

Safe, Clean Water Program

Fiscal Year 2020-2021

Stormwater Investment Plan



Stormwater Investment Plan Upper Los Angeles River Watershed Area

The Stormwater Investment Plan (SIP) is an annual five (5) year plan developed by each Watershed Area Steering Committee (WASC) that recommends funding allocations for Projects and Programs in the Regional Program’s Infrastructure Program, Technical Resources Program, and Scientific Studies Program.

The purpose of the SIP is to capture recommended programming for the upcoming fiscal year as well as anticipated recommendations for the next four subsequent years.

The following sections include details regarding the recommended SIP:

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Attachments:

- Attachment A – Final Recommended SIP
- Attachment B – List of WASC members
- Attachment C – Summary of DAC Benefits
- Attachment D – Additional details for Infrastructure Program Projects
- Attachment E – Additional details for Technical Resources Program Projects
- Attachment F – Additional details for Scientific Studies

Please review the recommended SIP and select one of the following:

	Regional Oversight Committee (ROC) concurs with the recommended SIP as-is
	Refer to ROC meeting minutes for comments

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1 Summary of Stormwater Investment Plan Recommendations

The Upper Los Angeles River Watershed Area generates up to \$38.6M of anticipated annual Regional Program funds.

For Fiscal Year 2020-2021 (FY20-21), 12 Infrastructure Program Project applications, 5 Technical Resources Program Projects, and 5 Scientific Studies were submitted for consideration. After careful review and consideration, the WASC voted to include 12 Infrastructure Program Projects, 5 Technical Resources Program Projects, 3 Scientific Studies, and 3 Watershed Coordinators in the recommended SIP.

Below is a summary of the total funding allocated per year in the recommended SIP.

Funding Program	(FY 20-21) Budget	(FY 21-22) Projection	(FY 22-23) Projection	(FY 23-24) Projection	(FY 24-25) Projection	Future Funding	TOTAL (FY 20-25)
Infrastructure Program (≥85%)	\$24.14 M	\$31.63 M	\$14.50 M	\$11.88 M	\$9.50 M	\$0.38 M	\$91.65 M
Technical Resources Program (<10%)	\$2.20 M	\$0.60 M	\$0.60 M	\$0.60 M	\$0.60 M	\$0.00 M	\$4.60 M
Scientific Studies Program (<5%)	\$0.98 M	\$1.23 M	\$0.83 M	\$0.00 M	\$0.00 M	\$0.00 M	\$3.04 M
Grand Total	\$27.32 M	\$33.46 M	\$15.93 M	\$12.48 M	\$10.10 M	\$0.38 M	\$99.29 M
Percent Allocated*	71%	67%	29%	16%	10%		51%

*Includes any roll-over from prior years

Refer to Attachment A for the Final Recommended SIP.

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2 Summary of Meetings and Process

Refer to Attachment B for the list of WASC members.

2.1 Meeting Dates

- October 31, 2019
- December 12, 2019
- January 6, 2020
- January 22, 2020
- February 10, 2020
- February 24, 2020
- March 2, 2020
- March 12, 2020
- March 26, 2020 – Canceled
- April 30, 2020 – held virtually
- May 14, 2020 – held virtually
- May 28, 2020 – held virtually

2.2 Call for Projects

The Call for Projects FY 2019-2020 ended on December 15, 2019. After a check for completeness by District staff, the WASC received an overview of project submittals during the first meeting after the Call for Projects closed. The WASC discussed the Projects and accelerated timeline and voted to send all Infrastructure Projects to the Scoring Committee.

2.3 Scoring

The Scoring Committee evaluated each project submittal and provided an official score based on the scoring criteria defined in the [Feasibility Study Guidelines](#). All Regional Program Projects must meet the Threshold Score of 60 points or more to be eligible for consideration in the Infrastructure Program.

2.4 Presentations

The WASC received presentations from all Regional Program applicants that submitted complete proposals. Each presentation was allotted approximately 10 minutes of presentation time with 8 minutes for questions and answers; additional time for presentation or Q&A was accommodated when necessary. The committee members discussed each application at the conclusion of each presentation.

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2.5 Preliminary Ranking

The WASC discussed each eligible project, project concept, and scientific study as separate groups. The applications were preliminarily ranked by each committee member and the scores were aggregated as follows:

Program	Project Name	# of Rankings	Score	Group Place
IP	Rory M. Shaw Wetlands Park Project	17	174	1
IP	Fernangeles Park Stormwater Capture Project	17	161	2
IP	Strathern Park North Stormwater Capture	16	151	3
IP	City of San Fernando Regional Park Infiltration	16	120	4
IP	Valley Village Park Stormwater Capture Project	16	116	5
IP	Lankershim Blvd Local Area Urban Flow Mgmt Network	12	89	6
IP	The Distributed Drywell System Project	16	89	6
IP	Oro Vista Local Area Urban Flow Management Project	9	71	8
IP	Active Transportation Rail to River Corridor Project	12	69	9
IP	Echo Park Lake Rehabilitation	9	58	10
IP	Franklin D. Roosevelt Park Regional Stormwater Project	11	53	11
IP	Walnut Park Pocket Park Project	11	53	11

Program	Project Name	# of Rankings	Score	Group Place
TRP	Arroyo Seco Projects	15	66	1
TRP	Pasadena Unified School District Campus	14	51	2
TRP	ULAR Green Street Demonstration Project on Main St	15	47	3
TRP	Hay Canyon Channel / FIS Sports Facilities	11	30	4
TRP	Winery Canyon Channel / Descanso Gardens	11	21	5

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Program	Project Name	# of Rankings	Score	Group Place
SS	LRS Adaptation to Address the LA River Bacteria TMDL	12	48	1
SS	Recalculation of Wet Weather Zinc Criteria	12	46	2
SS	preSIP: A Platform for Watershed Science & Project Collaboration	9	30	3
SS	Regional Scientific Study to Support Protection of Human Health	7		
SS	Coordinated Safe Clean Watershed Plans	8		

Members were invited to prioritize all the Projects they preliminarily thought should be funded. For example, there were 12 projects under consideration in the Infrastructure Program, the member's top-ranked project received 12 points, and each subsequent project received one less point. Projects that received less than a majority of rankings did not receive a score. All committee member rankings were then aggregated to determine the WASC's overall preliminary rankings for each project.

2.6 SIP Development

The WASC reviewed and utilized all available information and guidance materials including, but not limited to, the items listed below. Please refer to the [Project Applications](#) and the WASC webpage on the [Safe, Clean Water website](#) for details.

- Project Applications and Presentations
- Safe Clean Water GIS Reference Map
- SIP Programming Guidelines/Scenarios
- SIP Programming Tool
- Preliminary Rankings, as applicable

The WASC discussed all available information and received public comments before voting to approve Projects and annual funding allocations in the recommended SIP.

2.7 Summary of Public Comment

The WASC received public comments which are available in the WASC meeting minutes on the [Safe, Clean Water website](#). Some expressed concern with the SIP percent allocation limiting the capacity to fund future projects. This was pertaining specifically to smaller cities that did not have the resources or opportunity to submit projects this first round. The WASC acknowledged the importance to have funds rollover and explained the proposed 51% allocation over the next 5 years still left enough headroom for future projects. In addition, all the submitted TRPs were included into the SIP and can apply into Infrastructure Program in the 3rd/4th year, in which there is low percent allocation.

