

Safe, Clean Water Program

Lower San Gabriel River

Watershed Area Steering Committee (WASC)



Meeting Minutes:

Tuesday, January 28, 2020

9:00am-11:00am

Burns Community Center, 2nd floor

5510 Clark Ave. Lakewood, CA

Attendees:

Committee Members Present:

Julian Juarez (LA County Flood Control District)
Lyndsey Bloxom* (Water Replenishment District)
Meredith Reynolds (City of Long Beach)
Kristen Ruffell (Sanitation Districts)
Dan Knapp (Conservation Corps of Long Beach)
Adam Galia (Resident)
Joseph Gonzalez* (Rivers Mountains Conservancy)

Mike O'Grady (Cerritos)
Delfino Consunji (Downey)
Lisa Ann Rapp (Lakewood)
Melissa You (Long Beach)
Noe Negrete (Santa Fe Springs)
Vicki Smith (Whittier)

Committee Members Not Present:

Michelle Yanez (San Gabriel Valley Economic Partnership)
Glen Kau (Norwalk)

Marissa Christiansen (Friends of the LA River)
Kevin Wattier (Central Basin)

*Committee Member Alternate

See attached sign-in sheet for full list of attendees

1. Welcome and Introductions

Ms. Rapp, the Chair of the Lower San Gabriel River WASC, called the meeting to order.

All committee members made self-introductions and quorum was established.

2. Public Comment Period

No public comment.

3. Approval of Meeting Minutes from January 14, 2020

The Los Angeles County Flood Control District (District) provided a copy of the meeting minutes from the previous meeting. Ms. Rapp asked the committee members for comments or revisions. The committee had no comments.

The Committee voted to approve the meeting minutes from January 14, 2020 (12 approved, 1 abstained)

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Lower San Gabriel River

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4. Committee Member and District Updates

Mr. Kevin Kim (District) provided clarification on the Technical Resources Program, a summary of the new Ex Parte and COI Q&A guideline document, and a summary of the scoring progress so far by the Scoring Committee (SC).

The District clarified that the Regional Oversight Committee meetings are open to the public and the 5-year expenditure projections for each project will be provided at the next meeting.

5. Discussion Items:

a. IP: Bolivar Park, Caruthers Park and Mayfair Park (City of Lakewood & City of Bellflower)

Presentation by John Hunter. Three Projects in the Los Cerritos portion of the LSG River Watershed Management Area received Cal Trans Funding totaling \$38 million. These include Bolivar Park, Caruthers Park, and Mayfair Park Projects. All construction cost have been covered by Cal Trans Funding. The cities of Bellflower (Caruthers) and Lakewood (Bolivar and Mayfair) are requesting funding for Operations, Maintenance and Monitoring.

Mr. Knapp asked how the cities planned to fund O&M had Measure W not passed. Mr. Hunter stated that the expenses would be divided based on city jurisdiction within the tributary area.

Mr. Juarez requested clarification on the funding requests. Mr. Hunter noted that the values provided are a combination of projected and actual O&M costs and will be refined as the project progresses. Mr. Juarez also requested clarification of DAC benefits. Mr. Hunter stated that the parks are not directly located in a DAC, but the tributary area of all three projects includes DACs.

Mr. Hunter clarified that the Stormwater Investment Plan would program funds for 5 years, but funding would be requested for subsequent years to sustain O&M activities. The cities may consider leveraging Municipal funds after the initial 5-year period. Periodic pump replacement may also be necessary, but because unused funds must be returned after 5 years, the cities would request additional funding at a later date. 100% of the construction costs were paid for by Caltrans. Mr. Hunter also noted a minor discrepancy with the initial request due to a mathematical error.

The committee discussed information regarding community investment benefits and nature-based solutions. Mr. Hunter clarified that the project would involve replacing play areas, replacing picnic shelters, providing ADA access, additional trees and shrubs, and LID improvements in the parking areas. The applicant is also currently in discussion with the Long Beach Conservation Corp regarding workforce development opportunities.

The committee asked for information regarding drainage area by municipality. The applicant provided the following information:

Bolivar Park		
Jurisdiction	Area (acres)	Percentage Area (%)
Bellflower	219	7%
Downey	233	8%
Lakewood	892	30%
Long Beach	810	27%
Paramount	863	29%
Total	3,018	100%

Safe, Clean Water Program

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Caruthers Park		
Jurisdiction	Area (acres)	Percentage Area (%)
Bellflower	1,276	40.7%
Downey	1,860	59.3%
Total	3,136	100%

Mayfair Park		
Jurisdiction	Area (acres)	Percentage Area (%)
Bellflower	1,723	75%
Downey	6	Neg'l%
Lakewood	407	18%
Paramount	164	7%
Total	2,300	100%

b. IP: El Dorado Park Regional Project (City of Long Beach)

Presentation by John Hunter. El Dorado Park is a regional park in the City of Long Beach along the San Gabriel River. This project's goal is to turn existing and unused open space into a constructed wetland and treat captured stormwater and urban runoff through the wetland. Additionally, a diversion to the sanitation district for recycled water reuse at the park will also be explored.

Ms. Rapp asked about the total construction cost. Mr. Hunter stated that the total construction cost is approximately \$12-13 million. The project cost does not include diversion to the adjacent water treatment facility and assumes water will be discharged back into the channel. The estimate also includes the environmental review process as it is not currently completed.

Ms. Bloxom asked for information regarding water quality and if a parking lot would be incorporated into the design to improve access to the site. Mr. Hunter stated that water quality concerns related to the adjacent advanced water treatment facility this will be investigated as part of the project. The project would be designed to treat bacteria and zinc in by incorporating pre-treatment measures at the diversion to remove the media for bacteria. Mr. Hunter also stated that a parking lot would be investigated as part of the outreach plan.

The committee asked for information regarding drainage area by municipality. The applicant provided the following information:

El Dorado Park		
Jurisdiction	Area (acres)	Percentage Area (%)
Artesia	439	15%
Cerritos	759	26%
Hawaiian Gardens	457	15.5%
Lakewood	680	23.3%
Long Beach	443	15.2%
Norwalk	146	5%
Total	2,924	100%

Safe, Clean Water Program

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The committee noted the challenges associated with the existing sewer infrastructure and recommended the applicant consider the integrity of the existing sewer infrastructure, the location of other potential utilities, and project phasing.

Ms. Bloxom asked if the wetlands would be perennial or intermittent. Mr. Hunter stated that the project could potentially include both but that it is currently unknown.

The committee discussed DAC benefits. Ms. Reynolds noted that the committee should consider areas utilized by DACs in addition to project located within a DAC. For example, a park may provide educational programs targeted toward DACs that could be tracked. Ms. Ruffell also asked if regulatory relief from MS4 compliance could be considered a DAC benefit.

c. Change of Committee Meeting Time

Lower Los Angeles River WASC changed their meeting location starting March but have not changed the meeting time. Therefore, the Lower San Gabriel River WASC will keep their current meeting time to accommodate extended meetings and travel time.

Ms. Ruffell recommended the committee consider an additional meeting or extending an existing meeting to accommodate the expedited schedule.

6. Voting Items:

None.

7. Items for next agenda

The District recommends the following items for the next agenda:

- Presentations from Infrastructure Program Project applicants.

Ms. Rapp solicited additional recommendations from the committee for the next agenda.

The next meeting was tentatively extended to 11:30am.

8. Adjournment

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

Lower San Gabriel River
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Joseph Gonzalez	Rivers Mountains Conservancy	Jgonzalez@rmc.ca.gov	A	
Mike O'Grady	Cerritos	mogrady@cerritos.us	P	
Rebecca Scott	Cerritos	rscott@cerritos.us	A	
Delfino Consunji	Downey	dconsunji@downeyca.org	P	
Dan Mueller	Downey	dmueller@downeyca.org	A	
Lisa Ann Rapp	Lakewood	lrapp@lakewoodcity.org	P	
Konya Vivanti	Lakewood	kvivanti@lakewoodcity.org	A	
Melissa You	Long Beach	Melissa.You@longbeach.gov	P	
Alvin Papa	Long Beach	Alvin.Papa@longbeach.gov	A	
Glen Kau	Norwalk	gkau@norwalkca.gov	P	
Noe Negrete	Santa Fe Springs	noenegrete@santafesprings.org	P	
Marlin Munoz	La Mirada	mmunoz@cityoflamirada.org	A	
Vicki Smith	Whittier	vsmith@cityofwhittier.org	P	
Kyle Cason	Whittier	kcason@cityofwhittier.org	A	
Hans Temme				

Lower San Gabriel River
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Julian Juarez	FCD	JJUAREZ@dpw.lacounty.gov	P	<i>Julian Juarez</i>
Carolina Hernandez	FCD	CHERNANDEZ@dpw.lacounty.gov	A	
Diane Gatza	Water Replenishment District	dgatza@wrd.org	P	
Lyndsey Bloxom	Water Replenishment District	lbloxom@wrd.org	A	<i>Lyndsey Bloxom</i>
Stephen Scott	City of Long Beach Parks and Recreation	Stephen.Scott@longbeach.gov	P	
Meredith Reynolds	City of Long Beach Parks and Recreation	Meredith.Reynolds@longbeach.gov	A	<i>Meredith Reynolds</i>
Kristen Ruffell	Sanitation Districts	kruffell@lacsds.org	P	<i>Kristen Ruffell</i>
Mike Sullivan	Sanitation Districts	msullivan@lacsds.org	A	
Kevin Wattier	Central Basin	kevinw@centralbasin.org	P	
Dan Knapp	Conservation Corps of Long Beach	dknapp@cclb-corps.org	P	<i>Dan Knapp</i>
Kayla Slatten	Conservation Corps of Long Beach	kkellyslatten@cclb-corps.org	A	<i>Kayla Slatten</i>
Adam Galia	Resident	agaliam81@gmail.com	P	<i>Adam Galia</i>
Thalia Campos	Center for Asian Americans United for Self Empowerment	thalis887@gmail.com	A	<i>Thalia Campos</i>
Michelle Yanez	San Gabriel Valley Economic Partnership	myanez@sgvpartnership.org	P	
Marissa Christiansen	Friends of the LA River	marissa@folar.org	P	
Mark Stanley	Rivers Mountains Conservancy	mstanley@rmc.ca.gov	P	

