



Los Angeles River Master Plan Update

Steering Committee Meeting #5

April 10, 2019, 9:00 a.m. – 12:00 p.m.

Meeting Summary

Location

Los Angeles County Public Works Headquarters
900 South Fremont Avenue, Alhambra, CA 91803
Conference Rooms B and C

Attendees

Steering Committee Members

- City of Los Angeles Mayor's Office, Michael Affeldt
- City of Los Angeles Bureau of Engineering, Deborah Weintraub and Katherine Doherty, alternate
- City of South Gate, Gladis Deras, alternate for Arturo Cervantes
- Council for Watershed Health, Eileen Alduenda
- East Yard Communities for Environmental Justice, Alessandro Negrete
- Friends of LA River, Stephen Mejia, alternate for Marissa Christiansen
- Heal the Bay, Shelley Luce and alternates Katherine Pease and Amanda Wagner
- Los Angeles Business Council, Jacob Lipa and Rory Stewart, alternates for Mary Leslie
- Long Beach Conservation Corps, Kayla Kelly-Slatten, alternate for Dan Knapp
- Los Angeles County 1st District, Guadalupe Duran-Medina, alternate for Waqas Rehman
- Los Angeles County 3rd District, Viridiana Velez, alternate for Katy Young
- Los Angeles Department of Water and Power, Rafael Villegas, alternate for Evelyn Cortez-Davis
- Los Angeles County Flood Control District, Carolina Hernandez, alternate for Keith Lilley
- Los Angeles Waterkeeper, Bruce Resnik and Melissa von Mayrhauser, alternate
-
- Public Counsel, Antonio Hicks
- River and Mountains Conservancy, Joseph Gonzalez, alternate for Mark Stanley
- Santa Monica Mountains Conservancy, Sarah Rascon and Brian Baldauf, alternates for Joseph T. Edmiston
- The Boethius Initiative UCLA Department of World Arts and Cultures, Catherine Gudis, alternate for Peter Sellers



- The Nature Conservancy, Shona Ganguly
- Urban Waters Federal Partnership, Justin Yee
- US Department of Housing and Urban Development, Pauline K. Louie
- Water Replenishment District, Kimberly Badescu, alternate for Robb Whitaker

Los Angeles County Public Works

- Genevieve Osmeña
- Daniel B. Sharp
- Christine Wartman
- Ernesto Rivera
- Mark Beltran
- Donna Diaz
- Helen To
- Kenneth Chow Stella Quiroz
- Luis Perez

Additional Los Angeles County Staff

- Iris Regn, Los Angeles County Arts Commission
- Rita Kampalath, Chief Sustainability Office
- Lila Higgins, Natural History Museum of Los Angeles County

Consultant Team

- Mark Hanna, Geosyntec
- Najwa Pitois, Geosyntec
- Nami Tanaka, Geosyntec
- Yoshi Anderson, Geosyntec
- Paul Senker, Geosyntec
- Jessica Henson, OLIN
- Nate Wooten, OLIN
- Joanna Karaman, OLIN
- Diana Jih, OLIN
- Angela Barranco, River LA
- Jon Switalski, River LA
- Joan Isaacson, Kearns & West
- Jack Hughes, Kearns & West
- Jenna Tourje, Kearns & West
- Taylor York, Kearns & West



1. River Story Screening

The meeting began with a screening of the latest video in the River Story series. River Story videos can be viewed at LARiverMasterPlan.org.

2. Welcome, Introductions, and Agenda Overview

Welcome

On April 10, 2019, Los Angeles County Public Works (Public Works) conducted the fifth Steering Committee meeting for the Los Angeles River Master Plan Update (Master Plan Update). Joan Isaacson, facilitator from Kearns & West, welcomed the attendees and noted that this was the second year of the process. Jenna Tourje from Kearns & West announced the availability of Spanish translation services for meeting attendees.

Genevieve Osmeña, the Master Plan Update project manager from Public Works, welcomed the attendees. She thanked the Steering Committee members for making time to participate and contribute their input and expertise to the process. She noted that since the previous Steering Committee meeting in December, the project team had not slowed its work. She also highlighted the hydrology and hydraulics workshop conducted in March for subcommittee members, in response to input from members. The workshop presentation is posted at LARiverMasterPlan.org. Osmeña encouraged Steering Committee members to continue to provide their feedback at any time using LARiver@dpw.lacounty.gov.

Roundtable Introductions

The Steering Committee members and project team members introduced themselves. See the Attendees section above for a complete list.

Meeting Purpose, Agenda, and Objectives

Isaacson reviewed the meeting agenda (see Appendix A). Highlights included a summary of the first round of community engagement and an overview of the second round; an update from the Upper Los Angeles River and Tributaries Working Group; a review of the Master Plan Update Table of Contents and Introduction; and an update of the goal-driven framework, project needs, opportunities, cadence, and design “kit of parts.”

Isaacson informed community members that they could provide input by making oral comments at the end of the meeting and/or by filling out comment cards.



3. Steering Committee Updates

Steering Committee Charge

Isaacson reviewed the Steering Committee's charge and commitment, and the meeting schedule framework (see page 20 in Appendix B). She reminded Steering Committee members sending alternates to the subcommittee meetings to brief them on the information covered at the Steering Committee meeting.

Update on Progress Memos

Isaacson noted that all eight progress memos were posted on the project website between November and December 2018, LARiverMasterPlan.org.

Q&A/Discussion

Below is a summary of questions or comments and associated responses from the Steering Committee Updates portion of the meeting. The round bullet points indicate questions and comments from Steering Committee members. Dashes indicate the project team's responses. Additional responses from the project team are provided in Appendix C, prepared after the Steering Committee meeting.

- There is a lot of information presented at the Steering Committee meetings, but there is not enough time for the Steering Committee to have a discussion.
- Please send an email to Steering Committee members to let them know when the meeting agendas and other materials are posted online.
- The Master Plan Update should be actionable, something that can be funded and implemented. The Steering Committee has the expertise to help identify where effective projects can be located.
 - The project team responded that today's agenda includes the approach for making the Master Plan Update actionable, including the approach for identifying sites and the draft "kit of parts" for project implementation. The Master Plan Update is a data-driven process and it took time to get to this point.
 - The project team will also determine how to improve delivery of agendas and meeting information to Steering Committee members.

4. Community Engagement Update

Additional Meetings

The Public Works team has continued to meet with partner agencies. Since the December Steering Committee meeting, they met with the Upper Los Angeles River and Tributaries Working Group and the Los Angeles River Rangers.



Community Outreach and Input Report

Jon Switalski from River LA and Jessica Henson from OLIN reported on the status of the community engagement program. Round one was completed in December 2018 and focused on educating the community about the project, highlighting existing conditions, and soliciting feedback on draft project goals and objectives. The project team held five community meetings in Canoga Park, Cudahy, Long Beach, Friendship Auditorium, and Studio City/North Hollywood.

Meeting attendance in round one averaged 125 participants per meeting. Five-hundred people completed surveys either in person or online. Of the 800 students who attended the Youth Summit, 332 completed the survey. Combining participation from the community meetings and online surveys, over 1,550 community members from diverse age groups, ethnicities, and geographies were engaged during round one. Switalski provided a summary and analysis of all input collected during round one of community engagement. Henson highlighted methods for integrating this feedback into the Master Plan Update. Pages 24 through 26 in Appendix B provide a synthesis of the input.

Round two of community engagement will focus on presenting the results of round one, gathering feedback on user preferences, and integrating community feedback into the Master Plan Update. For round two, the project team has already held community meetings in the San Fernando Valley and South Gate. In the west San Fernando Valley, 110 community members attended a community meeting and 75 attended in South Gate. Input from these meetings are summarized on pages 28 through 31 in Appendix B. The second round provides an opportunity for the project team to delve deeper into topics identified in round one including safety, education, art, and preferred uses for dry weather flow.

Two telephone town halls were hosted in March 2019, calling out to 20,000 land lines in both the lower river area (Long Beach to Downtown Los Angeles) and the upper river area (Downtown Los Angeles to Canoga Park). The goal of this effort was to engage community members who may not participate at high rates online or at community meetings (e.g., members of the Greatest Generation or Baby Boomers). Approximately 3,700 people participated. Callers listened to information about the Master Plan Update and asked questions of project team members. More information about the telephone town halls is summarized on page 31 in Appendix B. Round three of community engagement will begin in the summer of 2019 and focus on gathering feedback about specific project proposals that could address issues and strategies outlined in the Master Plan Update.



Community Partner Program

The project team is working with a number of community partners to conduct constituent outreach about the Master Plan Update. Page 32 in Appendix B displays a list of such partner organizations and upcoming events. Switalski highlighted the work of Las Fotos Projects, which works to inspire teenage girls in under-resourced communities through photography. Teen photographers from Las Fotos took photos of the river and displayed them at the Flow Exhibit in Lincoln Heights, which explored “A Community’s relationship to water.”

Upcoming Events

Upcoming community partner events include the Resource Conversation District Clean Up Day at Sepulveda Basin on April 13, 2019, and the Native Voices Symposium on June 1, 2019.

Q&A/Discussion

Below is a summary of questions or comments and associated responses from the community engagement update portion of the meeting.

- The new forms of outreach the project team is doing are unlike ones seen used before and fantastic, and it is great for the community to be a part of it.
- In what ways are people-centered science and nature activities addressed in the surveys?
 - The Natural History Museum of Los Angeles County has provided the project team with good data and is doing important work in this arena. Natural History Museum staff presented how cell phone apps can be used for community science at the Youth Summit. The questions in the survey are open-ended, so they do not directly address this topic. Round three of community engagement in the summer might be a good time to integrate such topics.
- Will the data be disaggregated to help understand the diversity of communities and their needs?
 - All the report-outs are disaggregated, and the project team is using data this way for the Master Plan Update design work. The project team would be happy to have follow-up conversation about data from specific communities. It is a good reminder that there is no single solution for all communities along the 51 miles of the river. The disaggregated information is available on the website under each engagement event here: http://www.larivermasterplan.org/get_involved#public_engagements_and_next_meeting_information
- The way the project team is engaging local partners and recognizing their expertise is appreciated.



- Is there a way that the project team is measuring success for engagement? For example, are there representative sample population goals, or target numbers for certain demographics or for geographic diversity? What was the goal for the telephone town hall? Was the telephone town hall conducted in multiple languages?
 - The goal for the telephone town hall event was generational engagement, specifically the Baby Boomer and Greatest Generation populations. The scope for the telephone town halls did not include multiple languages, but future events might.
 - The community partners significantly broaden the diversity of people and communities the project team is engaging, but it is good to consider how to measure success.

5. AB466/Upper Los Angeles River and Tributaries Working Group

Sarah Rascon and Brian Baldauf, from the Mountains Recreation and Conservation Authority, gave a presentation on the Upper Los Angeles River and Tributaries Working Group process. For more details, see presentation slides in Appendix D. The presenters explained the origins and purpose of the working group and gave an overview of the Upper Los Angeles Revitalization Plan's planning area, engagement process, and working group and committee structure. They concluded by outlining the schedule for plan completion.

6. Subcommittee Meetings Report

Subcommittee Hydrology Workshop

At the request of the Water Subcommittee, the project team held a hydrology and hydraulics workshop for all subcommittee members. Workshop participants heard about the hydrology and channel hydraulics along the Los Angeles River, history of the river, and tools used for modeling and analysis. They then explored solutions to reduce flow or increase capacity in the channel. Mark Hanna from Geosyntec recapped a toolkit of alternatives that the project team has studied, and how they relate to the Master Plan Update goals. For details, see the hydrology workshop slides on pages 35 through 38 in Appendix B.

Q&A/Discussion

- How is this information going to be integrated into designs?
 - Some of these concepts will be integrated into the kit of parts.
 - When can the Steering Committee provide feedback for design concepts?



- They can provide feedback for designs today, at the upcoming subcommittee meetings on April 17, at the June Steering Committee meeting, and on an ongoing basis via email to Public Works.

7. What's in the Plan

Hanna and Henson provided an overview of the second draft of the Table of Contents for the Master Plan Update, as well as the first draft of the plan Introduction and the latest vision statement, as noted on pages 39 through 40 in Appendix B. Henson also reviewed a statement in the Introduction that clarifies the role of the County.

8. Goal-Driven Framework

Goals

Henson recapped the nine goals that drive the design and policy framework for the Master Plan Update (see Draft Vision, Introduction, Goals, Actions, & Methods document in Appendix E). These goals are final and have been revised based on Steering Committee input.

Design

Hanna and Henson provided an update on next steps for developing the Goals, Actions, and Methods (GAM) implementation matrix. They reviewed the results of the gap analysis and highlighted initial planning concepts, intervention types, and the methodology for locating new project sites.

In an overview of the needs analysis for the gap analysis, Hanna and Henson highlighted work completed since December 2018. The needs analysis has been shaped by technical analysis and Steering Committee and community input. The analysis has driven identification of needs along the river, opportunities to meet those needs, and an appropriate cadence for project development. This analysis also allows for identification of overlapping goals (e.g., where parks needs and water quality needs intersect). The needs analysis is guided by a set of criteria, which can be found on page 42 on Appendix B. Hanna and Henson gave examples of how technical analysis and community input were combined to identify priority issues and opportunities. River Rulers provide a comprehensive picture of needs, helping to identify projects that could have the greatest impact for the greatest number of needs. More details can be found on pages 42 through 54 in Appendix B.

Hanna and Henson then turned to reviewing the different types of opportunity sites, including river rights-of-way, County-owned parcels, other publicly-owned parcels, underutilized right-of-way parcels, vacant private parcels, underutilized private parcels, and the pedestrian street network (see pages 55 through 61 in Appendix B). Henson



described the existing planned projects identified during the team’s extensive literature review, highlighting those located within a quarter mile of the river. The needs assessment was then compared with existing planned projects, to determine the location and cadence for potential new projects. A total of 450 potential parcels have been identified, which is now being refined through desktop analysis. More details on this analysis can be found on pages 62 to 63 in Appendix B.

Henson explained that having a regular cadence and variety of project sizes along the river is important. A mix of extra-large, large, and medium sites will provide an opportunity to design impactful projects, while small and extra-small site development will be guided by design guidelines. Henson noted that design concepts will not be completed for all opportunity sites, but that a kit of parts will be developed to guide future project design. The kit will allow for input on the need, opportunity, cadence, and type of design components for each potential project and will suggest interventions that could address these issues – see pages 63 to 69 in Appendix B.

Policy

Henson provided a brief example of the GAM matrix, which helps identify cross-cutting goals and the “who, where, how, and when” for actions (see pages 69-70 in Appendix B). Due to time limits, the project team did not provide responses during the meeting. However, immediately following the meeting, the team prepared written responses addressing eighteen major themes from the Q&A/Discussion (see Appendix C). The section below is a summary of all questions and comments heard at the meeting.

Q&A/Discussion

Vision, Goals, Actions, and Methods

- It is difficult to discuss vision, goals, objectives, and design together.
- There needs to be a joint work session for the Steering Committee to review GAM so as to benefit from our collective expertise; it is not enough to present comments on an individual basis.
- For someone not involved in this process, it would be confusing to see how flood risk management was treated in the vision and then see it as the first goal.
- Since providing flood risk management is a backstop, and may in some cases preclude design interventions, its importance should be communicated directly.
- The vision statement discusses community empowerment and development, but that is not evident in the goals.
- How is the idea of “multi-benefit” being applied to the goals?
- Discussion is needed about how we balance these and make them co-equal.
- There is lot to be enthusiastic about the goals, but there are some questions about how they reflect some of the major priorities the County is pursuing.



- Some actions are too specific and might lock in certain implementation plans to the exclusion of new opportunities that may become available.
- Goal six needs more work; some actions could go deeper whereas others are too specific.
- The Master Plan Update should address toxic drinking water due to industrial pollution.
- Information from the Los Angeles River Environmental Flows Study should be incorporated into the Master Plan Update and the study team should come back to present to the Steering Committee.

Needs and Opportunity Analysis

- The water supply slide indicates that fine-scale data might be missing, and this might mean that community needs are not accurately reflected.
- A corridor approach cannot address systemic watershed issues.
- Defining communities based on their distance from the river might be ignoring how those communities define themselves and so the asset mapping may not fully consider what constitutes cultural needs.
- The amount of analysis is significant, and to digest it might take more time than there is today.
- Balancing needs and competing interests in light of the Los Angeles River Environmental Flows Study and requirements for water quality, such as TMDLs and MS4 permits, need to be discussed.
 - A survey question asked what should be done with the low-flow water in the river, so survey information can help answer those questions.
- There is concern that this process will check boxes for needs and not discuss values.
- Climate change should be included in the needs and opportunities.
- The weighting of needs seems subjective. What kind approach was used to weight needs?
- Needs and opportunities are mixed in some categories, and it seems like areas that already have benefits are being prioritized.
- The level of analysis and data gathering on this project is impressive.
- The effort of analysis and deep thought by the project team are unparalleled and the hydrology workshop was extremely well done.
- The data for the City of Vernon suggests that it does not have park needs because it is based on population, but people working there and living in the nearby communities, such as Maywood, still have a connection to the river and have park needs.
- A bike and pedestrian count could help to see where and how people are using the river.



- Project costs and who is paying for the improvements needs to be addressed.
- Summaries of the Working Memos would be useful.

Site Selection and Kit of Parts

- It feels as if there might be a specific predetermined result for design interventions.
- Is there a prioritization of the typologies (kit of parts components)?
- Where is the data source documentation for the needs assessment and gap analysis?
 - The underlying data is in eight progress memos posted on the project website in November and December 2018. The memos are a compilation of all the project research, and while they will not be updated, comments that should be taken into account moving forward can be entered onto the website or send to the Public Works team.
- The County Equitable Development Committee is considering allowing developments in industrial zones, and it is alarming.
- Have utility corridors been considered as having potential for project sites?

Other Comments and Questions

- It is sometimes difficult to see how Steering Committee input and comments are incorporated.
- Is there a way to engage people who are not heard from as much as those at the Steering Committee meetings?
- Two comments were made suggesting the project team could review the website with the Steering Committee members and give an understanding of what is available on the site and where to find items.

9. Public Comment

Verbal Comments

During the public comment portion of the meeting, two people spoke, Melanie Winter from the River Project, and Sissy Trinh from the Southeast Asian Community Alliance. They addressed the following topics:

- The quantity of data does not equate quality or usefulness.
- Data needs to be publicly available.
- Does underutilized in reference to parcels indicate housing opportunities? Underutilized parcels may also be useful for other types of interventions.
- This meeting's content could have been spread over three meetings.
- Many people left this meeting to attend the Measure W meeting and scheduling should be checked between County initiatives.
- Many of the goals are exciting and there are opportunities to be leveraged. For example, on goal six, the LA Metro Business Interruption Fund and the Regional



Park and Open Space Districts technical assistance program for projects that are applying to Measure A can be utilized

- Some definitional clarity is needed since housing opportunities are only listed for the extra-large opportunity areas.
 - Housing opportunities can be considered on areas as small as an acre. It is also important to note that the small, medium, large, and extra-large project labels do not refer to the actual area or cost of the project but rather the overall impact.

Comment Cards

No comment cards were received during the meeting.

10. Wrap Up

Isaacson thanked participants and reminded them about the listing of upcoming events at the end of the agenda (see page 72 of Appendix B). The next Steering Committee meeting is scheduled for June 26, 2019. Input, questions, and ideas can be directed to Genevieve Osmeña at (626) 458-4322 or LARiver@dpw.lacounty.gov



Appendix A

Meeting Agenda



Los Angeles River Master Plan Update

Steering Committee Meeting #5

April 10, 2019, 9:00 a.m. – 12:00 p.m.