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3 Infrastructure Program

3.1 Submitted and Recommended Projects

All projects were evaluated as described above in Section 2 Summary of Meetings. Below is a list of all Projects submitted to the Infrastructure Program for this Watershed Area. Projects shown in blue have been included in the recommended SIP. See Table in Section 3.2.8 for details on any leveraged funds. Refer to Attachment D and the [Project Applications](#) for additional details. All Projects included in the recommended SIP are expected to request additional funding for operations and maintenance for a minimum useful life of 30 years, and monitoring for 3-years post-construction.

Project Name	Project Lead	Status	Total SCW Funding Requested	Total Capital Project Cost	Current Phase
Active Transportation Rail to River Corridor Project - Segment A	Los Angeles Metropolitan Transit Authority	Included in SIP	\$8,425,000	\$8,200,000	Planning & Design
City of San Fernando Regional Park Infiltration Project	City of San Fernando	Included in SIP	\$9,201,200	\$13,152,646	Planning & Design
Echo Park Lake Rehabilitation	City of Los Angeles, Bureau of Sanitation	Included in SIP	\$400,000	\$36,626,015	Operations & Maintenance
Fernangeles Park Stormwater Capture Project	Los Angeles Department of Water and Power	Included in SIP	\$8,360,748.27	\$16,464,000	Planning & Design
Franklin D. Roosevelt Park Regional Stormwater Capture Project	Los Angeles County	Included in SIP	\$4,000,000	\$11,979,871	Complete
Lankershim Boulevard Local Area Urban Flow Management Network Project	City of Los Angeles, Bureau of Sanitation	Included in SIP	\$25,696,900	\$25,696,900	Planning & Design
Oro Vista Local Area Urban Flow Management Project	City of Los Angeles, Bureau of Sanitation	Included in SIP	\$10,590,600	\$10,590,600	Planning & Design
Rory M. Shaw Wetlands Park Project	Los Angeles Flood Control District	Included in SIP	\$10,000,000	\$85,000,000	Planning & Design

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Strathern Park North Stormwater Capture Project	Los Angeles Department of Water and Power	Included in SIP	\$9,278,605.53	\$18,434,000	Planning & Design
The Distributed Drywell System Project	City of Glendale	Included in SIP	\$1,893,000	\$1,842,000	Planning & Design
Valley Village Park Stormwater Capture Project	Los Angeles Department of Water and Power	Included in SIP	\$3,177,344.23	\$6,317,000	Planning & Design
Walnut Park Pocket Park Project	County of Los Angeles	Included in SIP	\$1,000,000	\$2,200,000	Construction

3.2 Discussion of Criteria

Per LACFCD Code Ch18.07.B.2, the SIPs shall be developed by the WASC in accordance with the criteria described below.

3.2.1 Regional Program Allocations

Compliant with LACFCD Code Ch18.07.B.2.a

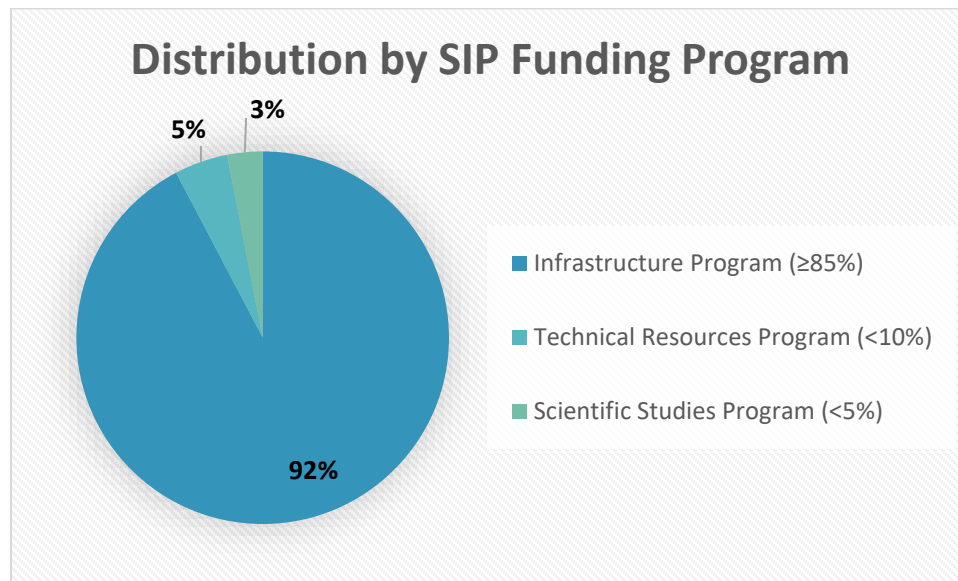
Below is a summary of the Regional Program allocations over the 5-year SIP.

Funding Program	Sum of Total SCW Funding Requested FY20-25	Funding Distribution for Subprograms
Infrastructure Program (≥85%)	\$91,648,398.03	92%
Technical Resources Program (<10%)	\$4,600,000.00	5%
Scientific Studies Program (<5%)	\$3,038,331.00	3%
Grand Total	\$99,286,729.03	

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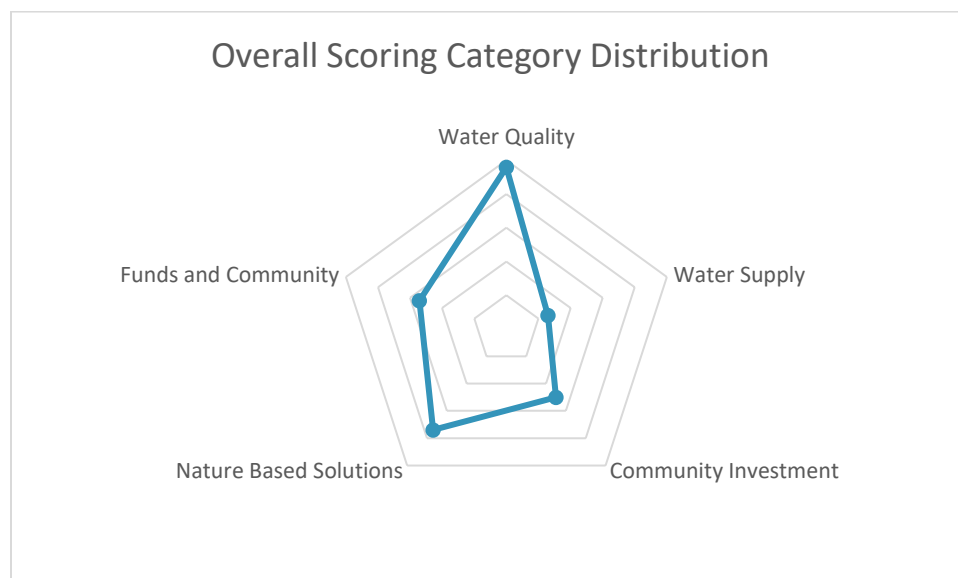


3.2.2 Project Benefits

Compliant with LACFCD Code Ch18.04.E

The scoring committee evaluated the benefits provided by each project including Water Quality Benefits, Water Supply Benefits, Community Investment Benefits, Nature-Based Solutions, and Leveraging Funds and Community Support as defined in the Feasibility Study Guidelines.

Below are the overall scoring category distributions for the Infrastructure Program Projects included in the recommended SIP.



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3.2.3 MS4 Compliance

Compliant with LACFCD Code Ch18.07.B.2.b.

Below is an overview of the water quality data for the Infrastructure Program Projects included in the recommended SIP.