Lower San Gabriel River
 Watershed Area Steering Committee Meeting
 PUBLIC SIGN-IN



First Name	Last Name	Municipality/Organization	Email Address
Veronica	Seepda	WSP	Veronica.Seepda@wsp.com
Oliver	Galang	Craftwater Engrg	oliver.galang@craftwaterinc.com
Tori	Klug	Stantec	tori.klug@stantec.com
Iwen	Tseng	LACPW	
Fred	Gonzalez	LACFCD	fgonzalez@w-la-county.gov
Melanie	Morita	LACFCD	
Kevin	Kim	LACFCD	
Michelle	Kim	JLHA	
John	Hunter	JLHA	
Bryce	Lee	JLHA	
Hans	Tremmel	Weston Solutions	hans.tremmel@westonsolutions.ca
Janet	Rodriguez	Inland Engineering Co	InlandEngineer@gmail.com

*Signing or completing this form is voluntary for members of the public

Bolivar Park, Caruthers Park, & Mayfair Park Regional Stormwater Projects

Presented by John Hunter

Lower San Gabriel River Watershed Area Steering Committee

January 28, 2020

Caruthers Park Overview



- Project Lead: City of Bellflower
- Caruthers Park is a community park in the City of Bellflower
- Upon completion, the project will consist of:
 - Storm drain diversion and pretreatment systems
 - 9.1 acre-foot subsurface storage and infiltration reservoir
 - Stormwater harvesting unit
 - Park facility enhancements
- The project will have a capture area of 3,256 acres
- Construction is anticipated to be complete in late 2020

Description	Frequency	No. of Times per Year	Unit Price	Total
Common Maintenance Items				\$3,300
Vacuum Truck Rental	Bi-monthly	6	\$550	\$3,300
Channel Diversion and Pretreatment				\$30,000
Rubber Dam System – Inspection and Cleaning	Monthly	12	\$750	\$9,000
Diversion Structure – Inspection and Cleaning	Monthly	12	\$250	\$3,000
Pretreatment Device – Vacuum	Monthly	12	\$1,500	\$18,000
Pump Station - Irrigation				\$37,775
Dry Season Inspection and Cleaning (Vacuum)	Every other Month	3	\$750	\$2,250
Wet Season Inspection and Cleaning (Vacuum)	As needed	6	\$750	\$4,500
Electrical Usage	Monthly	12	\$300	\$3,600
Valve Maintenance	As needed	1	\$1,000	\$1,000
Control Panel Maintenance	As needed	1	\$1,000	\$1,000
Pump Replacement	Every 20 Years	1	\$25,425	\$25,425
Storage				\$16,000
Dry Season Inspection and Cleaning (Vacuum)	Quarterly	2	\$4,000	\$8,000
Wet Season Inspection and Cleaning (Vacuum)		2	\$4,000	\$8,000
Water Treatment System - Irrigation				\$4,850
Replace Bag Filter	Every 6-12	8	\$150	\$1,200
Replace UV Bulbs	Annually	1	\$300	\$300
Inspection	Annually	1	\$350	\$350
Electrical Usage	Monthly	12	\$250	\$3,000
Active Controls				\$57,400
Continuous Monitoring and Adaptive Control (Opti System)	Continuous	--	\$32,400	\$32,400
Continuous Monitoring and Adaptive Control (Overall System)	Continuous	--	\$25,000	\$25,000
Total				\$149,325

Caruthers Park Funding Requested

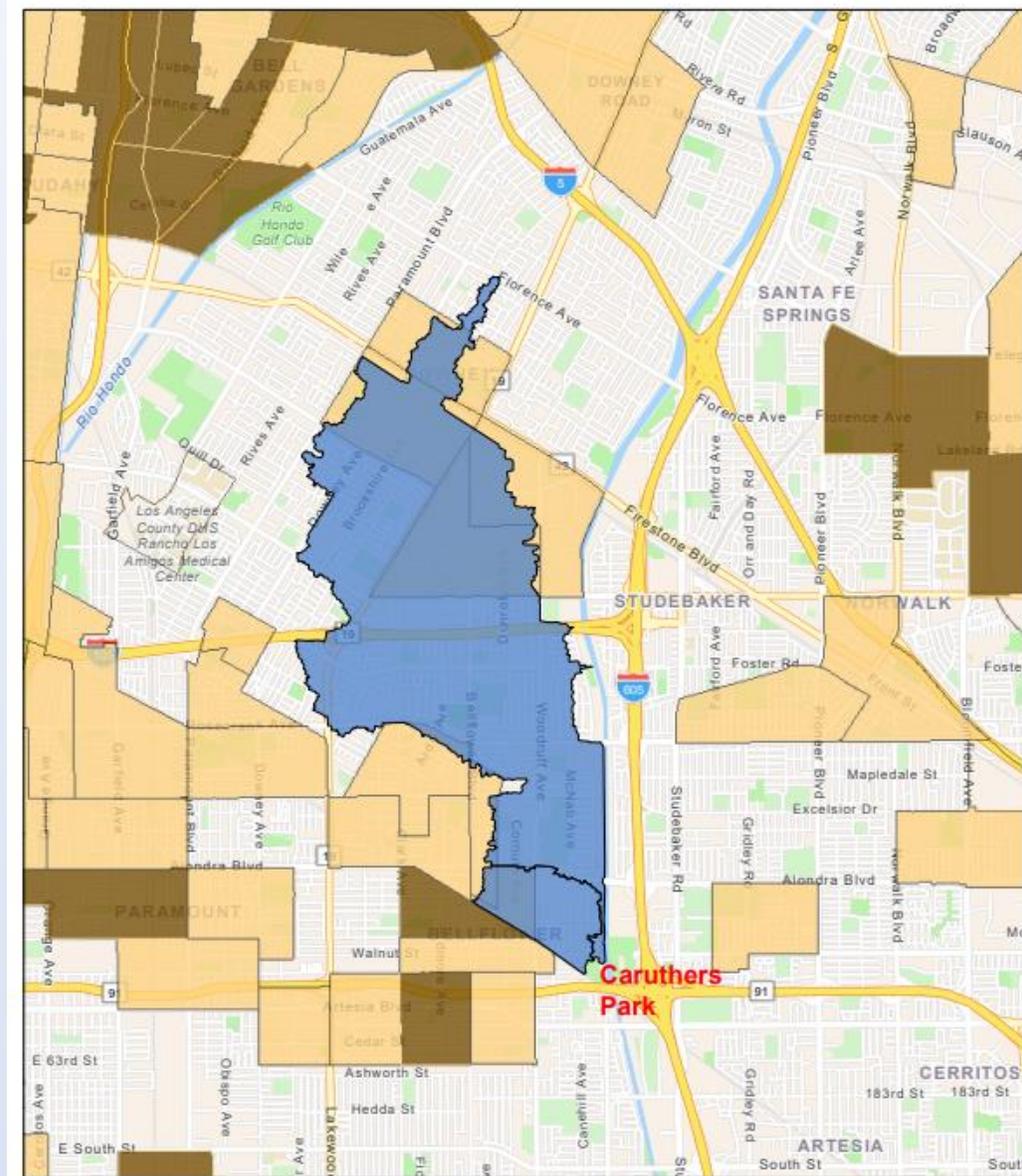
Total: \$845,000

- FY 20-21: \$121,000
- FY 21-22: \$181,000
- FY 22-23: \$181,000
- FY 23-24: \$181,000
- FY 24-25: \$181,000

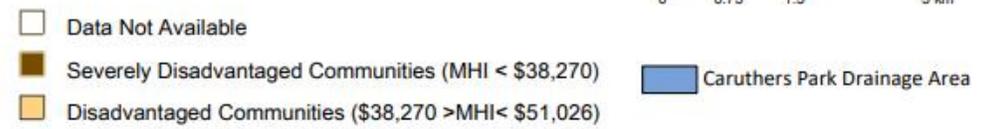
Estimates above do not include operation (\$15,000/year) or monitoring (\$17,000/year)

Caruthers Park Benefits

- Improved water quality and elimination of dry weather flow
- Increased water supply via water harvesting unit
- Improved flood risk mitigation/management
- Neighborhood greening
- Increased recreational opportunities and enhanced park facilities
- Reduced heat island effect