Agenda

Location

Los Angeles County Public Works Headquarters
900 South Fremont Avenue, Alhambra, CA 91803
Conference Rooms A-B

1. River Story Screening (5 minutes)

2. Welcome, Introductions and Agenda Overview (10 Minutes)

- Welcome
- Roundtable Introductions
- Meeting Purpose, Agenda, and Objectives

3. Steering Committee Updates (5 minutes)

- Steering Committee Charge
- Update on Progress Memos

4. Community Engagement Update (20 Minutes)

Objectives: 1) Report on recent input and how it relates to the Master Plan Update; 2) announce upcoming events; and 3) discuss feedback.

- Additional Meetings
- Community Outreach and Input Report
- Telephone Town Hall Report
- Community Partner Program
- Upcoming Events
- Q&A/Discussion

5. AB466/Upper Los Angeles River and Tributaries Working Group (10 minutes)

Objective: Provide information about planning process and timelines.

- Overview



- Q&A/Discussion

6. Subcommittee Meetings Report (15 Minutes)

Objective: Provide overview of recent Subcommittee meetings for consideration during discussion in today's and upcoming Steering Committee meetings.

- Subcommittee Hydrology Workshop
- December Subcommittee Meetings
- Q&A/Discussion

7. What's in the Plan (15 Minutes)

Objectives: 1) Present the second draft of the Table of Contents and the first draft of the Introduction for the Los Angeles River Master Plan; 2) review the most current vision statement for the Master Plan; and 3) discuss feedback.

- Table of Contents
- Introduction
- Role of the County
- Vision
- Q&A/Discussion

8. Goal-Driven Framework (80 Minutes)

Objectives: 1) Discuss the next steps for developing the goals, actions, and methods implementation matrix; 2) review the results of the gap analysis; 3) review initial site selection for project locations; 4) review initial planning concepts and intervention types; and 5) discuss feedback.

- Goals
- Design
 - Locating Projects: Needs, Opportunities, and Cadence
 - Site Selection
 - Kit of Parts
- Policy
 - Structure of Goals, Actions, and Methods
 - Implementation Matrix Next Steps
- Q&A/Discussion

9. Public Comment (15 Minutes)

- Verbal Comments



- Speakers to be called in order of speaker cards submittal, with caveat that all are welcome and encouraged to provide input, with or without filling out a card
 - Up to 15 minutes total for the Public Comment item
 - Total time per person will depend on number of speaker cards received
- Comment Cards
- Email Comments Anytime to LARiver@dpw.lacounty.gov

10. Wrap Up (5 Minutes)

- Next Steering Committee Meeting
 - Steering Committee Meeting #6 - Wednesday, June 26, 2019
- June Agenda Overview
- Upcoming Outreach Events
 - Community Meetings
 - Lynwood/East Rancho Dominguez - Wednesday, April 24, 2019
 - Pacoima - Wednesday, May 15, 2019
 - Community Partner Events
 - Resource Conservation District Clean Up Day at Sepulveda Basin - Saturday, April 13, 2019
 - Native Voices Symposium - Saturday, June 1, 2019
 - Pacoima Beautiful Summer Institute and Community Event - Monday, July 1, 2019
 - SELA Arts Fest - Saturday, July 27, 2019
- Input, Questions, Ideas? Contact Genevieve Osmena at (626) 458-4322 or LARiver@dpw.lacounty.gov



Appendix B

Meeting Presentation

LOS ANGELES RIVER

MASTER PLAN UPDATE

Steering Committee Meeting #5



10 April 2019

1

WELCOME

Source: OLIN

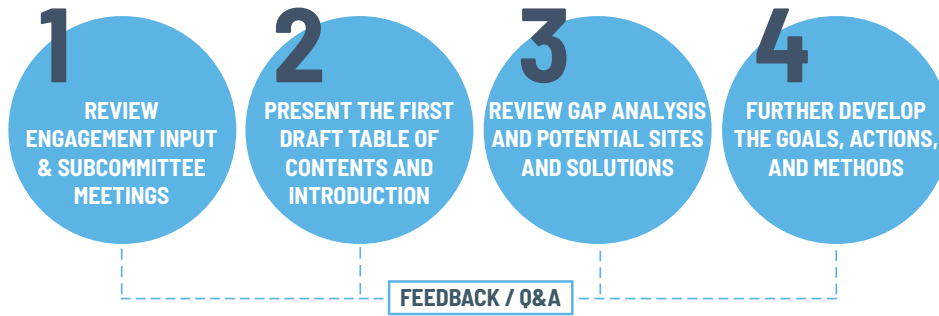
3

MEETING PURPOSE AND AGENDA

Source: OLIN

4

PURPOSE OF TODAY'S MEETING



MEETING AGENDA

WELCOME AND AGENDA OVERVIEW	COMMUNITY ENGAGEMENT UPDATE	SUBCOMMITTEE MEETINGS REPORT	WHAT'S IN THE PLAN	GOAL-DRIVEN FRAMEWORK	PUBLIC COMMENT	WRAP UP
<ul style="list-style-type: none"> • River story • Roundtable Introductions • Meeting Purpose, Agenda, and Objectives • Welcome and Steering Committee Updates 	<ul style="list-style-type: none"> • Other Meetings • Review Round 1 and Preview Round 2 • Studio City and West Valley Meetings • Community Partners Update • Upcoming Events • Discussion/Q&A 	<ul style="list-style-type: none"> • Subcommittee Hydrology Workshop • December Subcommittee Meetings • Discussion/Q&A 	<ul style="list-style-type: none"> • Table of Contents • Introduction • Role of the County • Vision • Discussion/Q&A 	<ul style="list-style-type: none"> • Locating Projects: Needs, Opportunities, and Cadence • Site Selection • Goal-Driven Design Framework: Kit of Parts • Policy • Discussion/Q&A 	<ul style="list-style-type: none"> • Verbal Comments • Comment Cards • Email Comments Anytime to LARiver@dpw.lacounty.gov 	<ul style="list-style-type: none"> • Important Upcoming Dates • June Agenda Overview • Community Outreach Events

INPUT, QUESTIONS, IDEAS?
 Contact Genevieve Osmena at (626) 458-4322
 or LARiver@dpw.lacounty.gov



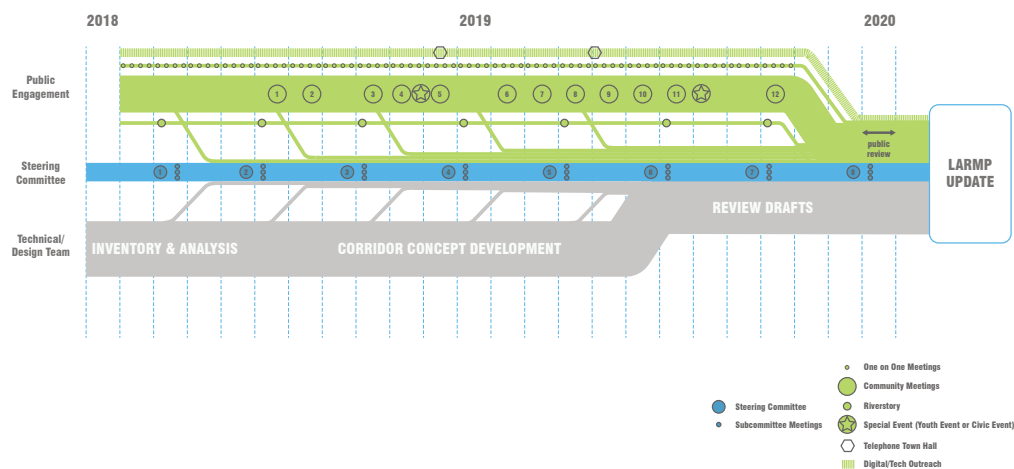
STEERING COMMITTEE CHARGE

To guide the Master Plan Update by providing input, ideas, comments, and feedback throughout the planning process, incorporating members' expertise, knowledge, and resources. The consultant team and Department of Public Works will consider the Steering Committee input when preparing the updated Master Plan, along with input from the broader community and stakeholder involvement process, technical and regulatory requirements, and other County needs and goals.

STEERING COMMITTEE MEMBER COMMITMENTS

- Contribute input based on knowledge and expertise in policy, technical, and community matters, while also considering planning from a holistic, river-wide perspective, seeking opportunities for a unified vision and continuity, balanced with recognition of the diversity in goals and needs in River communities.
- Partner with the project team in publicizing community engagement activities and generating involvement that represents the range and diversity of communities in the 51-mile Los Angeles River corridor, and attend community engagement activities on a regular basis.
- Consider community input and input from other stakeholders in Steering Committee meeting discussions.
- Participate at all meetings in-person or send an alternate for the entire two-year planning process.
- Review reference materials in advance of Steering Committee meetings.

LA RIVER MASTER PLAN SCHEDULE



STEERING COMMITTEE FRAMEWORK

	2018				WE ARE HERE 2019 ↓			
	1	2	3	4	5	6	7	8
Key Theme & Tentative Date	LAUNCH 11 APRIL 2018	INVENTORY & VISION PRINCIPLES 27 JUNE 2018	GOALS & ANALYSIS 26 SEPTEMBER 2018	GAPS & PLANNING 12 DECEMBER 2018	PRIORITIES & OPPORTUNITIES 10 APRIL 2019	DESIGNS & PLANS 26 JUNE 2019	PLANS & STANDARDS 25 SEPTEMBER 2019	DRAFT REVIEW 5 DECEMBER 2019
Dialogue Focus	Vision Brainstorming Project Schedule and Scope Committee Organization Draft Community Outreach Plan, Branding Strategy, and Website Flood Control History, Plan Priorities, Channel Strategies	Draft Vision Principles Existing Conditions Literature Review Community Outreach Plan Demographics, Affordable Housing, Displacement	Revised Draft Vision and Goals Goal-Driven Planning Jurisdictional Boundaries Water Resources, O&M, Access and Security, Safety, Homelessness Youth Summit	Policy Framework Planning Reaches Design Guidelines Review Geographic Gap Analysis Intro	Gap Analysis and Reach Prioritization Draft Planning Concepts Table of Contents Revised Goals, Actions, & Methods Introduction	Planning and Design Concepts Design Guidelines Goals, Actions, & Methods	Design Concepts and Design Guidelines Update	Preview of LARMP Key Concepts
WELCOME	ENGAGEMENT UPDATE	SUBCOMMITTEE REPORT	WHAT'S IN THE PLAN	GOAL-DRIVEN FRAMEWORK	PUBLIC COMMENT	WRAP UP	11	

Q & A AND DISCUSSION

Source: OLIN

12

COMMUNITY ENGAGEMENT UPDATE

Source: UBACE, Los Angeles District. E-1577, NW of 7th St - 9-7-1927, <http://capi.maps.arcgis.com/apps/MapSeries/index.html?appid=16884b7c54f658285a7c7c23baf9>

13

MEETINGS WITH OTHER ORGANIZATIONS

UPPER LA RIVER AND TRIBUTARIES (AB466)

February 28, 2019



- Data compilation ongoing includes park need, land opportunities, and project database
- Site ID with prioritization planning consistent with Lower LA River Revitalization Project
- Gap Analysis and Project Criteria Development updates as well along tributaries

RIVER RANGERS (AB1558)



Source: Arroyo Seco Foundation, <https://www.arroyoseco.org/rangers.htm>

Program Goals:

- Maintenance and Resource Management
- Public Safety
- Recreation, Interpretation, and Educational Programs
- Outreach
- Administration

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

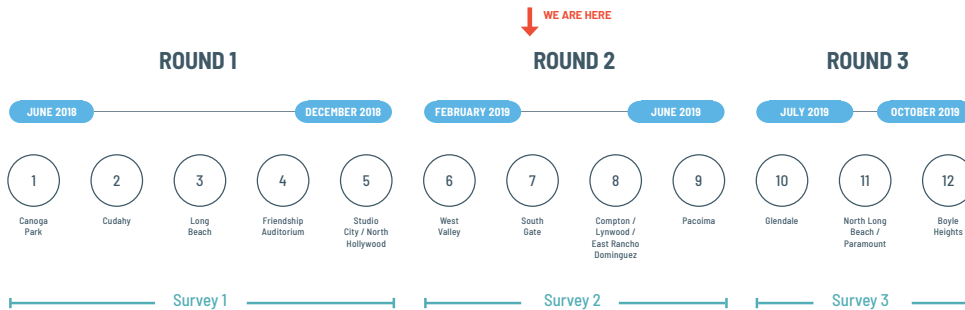
GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

ENGAGEMENT UPDATE

COMMUNITY ENGAGEMENT MEETINGS



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

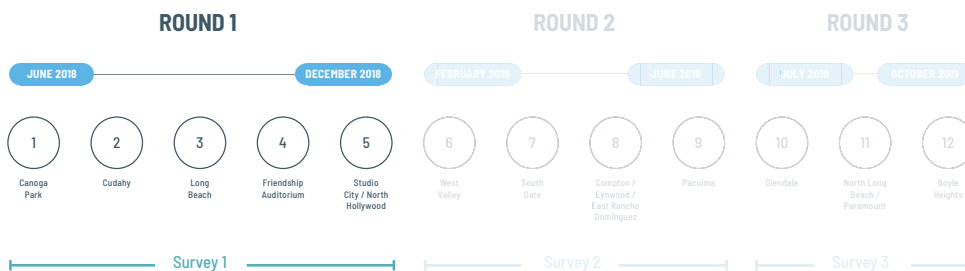
GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

ENGAGEMENT UPDATE ROUND 1

COMMUNITY ENGAGEMENT MEETINGS



WELCOME

ENGAGEMENT UPDATE

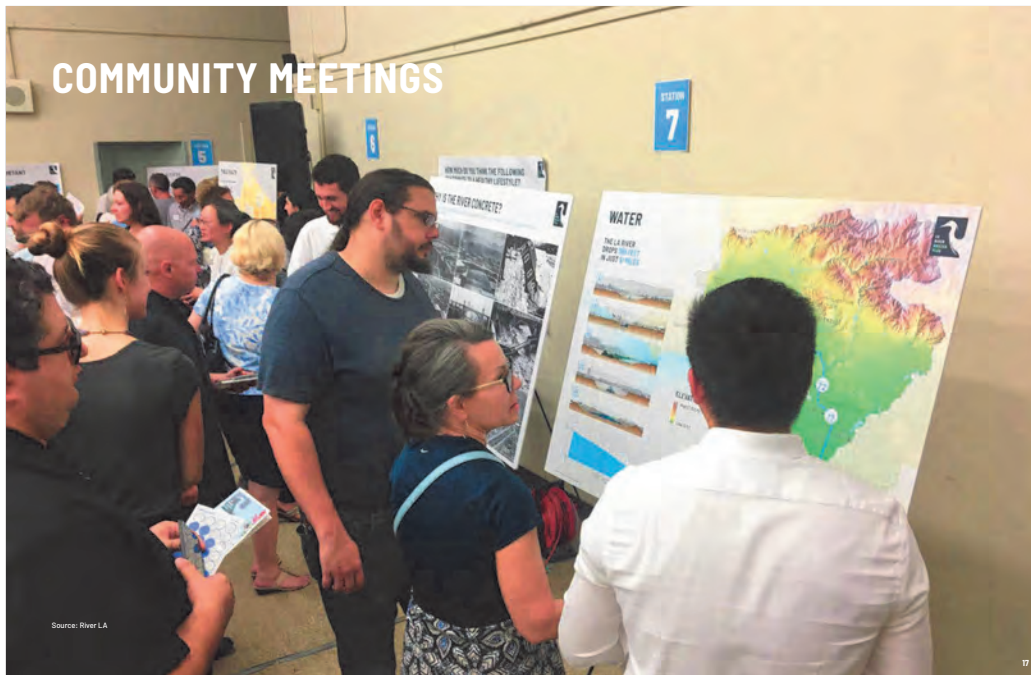
SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP



Source: River LA



Source: OLIN



FRIENDSHIP AUDITORIUM

NOVEMBER 13, 2018

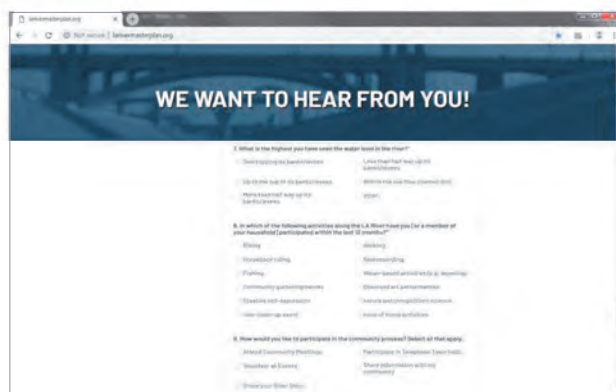
Source: OLIN



ENGAGEMENT UPDATE ROUND 1

DRAFT

SURVEYS



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

21

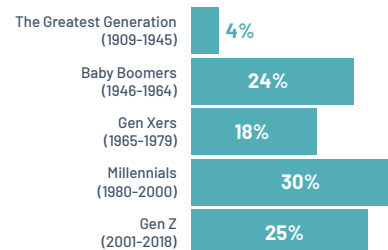
ENGAGEMENT UPDATE ROUND 1

DRAFT

OVER 1,550 ENGAGED IN COMMUNITY MEETINGS & SURVEY

167	Community members attended the Canoga Park meeting
126	Community members attended the Cudahy meeting
129	Community members attended the Long Beach meeting
214	Community members attended the Friendship Auditorium meeting
104	Community members attended the Studio City meeting
500	Completed digital and in-person surveys as of January 29, 2019
332	Completed Youth Summit surveys

GENERATIONS REPRESENTED: (Total from Survey + Community Meetings + Youth Summit)



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

22



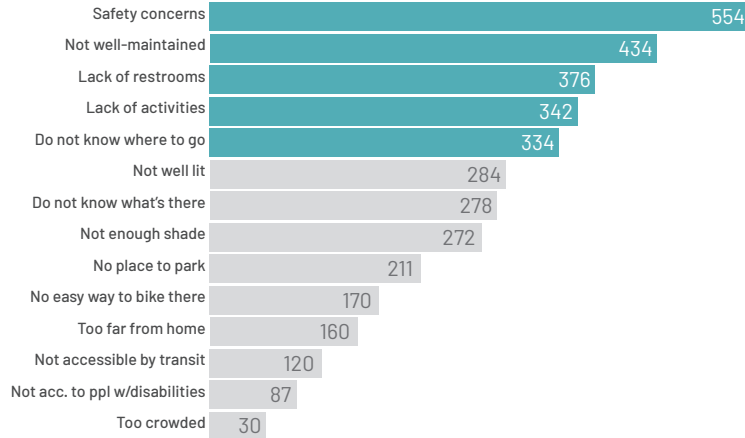
WHICH ISSUES ARE MOST IMPORTANT TO YOU?



WHAT 3 WORDS WOULD YOU USE TO DESCRIBE THE LA RIVER?

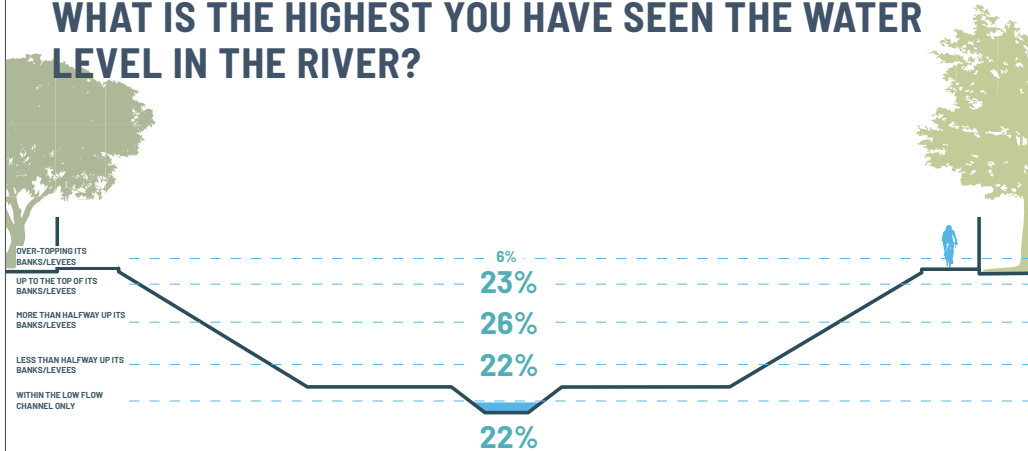


WHAT KEEPS YOU FROM VISITING THE LA RIVER?