Project Name	Project Type	BMP Type	Total Capture Area (acres)	24hr Capacity (ac-ft)	Approved WQ Plan
Active Transportation Rail to River Corridor Project - Segment A	Wet	Biofiltration	21	8.49	ULAR EWMP
City of San Fernando Regional Park Infiltration Project	Wet	Infiltration Facility	942	27	ULAR EWMP
Echo Park Lake Rehabilitation	Wet	Treatment Facility	356	26	ULAR IRWMP
Fernangeles Park Stormwater Capture Project	Wet	Infiltration Facility	292	24.78	ULAR IRWMP
Franklin D. Roosevelt Park Regional Stormwater Capture Project	Wet	Infiltration Facility	203	8.47	ULAR EWMP
Lankershim Boulevard Local Area Urban Flow Management Network Project	Wet	Infiltration Well	213	111.05	ULAR EWMP
Oro Vista Local Area Urban Flow Management Project	Wet	Infiltration Well	161	24.27	ULAR EWMP
Rory M. Shaw Wetlands Park Project	Wet	Treatment Facility	929	1992.88	ULAR EWMP
Strathern Park North Stormwater Capture Project	Wet	Infiltration Facility	485	34.05	ULAR IRWMP
The Distributed Drywell System Project	Wet	Infiltration Well	57	15.6	ULAR EWMP
Valley Village Park Stormwater Capture Project	Dry	Infiltration Facility	455	6.2	ULAR IRWMP
Walnut Park Pocket Park Project	Wet	Infiltration Well	32	1.44	ULAR EWMP

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Project Name	Primary Pollutant	Primary Pollutant Reduction	Secondary Pollutant	Secondary Pollutant Reduction
Active Transportation Rail to River Corridor Project - Segment A	Bacteria	90%	Total Copper	90%
City of San Fernando Regional Park Infiltration Project	Total Zinc	89%	Total Lead	86%
Echo Park Lake Rehabilitation	Total Nitrogen	89%	Total Phosphorous	87%
Fernangeles Park Stormwater Capture Project	Total Zinc	95%	Total Lead	95%
Franklin D. Roosevelt Park Regional Stormwater Capture Project	Total Zinc	88%	Bacteria	83%
Lankershim Boulevard Local Area Urban Flow Management Network Project	Total Zinc	100%	Trash	100%
Oro Vista Local Area Urban Flow Management Project	Total Zinc	100%	Trash	100%
Rory M. Shaw Wetlands Park Project	Total Nitrogen	95%	Total Phosphorous	95%
Strathern Park North Stormwater Capture Project	Total Zinc	98%	Total Lead	97%
The Distributed Drywell System Project	Total Zinc	71%	Bacteria	66%
Valley Village Park Stormwater Capture Project	0	0%	0	0%
Walnut Park Pocket Park Project	Total Zinc	81%	Total Copper	81%

3.2.4 Disadvantaged Communities (DAC) Benefits

Compliant with LACFCD Code Ch18.07.B.2.c.

Based on the total Infrastructure Program funding allocations for the SIP and the ratio of the DAC population to the total population in each Watershed Area, funding for Projects that provide DAC benefits over the 5-year SIP shall not be less than the value shown below.

DAC Ratio*	50%
Required Funding for DACs FY 20-25 (110%)	\$50,406,618.92

* These figures are based on the 2016 US Census and will be updated periodically.

Below is an overview of Infrastructure Program Projects that provide DAC Benefits.

Refer to Attachment C for a summary DAC Benefits.

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Project Name	DAC	Total SCW Funding Allocated FY20-25	Total SCW Funding benefitting DAC FY20-25
Active Transportation Rail to River Corridor Project - Segment A	Yes	\$8,050,000.00	\$8,050,000.00
City of San Fernando Regional Park Infiltration Project	Yes	\$9,201,200.00	\$9,201,200.00
Echo Park Lake Rehabilitation	No	\$400,000.00	\$0.00
Fernangeles Park Stormwater Capture Project	Yes	\$8,360,748.27	\$8,360,748.27
Franklin D. Roosevelt Park Regional Stormwater Capture Project	Yes	\$4,000,000.00	\$4,000,000.00
Lankershim Boulevard Local Area Urban Flow Management Network Project	Yes	\$25,696,900.00	\$25,696,900.00
Oro Vista Local Area Urban Flow Management Project	No	\$10,590,600.00	\$0.00
Rory M. Shaw Wetlands Park Project	Yes	\$10,000,000.00	\$10,000,000.00
Strathern Park North Stormwater Capture Project	Yes	\$9,278,605.53	\$9,278,605.53
The Distributed Drywell System Project	Yes	\$1,893,000.00	\$1,893,000.00
Valley Village Park Stormwater Capture Project	Yes	\$3,177,344.23	\$3,177,344.23
Walnut Park Pocket Park Project	Yes	\$1,000,000.00	\$1,000,000.00
Grand Total		\$91,648,398.03	\$80,657,798.03
% of funded Projects benefitting DAC(s)			88%

As shown, the total Safe, Clean Water Funds benefitting DACs over a rolling 5-year period for the recommended SIP is greater than the required funding for DACs for this Watershed Area.

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3.2.5 Municipality Benefits

Compliant with LACFCD Code Ch18.07.B.2.d.

Recommended Projects to date are distributed throughout the Watershed Area in order to help ensure compliance with this rolling 5-year criterion in future years.

Below is a summary of the Municipality in which each Project included in the SIP is located and any other Municipalities receiving benefits from the Project.

Project Name	Municipality in which the Project is located	Other Municipalities Receiving Benefits
Active Transportation Rail to River Corridor Project - Segment A	Los Angeles	Inglewood
City of San Fernando Regional Park Infiltration Project	San Fernando	
Echo Park Lake Rehabilitation	Los Angeles	
Fernangeles Park Stormwater Capture Project	Los Angeles	
Franklin D. Roosevelt Park Regional Stormwater Capture Project	Unincorporated	
Lankershim Boulevard Local Area Urban Flow Management Network Project	Los Angeles	
Oro Vista Local Area Urban Flow Management Project	Los Angeles	
Rory M. Shaw Wetlands Park Project	Los Angeles	
Strathern Park North Stormwater Capture Project	Los Angeles	
The Distributed Drywell System Project	Glendale	
Valley Village Park Stormwater Capture Project	Los Angeles	
Walnut Park Pocket Park Project	Unincorporated	

3.2.6 Project Types and Sizes

Compliant with LACFCD Code Ch18.07.B.2.e.

Recommendations include a variety of projects in order to ensure compliance with this rolling 5-year criterion in future years.

Below is a summary of project types and a graph of the total capture area in acres for the Infrastructure Program Projects included in the recommended SIP.