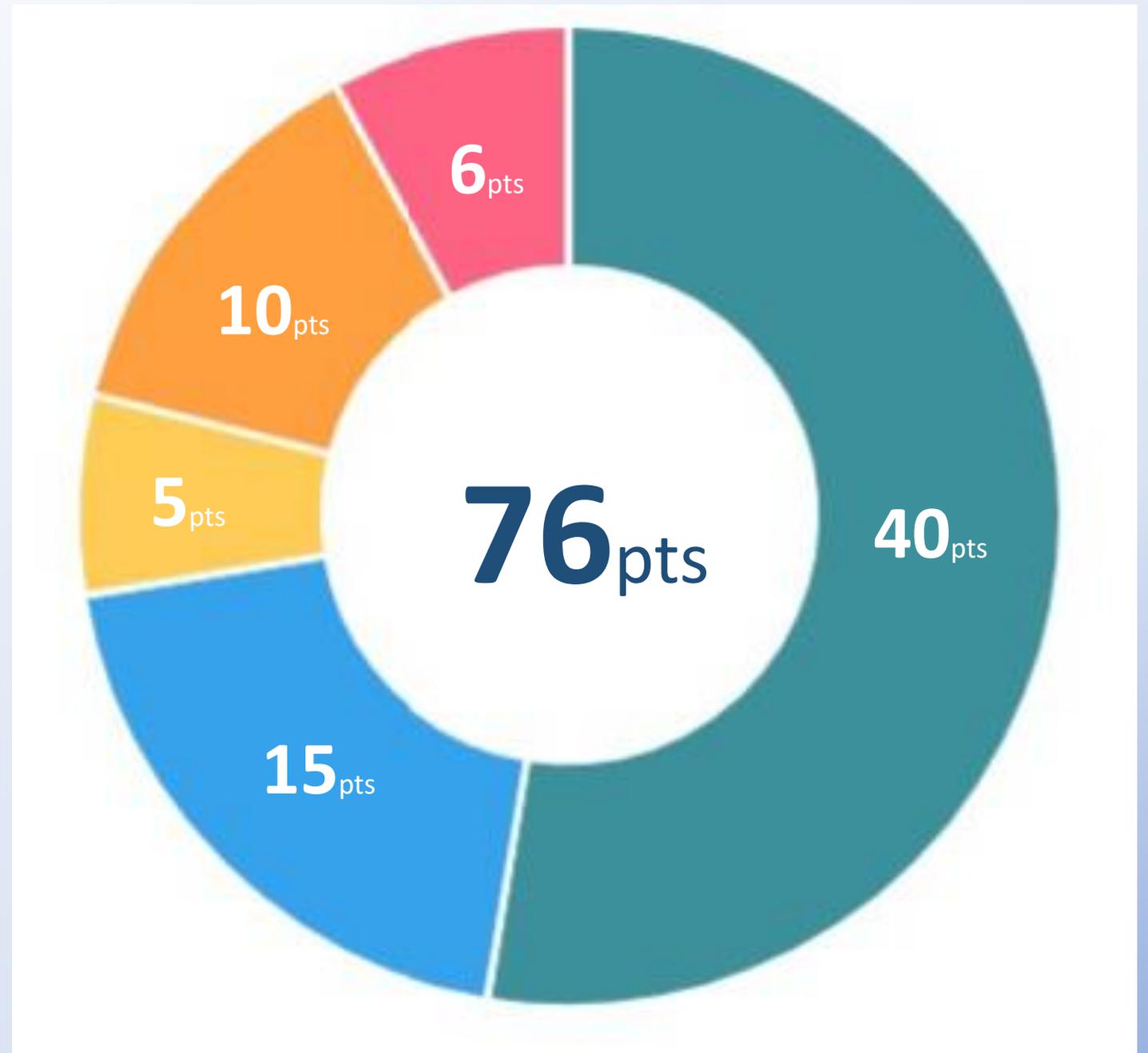


Disadvantaged Communities - Tract 2016

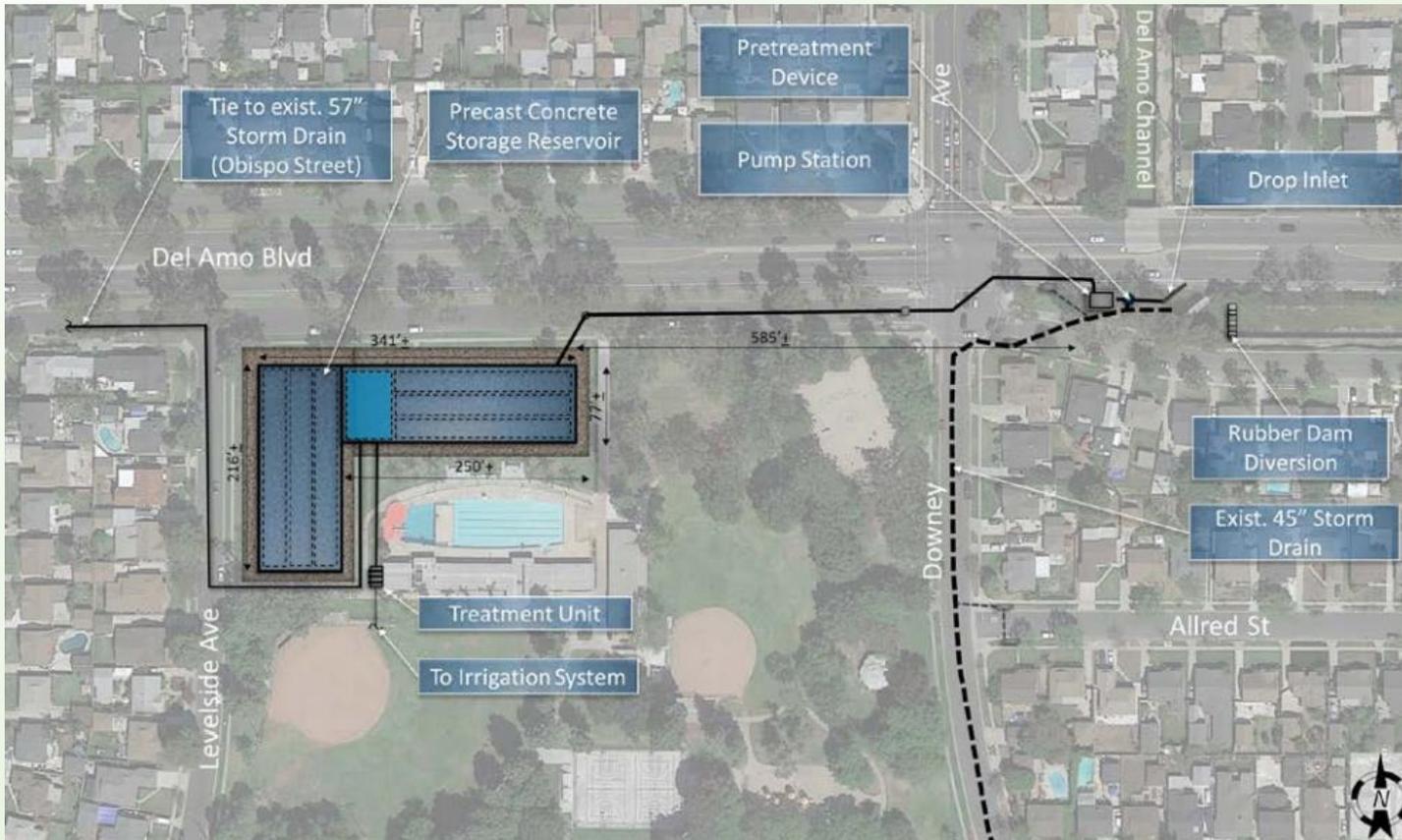


Caruthers Park Scoring Summary

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



Bolivar Park Overview



- Project Lead: City of Lakewood
- Bolivar Park is a community park in the City of Lakewood
- The project consists of a wet and dry weather runoff capture and infiltration reservoir
- Runoff is currently being intercepted from the Del Amo Channel near Verdura Avenue via a dam
- The project has a capture area of 3,018 acres
- Ribbon-cutting occurred in June 2018



Bolivar Park - Annual Operations & Maintenance Cost Estimates

Description	Frequency	# of Times per Year	Unit Price	Total
Common Maintenance Items				\$2,200
Vacuum Truck Rental	Monthly	4	\$550	\$2,200
Active Controls				\$57,400
Continuous Monitoring and Adaptive Control	Continuous	-	\$32,400	\$32,400
Continuous Monitoring and Adaptive Control (SCADA Overall)	Continuous	-	\$25,000	\$25,000
Channel Diversion and Pretreatment				\$30,000
Rubber Dam and Channel - Inspection and Cleaning	Monthly	12	\$1,000	\$12,000
Pretreatment Device - Vacuum	Monthly	12	\$1,500	\$18,000
Pump Station				\$37,775
Dry Season Inspection and Cleaning (Vacuum)	Every other month	3	\$750	\$2,250
Wet Season Inspection and Cleaning (Vacuum)	As needed	6	\$750	\$4,500
Electrical Usage	Monthly	12	\$300	\$3,600
Valve Maintenance	As needed	1	\$1,000	\$1,000
Control Panel Maintenance	As needed	1	\$1,000	\$1,000
Pump Replacement (Annualized Cost)	Every 20 years	1	\$25,425	\$25,425
Storage				\$16,000
Dry Season Inspection and Cleaning (Vacuum)	Quarterly	2	\$4,000	\$8,000
Wet Season Inspection and Cleaning (Vacuum)	Quarterly	2	\$4,000	\$8,000
Water Treatment System				\$7,850
Replace Bag Filter	Every 6-12 weeks	8	\$150	\$1,200
Replace UV Bulbs	Annually	1	\$300	\$300
Inspection	Annually	1	\$350	\$350
Sampling and Analysis Plan	Every other month	6	\$500	\$3,000
Electrical Usage	Monthly	12	\$250	\$3,000
Labor				\$32,000

