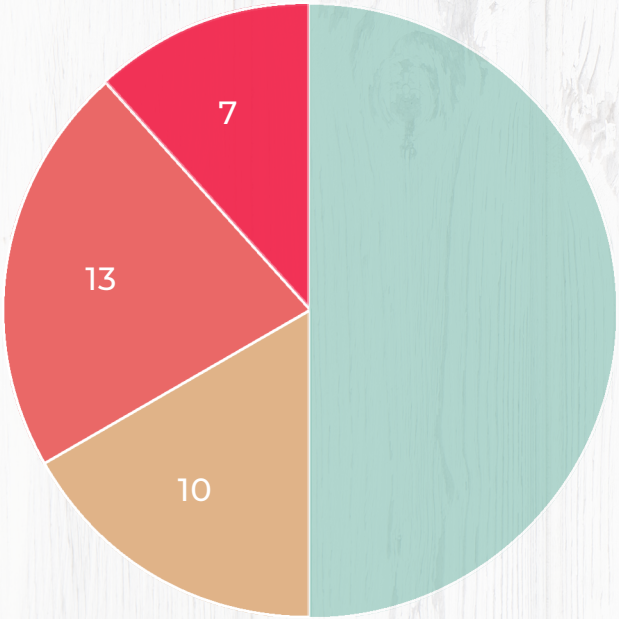


Water Quality & Water Supply Benefits

- Primary mechanisms that achieve Water Quality and Water Supply Benefits claimed: Infiltration via Permeable Concrete/Pavers, Capture and Reuse via Cistern, Filtration via Bioswale.
- Wet/Dry: Wet
- Tributary Area: 5.6 Acres
- Capacity: 4.59 ac-ft
- Pollutant Reduction: Primary – Total Zinc; Secondary - Bacteria
- Annual Water Supply Volume: N/A
- Water Supply Use (irrigation, water recycling, water supply aquifer): Reuse for onsite irrigation.
- Water Supply and Water Quality Cost Effectiveness: $34,273.50 per ac-ft

Preliminary
SCORE

Community Investment Benefits & Nature Based Solutions



Community Investment Benefits:

- Sustain Historical Site. Improves flood risk mitigation, access to outdoor green space free of charge, enhance nature based education curriculum
- Provides access to our underserved children families and communities
- City street run-off captured

Nature based solutions:

- Bioswales, cistern, vernal pond, permeable pavement, education through the lens of history of nature based solutions for water conservation from Tongva to Today.

Leveraging Funds

- $1M from POLB.
- $324,0000 from MWD
- $40,000 developing nature based environmental Educational curriculum.

*Total $1,364,000 ($50.2% of funding matched) on total project cost of $2,715,000.

Community SUPPORT

- Port of Long Beach, Tongva Partners and Educators Long Beach Unified School District
- California State University Long Beach's Department of Environmental Sciences, Department of History
- Water Matters Long Beach: Long Beach Water Department, Board of Water Commissioners, Rancho Los Alamitos, Water Replenishment District, Navajo Nation, Theodore Payne Foundation, Historical Society of Long Beach, City of Long Beach Sustainability Office, Los Cerritos Wetlands Land Trust, and Amigos De Bolsa Chica.
- P2S Inc., Studio One Eleven, Labib Funk + Associates, Signal Hill Petroleum, National Business Bank
- Long Beach Councilmembers Al Austin, District 8 and Rex Richardson, District 9 in our efforts to plan DAC outreach programs. Office of LA County Supervisor District 4, Patrick O'Donnell, Lena Gonzalez.

Urban Orchard

Funding Program (IP)

Presenters:

Gladis Deras, City of South Gate

Matilde Reyes, Trust for Public Land

Project Overview and Objectives

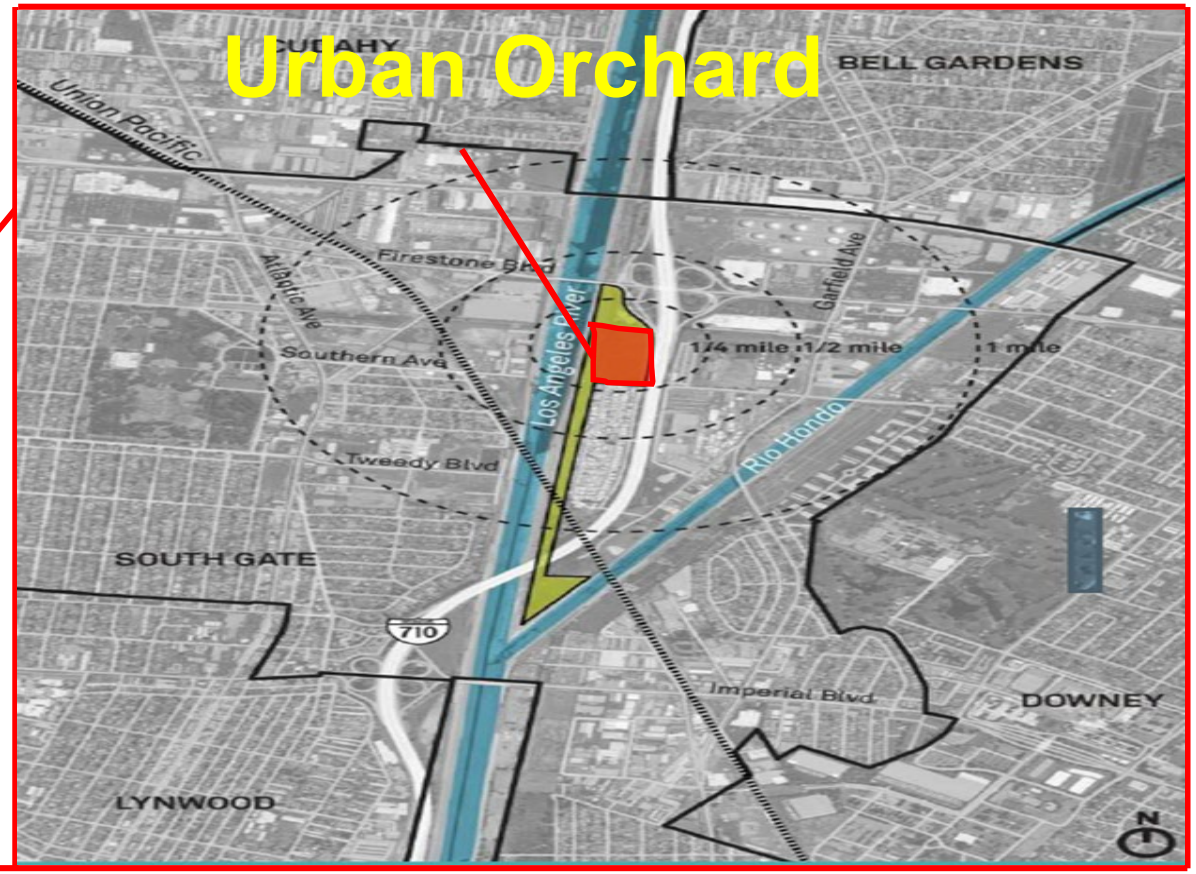
The Urban Orchard is a multi-benefit park project that will divert dry weather runoff from the Bandini Channel for treatment and reuse

- Improve Storm Water Quality
- Protect Public Health by Reducing Poor Air Quality, and Reducing Heat Island Effect
- Create New Recreational Space in a Disadvantage Community