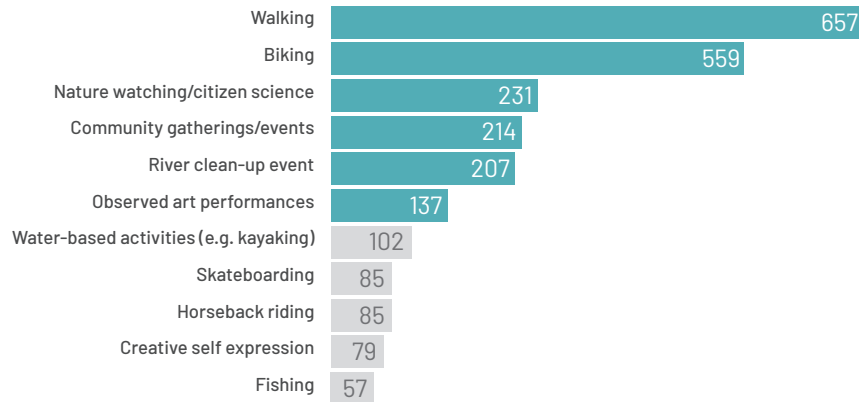
Source: Community Meetings, Survey, and Youth Summit

WHAT IS THE HIGHEST YOU HAVE SEEN THE WATER LEVEL IN THE RIVER?



Source: Community Meetings, Survey, and Youth Summit

IN WHAT ACTIVITIES HAVE YOU PARTICIPATED ALONG THE LA RIVER?



Source: Community Meetings, Survey, and Youth Summit

COMMUNITY ENGAGEMENT MEETINGS





ENGAGEMENT UPDATE ROUND 2 (FEBRUARY - MARCH)

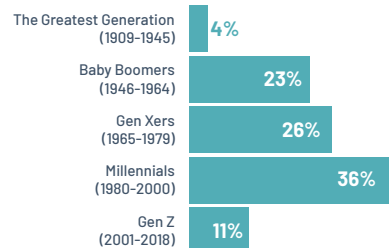
205 ENGAGED IN COMMUNITY MEETINGS & SURVEY

110 Community members attended the West Valley meeting

75 Community members attended the South Gate meeting

20 Completed digital and in-person surveys as of February 28, 2019

GENERATIONS REPRESENTED:



Source: Community Meetings, Survey

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

33

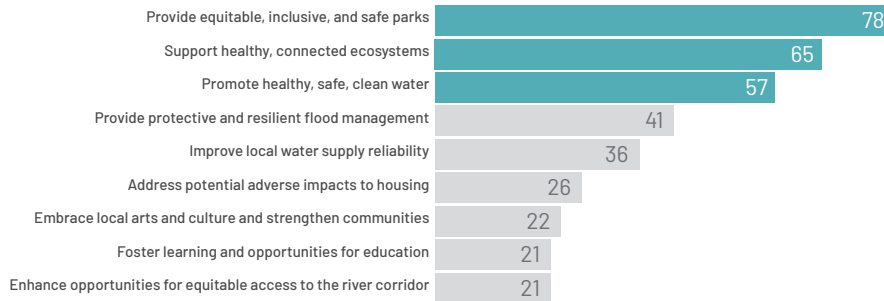
ENGAGEMENT UPDATE ROUND 2 (FEBRUARY - MARCH)

WHERE DO YOU LIVE?

- West Valley Attendees
- South Gate Attendees
- Digital Survey Respondents

Source: Community Meetings, Survey

WHICH OF THE GOALS FOR THE LA RIVER ARE MOST IMPORTANT TO YOU?



Source: Community Meetings, Survey

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

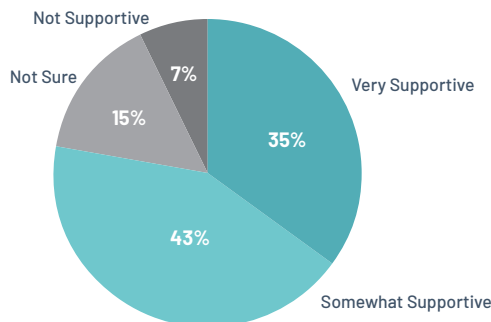
GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

35

HOW SUPPORTIVE ARE YOU OF SOME INCREASE IN TAXES TO FUND PROJECTS THAT WOULD ACHIEVE THE 3 GOALS FOR THE LA RIVER YOU IDENTIFIED AS MOST IMPORTANT TO YOU?



Source: Community Meetings, Survey

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

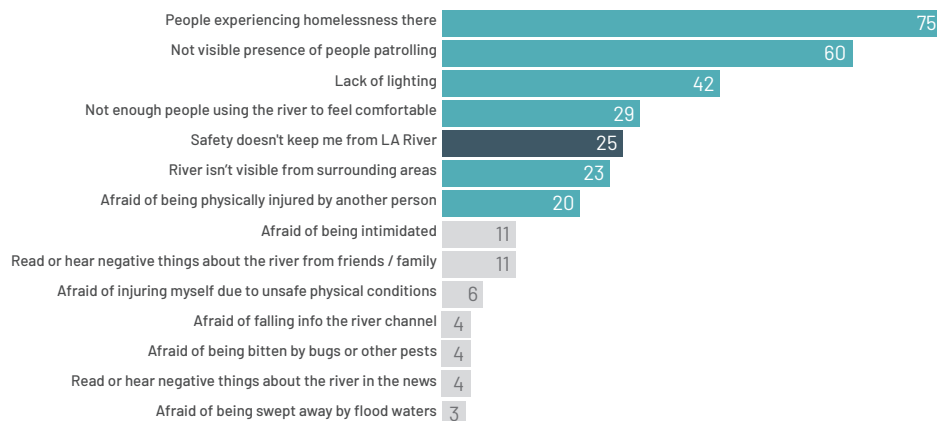
GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

36

WHAT ABOUT SAFETY KEEPS YOU FROM VISITING THE LA RIVER?



Source: Community Meetings, Survey

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

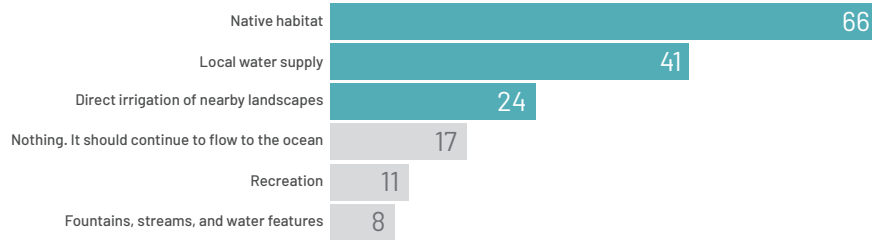
GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

37

WHEN IT'S NOT RAINING, THERE IS STILL FLOW IN THE LA RIVER. WHAT DO YOU THINK IS A BETTER USE FOR THIS WATER INSTEAD OF LETTING IT FLOW TO THE OCEAN?



Source: Community Meetings, Survey

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

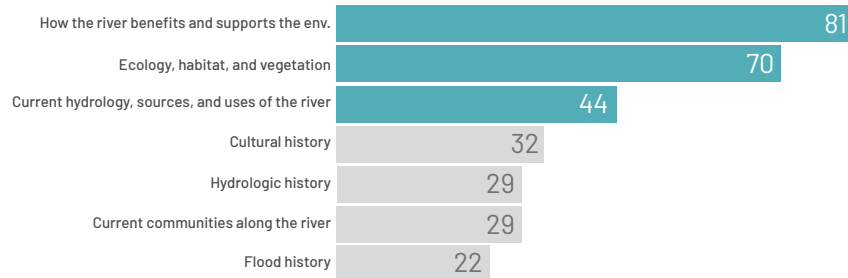
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

WHAT DO YOU THINK IS MOST IMPORTANT FOR PEOPLE TO LEARN ABOUT THE LA RIVER?



Source: Community Meetings, Survey

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

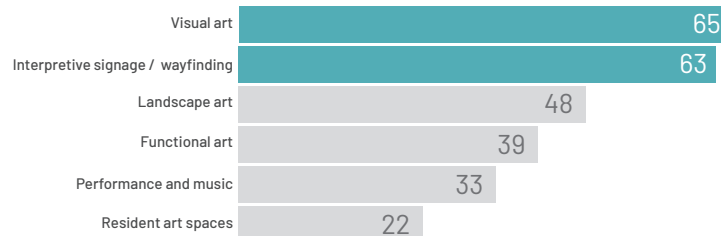
GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

DRAFT

WHAT TYPES OF ART WOULD YOU LIKE TO SEE OR PARTICIPATE IN ALONG THE LA RIVER?



Source: Community Meetings, Survey

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

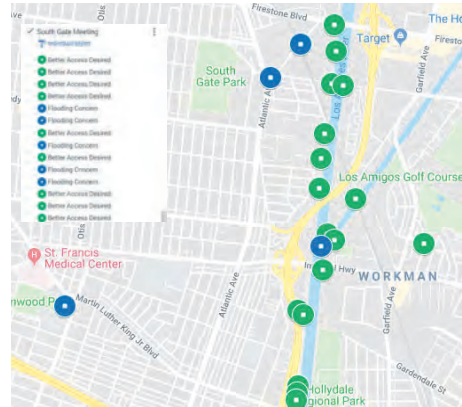
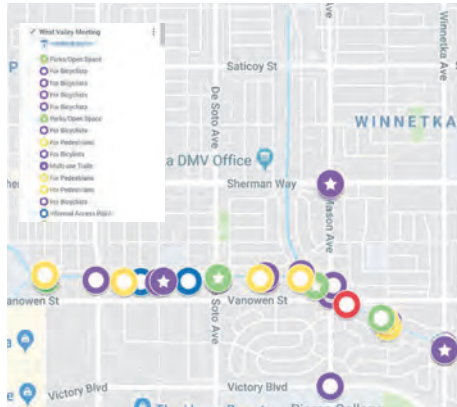
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

YOUR STRETCH OF THE RIVER



Source: West Valley Community Meeting responses

WELCOME **ENGAGEMENT UPDATE** SUBCOMMITTEE REPORT WHAT'S IN THE PLAN GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT WRAP UP 41

ENGAGEMENT UPDATE

TELEPHONE TOWN HALLS

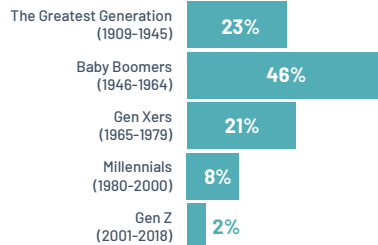
MARCH 12, 2019

Long Beach to Downtown LA

MARCH 13, 2019

Downtown LA to Canoga Park

DEMOGRAPHICS



542 Number of participants on the line at one time

5,592 Total number of participants

36,946 Households called within a half mile of the river

WELCOME **ENGAGEMENT UPDATE** SUBCOMMITTEE REPORT WHAT'S IN THE PLAN GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT WRAP UP 42

ENGAGEMENT UPDATE

TELEPHONE TOWN HALLS

QUESTIONS ANSWERED LIVE!

- Have you taken into account native plants and trees?
- How will the homeless be accommodated?
- Is it possible to save some of the run-off for a drought?
- What measures are being taken to ensure safety of areas near the flood zone?
- How far is the LA River going to expand?
- What does the master plan include?
- Can we capture more trash before it gets to the river?
- When are they going to get rid of barrels that should never have been installed?
- What provisions are being made to bring back the wildlife, like the Valley Bullfrog?
- Are they going to plant milkweed along the river to help sustain the monarch butterfly?
- How much is this going to cost and who will be paying for it?
- Are there any plans to capture runoff?
- What are the options for habitat/adaptation if reclaimed water is used by residents?

WELCOME **ENGAGEMENT UPDATE** SUBCOMMITTEE REPORT WHAT'S IN THE PLAN GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT WRAP UP 43

COMMUNITY PARTNERS

- Resource Conservation District of the Santa Monica Mountains
- Pacoima Beautiful
- Fernandeños Tataviam Band of Mission Indians
- Gabrieliños/Tonga Band of Mission Indians
- Anahuak
- From Lot to Spot
- East Yard Communities for Environmental Justice
- Friends of the LA River
- Las Fotos Project
- Weaving the River



UPCOMING COMMUNITY PARTNER EVENTS

- Resource Conservation District Clean Up Day at Sepulveda Basin – April 13, 2019
- Native Voices Symposium – June 1, 2019
- Pacoima Beautiful Summer Institute and Community Event – July 1, 2019
- SELA Arts Fest (Exhibitors) – July 27, 2019
- Tabling Events and Pop-ups



Sepulveda Basin Wildlife Reserve Community Event & Clean-Up

Free Event! April 13, 2019 Free Event!
8:30am - 1:00pm
 Sepulveda Basin Wildlife Reserve
 6100 Woodley Ave., Van Nuys, CA 91406

Creek Clean-Up | 8:30am - 12:00pm
 Start the day helping the San Fernando Valley Audubon by cleaning up Haskell Creek, where it runs through the Sepulveda Basin Wildlife Reserve.
Older children welcome but must be accompanied by adult.

Community Event | 10:30am - 1:00pm
Lots of hands-on experiences!
—All ages welcome!—
 Join RCD Educators to learn more about the L.A. River and Sepulveda Basin.

- Take a guided hike to the dam
- Check out live plankton in microscopes
- Use binoculars to view the birds
- Test the water quality of the lake
- Visit booths to learn more about enjoying the L.A. River

Meet at the amphitheater. Stay right of the Japanese Garden and continue all the way to the end of Wildlife Way.

Wear sturdy shoes! Please come ready to get muddy and possibly wet during clean-up!

RSVP or questions: rcdsmm.edu@gmail.com



LA RIVER NATIVE COMMUNITY DISCUSSION

Panelists

Julia Bogary
 Cultural Affairs
 Department of the City of Los Angeles

Pamela Villanor
 Executive Director
 Farmington Valley Band of Mission Indians

Debbie Renee Martin
 Tongva (Palaam)

Moderator

Joseph A. Gonzalez
 Development Director
 United American Indian Movement

Jorge "Beto" Gomez
 Head Director of the
 Tongva (Palaam) Band of Mission Indians

Clementine Gonzalez
 Co-Chairman, LA River
 County Native American Commission

The County of Los Angeles is updating its LA River Master Plan. It is a comprehensive approach covering all 51 miles of the River. The effort was launched to update the original 1990 master plan, synthesizing more recent ideas for portions of the River and bringing a comprehensive vision to the transformation of the L.A. River. To do this, LA County is partnering with community organizations throughout the region to incorporate your needs, concerns, hopes, and the vision for the entire Los Angeles River.

The LA River Master Plan recognizes and acknowledges the first people of this ancestral and unceded territory that the river runs through. With respect to their elders, past and present, we recognize that the Gabrielino Tongva, Farmington Valley and Ventura's Chumash who are still here and are committed to lifting up their stories and culture.

The Autry Museum
 4700 Western Heritage Way
 Los Angeles, CA 90027

Saturday, June 1, 2019
 11 am to 2 pm
 RVSP: <http://go.gl/xSuACF>



LA RIVER MASTER PLAN COMMUNITY MEETING

COMPTON

JOIN US FOR A MEETING WHERE YOU'LL:

- Share your thoughts on the future of the LA River
- Hear the vision of the LA River Master Plan
- Receive updates on river-related issues

Date: Wednesday, April 24, 2019
Time: 6 - 8 pm
Location: East Rancho Dominguez Park
 15116 S. Atlantic Ave.
 Compton, CA 90221

This event is free and open to the public. Refreshments will be provided.

For information, visit LARiverMasterPlan.Org for email updates and event recaps.

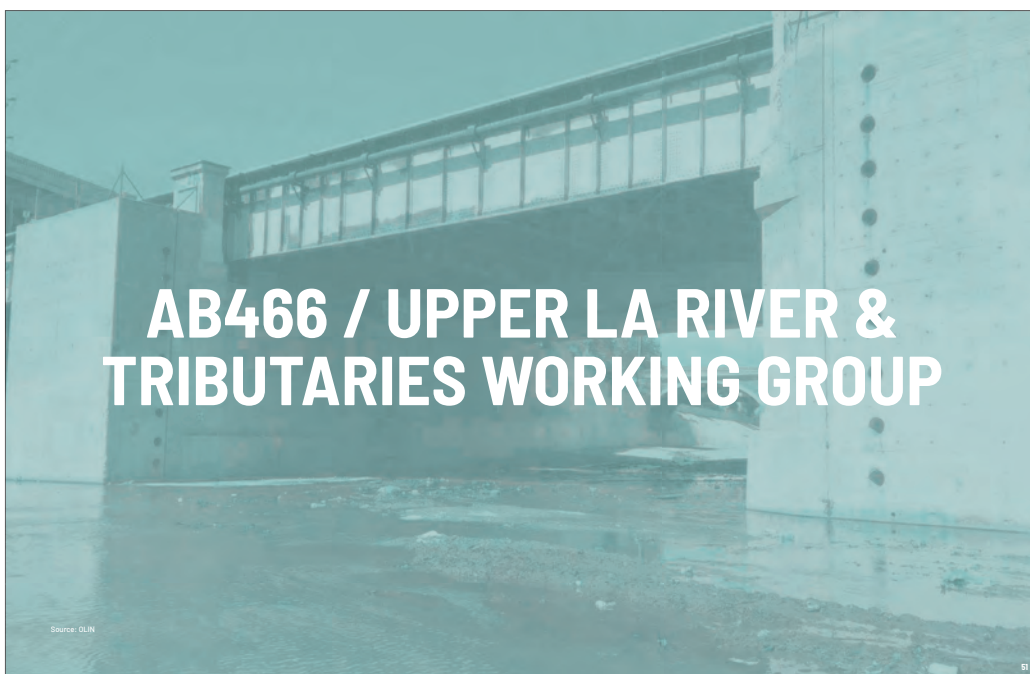
LARiverMasterplan.org



Q & A AND DISCUSSION

Source: DLN

50



AB466 / UPPER LA RIVER & TRIBUTARIES WORKING GROUP

Source: DLN

51



Q & A AND DISCUSSION

Source: DLN

52



SUBCOMMITTEE MEETINGS REPORT

SPECIAL SUBCOMMITTEE WORKSHOP ON HYDROLOGY + HYDRAULICS

March 20, 2018

Los Angeles River
Center and Gardens

*Thank you Rivers and
Mountains Conservancy*

HYDROLOGY

HYDRAULICS

LA RIVER

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

OK

CONTEXT - RECENT STORM (FEB 2, 2019)

ABC News 7, Rain Swollen Los Angeles River Roars in Glendale:
<https://abc7.com/weather/video-rain-swollen-los-angeles-river-roars-in-glendale/5118212/>

IDEAS TO...

REDUCE FLOWS TO THE CHANNEL

- Low Impact Development
- Best Management Practices
- Distributed Storage
- Increase Sepulveda and Hansen Flood Control Basins
- Additional Flood Control Basins

INCREASE CHANNEL CAPACITY

- Increase Channel Width
- Increase Levee Height
- Bypass Tunnel
- Sediment Removal/Vegetation Conversion
- Concrete

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

58

IMPERVIOUS SURFACE BASELINE

0% Impervious
100% Impervious
Baseline Condition

IMPERVIOUS SURFACE 10% REDUCTION

0% Impervious
100% Impervious
Volume Reduction: 1,866 AF
Fraction of 2037 Goals: 36%

IMPERVIOUS SURFACE 28% REDUCTION

0% Impervious
100% Impervious
Volume Reduction: 5,186 AF
Fraction of 2037 Goals: 100%

Source: LA County GIS Data Portal NLCD 2011 Impervious Surface.