TOTAL **\$183,225**

Bolivar Park Funding Requested

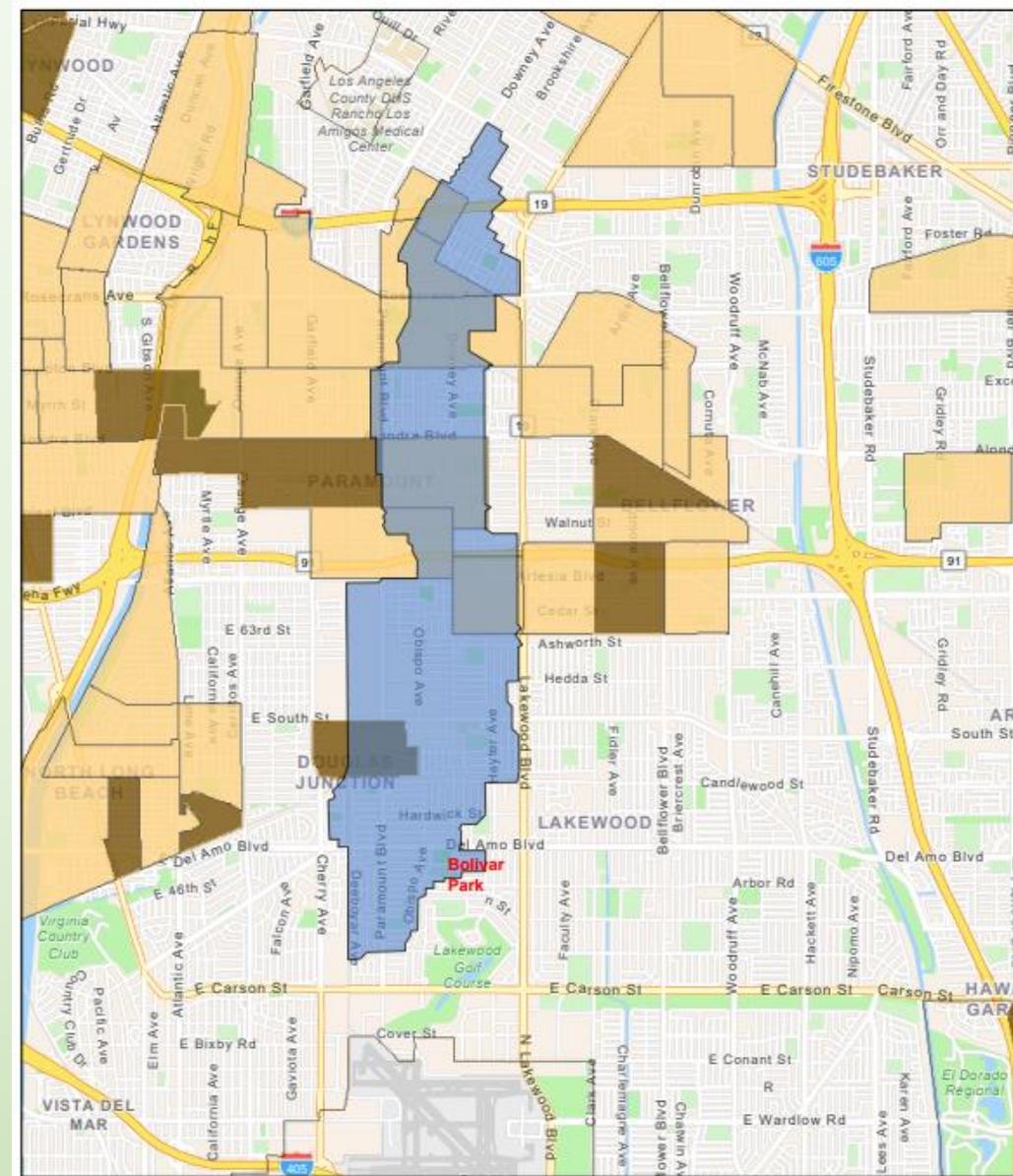
Total: \$1,265,900

- FY 20-21: \$473,000
- FY 21-22: \$198,225
- FY 22-23: \$198,225
- FY 23-24: \$198,225
- FY 24-25: \$198,225

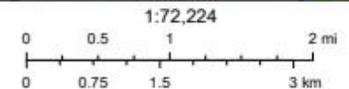
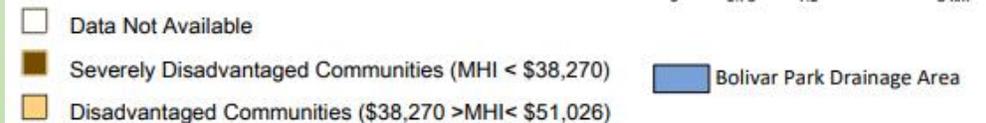
Estimates above do not include monitoring (\$15,000/year)

Bolivar Park Benefits

- Improved water quality through infiltration
- Increased water supply via water harvesting unit
- Neighborhood greening
- Increased recreational opportunities and enhanced park facilities
- Reduced heat island effect

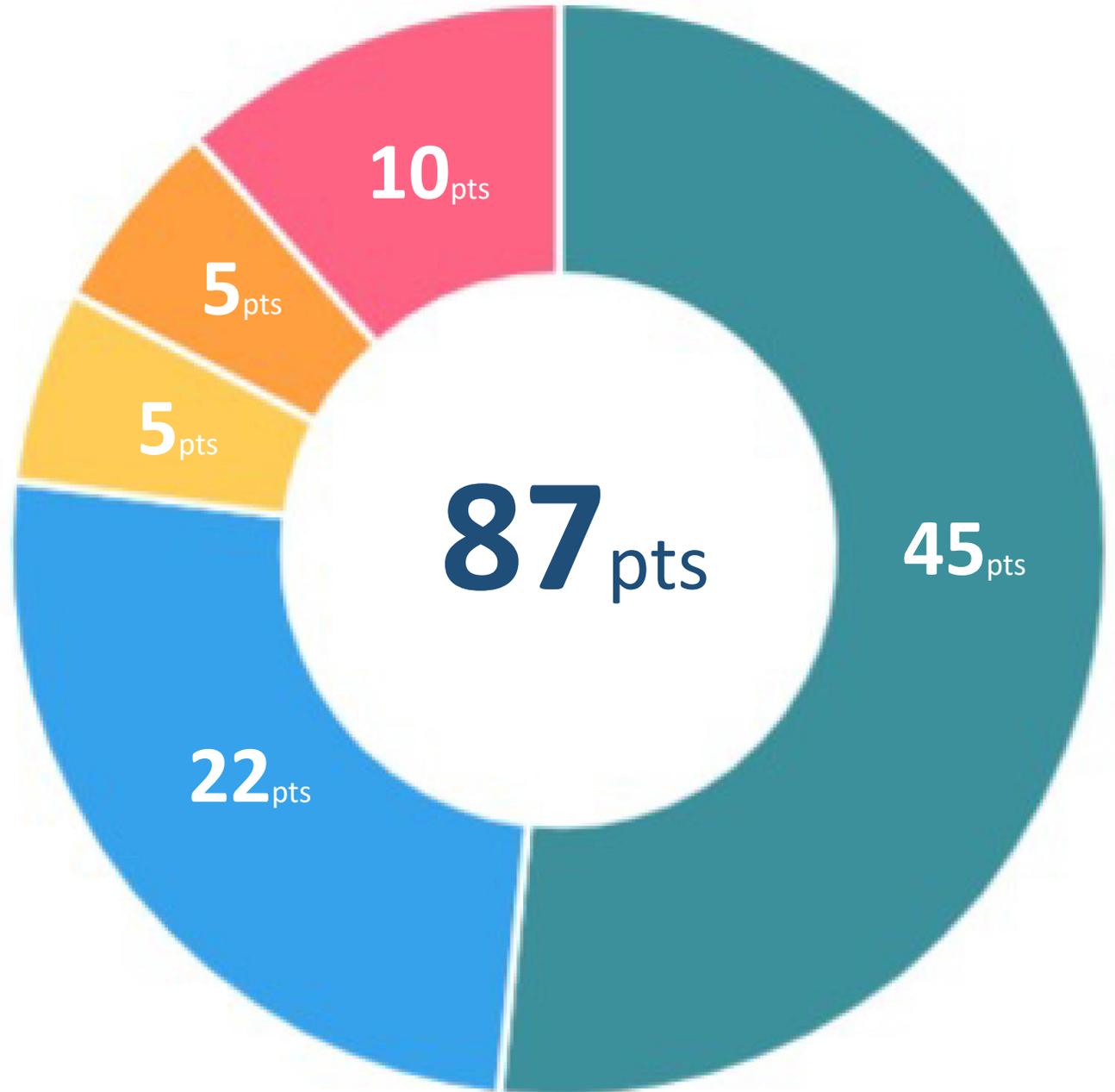


Disadvantaged Communities - Tract 2016



Bolivar Park Scoring Summary

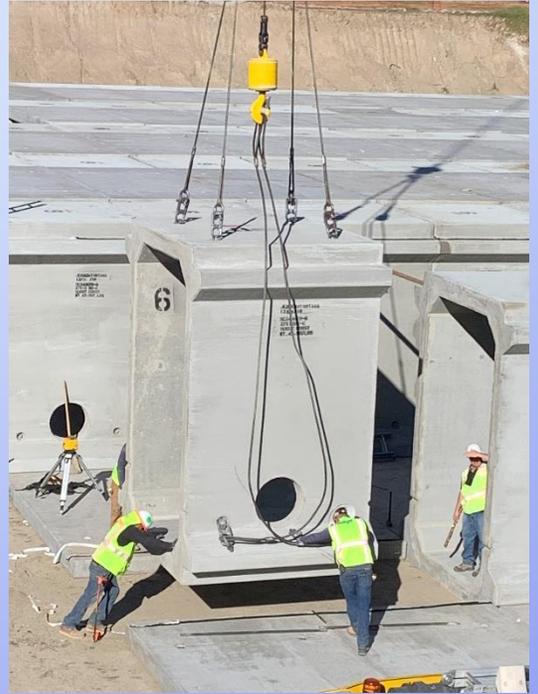
- Water Quality
- Water Supply
- Community Investment
- Nature-Based Solutions
- Funds and Community



Mayfair Park Overview



- Project Lead: City of Lakewood
- Mayfair Park is a community park in the City of Lakewood
- The project consists of:
 - Pretreatment
 - Stormwater pumps
 - Storage reservoir
 - Filter system for water reuse
- The project will be capable of capturing/treating 100% of the dry weather flow in the Clark Channel and a substantial portion of wet weather flows
- The project has a capture area of 2,301 acres
- Major construction is complete; completion is anticipated for June 2020