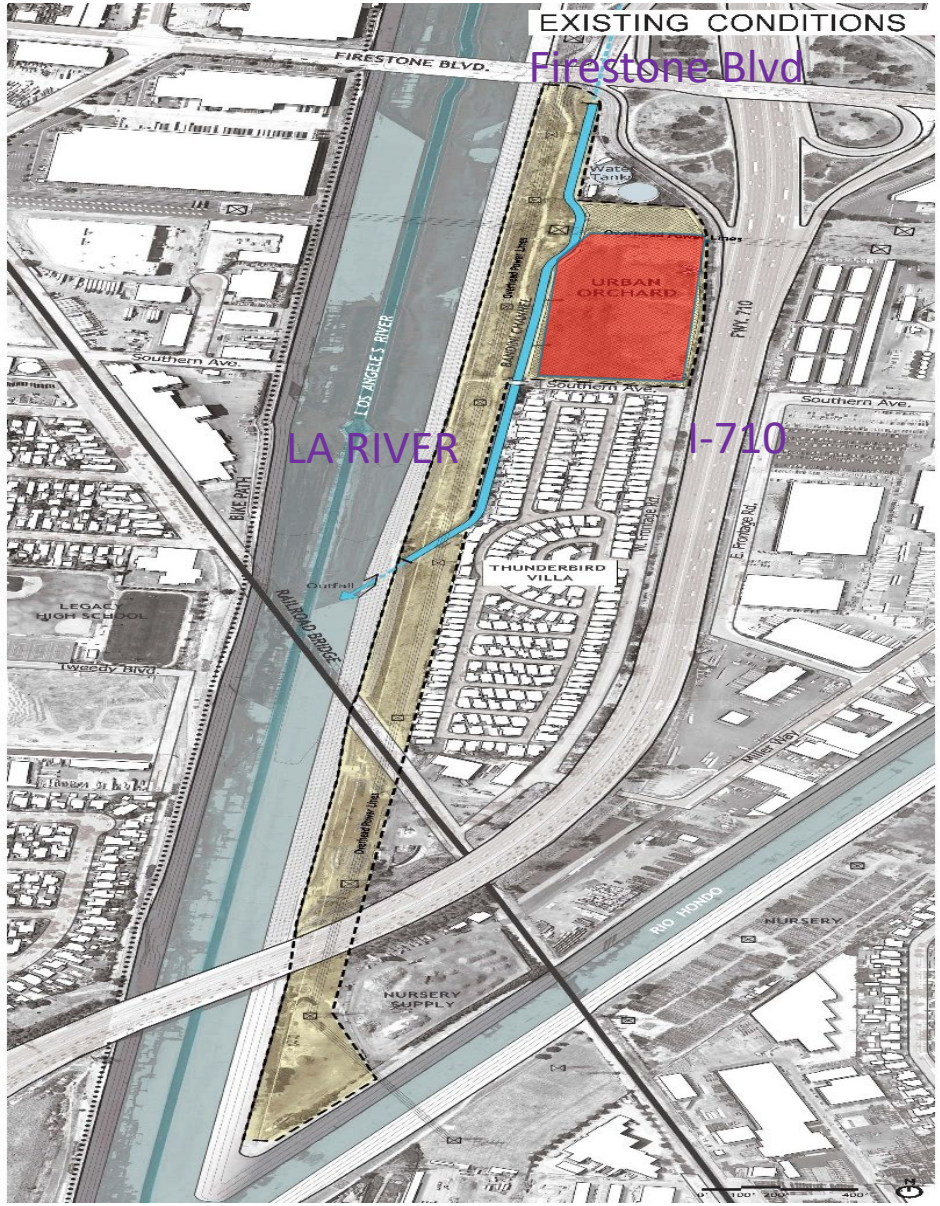
Request for Funding is $5,438,000 for Construction and O&M