IMPERVIOUS SURFACE 50% REDUCTION

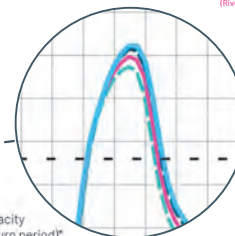
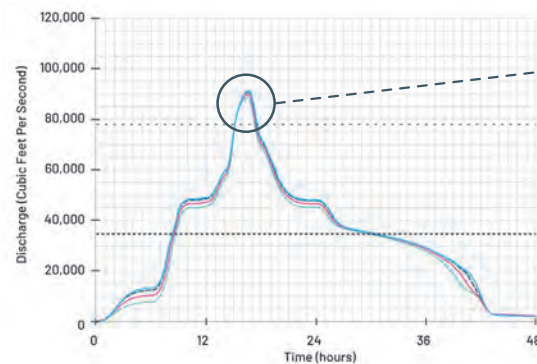
0% Impervious
100% Impervious
Volume Reduction: 9,331 AF
Fraction of 2037 Goals: 180%

Source: LA County GIS Data Portal NLCD 2011 Impervious Surface.

SUBCOMMITTEE MEETINGS REPORT

HYDROLOGIC MODELING WITH VARYING LEVELS OF LID

Hydrograph: Glendale Narrows, River Mile 29



Baseline Imperviousness
10% Reduction in Imperviousness
28% Reduction in Imperviousness
50% Reduction in Imperviousness

Source: Geosyntec, OLIN

* Flow rates and return periods from Table 17 of H1 Appendix E (USACE, 2015)

HEC-HMS

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

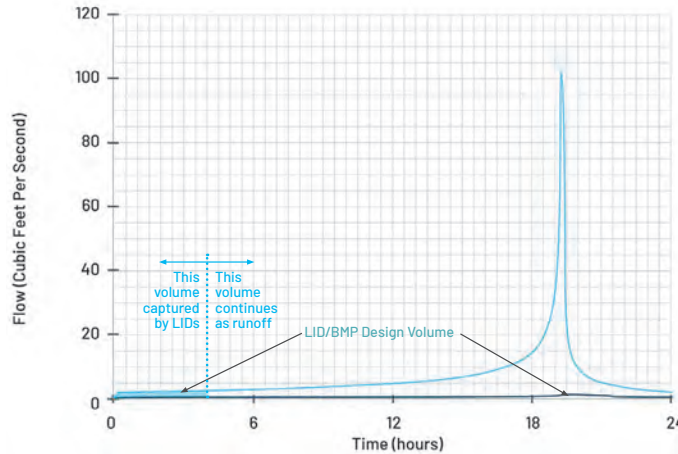
GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

59

HYDROLOGIC MODELING

Source: <http://dpw.lacounty.gov/eng/publication/Engineering/hydrology/HydroCalc.zip>

Hydrograph: Sub Area 1

- E.g. 40 acre parcel
- LIDs/BMP “filled up” within first 4 hours of a storm
- Significant benefit to water quality and water conservation
- Provides urban green space
- Minimal ability to impact peak flow rate
- Minimal impact to reducing stormwater volume in channel during large storm events.

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

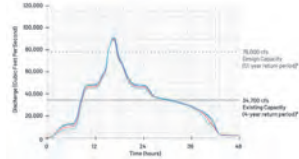
WRAP UP

SUBCOMMITTEE MEETINGS REPORT

ALTERNATIVES STUDIED

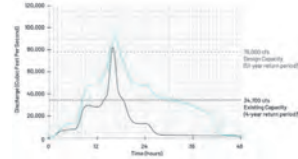
NARROWS 100-YEAR STORM

Hydrograph: Glendale Narrows, River Mile 29



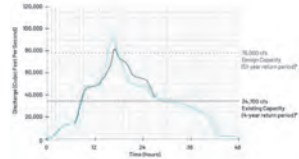
NARROWS 100-YEAR STORM WITH LARGER BASINS

Hydrograph: Glendale Narrows, River Mile 29



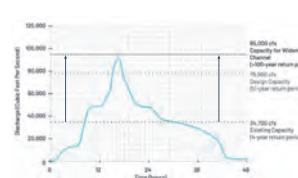
NARROWS 100-YEAR STORM WITH EXTRA BASINS

Hydrograph: Glendale Narrows, River Mile 29



100-YEAR STORM WITH A WIDER CHANNEL

Hydrograph: Glendale Narrows, River Mile 29



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

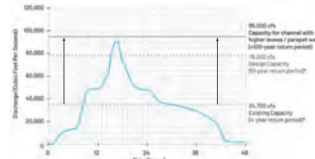
WRAP UP

SUBCOMMITTEE MEETINGS REPORT

ALTERNATIVES STUDIED

100-YEAR STORM WITH HIGHER LEVEES / PARAPET WALLS

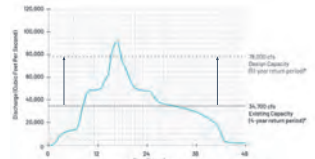
Hydrograph: Glendale Narrows, River Mile 29



100-YEAR STORM WITH REFURBISHMENT

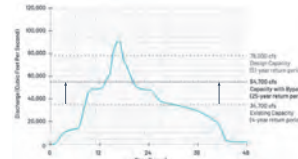
To increase channel capacity: remove invasives, remove sediment, maintain channel, replace exotic with native grasses.

Hydrograph: Glendale Narrows, River Mile 29



100-YEAR STORM WITH BYPASS TUNNEL

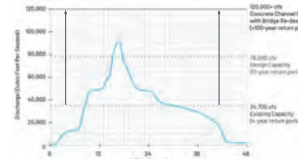
Hydrograph: Glendale Narrows, River Mile 29



100-YEAR STORM WITH CONCRETE BOTTOM

To increase channel capacity: Harden the channel bottom to reduce friction.

Hydrograph: Glendale Narrows, River Mile 29



WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

HOW THE IDEAS RELATE TO THE GOALS

REDUCE FLOWS TO THE CHANNEL

- Low Impact Development [3, 8, 9]
- Best Management Practices [3, 8, 9]
- Distributed Storage [8, 9]
- Increase Sepulveda and Hansen Flood Control Basins [1]
- Additional Flood Control Basins [1]

INCREASE CHANNEL CAPACITY

- Increase Channel Width [1, 2, 3]
- Increase Levee Height [1]
- Bypass Tunnel [1, 2, 3, 8]
- Sediment Removal/
Vegetation Conversion [1, 2, 3, 9]
- Concrete [1]

SUBCOMMITTEE MEETINGS #4

December 17, 2018

Los Angeles River
Center and Gardens

*Thank you Rivers and
Mountains Conservancy*





WHAT'S IN THE PLAN

WHAT'S IN THE PLAN

ANALYSIS & INPUT

- Existing Conditions
- Community Engagement

RECOMMENDATIONS

- Goals
- Design Framework

IMPLEMENTATION

- Operations & Maintenance
- Funding

WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT **WHAT'S IN THE PLAN** GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT WRAP UP 66

WHAT'S IN THE PLAN

INTRODUCTION

- Building on other plans
- Watershed and community approach to a corridor plan
- Resiliency
- Governance & multi-jurisdictional collaboration

WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT **WHAT'S IN THE PLAN** GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT WRAP UP 67

THE ROLE OF THE COUNTY AND COORDINATION

Similar to the 1996 LA River Master Plan, the 2020 Plan will be used to guide LA County decision making for LA River projects and facilities owned, operated, funded, and/or maintained by the County. Other agencies and municipalities are encouraged to adopt the LA River Master Plan for their jurisdictions and communities and partner with LA County in making the Reimagined River a reality.

WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT **WHAT'S IN THE PLAN** GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT WRAP UP 68

VISION

The Reimagined River

Fifty-one miles of connected open space that includes clean water, native habitat, parks, multiuse trails, art, and cultural resources to improve health, equity, access, mobility, and economic opportunity for the diverse communities of LA County, while providing flood risk management.

WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT **WHAT'S IN THE PLAN** GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT WRAP UP 69





DESIGN

HOW DO WE LOCATE NEW PROJECTS?

Align need, opportunity, and cadence along the LA River corridor considering existing and planned projects.



GOAL-BASED NEEDS CRITERIA

1. FLOOD RISK MANAGEMENT

Level of Channel Protection
Flood Plains
Critical Infrastructure & Facilities

2. PARKS

Parks Needs Assessment
CalEnviroScreen 3.0

3. ECOSYSTEM

Existing Vegetation
Unprotected Areas
Protected Areas Buffer
Habitat Linkages

4. ACCESS

River Trail Access Points
River Trail Gaps
Adjacent Trail Gaps
Health Composite
Proximity to Metro Stops, Parks, & Schools

5. ARTS & CULTURE

Arts & Culture Asset Mapping
Population Density
Household Income

6. HOUSING AFFORDABILITY

Displacement Risk

7. ENGAGEMENT & EDUCATION

Education Asset Mapping
Population Density

8. WATER SUPPLY

Regional Need

9. WATER QUALITY

EWMP/WMP Score
Water Quality Priority

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

DESIGN

PROPOSED EXTRA LARGE PARKS (XL)

Draft Example from December 2018



NEEDS ANALYSIS

Source: OLIN

EXAMPLE: GOAL RATIONALE

Goal: Provide equitable, inclusive, and safe parks, open space, and trails.

COMMUNITY INPUT	In community meetings and surveys, the top two activities that people indicated they participate in along the river are walking and bicycling—with combined participation greater than all other activities combined. Yet, the top reason people do not use the river is due to safety concerns, identified by 61% of participants.
	This is apparent when looking at available parks and trails. Many cities along the LA River do not meet the World Health Organization's minimum standards of 2.2 acres of parks per thousand people, and only 31 of the river's 51 miles have trails.

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

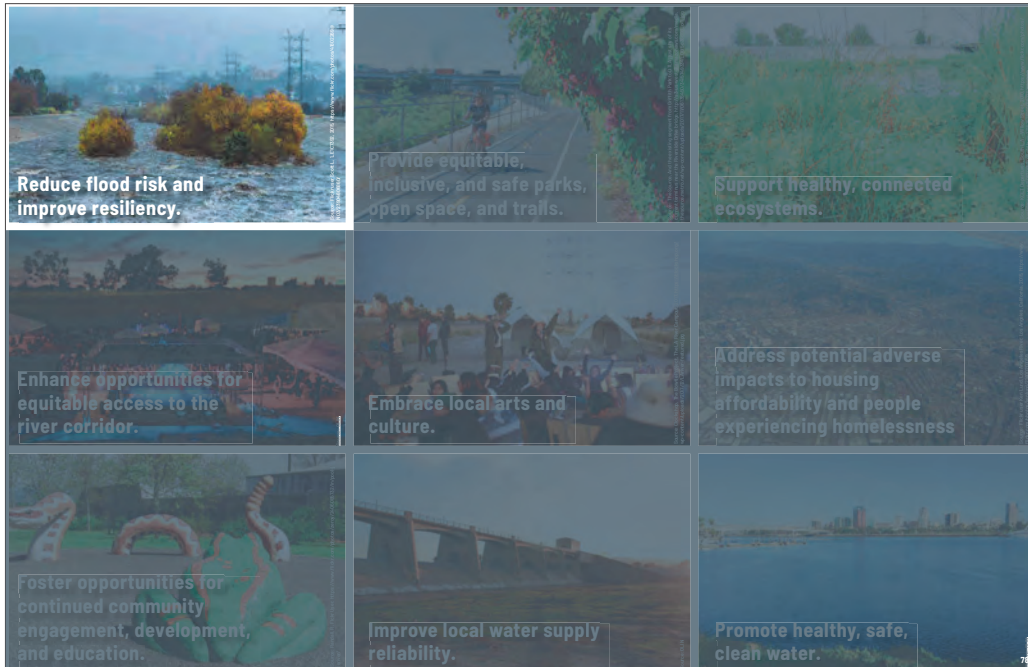
WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

77



NEEDS ANALYSIS

FLOOD RISK MANAGEMENT

Level of Channel Protection^{1,2,3} (45%)
 Flood Plains⁴ (45%)
 Critical Infrastructure and Facilities⁵ (10%)

Need Analysis:
 Highest Need
 Lowest Need

Footnotes:
 1. Level of channel protection from GIS Segments to top of ARBOR Study reaches interpolated from point locations within U.S. Army Corps of Engineers (USACE) Los Angeles District, 1991. Los Angeles County Drainage Area: Review, Part I Hydrology Technical Report: Base Conditions, Plate 4: Levels of Protection Base Conditions.
 2. Level of channel protection within ARBOR Study reaches from USACE, Los Angeles District, 2019. Los Angeles River Ecosystem Restoration Integrated Feasibility Report, Final Feasibility Report and Environmental Impact Statement/Environmental Impact Report, Appendix E, Table 17: Original Design Discharge and Existing Channel Capacity.
 3. Level of channel protection from bottom of ARBOR Study reaches to Pacific Ocean interpolated from point locations within USACE, Los Angeles District, 1991. Los Angeles County Drainage Area: Review, Part II Hydrology Report, Project Alternatives, Plate 11: NED Plan Levels of Protection.
 4. 100-year flood plain for ARBOR Study area from USACE Floodplain Management Services Special Study Los Angeles River Floodplain Analysis, October 2018, remaining 100- and 500-yr flood plains from Los Angeles County GIS Data Portal, Flood Zones: The Flood Insurance Study (FIS) for Los Angeles County was issued by FEMA in 2008 and revised in 2018.
 5. Critical Infrastructure and Facilities from Los Angeles County GIS Data Portal, Points of Interest, 2018 & Los Angeles County GIS Data Portal, Disaster Routes, 1998 & California Department of Transportation, California Rail Network, 2013 & EPA, FHS (Hospital) Data, 2018 & State of California Energy Commission, California Electric Transmission Line, 2018 & California Department of Conservation, All Wells, 2018. Only facilities inside 100- and 500-yr floodplains included in needs scoring.
 Source: OLIN, Geosyntec

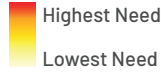


NEEDS ANALYSIS

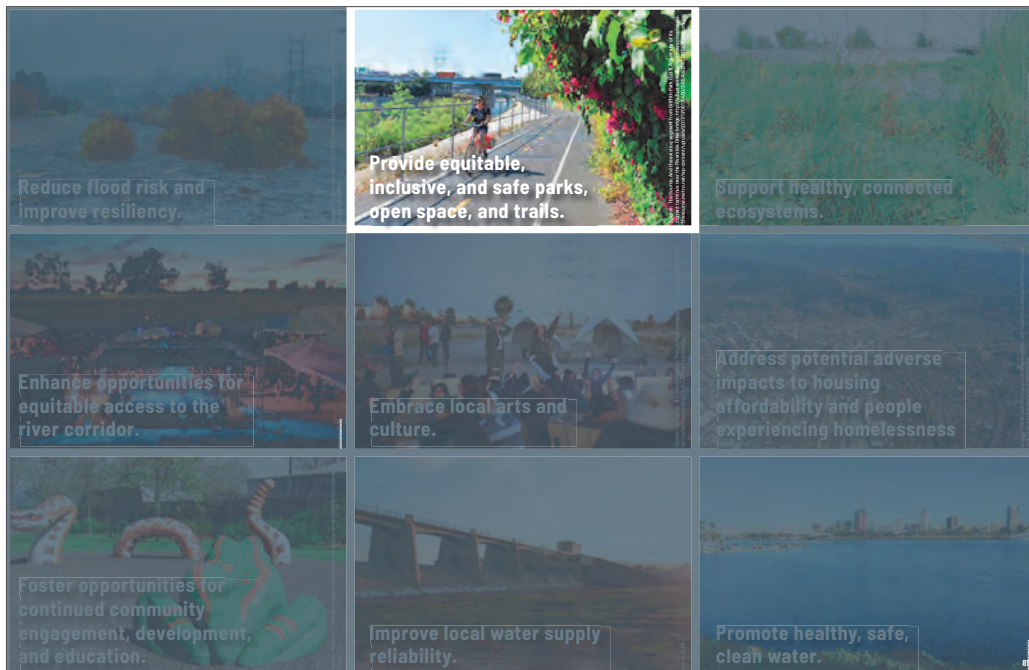
FLOOD RISK MANAGEMENT

Level of Channel Protection^{1,2,3} (45%)
Flood Plains⁴ (45%)
Critical Infrastructure and Facilities⁵ (10%)

Need Analysis:



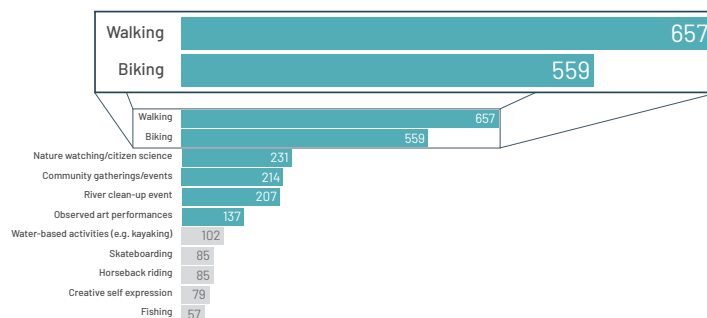
Footnotes:
1. Level of channel protection from DS Sepulveda to top of ARBOR Study reaches interpolated from point locations within U.S. Army Corps of Engineers (USACE) Los Angeles District. 1991. Los Angeles County Drainage Area: Review, Part I Hydrology Technical Report: Base Conditions. Plate 4: Levels of Protection Base Conditions.
2. Level of channel protection within ARBOR Study reaches from USACE. Los Angeles River Ecosystem Restoration Integrated Feasibility Report, Final Feasibility Report and Environmental Impact Statement/Environmental Impact Report, Appendix E, Table 17: Original Design Discharge and Existing Channel Capacity.
3. Level of channel protection from bottom of ARBOR Study reaches to Pacific Ocean interpolated from point locations within USACE. Los Angeles District. 1991. Los Angeles County Drainage Area: Review, Part I Hydrology Report, Project Alternatives, Plate 11: NED Plan Levels of Protection.
4. 100-year flood plain for ARBOR Study area from USACE Floodplain Management Services Special Study Los Angeles River Floodplain Analysis, October 2018, remaining 100- and 500-yr flood plains from Los Angeles County GIS Data Portal, Flood Zones: The Flood Insurance Study (FIS) for Los Angeles County was issued by FEMA in 2008 and revised in 2016.
5. Critical Infrastructure and Facilities from Los Angeles County GIS Data Portal, Points of Interest, 2008 & Los Angeles County GIS Data Portal, Disaster Routes, 1998 & California Department of Transportation, California Rail Network, 2013 & EPA, FRS Geospatial Data, 2018 & State of California Energy Commission, California Electric Transmission Line, 2018 & California Department of Conservation, All Wells, 2018. Only facilities inside 100- and 500-yr floodplains included in needs scoring.
Source: OLIN, Geosyntec



GOAL RATIONALE

THE TOP TWO ACTIVITIES ALONG THE RIVER ARE WALKING AND BICYCLING

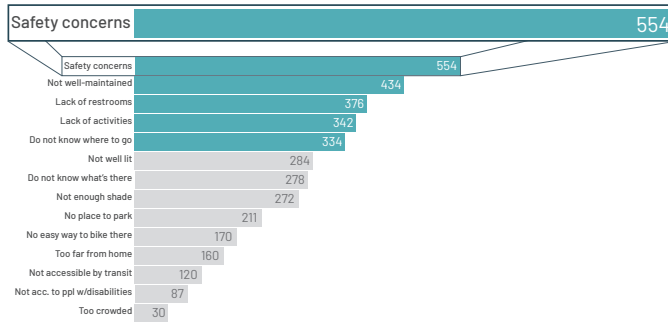
Goal: Provide equitable, inclusive, and safe parks, open space, and trails.