Mayfair Park - Annual Operations & Maintenance Cost Estimates

Description	Frequency	No. of Times per Year	Unit Price	Total
Common Maintenance Items				\$2,200
Vacuum Truck Rental	Monthly	4	\$550	\$2,200
Active Controls				\$57,400
Continuous Monitoring and Adaptive Control	Continuous	-	\$32,400	\$32,400
Continuous Monitoring and Adaptive Control (SCADA Overall)	Continuous	-	\$25,000	\$25,000
Channel Diversion and Pretreatment				\$30,000
Rubber Dam and Channel - Inspection and Cleaning	Monthly	12	\$1,000	\$12,000
Pretreatment Device - Vacuum	Monthly	12	\$1,500	\$18,000
Pump Station				\$37,775
Dry Season Inspection and Cleaning (Vacuum)	Every other month	3	\$750	\$2,250
Wet Season Inspection and Cleaning (Vacuum)	As needed	6	\$750	\$4,500
Electrical Usage	Monthly	12	\$300	\$3,600
Valve Maintenance	As needed	1	\$1,000	\$1,000
Control Panel Maintenance	As needed	1	\$1,000	\$1,000
Pump Replacement (Annualized Cost)	Every 20 years	1	\$25,425	\$25,425
Storage				\$16,000
Dry Season Inspection and Cleaning (Vacuum)	Quarterly	2	\$4,000	\$8,000
Wet Season Inspection and Cleaning (Vacuum)	Quarterly	2	\$4,000	\$8,000
Water Treatment System				\$7,850
Replace Bag Filter	Every 6-12 weeks	8	\$150	\$1,200
Replace UV Bulbs	Annually	1	\$300	\$300
Inspection	Annually	1	\$350	\$350
Sampling and Analysis Plan	Every other month	6	\$500	\$3,000
Electrical Usage	Monthly	12	\$250	\$3,000
Sanitary Sewer Discharge				\$70,000
Annual Sanitary Sewer Discharge (based upon 280 acre-feet estimated dry weather capture, 50% reduction in COD and TSS values and off-peak discharges, plus 15% permit administration)	-	1	\$70,000	\$70,000
Labor				\$32,000
TOTAL				\$253,225

Mayfair Park Funding Requested

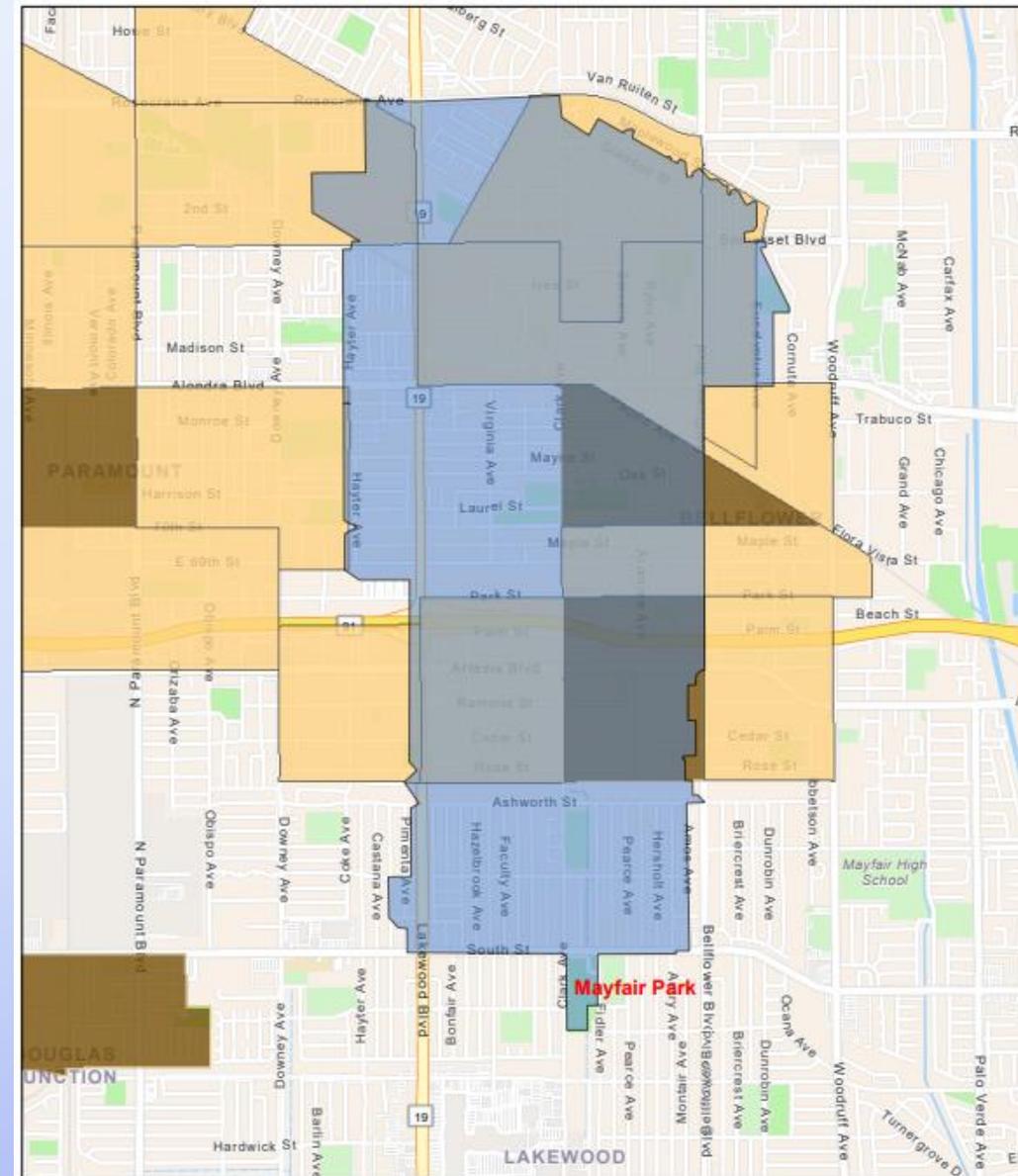
Total: \$1,226,125

- FY 20-21: \$253,225
- FY 21-22: \$253,225
- FY 22-23: \$253,225
- FY 23-24: \$253,225
- FY 24-25: \$253,225

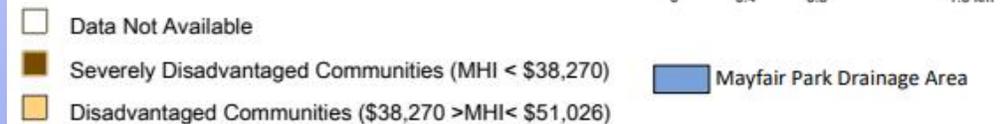
Estimates above

Mayfair Park Benefits

- Improved water quality via treatment facility
- Increased water supply via water harvesting unit
- Neighborhood greening
- Increased recreational opportunities and enhanced park facilities (including sports fields)
- Reduced heat island effect