- Shovel Ready: Bidding Phase

Project Location



Project Site and Existing Conditions

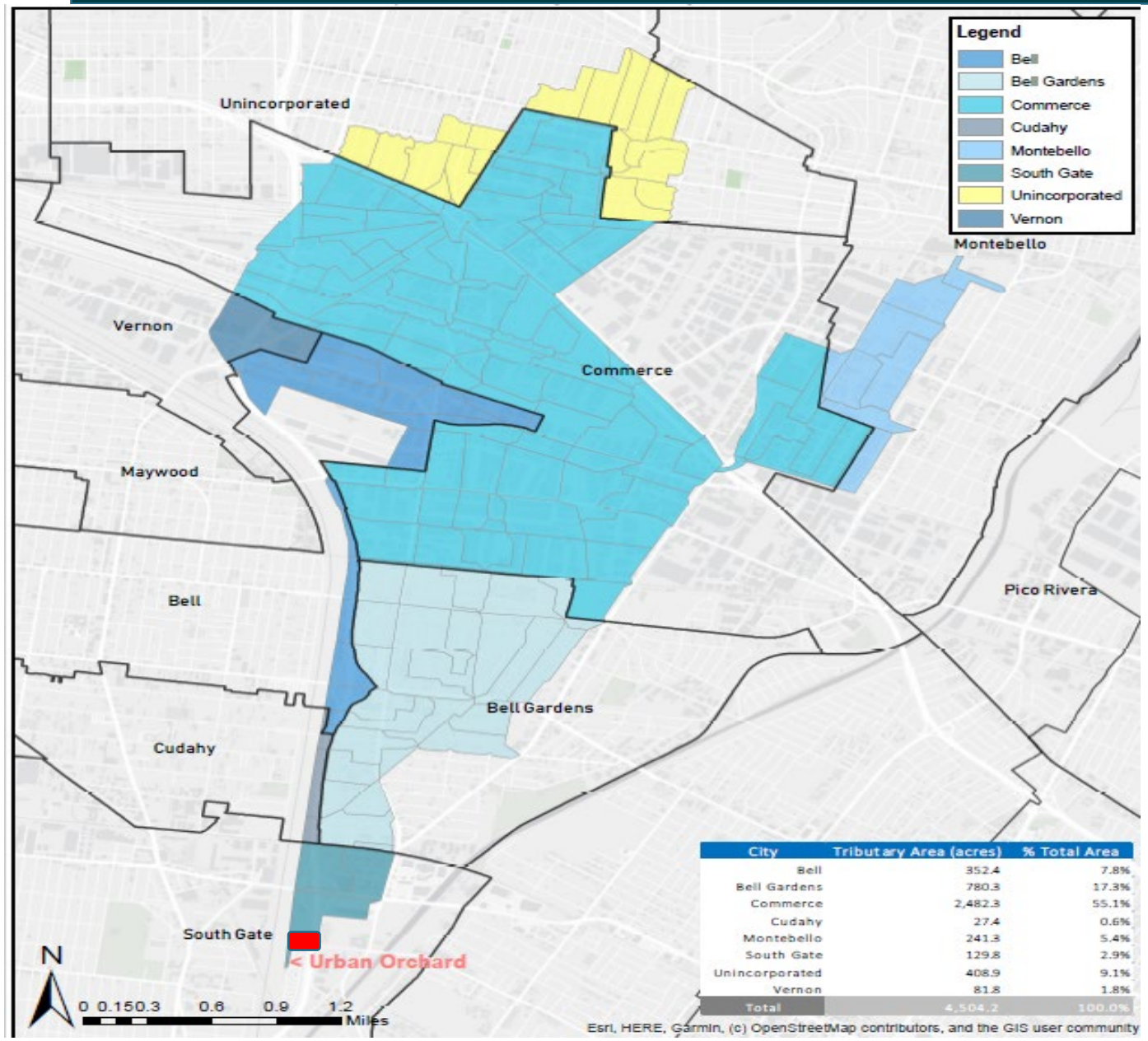


Urban Orchard

Project Features

- Storm water Reservoir
- Constructed wetland system
- New Municipal Park irrigated by storm water
- Orchard of Fruit Trees
- Education Garden
- Education Center
- Nature play area
- 4.5 acres of new planting, including CA native plants & drought tolerant species
- Passive recreational opportunities

Project Accomplishments



City	Tributary Area (acres)	% Total Area
Bell	352.4	7.8%
Bell Gardens	780.3	17.3%
Commerce	2,482.3	55.1%
Cudahy	27.4	0.6%
Montebello	241.3	5.4%
South Gate	129.8	2.9%
Unincorporated	408.9	9.1%
Vernon	81.8	1.8%
Total	4,504.2	100.0%

- Drains 4,504 acres across three watersheds, comprised of 7 cities and a portion of the LA County.
- Diverts 97 AF of storm water per year
- Creates new open space and irrigate with storm water
- GHG reduction: 535 MT CO_2e over 40 yrs.
  - Reduce the Heat-Island Effect
  - Improve air quality and public health
- Job Creation (Long Beach Conservation Corp)