Source: Community Meetings, Survey, and Youth Summit

THE TOP REASON PEOPLE DO NOT VISIT THE RIVER IS DUE TO SAFETY CONCERNS

Goal: Provide equitable, inclusive, and safe parks, open space, and trails.



Source: Community Meetings, Survey, and Youth Summit

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

63

NEEDS ANALYSIS

PARK NEED

Parks Needs Assessment¹ (50%)
CalEnviroScreen 3.0² (50%)

Need Analysis:
 Highest Need
 Lowest Need

Footnotes:
 1. Park need from Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016. Assessment is based on residential population and combines park pressure (amount of park land available to residents around each park), park access (percent of population living within 1/2 mile of a park), and park acre need (acres of park per 1,000 people).
 2. Exposure to environmental pollution from CalEnviroScreen 3.0, Office of Environmental Health Hazard Assessment, California Environmental Protection Agency, 2017. CalEnviroScreen combines pollution burden indicators with population indicators. Areas with low population do not receive a CalEnviroScreen score.

Source: OLIN

NEEDS ANALYSIS

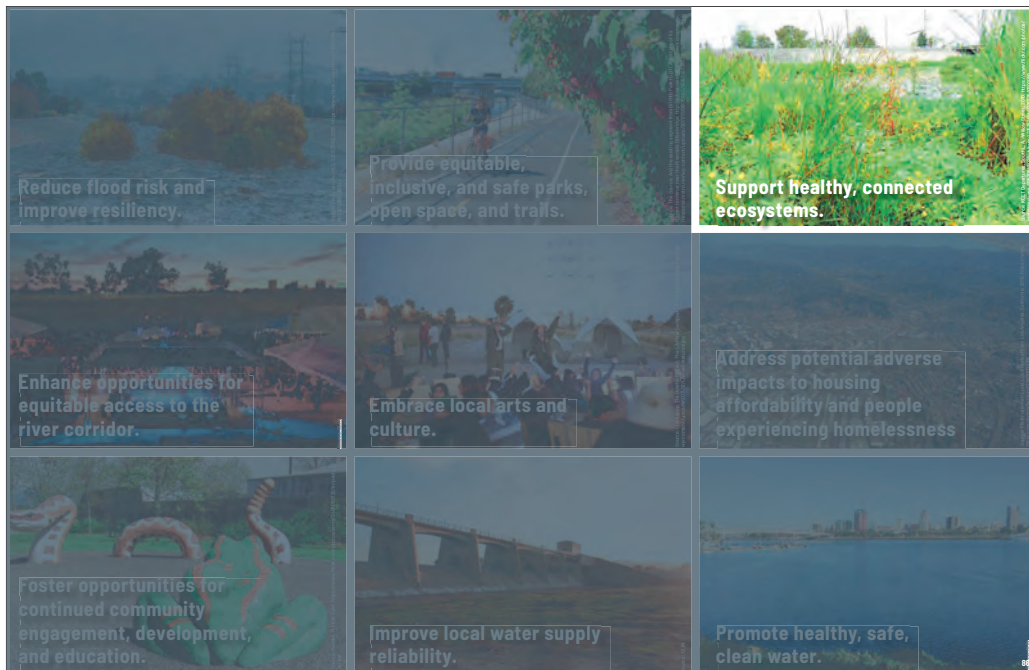
PARK NEED

Parks Needs Assessment¹ (50%)
CalEnviroScreen 3.0² (50%)

Need Analysis:
 Highest Need
 Lowest Need

Footnotes:
 1. Park need from Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016. Assessment is based on residential population and combines park pressure (amount of park land available to residents around each park), park access (percent of population living within 1/2 mile of a park), and park acre need (acres of park per 1,000 people).
 2. Exposure to environmental pollution from CalEnviroScreen 3.0, Office of Environmental Health Hazard Assessment, California Environmental Protection Agency, 2017. CalEnviroScreen combines pollution burden indicators with population indicators. Areas with low population do not receive a CalEnviroScreen score.

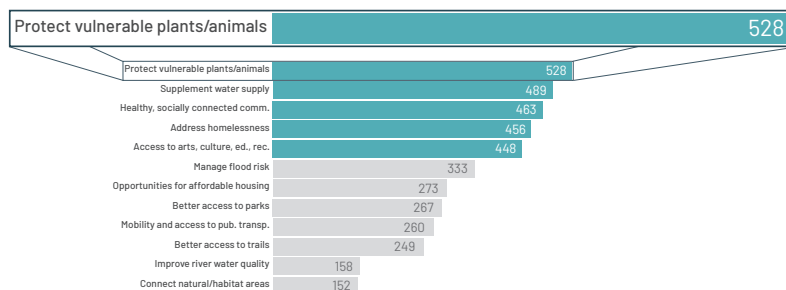
Source: OLIN



GOAL RATIONALE

PROTECTING VULNERABLE PLANTS AND ANIMALS IS THE MOST IMPORTANT ISSUE TO THE COMMUNITY

Goal: Support healthy, connected ecosystems.



Source: Community Meetings, Survey, and Youth Summit

WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 67

NEEDS ANALYSIS

ECOSYSTEMS

Existing Vegetation¹ (37.5%)
 Protected Habitat Area Buffer² (20%)
 Unprotected Areas³ (12.5%)
 Linkages⁴ (30%)

Need Analysis:
 Highest Need
 Lowest Need


Footnotes:
 1. Existing vegetation from USDA Forest Service, CALVEG: Existing Vegetation: Region 5 - South Coast. Vegetation was classified using CALVEG Regional D vegetation types to determine natural areas based on the classification system used in the City of Los Angeles, 2018 Biodiversity Report, Appendix B1.
 2. Protected habitat areas were determined by intersecting habitat areas with protected areas. Habitat areas were determined using CALVEG Regional D vegetation types categorized into natural areas based on the classification system used in the City of Los Angeles, 2018 Biodiversity Report, Appendix B1. Protected areas were extracted from the California Protected Areas Database, California Natural Resources Agency Open Data, 2017. To support the expansion of existing protected habitat areas, an increased need value was assigned within a 1000 foot buffer of the protected habitat areas.
 3. Unprotected areas were determined from the California Protected Areas Database, California Natural Resources Agency Open Data, 2017.
 4. Linkages were identified to support existing and potential wildlife corridors. Linkage features come from South Coast Missing Linkages Project, South Coast Wildlands, 2008; & LA River Tributaries, Geosyntec, 2016.

Source: GLN

NEEDS ANALYSIS

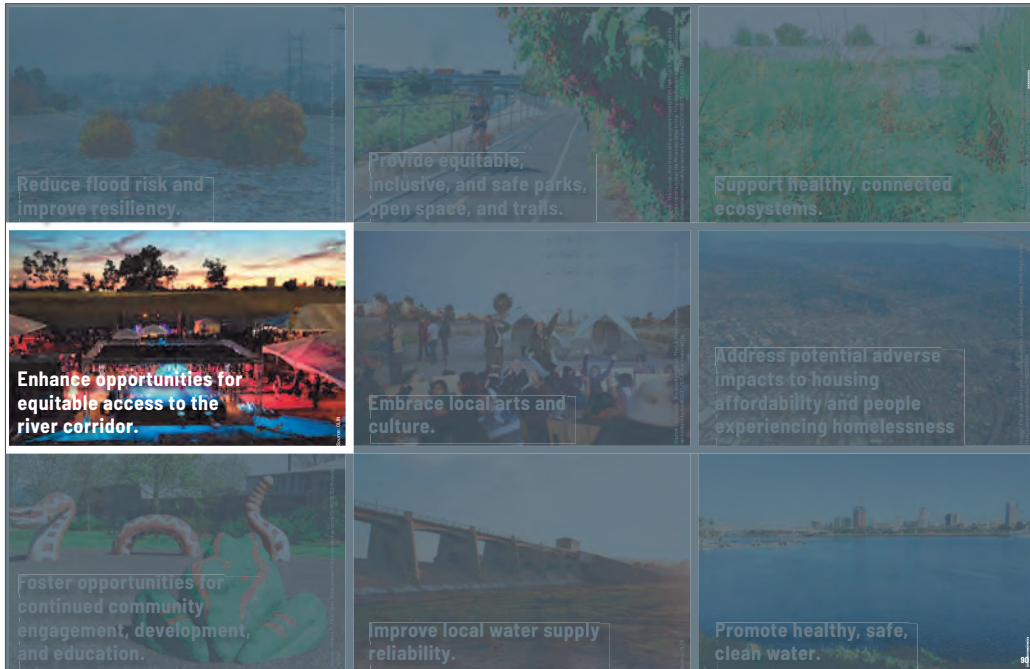
ECOSYSTEMS

Existing Vegetation¹ (37.5%)
Protected Habitat Area Buffer² (20%)
Unprotected Areas³ (12.5%)
Linkages⁴ (30%)

Need Analysis:
 Highest Need
Lowest Need

Footnotes:
1. Existing vegetation from USDA Forest Service, CALVEG, Existing Vegetation: Region 5 - South Coast. Vegetation was classified using CALVEG Regional D vegetation types to determine natural areas based on the classification system used in the City of Los Angeles, 2018 Biodiversity Report, Appendix B1.
2. Protected habitat areas were determined by intersecting habitat areas with protected areas. Habitat areas were determined using CALVEG Regional D vegetation types categorized into natural areas based on the classification system used in the City of Los Angeles, 2018 Biodiversity Report, Appendix B1. Protected areas were extracted from the California Protected Areas Database, California Natural Resources Agency Open Data, 2017. To support the expansion of existing protected habitat areas, an increased need value was assigned within a 1000 foot buffer of the protected habitat areas.
3. Unprotected areas were determined from the California Protected Areas Database, California Natural Resources Agency Open Data, 2017.
4. Linkages were identified to support existing and potential wildlife corridors. Linkage features come from South Coast Missing Linkages Project, South Coast Wildlands, 2016; & LA River Tributaries, Geointec, 2016.

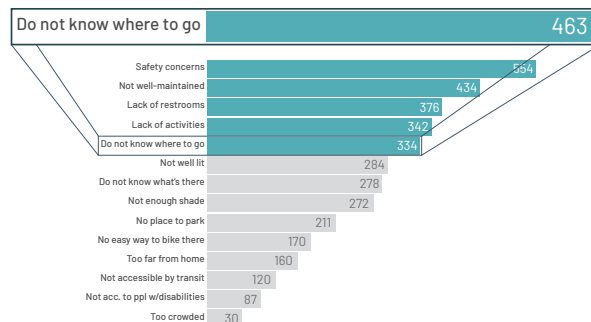
Source: OLIN



GOAL RATIONALE

NOT KNOWING WHERE TO GO IS A TOP REASON PEOPLE DON'T VISIT THE RIVER

Goal: Enhance opportunities for equitable access to the river corridor.



Source: Community Meetings, Survey, and Youth Summit

NEEDS ANALYSIS

ACCESS & TRAILS

- River Trail Gaps¹ (30%)
- River Trail Access Points² (30%)
- Adjacent Trails³ (20%)
- Health Composite⁴ (10%)
- Proximity to Metro Stops, Parks, and Schools⁵ (10%)

Need Analysis:



Footnotes:

1. River trail gaps were identified based on City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018. On both the left and right bank of the river, OLIN identified gaps between existing and proposed trail segments.
2. Existing river trail access points were identified based on City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018, and were further refined by OLIN using aerial and Google Street View observations.
3. Adjacent existing and proposed trails from Los Angeles GIS Dataportal, Department of Parks and Recreation Trails, 2018.
4. Health composite compiled from the Los Angeles County Department of Public Health Los Angeles County Health Survey, 2015.
5. A half-mile proximity to stops identified in LA Metro's Active Transportation Strategic Plan Online Data Portal, 2014. A half-mile proximity to parks from Los Angeles County GIS Dataportal, Countywide Parks and Open Space layer, 2018. A half-mile proximity to schools from Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016, using the following Cat2 fields: Colleges and Universities, Early, Private and Charter Schools, Public Elementary Schools, Public High Schools, and Public Middle Schools.

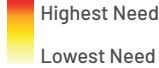
Source: OLIN

NEEDS ANALYSIS

ACCESS & TRAILS

- River Trail Gaps¹ (30%)
- River Trail Access Points² (30%)
- Adjacent Trails³ (20%)
- Health Composite⁴ (10%)
- Proximity to Metro Stops, Parks, and Schools⁵ (10%)

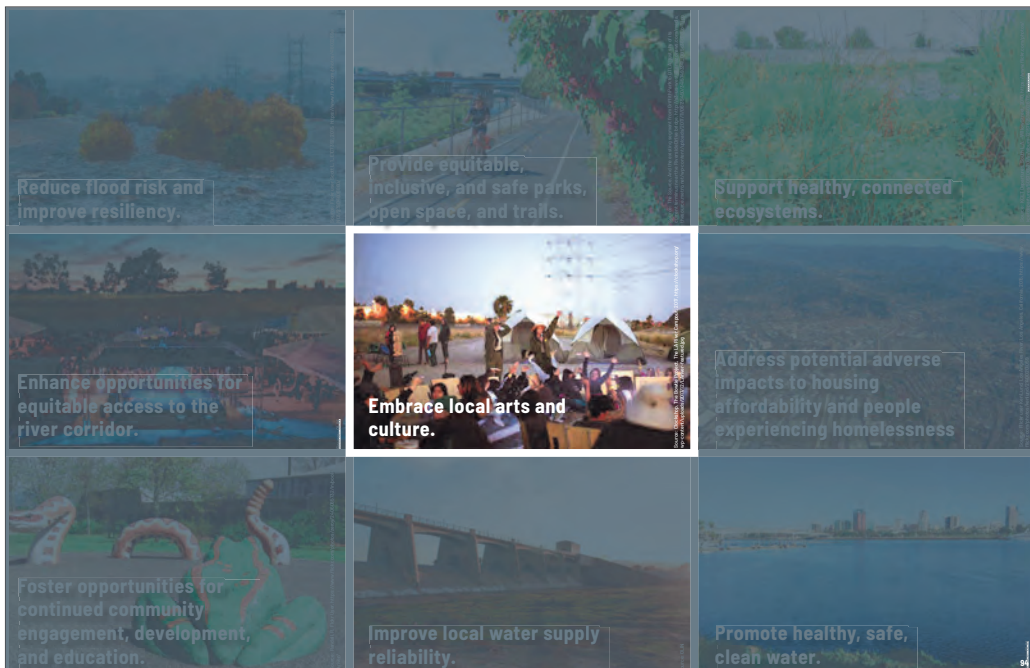
Need Analysis:



Footnotes:

1. River trail gaps were identified based on City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018. On both the left and right bank of the river, OLIN identified gaps between existing and proposed trail segments.
2. Existing river trail access points were identified based on City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018, and were further refined by OLIN using aerial and Google Street View observations.
3. Adjacent existing and proposed trails from Los Angeles GIS Dataportal, Department of Parks and Recreation Trails, 2018.
4. Health composite compiled from the Los Angeles County Department of Public Health Los Angeles County Health Survey, 2015.
5. A half-mile proximity to stops identified in LA Metro's Active Transportation Strategic Plan Online Data Portal, 2014. A half-mile proximity to parks from Los Angeles County GIS Dataportal, Countywide Parks and Open Space layer, 2018. A half-mile proximity to schools from Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016, using the following Cat2 fields: Colleges and Universities, Early, Private and Charter Schools, Public Elementary Schools, Public High Schools, and Public Middle Schools.

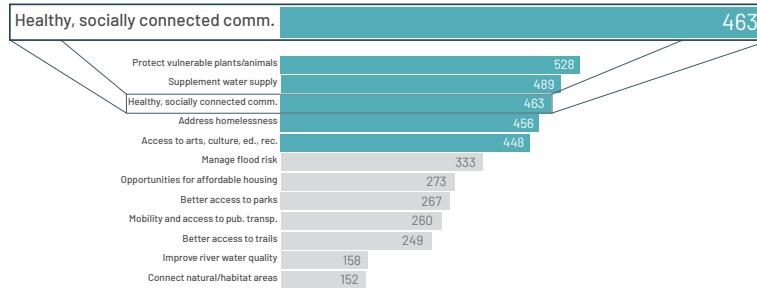
Source: OLIN



GOAL RATIONALE

HEALTHY, SOCIALLY CONNECTED COMMUNITIES ARE A TOP PRIORITY TO THE COMMUNITY

Goal: Embrace local arts, culture, and communities.



Source: Community Meetings, Survey, and Youth Summit

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

NEEDS ANALYSIS

ARTS & CULTURE

Asset Mapping¹ (33%)
Population Density² (33%)
Household Income² (33%)

Need Analysis:
Highest Need
Lowest Need

Footnotes:
1. Asset mapping from Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016, using the following Cat2 fields: Cultural and Performing Arts Centers, Museums and Aquariums, Historical Parks, Churches, Community Organizations, Farmers Markets, Volunteer Opportunities; Los Angeles County GIS Data Portal, Historical Resources, 2016; Los Angeles County Open Data, Los Angeles County Civic Art Collection, 2017; Los Angeles County Open Data, Free Concerts in Public Sites, 2017; Los Angeles County Open Data, Community Arts Partners, 2012; National Register of Historic Places, 2014; Los Angeles Geohub, Historic Preservation Overlay Zones, 2019; Los Angeles Geohub, Historic Cultural Monuments, 2019; & ArcGIS Online, User USCSIS, Los Angeles Murals, 2018. Assets were combined to produce a relative asset density map.
2. U.S. Census Bureau 2012-2016 American Community Survey 5-Year Estimates.

Source: OLIN

NEEDS ANALYSIS

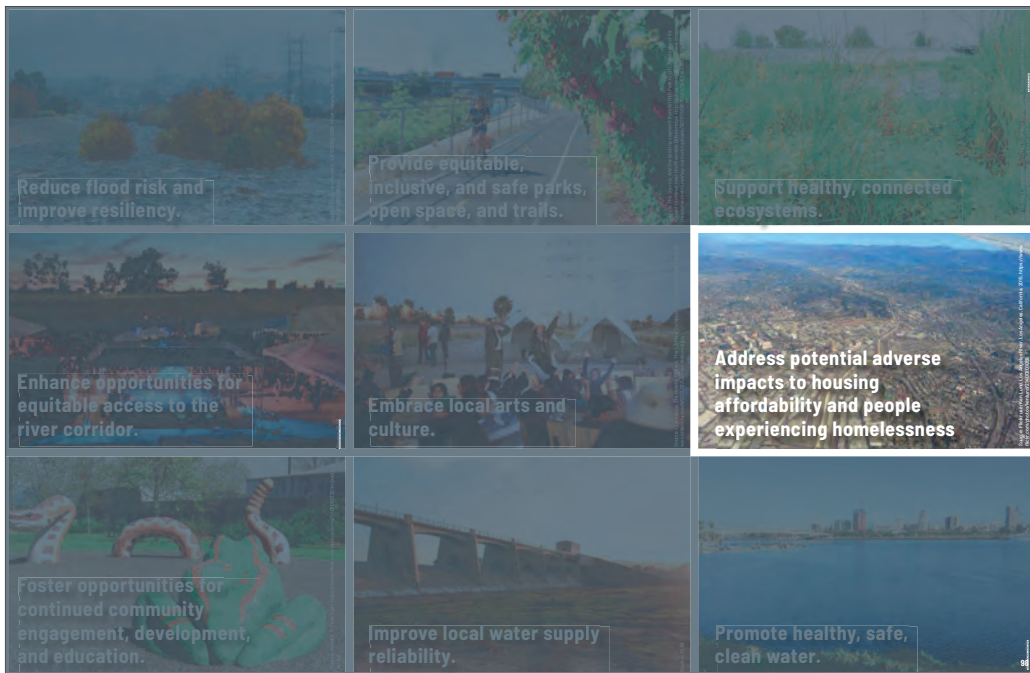
ARTS & CULTURE

Asset Mapping¹ (33%)
Population Density² (33%)
Household Income² (33%)

Need Analysis:
Highest Need
Lowest Need

Footnotes:
1. Asset mapping from Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016, using the following Cat2 fields: Cultural and Performing Arts Centers, Museums and Aquariums, Historical Parks, Churches, Community Organizations, Farmers Markets, Volunteer Opportunities; Los Angeles County GIS Data Portal, Historical Resources, 2016; Los Angeles County Open Data, Los Angeles County Civic Art Collection, 2017; Los Angeles County Open Data, Free Concerts in Public Sites, 2017; Los Angeles County Open Data, Community Arts Partners, 2012; National Register of Historic Places, 2014; Los Angeles Geohub, Historic Preservation Overlay Zones, 2019; Los Angeles Geohub, Historic Cultural Monuments, 2019; & ArcGIS Online, User USCSIS, Los Angeles Murals, 2018. Assets were combined to produce a relative asset density map.
2. U.S. Census Bureau 2012-2016 American Community Survey 5-Year Estimates.