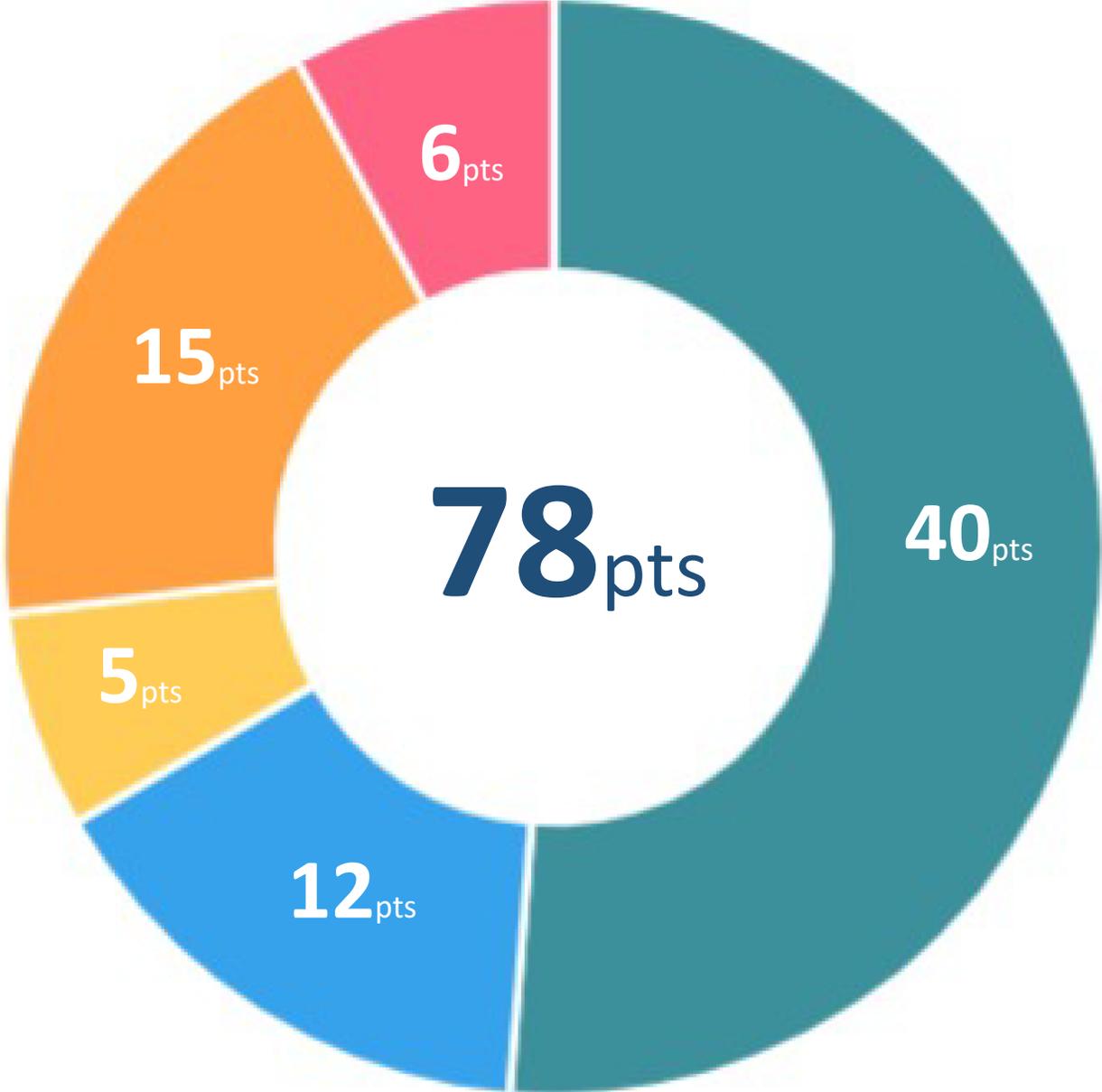


Disadvantaged Communities - Tract 2016



Mayfair Park Scoring Summary

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



Summary

- **Caruthers Park**
 - Project Lead: City of Bellflower
 - Total Funding Requested: \$845,000
- **Bolivar Park**
 - Project Lead: City of Lakewood
 - Total Funding Requested: \$1,265,900
- **Mayfair Park**
 - Project Lead: City of Lakewood
 - Total Funding Requested: \$1,226,125

Questions?

El Dorado Regional Project

(Total Funding Requested: \$3,000,000)

City of Long Beach | Presented by John Hunter

Lower San Gabriel River Watershed Area Steering Committee

January 28, 2020

Lower San Gabriel River Watershed Management Program

June 12, 2015

*1st Adaptive Management
Revisions: August 25, 2017*



Prepared For:

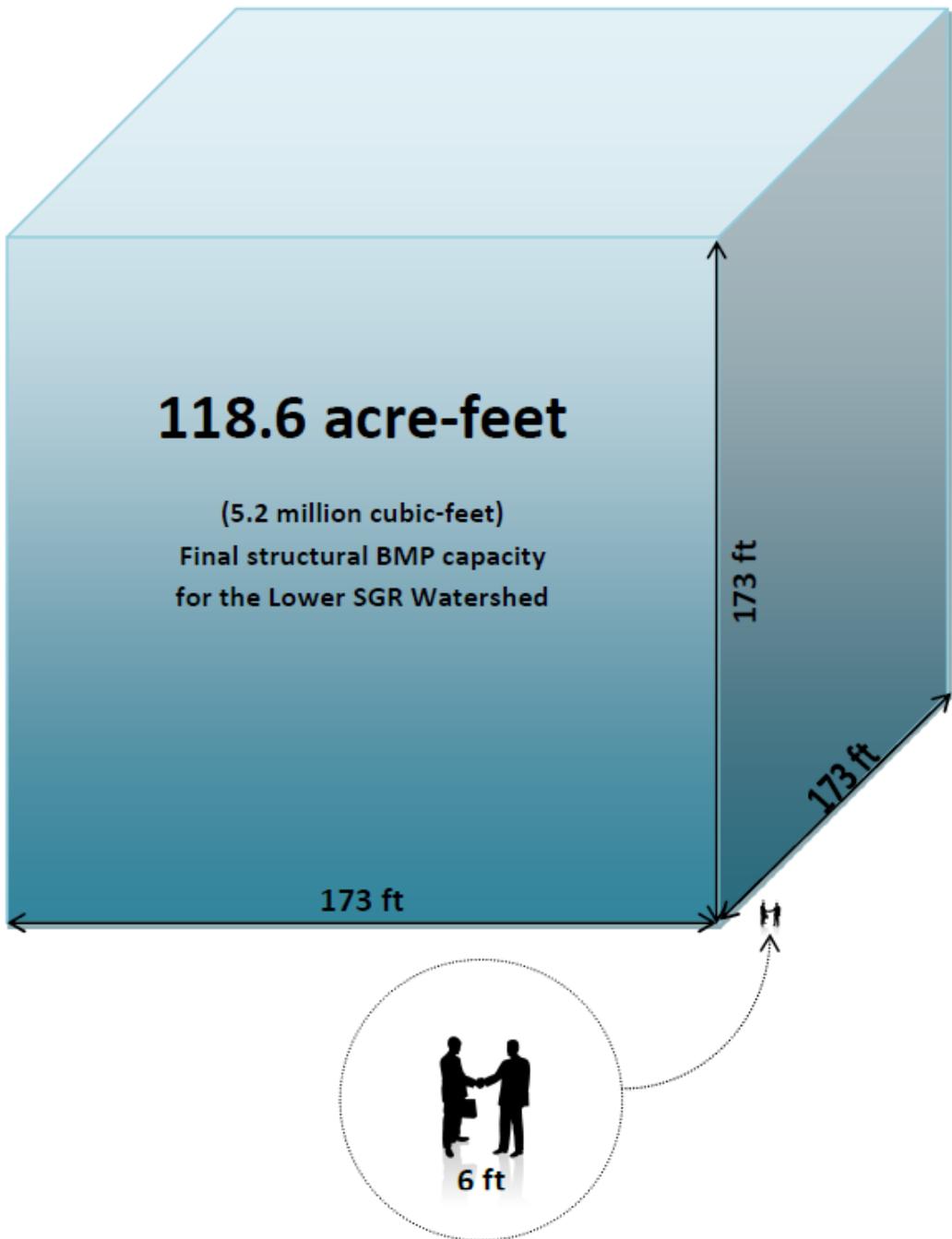
Lower San Gabriel River Watershed Group

Prepared By:



Lower San Gabriel River Watershed Management Program (LSGR WMP)

- Conditionally approved on April 28, 2015 and subsequently approved on July 21, 2015
- Consists of the following permittees: Artesia, Bellflower, Cerritos, Diamond Bar, Downey, Hawaiian Gardens, La Mirada, Lakewood, Long Beach, Norwalk, Pico Rivera, Santa Fe Springs, Whittier, Los Angeles County Flood Control District
- Outlines the path to achieving compliance with MS4 Permit

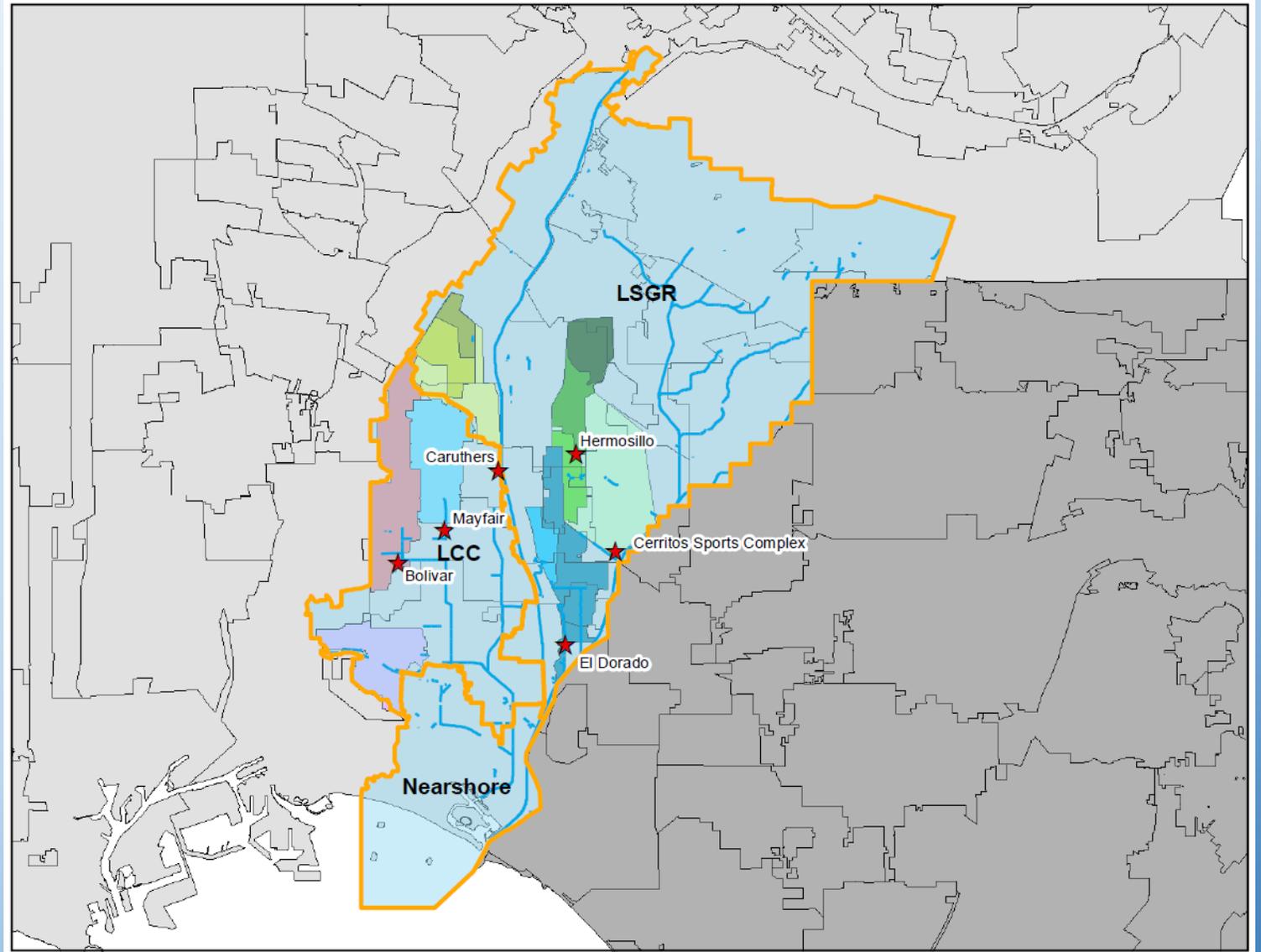


Volume Capture Milestones

- The modeling done to develop the LSGR WMP found that the total structural BMP capacity needed to comply with water quality limits in the LSGR Watershed is **118.6 acre-feet**
- This volume capture milestone is split between:
 - San Gabriel River
 - Coyote Creek