Cost & Schedule

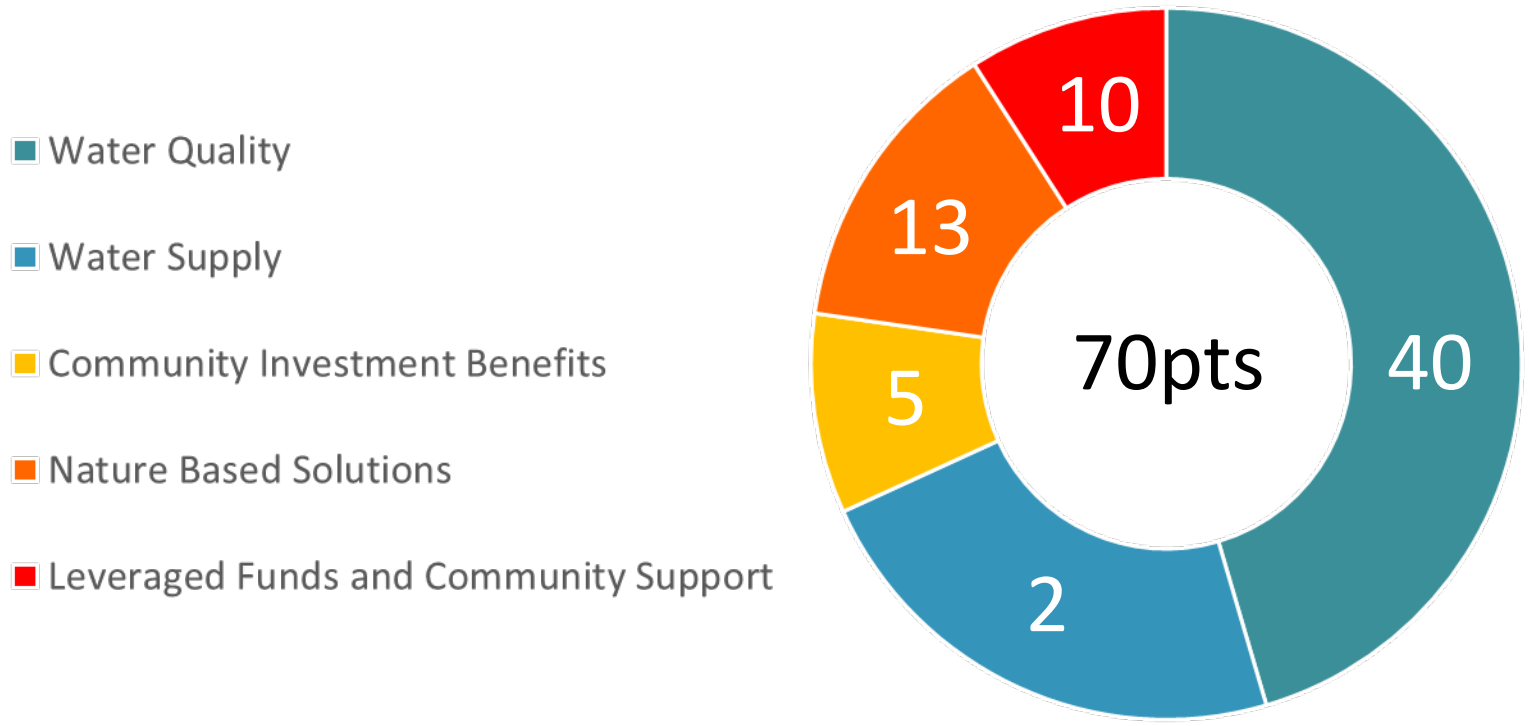
Phase	Description	Cost	Completion Date
Planning	Initial outreach, concept plan, pre-design monitoring	$325K	June/2018
Design	Full design through construction documents, bid and permitting	$1.24M	December/2020
Construction	Construction, including construction management	$23.03M	December/2022
TOTAL		**$24.6 M**	

- Project Lifespan of 25 years

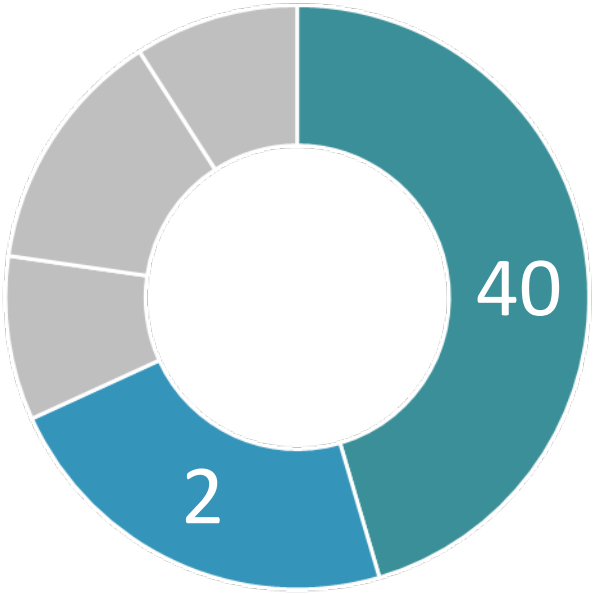
Funding Request

Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	$2.2M	Construction	Funding for construction and construction administration
2	$2.2M	Construction	Funding for construction and construction administration
3	$346K = $296K O&M + $50K Monitoring	O & M, Monitoring	O & M; Monitoring 1st year after construction
4	$346K	O & M, Monitoring	O & M; Monitoring 2nd year after construction
5	$346K	O & M, Monitoring	O&M; Monitoring 3rd year after construction
TOTAL	**$5.43M**		