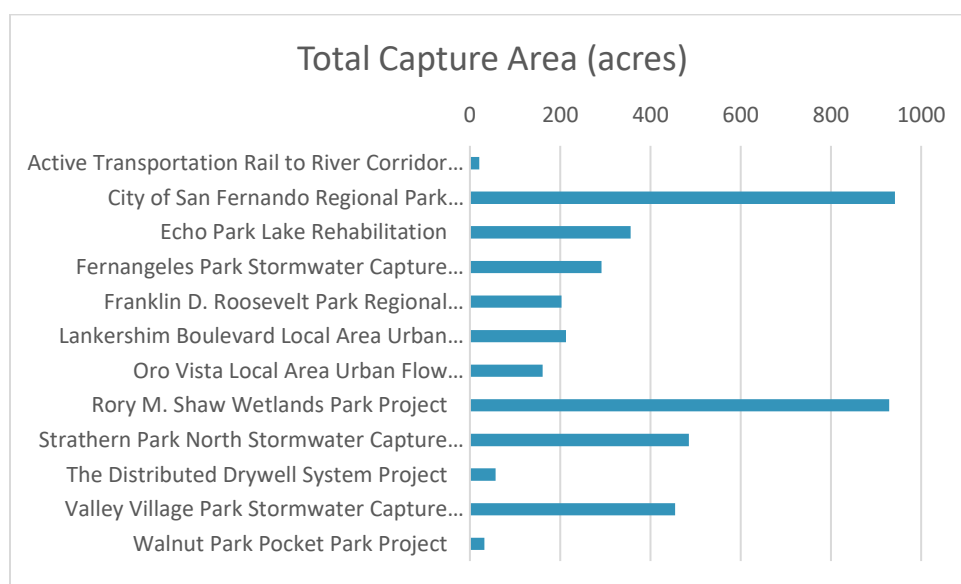
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Project Name	Project Type	EWMP Type	BMP Type
Active Transportation Rail to River Corridor Project - Segment A	Wet	Green Street	Biofiltration
City of San Fernando Regional Park Infiltration Project	Wet	Regional Project	Infiltration Facility
Echo Park Lake Rehabilitation	Wet	Regional Project	Treatment Facility
Fernangeles Park Stormwater Capture Project	Wet	Other	Infiltration Facility
Franklin D. Roosevelt Park Regional Stormwater Capture Project	Wet	Regional Project	Infiltration Facility
Lankershim Boulevard Local Area Urban Flow Management Network Project	Wet	Regional Project	Infiltration Well
Oro Vista Local Area Urban Flow Management Project	Wet	Green Street	Infiltration Well
Rory M. Shaw Wetlands Park Project	Wet	Green Street	Treatment Facility
Strathern Park North Stormwater Capture Project	Wet	Regional Project	Infiltration Facility
The Distributed Drywell System Project	Wet	Green Street	Infiltration Well
Valley Village Park Stormwater Capture Project	Dry	Regional Project	Infiltration Facility
Walnut Park Pocket Park Project	Wet	Regional Project	Infiltration Well



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3.2.7 Nature-Based Solutions

Compliant with LACFCD Code Ch18.07.B.2.f.

Below is a summary of Projects included in the SIP that implement Nature-Based Solutions (NBS).

Project Name	NBS Nature Processes	NBS Natural Materials	NBS Methods					
			Vegetation/ Green Space	Increase of Permeability	Protection of Undeveloped Mountains & Floodplains	Creation & Restoration of Riparian Habitat & Wetlands	New Landscape Elements	Enhancement of Soil
rActive Transportation Rail to River Corridor Project - Segment A	Yes	Yes	Yes				Yes	Yes
City of San Fernando Regional Park Infiltration Project	Yes	No	Yes	Yes	Yes		Yes	
Echo Park Lake Rehabilitation	Yes	Yes			Yes		Yes	
Fernangeles Park Stormwater Capture Project	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Franklin D. Roosevelt Park Regional Stormwater Capture Project	Yes	Yes	Yes		Yes		Yes	
Lankershim Boulevard Local Area Urban Flow Management Network Project	Yes	Yes	Yes		Yes		Yes	
Oro Vista Local Area Urban Flow Management Project	Yes	Yes	Yes	Yes	Yes		Yes	
Rory M. Shaw Wetlands Park Project	Yes	Yes	Yes		Yes	Yes	Yes	Yes
Strathern Park North Stormwater Capture Project	Yes	Yes	Yes	Yes	Yes		Yes	Yes
The Distributed Drywell System Project	Yes	Yes	Yes		Yes		Yes	
Valley Village Park Stormwater Capture Project	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Walnut Park Pocket Park Project	Yes	Yes	Yes		Yes		Yes	

NBS Natural Processes: Implements natural processes or mimics natural processes to slow, detain, capture, and absorb/infiltrate water in a manner that protects, enhances and/or restores habitat, green space and/or usable open space.

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NBS Natural Materials: Utilizes natural materials such as soils and vegetation with a preference for native vegetation.

Public comment letters were received that emphasize that Projects which include Nature-Based Solutions are to be prioritized when programming future SIPs.

3.2.8 Leveraged Funds and Community Support

Below is a summary of leveraged funds, SCW funding allocations, and community support for Projects included in the SIP.

Project Name	Status of Leveraged Funds	Total SCW Funding Requested	Total Leveraged Funds	Community Support Letter(s) Received
Active Transportation Rail to River Corridor Project - Segment A	Secured	\$8,425,000.00	\$10,500,000.00	Yes
City of San Fernando Regional Park Infiltration Project	Secured	\$9,201,200.00	\$8,971,446.00	No
Echo Park Lake Rehabilitation	None	\$400,000.00	\$0.00	Yes
Fernangeles Park Stormwater Capture Project	Secured	\$8,360,748.27	\$8,370,000.00	Yes
Franklin D. Roosevelt Park Regional Stormwater Capture Project	Secured	\$4,000,000.00	\$12,778,651.14	Yes
Lankershim Boulevard Local Area Urban Flow Management Network Project	None	\$25,696,900.00	\$0.00	No
Oro Vista Local Area Urban Flow Management Project	None	\$10,590,600.00	\$0.00	No
Rory M. Shaw Wetlands Park Project	Secured	\$10,000,000.00	\$75,000,000.00	Yes
Strathern Park North Stormwater Capture Project	Secured	\$9,278,605.53	\$9,467,000.00	Yes
The Distributed Drywell System Project	None	\$1,893,000.00	\$0.00	No

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Valley Village Park Stormwater Capture Project	Secured	\$3,177,344.23	\$3,242,000.00	Yes
Walnut Park Pocket Park Project	Secured	\$1,000,000.00	\$4,199,237.59	Yes
Grand Total		\$92,023,398.03	\$132,528,334.73	

To help ensure the recommended SIP demonstrates strong local, community support, the WASC reviewed and discussed the level of community engagement to date for Projects included in the SIP, such as past community outreach and support from local non-government organizations and community-based organizations.

3.2.9 Other Considerations

Not applicable.

4 Technical Resources Program

Per LACFCD Code Ch18.07.D, the purpose of the Technical Resources Program is to provide Technical Assistance Teams to assist with the development of Feasibility Studies and to provide Watershed Coordinators.

4.1 Submitted and Recommended Project Concepts

Below is a list of all Project Concepts submitted to the Technical Resources Program for this Watershed Area. Project Concept shown in blue have been included in the recommended SIP. Refer to Attachment E and the [Project Applications](#) for additional details.

Project Name	Project Lead	Status	Total SCW Funding Requested for this WASC
Arroyo Seco Projects: Constructed Wetlands by the Arroyo Seco	City of South Pasadena	Included in SIP	\$400,000.00
Green Street Demonstration Project on Main Street	City of Alhambra	Included in SIP	\$300,000.00
Hay Canyon Channel / FIS Sports Facilities Stormwater Capture Feasibility Study	City of La Cañada Flintridge	Included in SIP	\$300,000.00
Pasadena Unified School District Campus Green Infrastructure Development Project	Amigos de los Rios	Included in SIP	\$300,000.00
Winery Canyon Channel / Descanso Gardens Stormwater Capture Feasibility Study	City of La Cañada Flintridge	Included in SIP	\$300,000.00

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A placeholder to fund three Watershed Coordinators for up to \$200k/year for each position are included in the recommended SIP. The FY20-21 Watershed Coordinator will receive payment for the portion of the fiscal year for which they are hired.