LSGR Corridors

- The LSGR WMP identified ideal locations for regional projects designed to address water quality objectives, including El Dorado Regional Park (East)
- Sites were assessed based on an array of factors including land use, area, tributary area, and maximum design capture volume

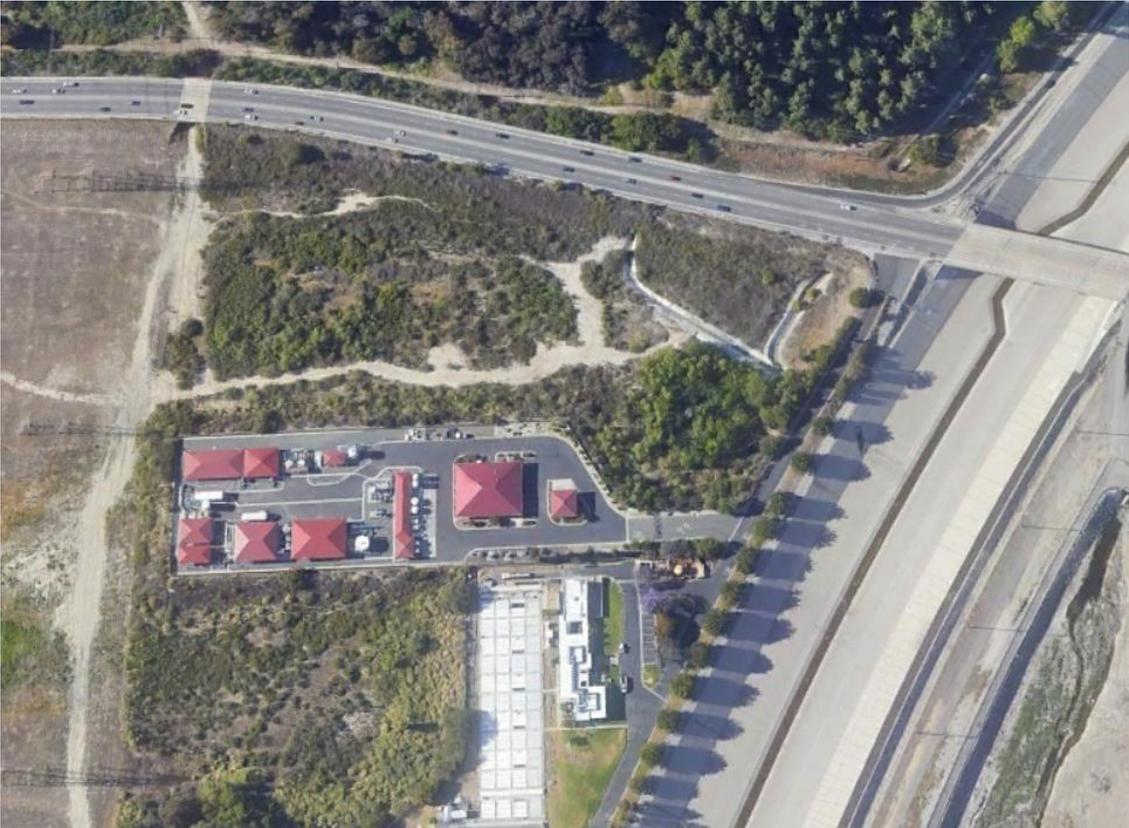


Overview

- Project Lead: City of Long Beach
- El Dorado Regional Park is a large community park and recreational hub in the City of Long Beach
- The project will entail the development of an expansive 13.9 acre-foot treatment wetland system consisting of a series of seven hydraulically connected pools
- Both dry and wet weather flows from the Cities of Long Beach, Artesia, Cerritos, Hawaiian Gardens, Lakewood, and Norwalk will be intercepted, treated, and partially captured prior to discharge to Coyote Creek
- Diversion to the Long Beach Water Reclamation Plant may be feasible and will be further explored
- The project has a drainage area of 2,924 acres

The water treatment design will entail two major tasks:

- 1. Get runoff to the park



2. Treat the water at the park

Wetland Maximum Pool Elevation 4 Foot Depth



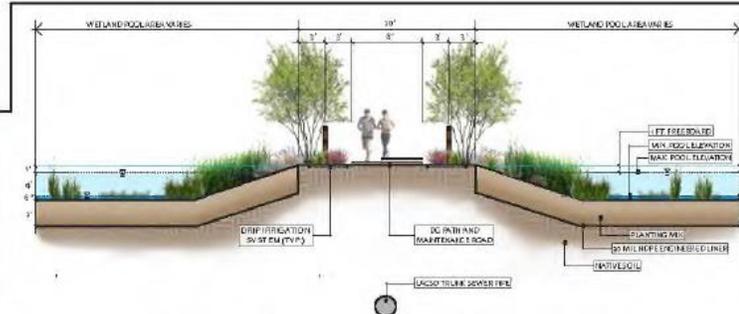
Wetland Minimum Pool Elevation



Lodge Pole Fence



Pretreatment



CONSTRUCTED TREATMENT WETLANDS AND MULTI-BENEFIT PATHWAY

LEGEND

- Lodge Pole Fence
- D/G Pathway/Surface
- Concrete Equalization Culvert
- Project Boundary
- Landscape Areas (Not shown for Clarity)
- (E) Discharge Pipe to Channel