Scoring Committee Score

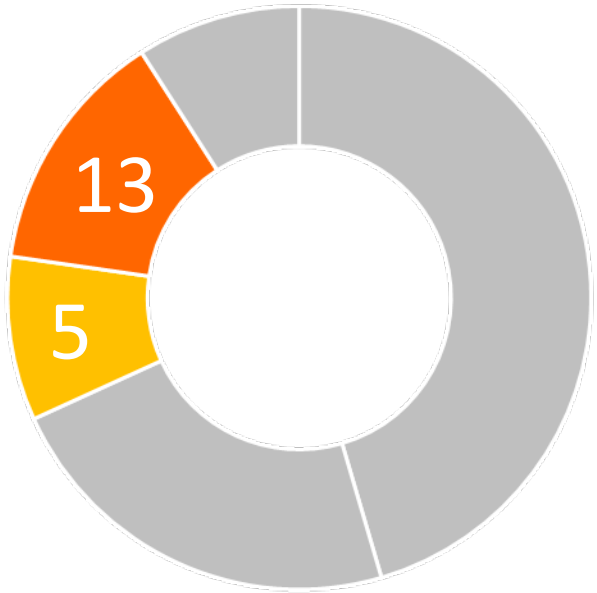


Water Quality & Water Supply Benefits



- Tributary Area:
  - 4,504.2 acre upstream area
- Diverted Water Supply Volume
  - 97 AF of water per year (or 31 million gallons of storm water)
- Reservoir Capacity: 4.1 acre feet
  - 2.3 AF storage
  - 1.8 AF wetland
- Pollutant Reduction
  - 27 pounds of zinc per year
  - 33,000 pounds of suspended solids per year
- Water Supply Use:
  - Irrigation of approx. 70% of the site

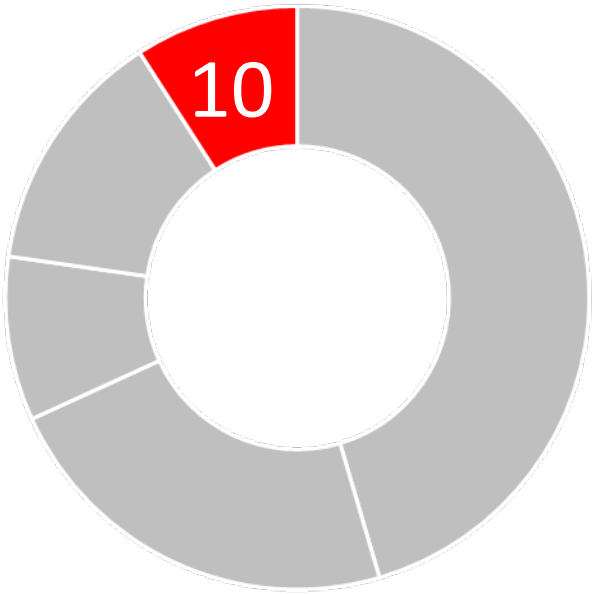
Community Investment Benefits and Nature Based Solutions



- Community Investment Benefits
  - Activate a vacant site
  - Provide health benefits
  - Provide recreational benefits
  - Provide youth employment opportunities

- Nature Based Solutions
  - Diversion of storm water for irrigation
  - Constructed wetland system and stream system
  - Nature base play elements
  - Planting of trees and native plant species
  - Bio swale to direct runoff and storm water back to the wetland for processing

Leveraging Funds and Community Support



- Leveraging Funds
  - Rivers & Mountains Conservancy, $845K
  - State Water Resources Control Board, $7.9M
  - Land and Water Conservation Fund, $3M
  - Rivers & Mountains Conservancy, $3.58 ($1.38M +$2.2M)

- Community Support
  - Since 2017 have held 40 outreach events
    - Community meetings, focus groups, tabling events,
    - Engaged over 986 community members


Questions?