Source: OLIN



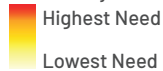
NEEDS ANALYSIS

HOUSING AFFORDABILITY

Displacement Index¹ (100%)

Highest needs were assigned to areas at risk of or with on going displacement.²

Need Analysis:

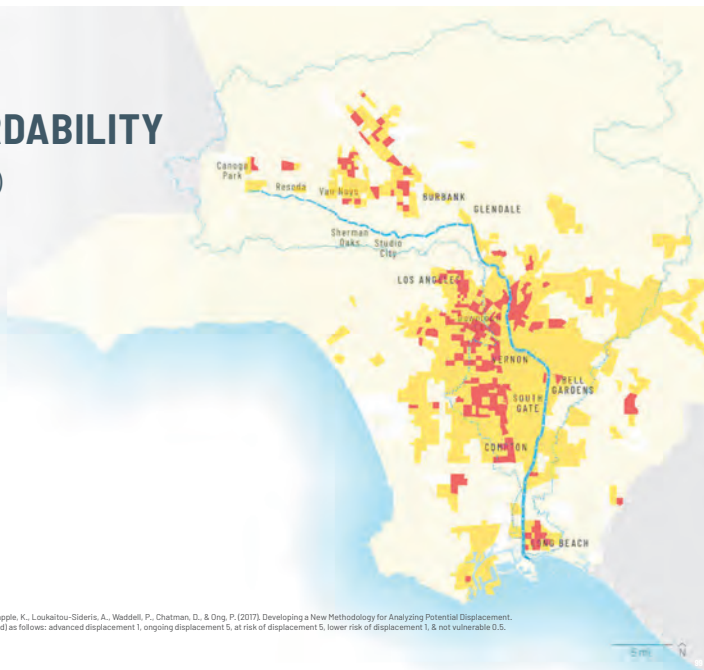


Footnotes:

1. Map developed based on research by the Urban Displacement Project: Chapple, K., Loukaitou-Sideris, A., Waddell, P., Chatman, D., & Ong, P. (2017). Developing a New Methodology for Analyzing Potential Displacement.

2. Displacement risk categories were scored from 0 (low need) to 5 (high need) as follows: advanced displacement 1, ongoing displacement 5, at risk of displacement 5, lower risk of displacement 1, & not vulnerable 0.5.

Source: OLIN

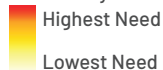


NEEDS ANALYSIS

HOUSING AFFORDABILITY

Displacement Index¹ (100%)

Need Analysis:



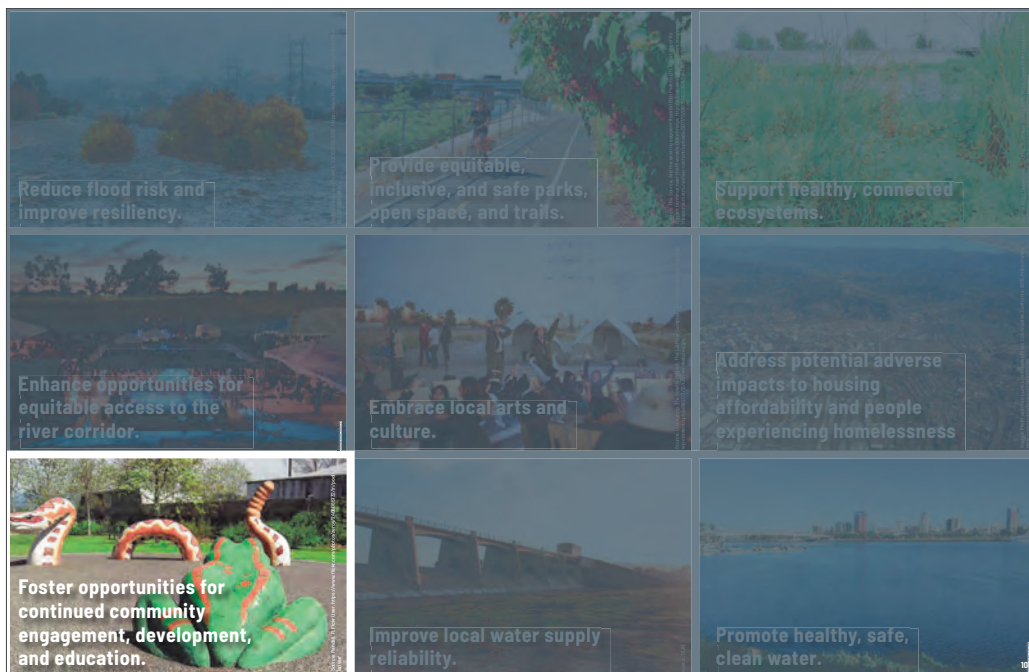
Footnotes:

1. Map developed based on research by the Urban Displacement Project: Chapple, K., Loukaitou-Sideris, A., Waddell, P., Chatman, D., & Ong, P. (2017). Developing a New Methodology for Analyzing Potential Displacement.

2. Displacement risk categories were scored from 0 (low need) to 5 (high need) as follows: advanced displacement 1, ongoing displacement 5, at risk of displacement 5, lower risk of displacement 1, & not vulnerable 0.5.

Source: OLIN

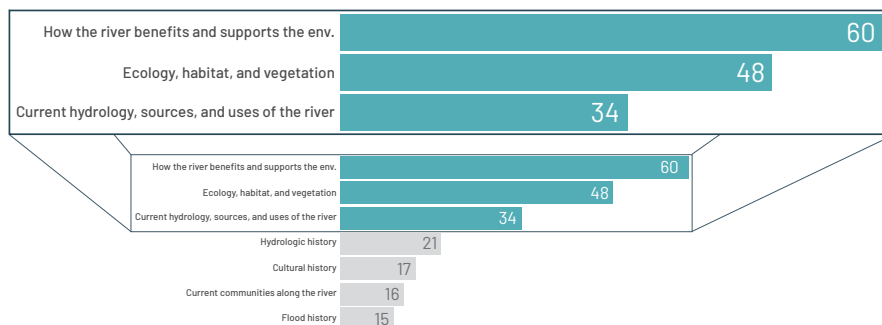




GOAL RATIONALE

WHAT THE COMMUNITY VALUES AS EDUCATIONAL OPPORTUNITY

Goal: Foster learning and opportunities for education.



Source: Community Meetings, Survey, and Youth Summit

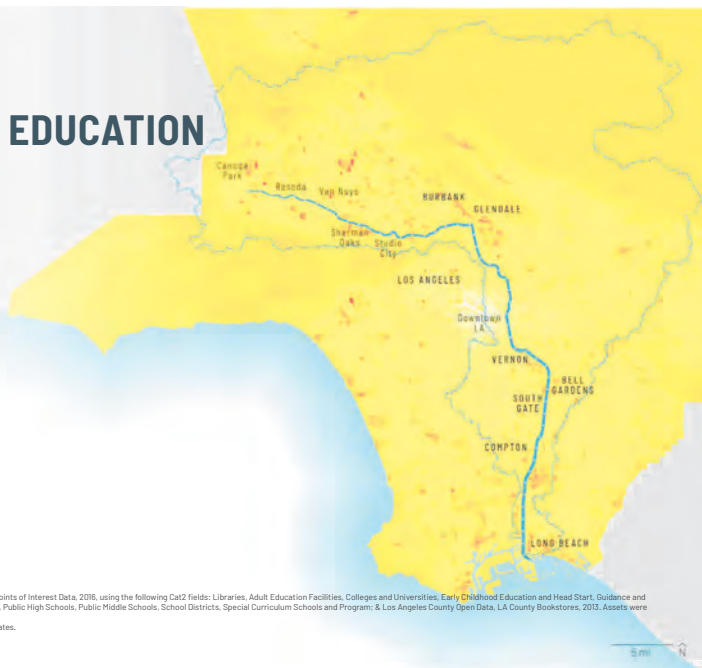
WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 102

NEEDS ANALYSIS

ENGAGEMENT & EDUCATION

Asset Mapping¹ (50%)
Population Density² (50%)

Need Analysis:
Highest Need
Lowest Need



Footnotes:
1. Asset mapping includes: Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016, using the following Cat2 fields: Libraries, Adult Education Facilities, Colleges and Universities, Early Childhood Education and Head Start, Guidance and Tutoring Programs, Private and Charter Schools, Public Elementary Schools, Public High Schools, Public Middle Schools, School Districts, Special Curriculum Schools and Program; & Los Angeles County Open Data, LA County Bookstores, 2015. Assets were combined to produce a relative asset density map.
2. U.S. Census Bureau 2012-2016 American Community Survey 5-Year Estimates.

Source: OLIN

NEEDS ANALYSIS

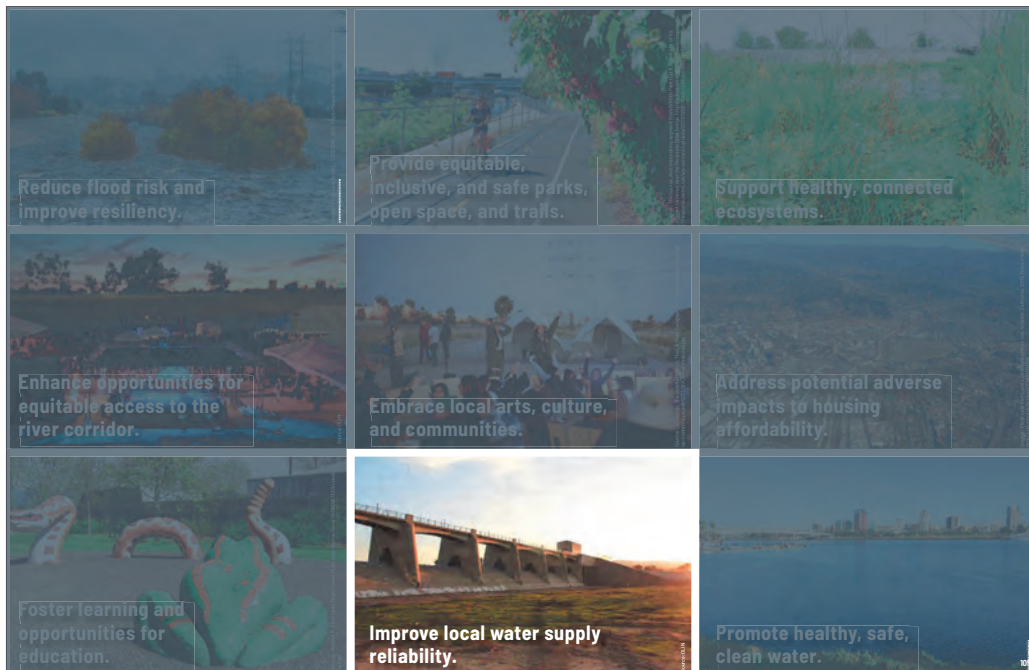
ENGAGEMENT & EDUCATION

Asset Mapping¹ (50%)
Population Density² (50%)

Need Analysis:
Highest Need
Lowest Need

Footnotes:
1. Asset mapping includes: Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016, using the following Cat2 fields: Libraries, Adult Education Facilities, Colleges and Universities, Early Childhood Education and Head Start, Guidance and Tutoring Programs, Private and Charter Schools, Public Elementary Schools, Public High Schools, Public Middle Schools, School Districts, Special Curriculum Schools and Program; & Los Angeles County Open Data, LA County Bookstores, 2015. Assets were combined to produce a relative asset density map.
2. U.S. Census Bureau 2012-2016 American Community Survey 5-Year Estimates.

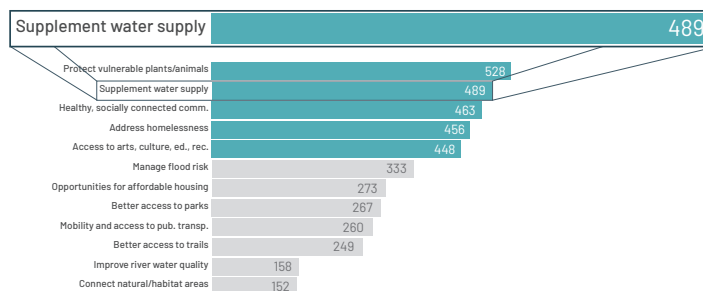
Source: OLIN



GOAL RATIONALE

SUPPLEMENTING WATER SUPPLY IS THE SECOND MOST IMPORTANT ISSUE TO THE COMMUNITY

Goal: Improve local water supply reliability.



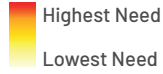
Source: Community Meetings, Survey, and Youth Summit

NEEDS ANALYSIS

WATER SUPPLY

Regional Need (100%)

Need Analysis:



Source: OLIN, Geosyntec

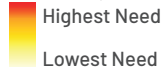


NEEDS ANALYSIS

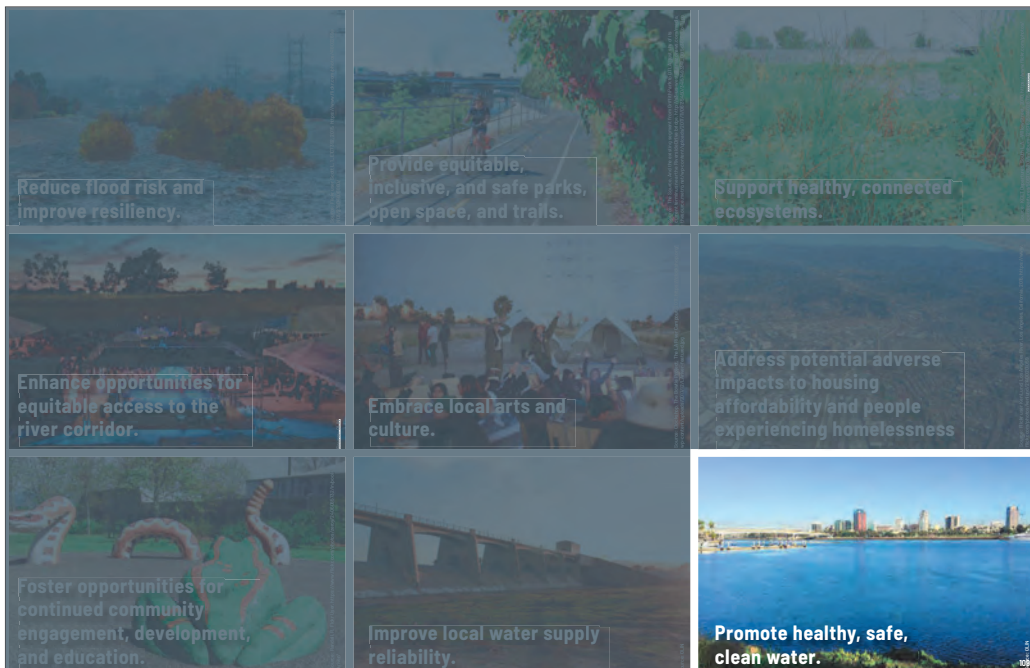
WATER SUPPLY

Regional Need (100%)

Need Analysis:




Source: OLIN, Geosyntec



NEEDS ANALYSIS

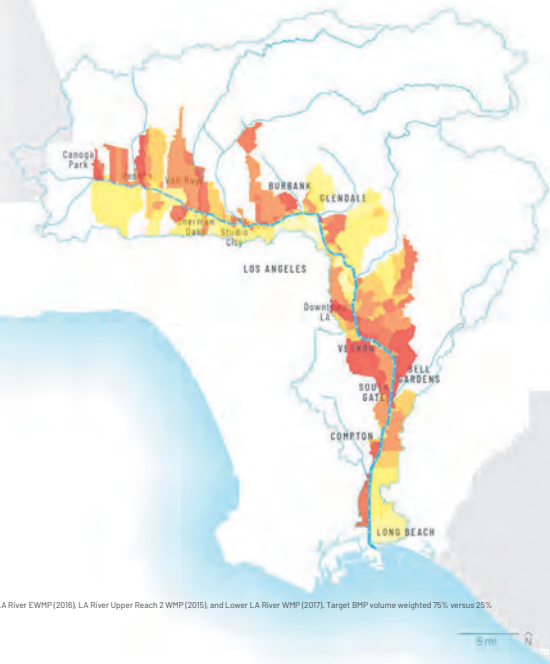
WATER QUALITY

EWMP/WMP Score¹(50%)
Water Quality Priority (50%)

Need Analysis:
 Highest Need
 Lowest Need

Footnotes:
 1. EWMP and WMP score compiled from target versus planned BMP volume assigned to catchment areas within Upper LA River EWMP (2016), LA River Upper Reach 2 WMP (2015), and Lower LA River WMP (2017). Target BMP volume weighted 75% versus 25% planned volume to account for uncertainty in future implementation.


Source: OLIN, Geosyntec



NEEDS ANALYSIS

WATER QUALITY

EWMP/WMP Score¹(50%)
Water Quality Priority (50%)

Need Analysis:
 Highest Need
 Lowest Need

Footnotes:
 1. EWMP and WMP score compiled from target versus planned BMP volume assigned to catchment areas within Upper LA River EWMP (2016), LA River Upper Reach 2 WMP (2015), and Lower LA River WMP (2017). Target BMP volume weighted 75% versus 25% planned volume to account for uncertainty in future implementation.

Source: OLIN, Geosyntec



Reduce flood risk and improve resiliency.

Provide equitable, inclusive, and safe parks, open space, and trails.

Support healthy, connected ecosystems.

Enhance opportunities for equitable access to the river corridor.

Embrace local arts and culture.

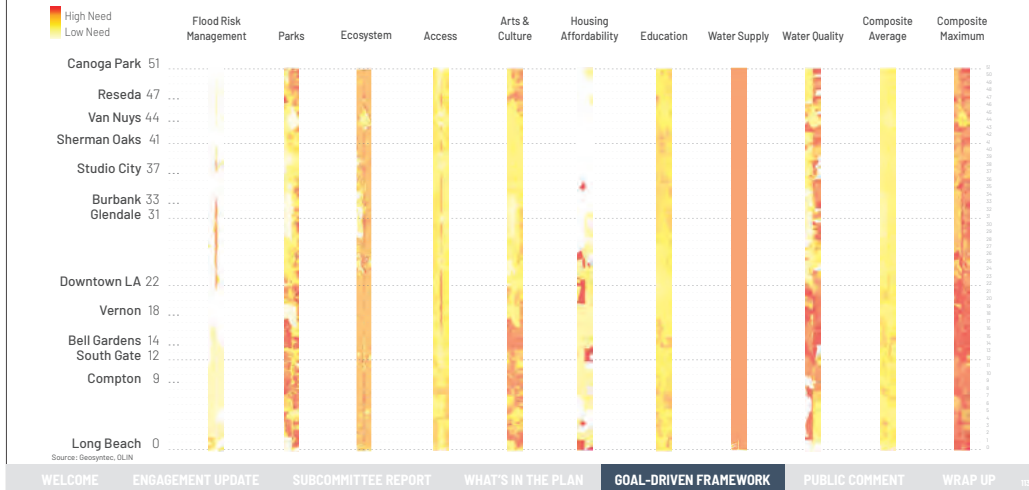
Address potential adverse impacts to housing affordability and people experiencing homelessness.