4.2 Discussion

After careful consideration, the WASC voted to include 5 Technical Resources Program projects and 3 Watershed Coordinators in the recommended SIP.

5 Scientific Studies Program

Per LACFCD Code Ch18.07.E, the purpose of the Scientific Studies Program is to provide funding for scientific and technical activities.

5.1 Submitted and Recommended Studies

Below is a list of all Projects submitted to the Scientific Studies Program for this Watershed Area. Projects shown in blue have been included in the recommended SIP. Refer to Attachment F and the [Project Applications](#) for additional details.

Project Name	Project Lead	Total Funding Requested for this WASC	Status
Coordinated Safe Clean Watershed Plans	City of Los Angeles	\$1,692,000.00	Not included in SIP
LRS Adaptation to Address the LA River Bacteria TMDL for the ULAR Watershed Management Group	San Gabriel Valley Council of Governments	\$885,500.00	Included in SIP
preSIP: A Platform for Watershed Science and Project Collaboration	San Gabriel Valley Council of Governments	\$1,800,000.00	Included in SIP
Recalculation of Wet Weather Zinc Criterion	City of Los Angeles Sanitation	\$352,831.00	Included in SIP
Regional Scientific Study to Support Protection of Human Health through Targeted Reduction of Bacteriological Pollution	Gateway Water Management Authority	\$2,654,816.00	Not included in SIP

5.2 Discussion

After careful consideration, the WASC voted to include 3 Scientific Studies in the recommended SIP.

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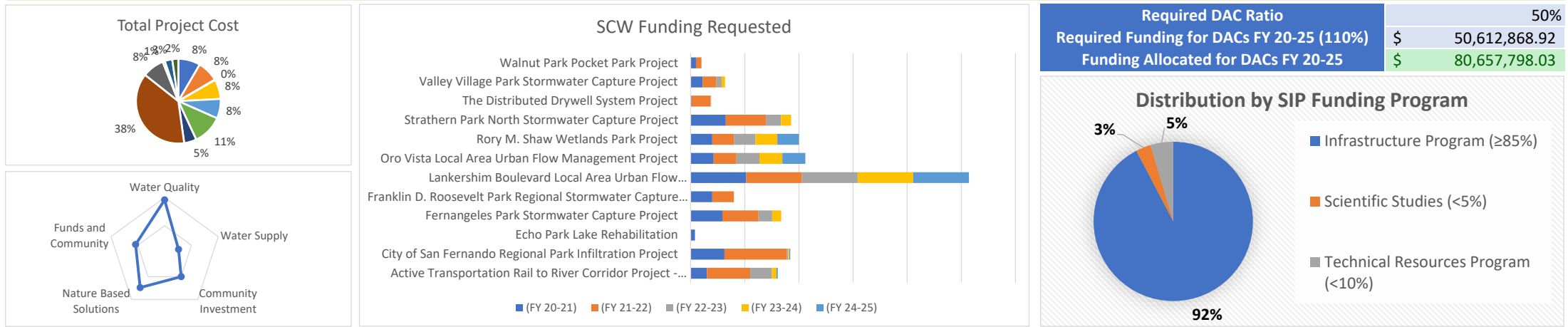
6 Next Steps

The WASC request the Regional Oversight Committee (ROC) to advance the recommended SIP to the Board of Supervisors for approval.

Next WASC meeting(s):

- July 9th, 2020 2:00pm-4:00pm (to consider ROC feedback, if needed)

Project Details



Stormwater Investment Plan Preview

	(FY 20-21)	(FY 21-22)	(FY 22-23)	(FY 23-24)	(FY 24-25)	Future Funding	TOTAL
A. Anticipated Annual Regional Program Funds Collected	\$38.63 M	\$38.63 M	\$38.63 M	\$38.63 M	\$38.63 M		\$193.13 M
B. Anticipated Annual Regional Program Funds Available (A+D)	\$38.63 M	\$49.94 M	\$55.10 M	\$77.80 M	\$103.94 M		
C. Total Allocated in the SIP	\$27.32 M	\$33.46 M	\$15.93 M	\$12.48 M	\$10.10 M	\$0.38 M	\$99.29 M
D. Remaining Balance/Rollover Funds (B-C)	\$11.31 M	\$16.48 M	\$39.17 M	\$65.32 M	\$93.84 M		
E. Percent Allocated (C/B)	71%	67%	29%	16%	10%		51%

Row Labels	DAC	(FY 20-21)	(FY 21-22)	(FY 22-23)	(FY 23-24)	(FY 24-25)	Future Funding	TOTAL
Infrastructure Program		\$ 24,135,094.32	\$ 31,634,429.21	\$ 14,497,404.70	\$ 11,881,569.80	\$ 9,499,900.00	\$ 375,000.00	\$ 92,023,398.03
Active Transportation Rail to River	Yes	\$ 1,500,000.00	\$ 4,000,000.00	\$ 2,000,000.00	\$ 425,000.00	\$ 125,000.00	\$ 375,000.00	\$ 8,425,000.00
City of San Fernando Regional Park	Yes	\$ 3,115,000.00	\$ 5,785,000.00	\$ 100,400.00	\$ 100,400.00	\$ 100,400.00	\$ -	\$ 9,201,200.00
Echo Park Lake Rehabilitation	No	\$ 400,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000.00
Fernangeles Park Stormwater Capture	Yes	\$ 2,926,261.89	\$ 3,344,299.31	\$ 1,254,112.24	\$ 836,074.83	\$ -	\$ -	\$ 8,360,748.27
Franklin D. Roosevelt Park Regional Stormwater	Yes	\$ 2,000,000.00	\$ 2,000,000.00	\$ -	\$ -	\$ -	\$ -	\$ 4,000,000.00
Lankershim Boulevard Local Area Urban Flow	Yes	\$ 5,139,380.00	\$ 5,139,380.00	\$ 5,139,380.00	\$ 5,139,380.00	\$ 5,139,380.00	\$ -	\$ 25,696,900.00
Oro Vista Local Area Urban Flow Management	No	\$ 2,118,120.00	\$ 2,118,120.00	\$ 2,118,120.00	\$ 2,118,120.00	\$ 2,118,120.00	\$ -	\$ 10,590,600.00
Rory M. Shaw Wetlands Park Project	Yes	\$ 2,000,000.00	\$ 2,000,000.00	\$ 2,000,000.00	\$ 2,000,000.00	\$ 2,000,000.00	\$ -	\$ 10,000,000.00
Strathern Park North Stormwater Capture	Yes	\$ 3,247,511.94	\$ 3,711,442.21	\$ 1,391,790.83	\$ 927,860.55	\$ -	\$ -	\$ 9,278,605.53
The Distributed Drywell System Project	Yes	\$ 76,750.00	\$ 1,765,250.00	\$ 17,000.00	\$ 17,000.00	\$ 17,000.00	\$ -	\$ 1,893,000.00
Valley Village Park Stormwater Capture	Yes	\$ 1,112,070.49	\$ 1,270,937.69	\$ 476,601.63	\$ 317,734.42	\$ -	\$ -	\$ 3,177,344.23
Walnut Park Pocket Park Project	Yes	\$ 500,000.00	\$ 500,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000.00
Scientific Studies		\$ 980,707.00	\$ 1,226,133.00	\$ 831,491.00			\$ -	\$ 3,038,331.00
LRS Adaptation to Address the LA River	(blank)	\$ 192,500.00	\$ 385,000.00	\$ 308,000.00			\$ -	\$ 885,500.00
preSIP: A Platform for Watershed Science	(blank)	\$ 700,000.00	\$ 700,000.00	\$ 400,000.00			\$ -	\$ 1,800,000.00
Recalculation of Wet Weather Zoning	(blank)	\$ 88,207.00	\$ 141,133.00	\$ 123,491.00			\$ -	\$ 352,831.00
Technical Resources Program		\$ 2,200,000.00	\$ 600,000.00	\$ 600,000.00	\$ 600,000.00	\$ 600,000.00	\$ -	\$ 4,600,000.00
Green Street Demonstration Project	(blank)	\$ 300,000.00					\$ -	\$ 300,000.00
Hay Canyon Channel / FIS Sports Facility	(blank)	\$ 300,000.00					\$ -	\$ 300,000.00
Pasadena Unified School District	(blank)	\$ 300,000.00					\$ -	\$ 300,000.00
Watershed Coordinator #1	(blank)	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00		\$ 1,000,000.00
Watershed Coordinator #2	(blank)	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00		\$ 1,000,000.00
Watershed Coordinator #3	(blank)	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00		\$ 1,000,000.00
Winery Canyon Channel / Descanso Gorge	(blank)	\$ 300,000.00					\$ -	\$ 300,000.00
Arroyo Seco Projects: Construction	(blank)	\$ 400,000.00					\$ -	\$ 400,000.00
Grand Total		\$ 27,315,801.32	\$ 33,460,562.21	\$ 15,928,895.70	\$ 12,481,569.80	\$ 10,099,900.00	\$ 375,000.00	\$ 99,661,729.03