Landscape Plant List

Trees

California Wetland Vegetation

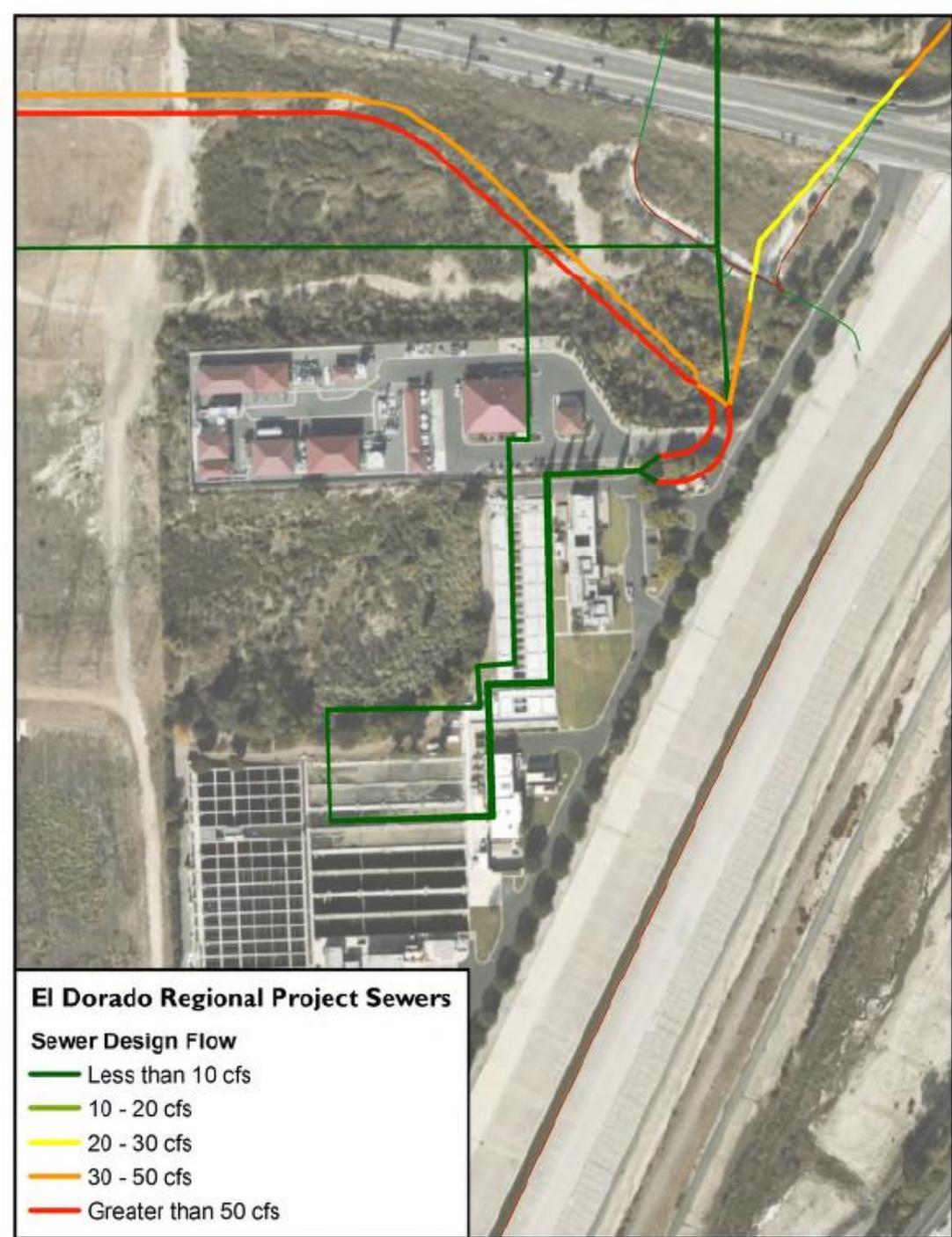


El Dorado Regional Project

Multi-Benefit Stormwater Capture Project

May 15, 2019





Current Site Condition

Although existing conditions look green, the area is highly disturbed

Funding Requested

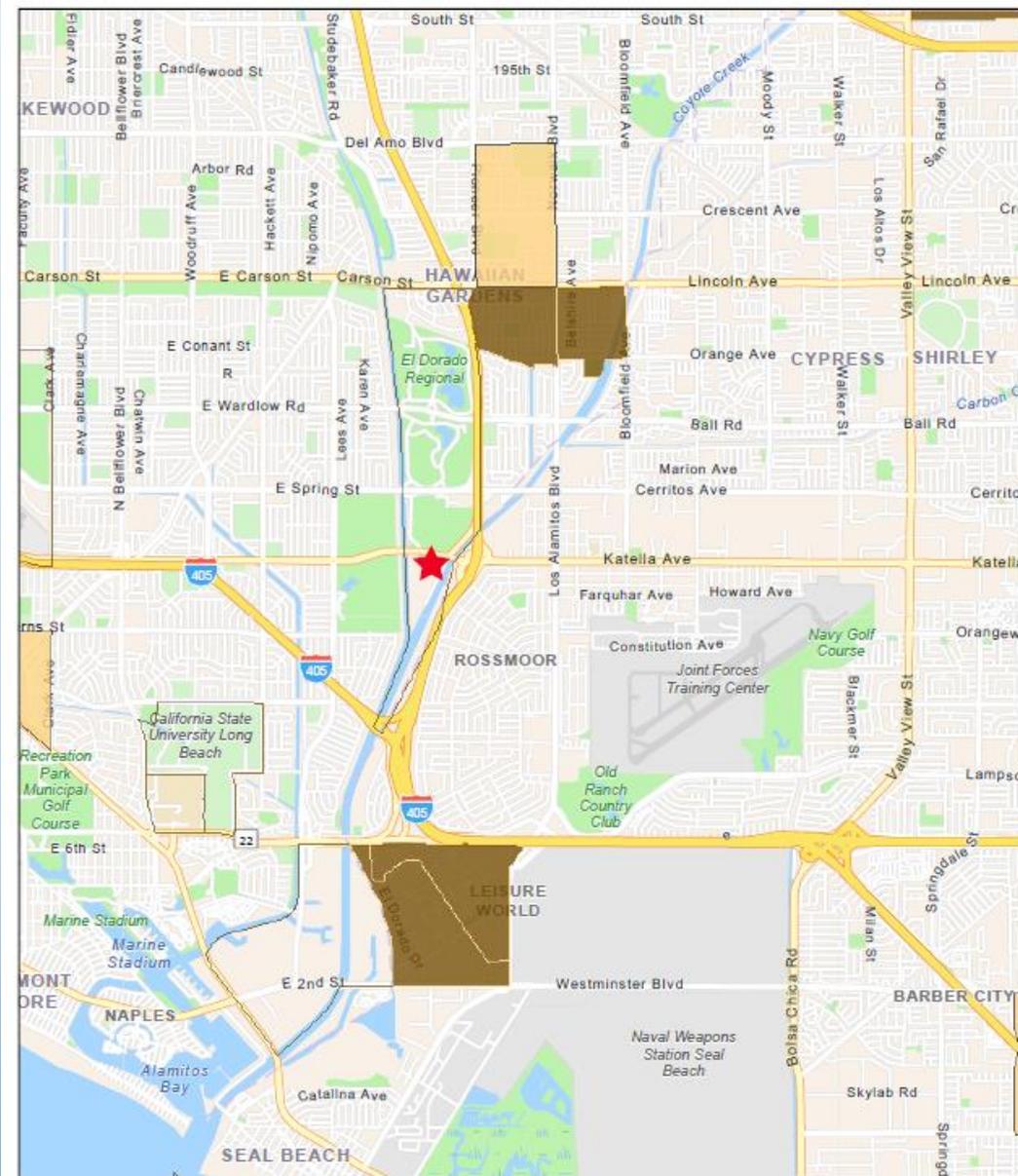
- The LSGR Watershed Management Group previously contributed \$100,000 for the development of 10% design plans and a preliminary design report; additional funds are being sought for planning and final design
- Total SCW Funding Requested for Planning and Design: **\$3,000,000**
 - FY 20-21: \$900,000
 - FY 21-22: \$1,500,000
 - FY 22-23: \$600,000
 - FY 23-24: - - -
 - FY 24-25: - - -

Water Quality & Supply Benefits

- The project will entail the development of expansive treatment wetlands with a storage capacity of 13.9 acre-feet
- The project will address total zinc as the primary pollutant and bacteria as the secondary pollutant (both identified in the LSGR WMP)
- A drainage area of 2,924 acres (of which 1,664 are impervious) will be served: dry and wet weather flows from the Artesia-Norwalk Drain will be intercepted, treated, and partially captured
- Water quality treatment will be accomplished through pre-treatment as well as runoff detention (and natural attenuation of pollutants and uptake by strategically-planted species)
- The capture and local non-potable use of dry weather flows may be feasible and will be further explored
- Diversion to the Long Beach Water Reclamation Plant may be feasible and will be further explored

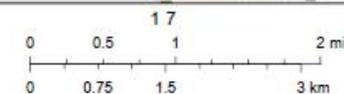
Community Investment Benefits & Nature Based Solutions

- Improved flood risk mitigation/management
- New/enhanced wildlife habitat and wetland space
- Improved access to waterways and increased recreational opportunities (e.g. trails, Nature Center improvements)
- Improved public health
- Reduced heat island effect
- Carbon sequestration



Disadvantaged Communities - Tract 2016

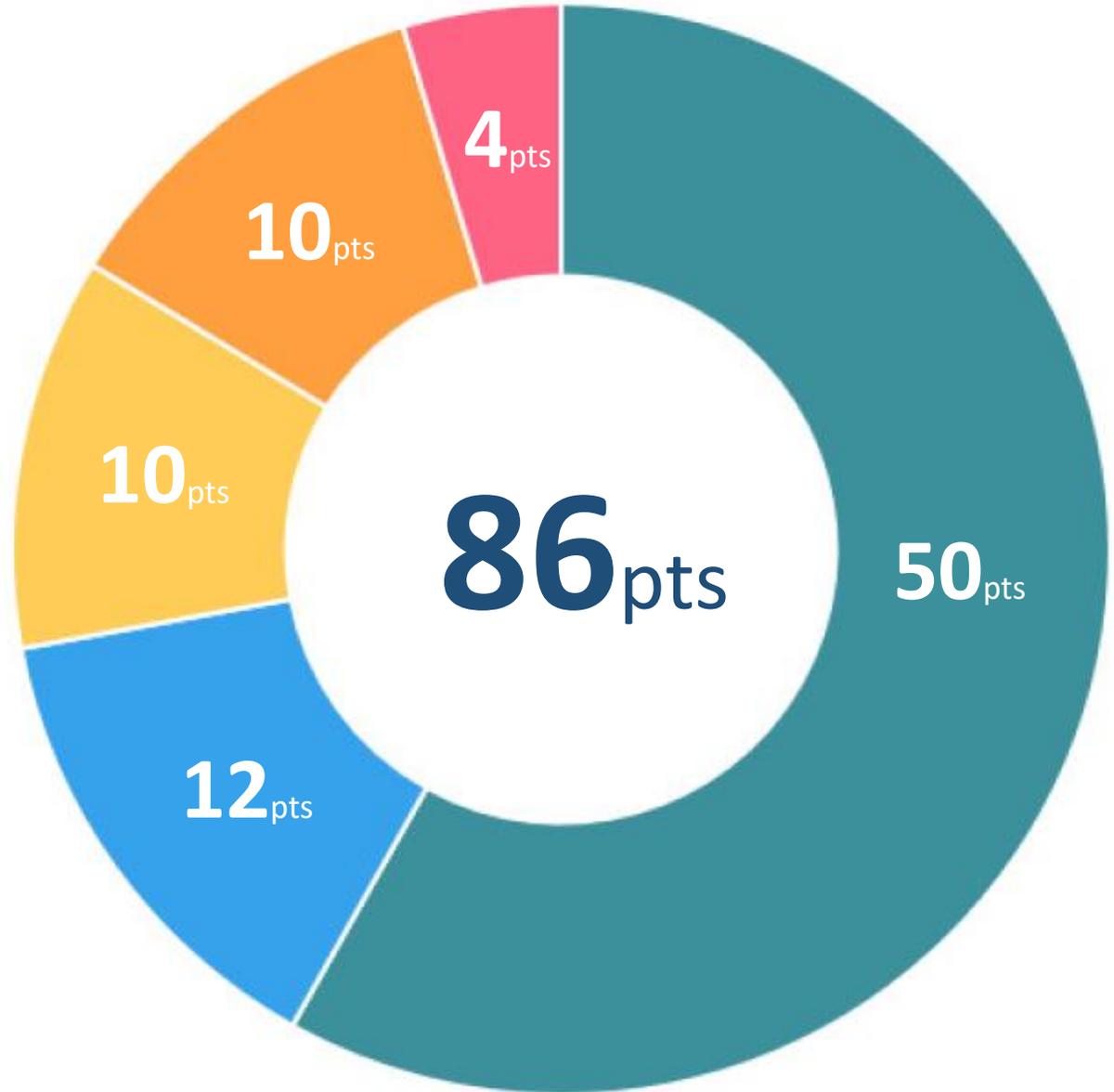
- Data Not Available
- Severely Disadvantaged Communities (MHI < \$38,270)
- Disadvantaged Communities (\$38,270 > MHI < \$51,026)



★ El Dorado Regional Project

Scoring Summary

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



Questions?