Foster opportunities for continued community engagement, development, and education.

Improve local water supply reliability.

Promote healthy, safe, clean water.

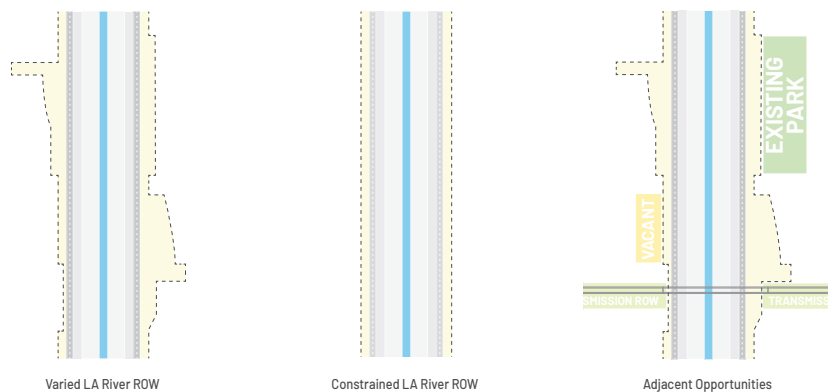
RELATIVE NEEDS COMPARISON



OPPORTUNITIES

TYPICAL OPPORTUNITY SITES

Typical Conditions Along the LA River Corridor



OPPORTUNITY

Capitalize on areas that have the greatest capacity to site new projects.

LAND ASSETS:

- LA River Right-of-Way
- LA County Owned Parcels (Priority to Vacant & Underutilized)
- Other Publicly Owned Parcels (Priority to Vacant & Underutilized)
- Other Underutilized Right-of-Way
- Vacant Private Parcels
- Underutilized Private Parcels (Only Applied to Housing Need)
- Pedestrian Street Network

OPPORTUNITY: LAND ASSETS

LA River Right-of-Way (ROW)

Rectangular Box Channel:



Trapezoidal Channel:



OPPORTUNITY: LAND ASSETS

LA River Right-of-Way (ROW)

ROW Detail: Frame 7 / River Mile 36



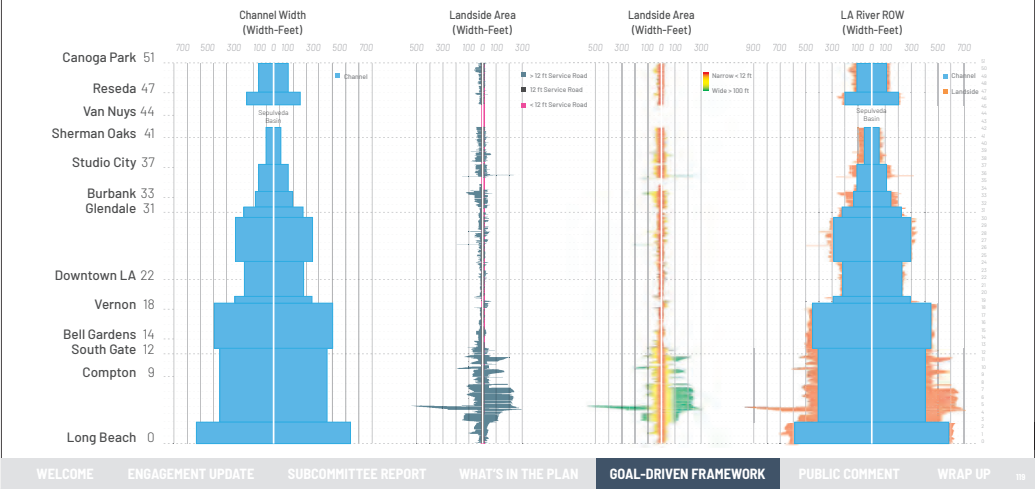
LA River ROW Totals By Frame

#	Planning Frame Name	Length (mi)	Landside Area Left Bank (ac)	Landside Area Right Bank (ac)	Landside Area Total (ac)	Channel Area Total (ac)	LA River ROW Total (ac)
9	Western San Fernando Valley	8.0	12.9	17.2	30.1	118.8	148.9
8	Central San Fernando Valley	5.3	19.2	25.2	40.7	32.9	73.6
7	Eastern San Fernando Valley	5.8	21.9	21.6	47.1	85.8	132.9
6	Narrows	7.5	25.1	22.0	47.1	301.2	348.3
5	Heights	5.0	12.8	9.9	22.7	152.5	175.2
4	North Los Angeles Plain	5.1	15.2	11.1	28.1	273.4	299.5
3	Central Los Angeles Plain	6.0	53.7	40.6	94.3	303.7	398.0
2	South Los Angeles Plain	4.4	130.5	54.1	184.6	219.0	403.6
1	Estuary	4.0	37.3	31.6	68.9	260.3	329.2
TOTAL:		61.1	328.6	233.3	561.7	1745.7	2307.5

Source: OLIN

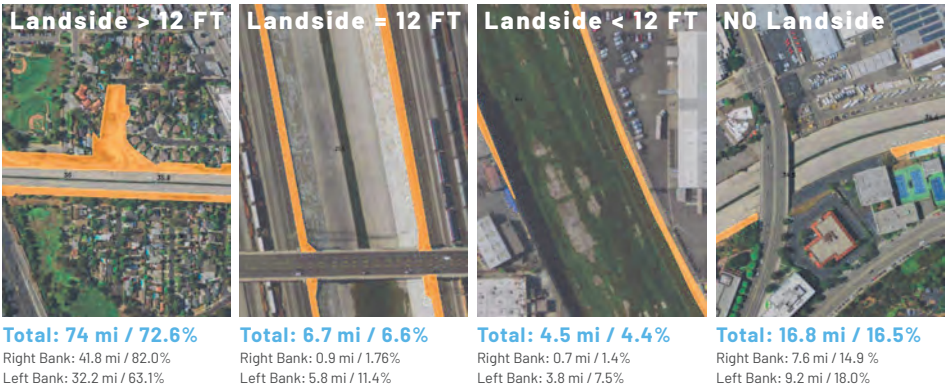


OPPORTUNITY: LA RIVER ROW ANALYSIS



OPPORTUNITY: LAND ASSETS

LA River Landside Area



OPPORTUNITY: LAND ASSETS

LA County Owned Parcels

LA County Owned Parcels

LA County-Owned Parcel Acreage Totals By Frame

#	Planning Frame Name	Length (mi)	Parcel Area Left Bank (ac)	Parcel Area Right Bank (ac)	TOTAL AREA (ac)
9	Western San Fernando Valley	8.0	137.87	135.14	273.01
8	Central San Fernando Valley	5.3	85.44	20.57	106.01
7	Eastern San Fernando Valley	5.8	42.78	33.42	76.20
6	Narrows	7.5	116.36	26.86	143.22
5	Heights	5.0	141.40	180.83	322.23
4	North Los Angeles Plain	5.1	158.72	101.99	260.71
3	Central Los Angeles Plain	6.0	542.64	80.20	622.84
2	South Los Angeles Plain	4.4	251.87	188.40	440.27
1	Estuary	4.0	182.17	125.17	307.34

OPPORTUNITY: LAND ASSETS

Other Publicly Owned Parcels (Excluding County)

- Municipally Owned Parcels
- Other Publicly Owned Parcels (Excluding County)

Publicly-Owned Parcels Acreage Totals By Frame

#	Planning Frame Name	Length (mi)	City Owned Left Bank (ac)	City Owned Right Bank (ac)	City Owned Total (ac)	Other Public Left Bank (ac)	Other Public Right Bank (ac)	Other Public Total (ac)	TOTAL AREA (ac)
9	Western San Fernando Valley	8.0	83.29	88.24	161.53	1336.93	1171.09	2498.02	2659.55
8	Central San Fernando Valley	5.3	78.71	57.84	137.55	115.87	246.32	362.29	499.84
7	Eastern San Fernando Valley	5.8	170.74	601.99	772.73	62.85	387.49	450.34	1222.87
6	Narrows	7.5	366.44	2707.99	3074.43	291.05	46.58	337.63	3412.06
5	Heights	5.0	375.42	238.83	614.25	72.23	83.60	155.83	770.08
4	North Los Angeles Plain	5.1	118.77	121.75	240.52	141.40	53.71	195.11	435.62
3	Central Los Angeles Plain	6.0	177.16	168.65	345.82	115.92	200.12	316.03	661.85
2	South Los Angeles Plain	4.4	123.30	58.45	181.75	89.27	66.72	155.98	337.73
1	Estuary	4.0	352.25	1495.49	1847.74	61.30	128.01	189.31	2037.05

Source: OLIN

OPPORTUNITY: LAND ASSETS

Other Underutilized Right-of-Way (ROW)

- Other Underutilized ROW Parcels

Privately-Owned LA River ROW Acreage Totals By Frame

#	Planning Frame Name	Length (mi)	Parcel Area Left Bank (ac)	Parcel Area Right Bank (ac)	TOTAL ROW AREA (ac)
9	Western San Fernando Valley	8.0	37.66	84.15	121.81
8	Central San Fernando Valley	5.3	2.82	6.46	9.08
7	Eastern San Fernando Valley	5.8	13.07	37.44	50.50
6	Narrows	7.5	223.58	0.11	223.69
5	Heights	5.0	246.16	159.16	405.32
4	North Los Angeles Plain	5.1	567.20	121.97	689.18
3	Central Los Angeles Plain	6.0	312.82	48.71	361.53
2	South Los Angeles Plain	4.4	96.91	244.20	341.11
1	Estuary	4.0	24.83	184.91	209.74

Source: OLIN

OPPORTUNITY: LAND ASSETS

Vacant Private Parcels

- Vacant Private Parcels

Privately-Owned Parcel Acreage Totals By Frame

#	Planning Frame Name	Length (mi)	Parcel Area Left Bank (ac)	Parcel Area Right Bank (ac)	TOTAL AREA (ac)
9	Western San Fernando Valley	8.0	148.63	29.76	65.51
8	Central San Fernando Valley	5.3	54.98	231.63	250.06
7	Eastern San Fernando Valley	5.8	92.12	325.21	417.33
6	Narrows	7.5	265.30	105.30	370.61
5	Heights	5.0	113.01	141.47	254.48
4	North Los Angeles Plain	5.1	224.82	83.92	308.73
3	Central Los Angeles Plain	6.0	129.03	162.29	291.32
2	South Los Angeles Plain	4.4	148.63	101.97	250.60
1	Estuary	4.0	54.98	130.29	185.27

Source: OLIN

OPPORTUNITY ANALYSIS

OPPORTUNITY: LAND ASSETS

Underutilized* Private Parcels**

*Improvement to Land Value Ratio (ILR) is an indicator of underutilization. The decimal ratio represents how much buildings or amenities are worth divided by how much the land itself is worth. Anything below 0.8 is considered underutilized.

**Only applicable for housing need

- Private Parcels, $0 \leq \text{ILR} \leq 0.5$
- Private Parcels, $0.5 < \text{ILR} \leq 0.8$

Privately-Owned Parcel Acreage Totals By Frame

#	Planning Frame Name	Length (mi)	Parcel Area Left Bank (ac)	Parcel Area Right Bank (ac)	TOTAL AREA (ac)
9	Western San Fernando Valley	8.0	2385.65	2872.49	5258.14
8	Central San Fernando Valley	5.3	2093.29	2681.95	4775.24
7	Eastern San Fernando Valley	5.8	2365.65	2354.06	4719.71
6	Narrows	7.5	3590.99	1608.49	5199.48
5	Heights	5.0	1903.79	1354.59	3258.38
4	North Los Angeles Plain	5.1	2738.13	2448.25	5186.38
3	Central Los Angeles Plain	8.0	1981.36	2547.48	4528.84
2	South Los Angeles Plain	4.4	1999.65	1842.22	3841.87
1	Estuary	4.0	1478.91	1264.77	2743.68

Source: OLIN

OPPORTUNITY ANALYSIS

OPPORTUNITY: LAND ASSETS

Pedestrian Street Network

- Pedestrian Street Network within 1 mile of the LA River
- Other Pedestrian Street Network Streets

Source: City of Los Angeles, LA River Greenway, LA River Access and Points of Interest; OLIN, 2018

OPPORTUNITY ANALYSIS

COMPLETED PROJECTS WITHIN A QUARTER MILE OF THE RIVER*



*DRAFT - AND COUNTING
Source: Los Angeles County Public Works, Geoprac, OLIN

COMPLETED AND PROPOSED PROJECTS WITHIN A QUARTER MILE OF THE RIVER*



SITES OF INTEREST ARE LOCATED AT OVERLAPPING AREAS OF NEED AND OPPORTUNITY

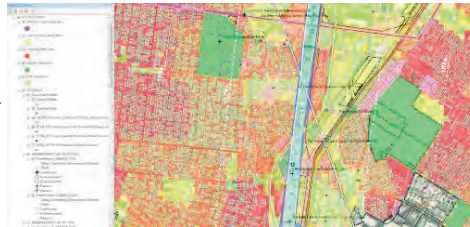
Needs



Opportunities



Overlay



OPPORTUNITY: POTENTIAL SITES

Selection of Opportunity Parcels within 1 mile of the LA River (Includes LA River ROW)

450 PARCELS

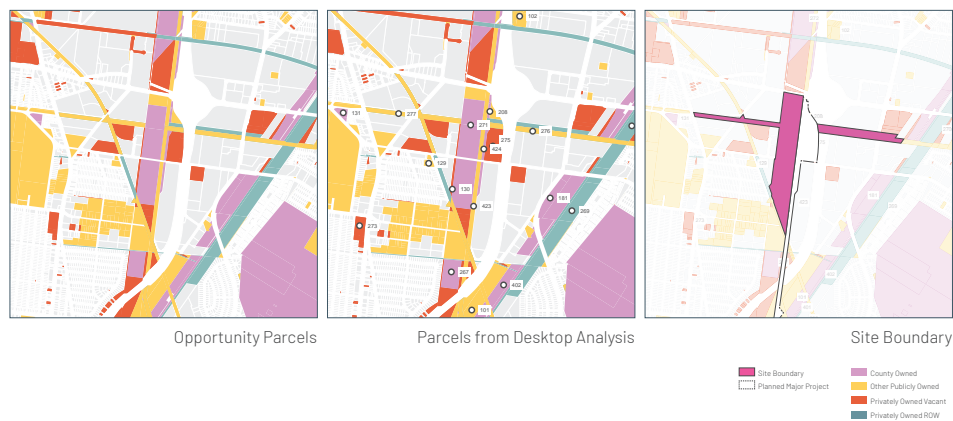


DESKTOP ANALYSIS

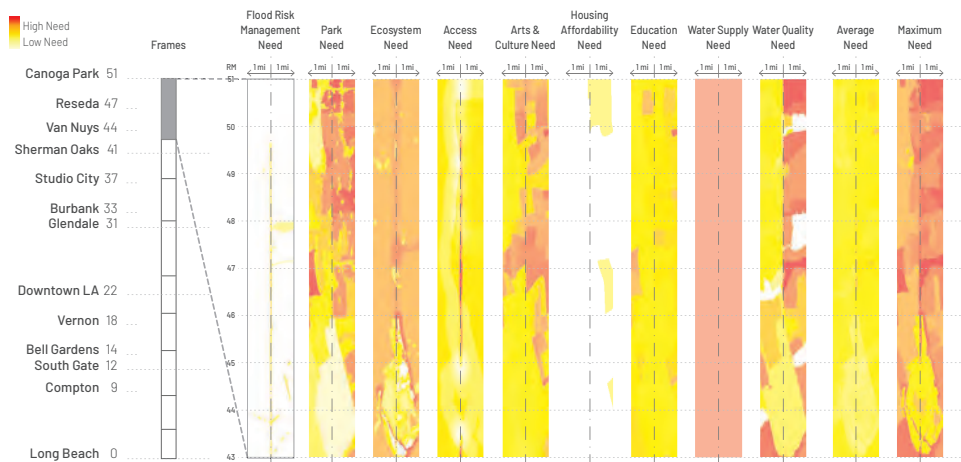
Analysis for Choosing Opportunity Sites

- Is there recent construction on the site?
- Is there apparent contamination (Superfund or Brownfield designation)?
- Is there known hazardous waste?
- Are there any known existing or planned projects for the site?
- Does the site align with an area of high need?
- How large is the site?
- How close is the site to the LA River?
- Could the site be part of a connected continuous open space system?

AGGREGATING PARCELS

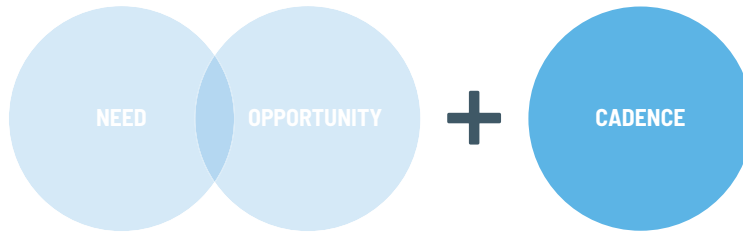


FRAME 9 NEEDS



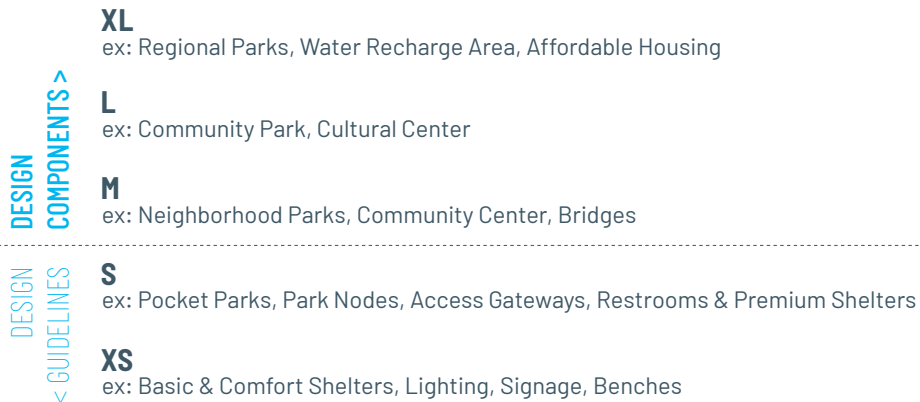
HOW DO WE LOCATE NEW PROJECTS?

Align need, opportunity, and cadence along the LA River Corridor.