**Attachment B
List of WASC Members**

Upper Los Angeles River						
Member Type	SD	Position	Member	Affiliation	Alternate	Alt-Affiliation
Agency		FCD	Gary Hildebrand	FCD	Genevieve Osmena	FCD
Agency		Water Agency	Delon Kwan	Los Angeles Department of Water and Power	Art Castro	Los Angeles Department of Water and Power
Agency		Groundwater / Water Agency 2	Paul Liu	Los Angeles Department of Water and Power	Rafael Villegas	Los Angeles Department of Water and Power
Agency		Sanitation	Alfredo Magallanes	Los Angeles - Sanitation	Ariel Flores	LA Sanitation and Environment
Agency		Open Space	Cathie Santo Domingo	Los Angeles Recreation & Parks	Javier Solis	Los Angeles Recreation & Parks
Community Stakeholder	3	At Large	Ernesto Pantoja	Laborers Local 300	Sergio Rascon	Laborers Local 300
Community Stakeholder	1	At Large	Miguel Luna	Urban Semilla DakeLuna Consultants	Yvette Lopez-Ledesma	Urban Semilla DakeLuna Consultants
Community Stakeholder	5	Environment	John Luker	Santa Susana Mountain Park Association	Wendi Gladstone	Santa Susana Mountain Park Association
Community Stakeholder	3	Business	David Nahai	Lewis, Brisbois, Bisgaard & Smith	Jacob Lipa	Lipa Consulting Company
Community Stakeholder	3	EJ	Veronica Padilla-Campos	Pacoima Beautiful	Felipe Escobar	Pacoima Beautiful
Municipal Members			Yazdan Emrani	Glendale	Chris Chew	Glendale
Municipal Members			Patrick DeChellis	La Canada Flintridge		
Municipal Members			Barbara Romero	City of Los Angeles	Teresa Villegas	Los Angeles
Municipal Members			Ackley Padilla	Los Angeles	Max Podemski	Los Angeles
Municipal Members			Jeff Camp	Los Angeles	Rafael Prieto	Los Angeles
Municipal Members			Paul Alva	Los Angeles County	TJ Moon	LA County Public Works
Municipal Members			Kris Markarian	Pasadena	Sean Singletary	Pasadena



**Attachment C
 Summary of DAC Benefits**

SCW.ID	Watershed Area	Project Name	Municipality	Distance From DAC*	DAC Benefit Claimed	Justification of DAC Benefits Provided by the Applicant
39	Upper Los Angeles River	Active Transportation Rail to River Corridor Project - Segment A	Los Angeles	within DAC	Yes	The Project will generate measurable benefits to the DAC by creating a new east-west pedestrian and bicycle corridor, connecting travelers to three major Metro transit lines: The Blue Line, The Silver Line and The future Crenshaw/LAX Line, Connect multiple Metro Bus Lines and other municipal bus lines along Slauson Avenue; and Enhance Los Angeles County's future and existing bicycle network. The Active Transportation Rail to River Corridor Project will link the Cities of Los Angeles, Inglewood, Huntington Park, Vernon, Maywood, Bell and parts of unincorporated Los Angeles County. The area consists largely of high-density neighborhoods that include DACs, commercial centers and industrial uses. The Project Feasibility Study (2014) indicated that a bike and pedestrian path along the Project corridor would provide significant enhancements to the regional transportation network, while creating innovative environmental, economic, and mobility benefits for the surrounding communities. The Project has strong support from local jurisdictions, community organizations, and elected officials, because it promotes improved traveling conditions, encourages utilization of mass transit, and provides opportunities for upward mobility in underserved areas.
40	Upper Los Angeles River	City of San Fernando Regional Park Infiltration Project	San Fernando	within DAC	Yes	The service area of the Project is defined as the drainage areas for which flows are being captured and also a 0.5-mile buffer around the park, as improvements at the park generally impact people within 0.5 miles (figure included with "Additional Feasibility Information"). Approximately 68% of the Project's benefit area/community is considered a Disadvantaged Community (DAC), 25% of which is considered a Severely Disadvantaged Community (SDAC). The surrounding DAC will benefit from the Project through increased groundwater recharge. Water infiltrated into the ground will be distributed as potable water to this community (and additional areas outside of the delineated benefit area). This may result in lower water rates over time, as less water will need to be imported. Receiving financial assistance as a DAC will allow the City to redistribute existing funds to meet other needs of the community, which will also provide additional benefits to the community. The Project is located in a public park and within City right-of-way and will not cause displacement.
41	Upper Los Angeles River	Echo Park Lake Rehabilitation	Los Angeles	<0.5 mile	No	

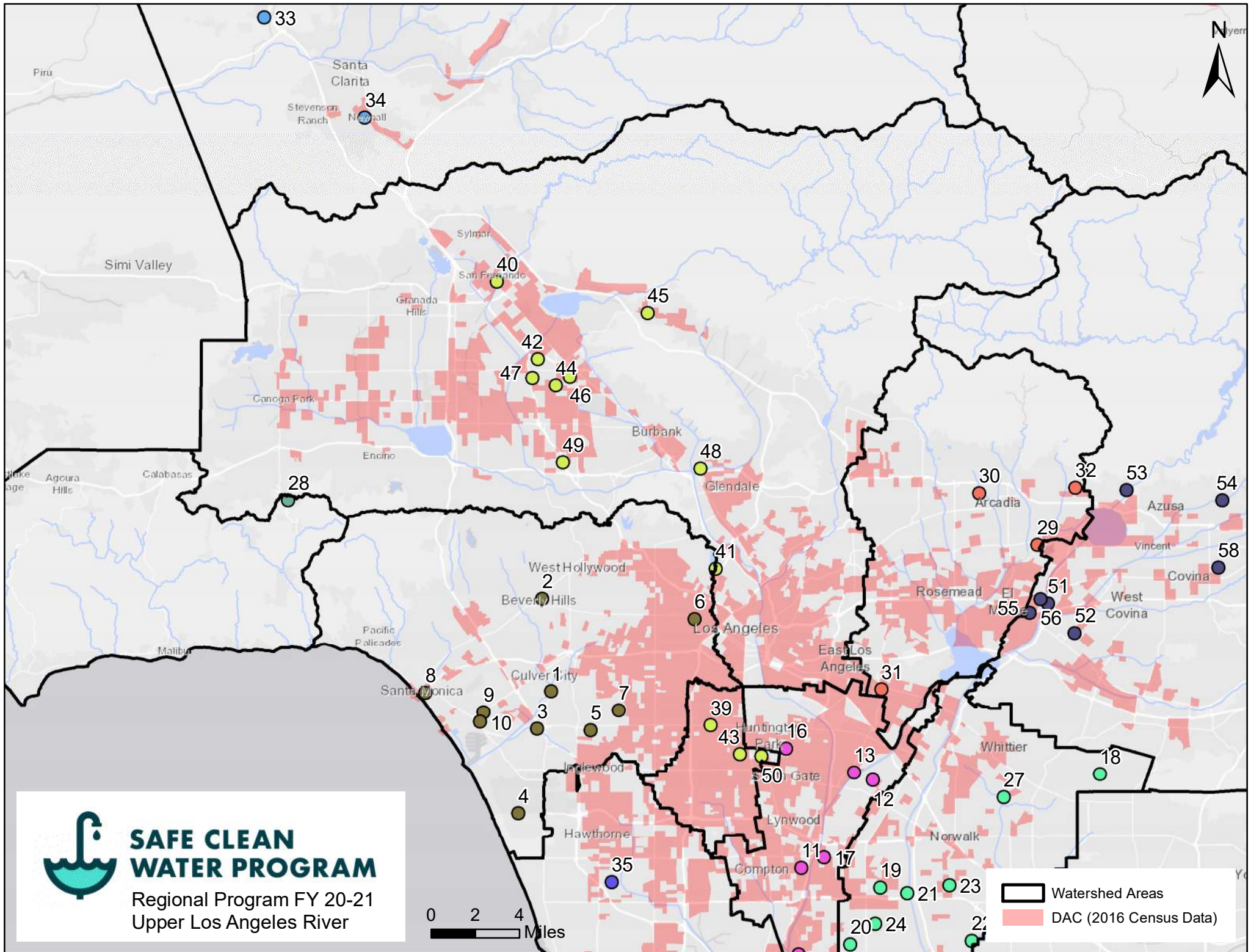


SCW.ID	Watershed Area	Project Name	Municipality	Distance From DAC*	DAC Benefit Claimed	Justification of DAC Benefits Provided by the Applicant
42	Upper Los Angeles River	Fernangeles Park Stormwater Capture Project	Los Angeles	<0.5 mile	Yes	<p>CalEPA's CalEnviroScreen was used to determine that the Project is located within a DAC. The Project has a high Pollution Burden Percentile score of 92 and Population Characteristics score of 82.</p> <p>Frequent flooding currently occurs on Morehart Avenue, particularly near its intersection with Sheldon Street. Flooding will be reduced with the installation of gutters, bioswales, catch basins, and re-pavement and crowning of the road.</p> <p>There are currently no sidewalks along the segment of Morehart Avenue within the Project area. The safety of local residents and pedestrians is currently at risk. In addition to addressing safety concerns, overall pedestrian accessibility will be improved with the proposed addition of sidewalks.</p> <p>The Project also proposes to incorporate green space along Morehart Avenue, which is currently covered almost entirely in asphalt and is devoid of vegetation. The Project will replace a portion of the existing impervious area with bioswales, incorporating natural materials into the DAC such as soil and native vegetation.</p> <p>Recreational enhancements include grading and re-vegetation of the park above the infiltration gallery as well as potential improvements to existing recreational infrastructure, such as installation of a new baseball field. The addition of educational signage will raise sustainability awareness by engaging visitors, residents, and students.</p> <p>The Project was designed to prevent displacement of local populations. All major modifications to the existing area will be made underground. Any above-ground modifications, such as the addition of bioswales, sidewalks, and recreational features, are not expected to result in any displacement.</p>
43	Upper Los Angeles River	Franklin D. Roosevelt Park Regional Stormwater Capture Project	Unincorporated	within DAC	Yes	<p>The project will provide new and enhanced recreational and educational opportunities to the Disadvantaged Community of Florence-Firestone, within the existing Roosevelt Park.</p>
44	Upper Los Angeles River	Lankershim Boulevard Local Area Urban Flow Management Network Project	Los Angeles	<0.5 mile	Yes	<p>The State of California considers most of the Project area corridor a DAC. This Project will benefit the community through reduced instances of flooding and beautification of the corridor. Additional benefits to the community will be improved sidewalks in the areas where the Project features will be placed as well as community benefits described later in this document, such as a reduction in the heat-island effect, additional shade from trees, and air quality improvements. The Project, as designed, will not displace any residents or businesses directly. However, homeless individuals have been known to camp along the corridor or park their vehicles (for those living in cars or RVs) in parking areas along the street. The Project outreach plan will have an element to reach out to these individuals to keep them safe during the construction process and to guide them toward services that are available to them with the goal of getting them into bridge or permanent supportive housing.</p>
45	Upper Los Angeles River	Oro Vista Local Area Urban Flow Management Project	Los Angeles	within DAC	No	



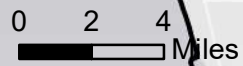
SCW.ID	Watershed Area	Project Name	Municipality	Distance From DAC*	DAC Benefit Claimed	Justification of DAC Benefits Provided by the Applicant
46	Upper Los Angeles River	Rory M. Shaw Wetlands Park Project	Los Angeles	within DAC	Yes	The Rory M. Shaw Wetlands Park will provide 15 acres of open space and recreational area for the Sun Valley community which is categorized as a Disadvantaged Community (DAC) and is a park-poor area. The park will consist of basketball courts, tennis courts, and trails around wetlands. This project will also play a key role in addressing the flooding problems on the streets of Sun Valley.
47	Upper Los Angeles River	Strathern Park North Stormwater Capture Project	Los Angeles	<0.5 mile	Yes	<p>Capturing and treating stormwater runoff will alleviate localized flooding in the DAC and improve water quality of stormwater runoff.</p> <p>Currently, the 2.2-acre segment of the park that overlies the BMP footprint area does not consist of any vegetation or recreational components. As a multi-benefit project, the Strathern Park North Stormwater Capture Project seeks to transform this site into a park with nature based and recreational components that will enhance the DAC, serve the needs of residents, and restore the local habitat. This will include grading and planting new vegetation at the park as well as the addition of new recreational infrastructure, such as new baseball fields.</p> <p>The addition of educational signage will raise sustainability awareness by engaging visitors, residents, and students.</p> <p>The Project was designed to prevent displacement of local populations. All major modifications to the existing area will be made underground. Any above-ground modifications, such as improvements to recreational features, are not expected to result in any displacement.</p>
48	Upper Los Angeles River	The Distributed Drywell System Project	Glendale	<0.5 mile	Yes	<p>The project is located in a Disadvantaged Community (see attached map), however the installation of dry well devices and parkway bioswales will not pose any disruption or displacement. The design will comply with all LA County anti-displacement avoidance measures to ensure local community development.</p> <p>The project plans to provide native trees and vegetation in the parkway bioswales throughout the project area.</p>
49	Upper Los Angeles River	Valley Village Park Stormwater Capture Project	Los Angeles	<0.5 mile	Yes	<p>Capturing and treating stormwater runoff will alleviate localized flooding in the DAC and improve water quality of stormwater runoff.</p> <p>Recreational enhancements include grading and re-vegetation of the park above the infiltration gallery as well as improvements to existing recreational infrastructure, such as installation of a new baseball field. The addition of educational signage will raise sustainability awareness by engaging visitors, residents, and students.</p> <p>The Project was designed to prevent displacement of local populations. All major modifications to the existing area will be made underground. Any above-ground modifications, such as improvements to recreational features, are not expected to result in any displacement.</p>
50	Upper Los Angeles River	Walnut Park Pocket Park Project	Unincorporated	within DAC	Yes	Project will provide increased recreational opportunities in the form of a new park for the disadvantaged community of Walnut Park.

*Calculated based on the latitude and longitude provided by the Project applicant relative to the 2016 Disadvantaged Community Census Block Group



SAFE CLEAN WATER PROGRAM

Regional Program FY 20-21
Upper Los Angeles River



- Watershed Areas
- DAC (2016 Census Data)



ATTACHMENT D
Infrastructure Program Projects

Map Location	Watershed Area	Project Name	Project Lead	Project Type	BMP Type	Approved WQ Plan	Municipality	DAC	Final Score **						Status
									Water Quality	Water Supply	CIB	NBS	Leveraging Funds	TOTAL	
39	Upper Los Angeles River	Active Transportation Rail to River Corridor Project - Segment A	Los Angeles Metropolitan Transit Authority (Metro)	Wet	Biofiltration	ULAR EWMP	Los Angeles	Yes	50	0	5	10	10	75	Included in SIP
40	Upper Los Angeles River	City of San Fernando Regional Park Infiltration Project	City of San Fernando (Kenneth Jones)	Wet	Infiltration Facility	ULAR EWMP	San Fernando	Yes	50	12	5	5	3	75	Included in SIP
41	Upper Los Angeles River	Echo Park Lake Rehabilitation	City of Los Angeles, Bureau of Sanitation	Wet	Treatment Facility	ULAR IRWMP	Los Angeles	No	50	0	5	10	4	69	Included in SIP
42	Upper Los Angeles River	Fernangeles Park Stormwater Capture Project	Los Angeles Department of Water and Power (LADWP)	Wet	Infiltration Facility	ULAR IRWMP	Los Angeles	Yes	50	5	5	15	10	85	Included in SIP
43	Upper Los Angeles River	Franklin D. Roosevelt Park Regional Stormwater Capture Project	Los Angeles County	Wet	Infiltration Facility	ULAR EWMP	Unincorporated	Yes	44	2	5	10	6	67	Included in SIP
44	Upper Los Angeles River	Lankershim Boulevard Local Area Urban Flow Management Network	City of Los Angeles, Bureau of Sanitation	Wet	Infiltration Well	ULAR EWMP	Los Angeles	Yes	50	5	5	10	0	70	Included in SIP
45	Upper Los Angeles River	Oro Vista Local Area Urban Flow Management Project	City of Los Angeles, Bureau of Sanitation	Wet	Infiltration Well	ULAR EWMP	Los Angeles	No	50	0	5	13	0	68	Included in SIP
46	Upper Los Angeles River	Rory M. Shaw Wetlands Park Project	Los Angeles Flood Control District	Wet	Treatment Facility	ULAR EWMP	Los Angeles	Yes	50	25	5	10	6	96	Included in SIP
47	Upper Los Angeles River	Strathern Park North Stormwater Capture Project	Los Angeles Department of Water and Power (LADWP)	Wet	Infiltration Facility	ULAR IRWMP	Los Angeles	Yes	50	9	5	15	10	89	Included in SIP
48	Upper Los Angeles River	The Distributed Drywell System Project	City of Glendale	Wet	Infiltration Well	ULAR EWMP	Glendale	Yes	50	12	5	10	0	77	Included in SIP
49	Upper Los Angeles River	Valley Village Park Stormwater Capture Project	Los Angeles Department of Water and Power (LADWP)	Dry	Infiltration Facility	ULAR IRWMP	Los Angeles	Yes	40	8	5	15	10	78	Included in SIP
50	Upper Los Angeles River	Walnut Park Pocket Park Project	County of Los Angeles	Wet	Infiltration Well	ULAR EWMP	Unincorporated	Yes	41	0	5	10	6	62	Included in SIP
Total															12

**Refer to the Fesibility Study Guidelines for a description of the Scoring Criteria.

Water Quality: Water Quality Benefits (50 points max)

Water Supply: Significant Water Supply Benefits (25 points max)

CIB: Community Investment Benefit (10 points max)

NBS: Nature-Based Solutions (15 points max)

Leveraging Funds: Leveraging Funds and Community Support (10 points max)

TOTAL: Total Score (110 points max)



ATTACHMENT E
Technical Resources Program Projects

Watershed Area	Project Name	Project Lead	Total SCW Funding Requested	Status
Upper Los Angeles River	Arroyo Seco Projects: Constructed Wetlands by the Arroyo Seco	Shahid Abbas, Director of Public Works, City of South Pasadena; Kristine Courdy, Deputy Director of Public Works, City of South Pasadena	\$400,000.00	Included in SIP
Upper Los Angeles River	Green Street Demonstration Project on Main Street	City of Alhambra	\$300,000.00	Included in SIP
Upper Los Angeles River	Hay Canyon Channel / FIS Sports Facilities Stormwater Capture Feasibility Study	City of La Canada Flintridge	\$300,000.00	Included in SIP
Upper Los Angeles River	Pasadena Unified School District Campus Green Infrastructure Development Project	Claire Robinson, Managing Director, Amigos de los Rios. Claire@amigosdelosrios.org 626-676-5027	\$300,000.00	Included in SIP
Upper Los Angeles River	Winery Canyon Channel / Descanso Gardens Stormwater Capture Feasibility Study	City of La Canada Flintridge	\$300,000.00	Included in SIP
Total			\$1,600,000.00	5

Watershed Area	Position	Cost	Total SCW Funding Requested FY20-21
Upper Los Angeles River	Watershed Coordinator #1	\$200,000.00	1000000
Upper Los Angeles River	Watershed Coordinator #2	\$200,000.00	1000000
Upper Los Angeles River	Watershed Coordinator #3	\$200,000.00	1000000
Total		\$600,000.00	\$0.00



**ATTACHMENT F
 Scientific Studies Programs**

Watershed Area	Project Name	Project Lead	Total Funding Requested	Watersheds Studied	Status
Upper Los Angeles River	Recalculation of Wet Weather Zinc Criterion	City of Los Angeles Sanitation	\$500,000.00	CSMB, SSMB, ULAR	Included in SIP
Upper Los Angeles River	LRS Adaptation to Address the LA River Bacteria TMDL for the ULAR Watershed Management Group	San Gabriel Valley Council of Governments	\$250,000.00	RH, ULAR	Included in SIP
Upper Los Angeles River	preSIP: A Platform for Watershed Science and Project Collaboration	San Gabriel Valley Council of Governments	\$910,000.00	RH, ULAR	Included in SIP
Total			\$1,660,000.00		3

* Total funding requested from all Watershed Areas studied.