CADENCE

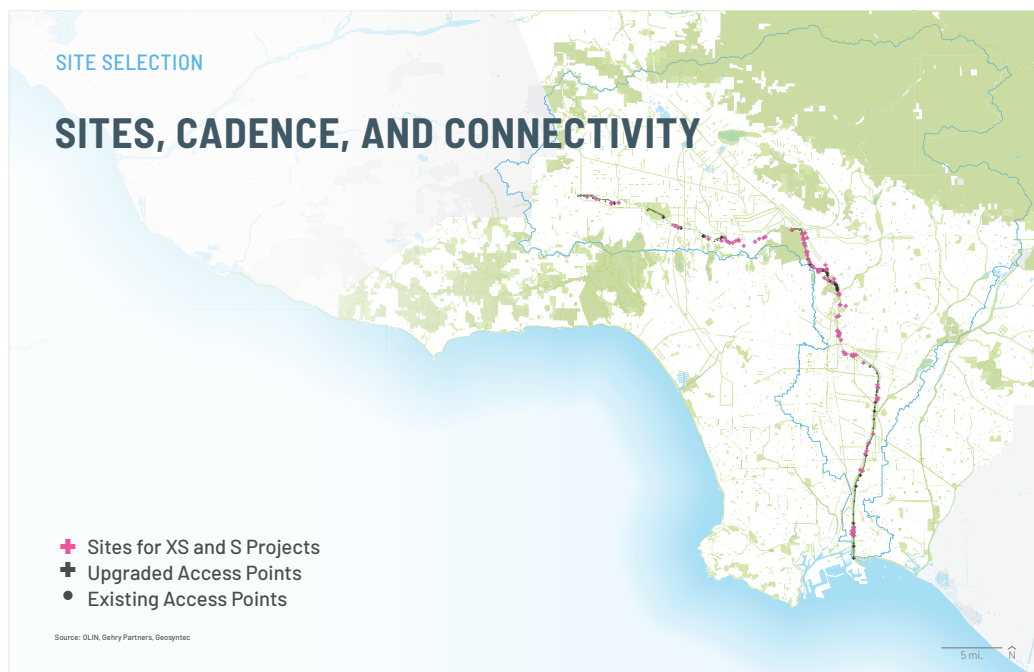
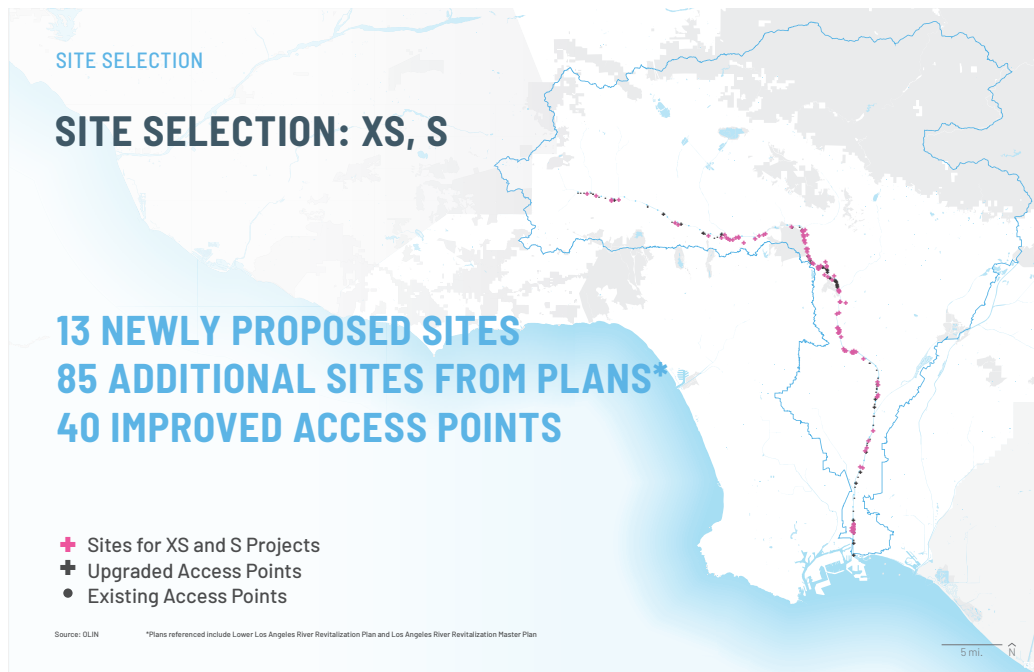
Confirm projects are distributed along the river equally and vary in scale.



SAMPLE SITE SELECTION: XS, S

Final Criteria for Choosing Opportunity Sites

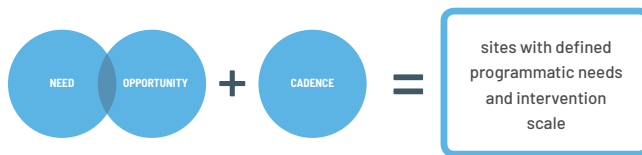
- Is there an opportunity to cross from one bank to the other every half mile?*
- Is an existing trail disconnected from adjacent neighborhoods?*
- Where do major streets intersect with the river?*
- Is there land availability where roads and proposed trails (like bike paths) meet the river?*



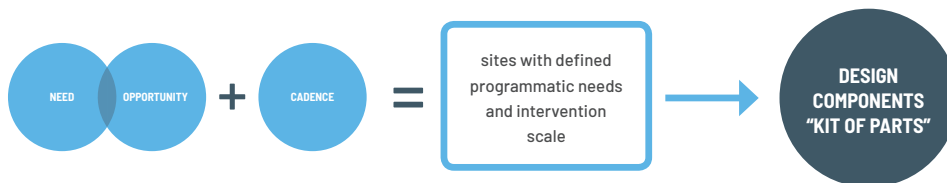
GOAL-DRIVEN DESIGN FRAMEWORK



GOAL-DRIVEN DESIGN FRAMEWORK



GOAL-DRIVEN DESIGN FRAMEWORK



EXAMPLE

NEED	OPPORTUNITY	CADENCE (SCALE)	DESIGN COMPONENT
flood risk management + water quality + habitat	landside RM 11.5 right bank (vacant parcel, publicly owned)	15 acres	natural treatment system

KIT OF PARTS: CATEGORIES

- 1 FLOODPLAIN RECLAMATION
- 2 CROSSINGS & PLATFORMS
- 3 TRAILS, ACCESS GATEWAYS, AND SHELTERS
- 4 CHANNEL MODIFICATIONS
- 5 DIVERSIONS
- 6 OFF CHANNEL LAND ASSETS

KIT OF PARTS: CATEGORIES & COMPONENTS

1

FLOODPLAIN RECLAMATION

- Natural Treatment System
- Naturalized Bank
- Braided Channel
- Field
- Storage (Surface: Reservoir, Lake, Pond)

2

CROSSINGS & PLATFORMS

- Pedestrian Bridge
- Bike Bridge
- Equestrian Bridge
- Multi-use Bridge
- Cantilever
- Platform
- Natural Treatment System

3

TRAILS, ACCESS GATEWAYS & SHELTERS

- River Gateway
- Pedestrian Trail
- Pedestrian Facility (Bench, Lighting, Trash Receptacle, Wayfinding)
- Bike Trail
- Equestrian Trail
- Equestrian Facility
- Multi-use Trail
- Multi-use Facility
- Shelter
- General Amenity (Cafe, Kiosk, Restroom)
- Light Tower / Water Tower
- Lookout
- Boardwalk
- Channel Access
- Vehicular Access
- Underpass and Overpass
- Natural Treatment System

4

CHANNEL MODIFICATIONS

- Terraced Bank
- Check Dam
- Deployable Barrier (Rubber Dam)
- Levee
- Armored Channel
- Flood Vent
- Vertical Wall
- Channel Widening
- Reshape Low Flow
- Channel Smoothing
- Texturizing or Grooving
- Concrete Bottom
- Soft Bottom
- Sediment Removal / Vegetation Conversion
- Bridge Pier / Abutment Removal / Modification

5

DIVERSIONS

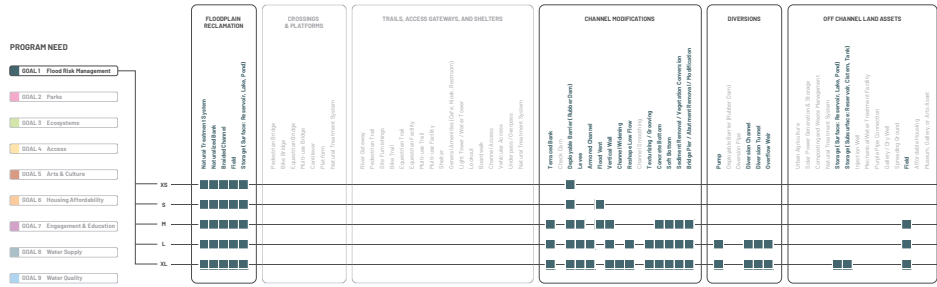
- Pump
- Deployable Barrier (Rubber Dam)
- Diversion Pipe
- Diversion Channel
- Diversion Tunnel
- Overflow Weir

6

OFF CHANNEL LAND ASSETS

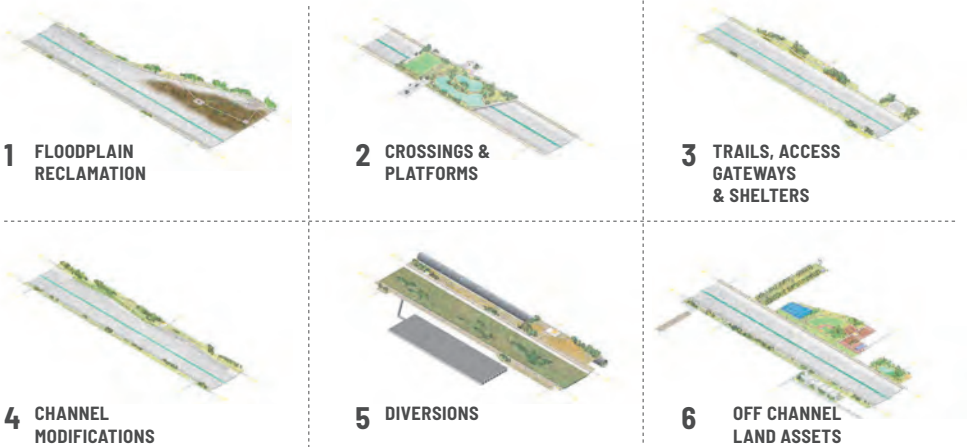
- Urban Agriculture (Orchard, Farm, Nursery, Community Garden)
- Solar Power Generation & Storage
- Composting and Waste Management
- Natural Treatment System
- Storage (Surface: Reservoir, Lake, Pond)
- Storage (Subsurface: Reservoir, Cistern, Tank)
- Injection Well
- Mechanical Water Treatment Facility
- Purple Pipe Connection
- Gallery / Dry Well
- Spreading Ground
- Field
- Affordable Housing
- Museum, Gallery, or Other Arts Installation or Institution

KIT OF PARTS FRAMEWORK



Source: OLIN, Gehry Partners, Geosyntec

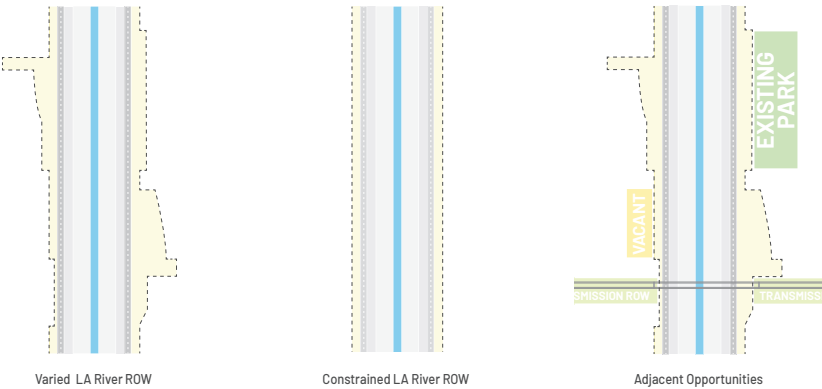
KIT OF PARTS



Source: OLIN, Gehry Partners, Geosyntec

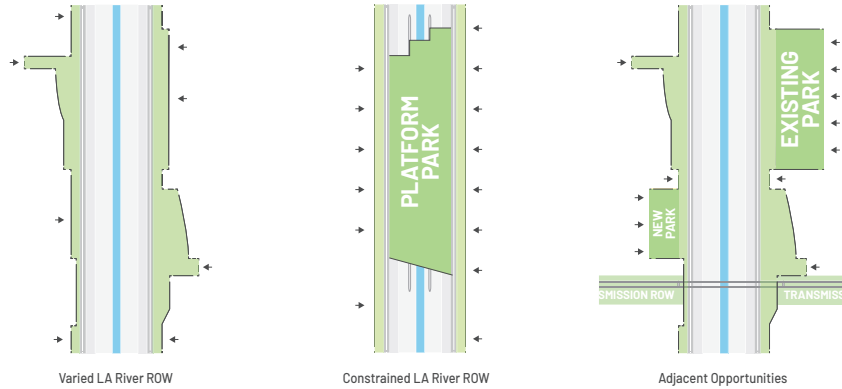
TYPICAL OPPORTUNITY SITES

Common Conditions Along the LA River Corridor



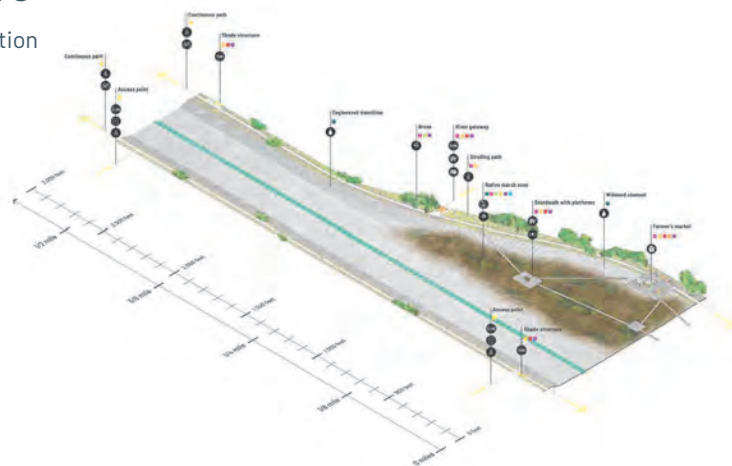
RELATING NEED AND DESIGN

Strategies for Applying Design Elements



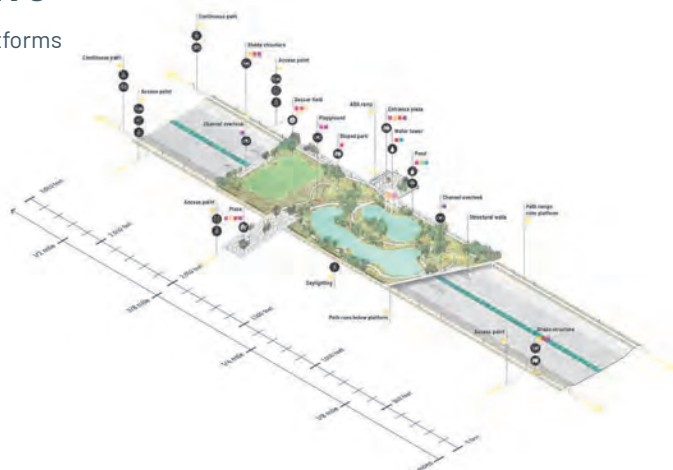
KIT OF PARTS

Floodplain Reclamation



KIT OF PARTS

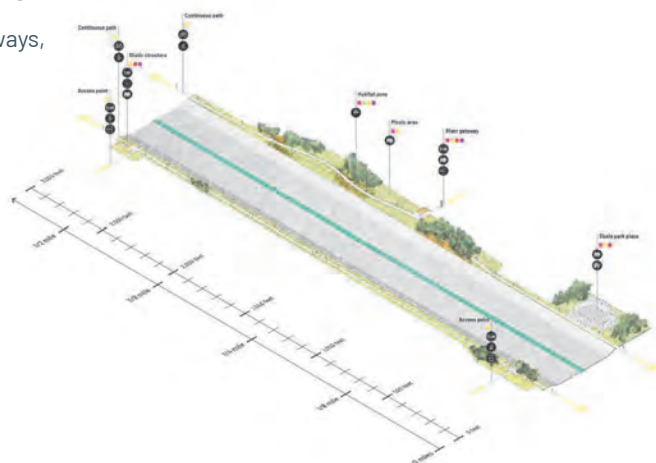
Crossings and Platforms



KIT OF PARTS

KIT OF PARTS

Trails, Access Gateways, and Shelters

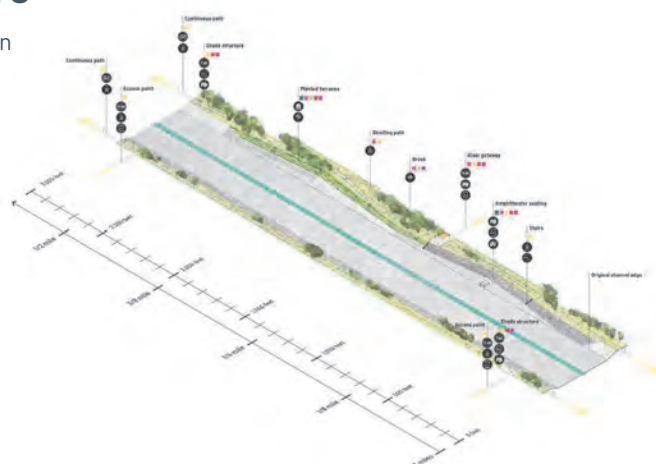


GOAL-DRIVEN FRAMEWORK

KIT OF PARTS

KIT OF PARTS

Channel Modification

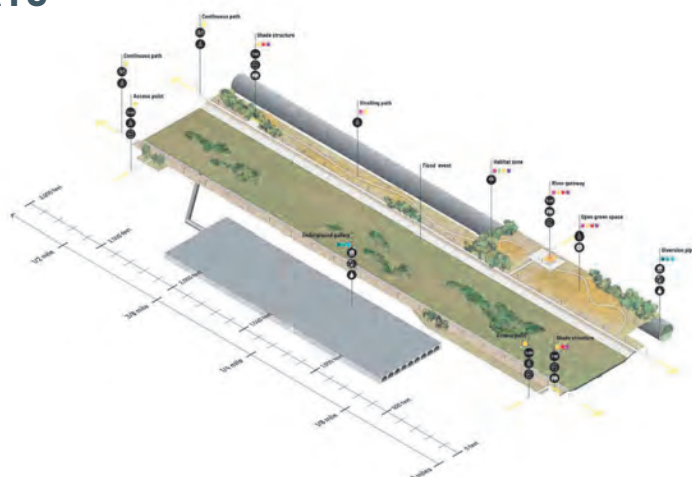


GOAL-DRIVEN FRAMEWORK

KIT OF PARTS

KIT OF PARTS

Diversions

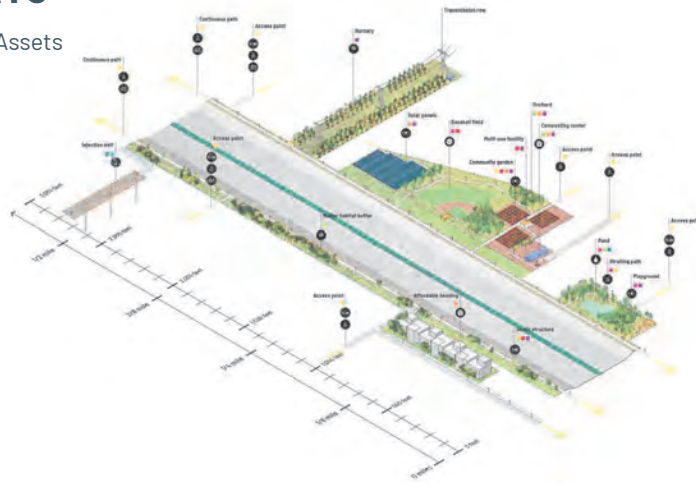


GOAL-DRIVEN FRAMEWORK

KIT OF PARTS

Off Channel Land Assets

FLOOD RISK MANAGEMENT
PARKS
ECOSYSTEMS
ACCESS
ARTS & CULTURE
HOUSING AFFORDABILITY
EDUCATION
WATER SUPPLY
WATER QUALITY



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP



POLICY

GOAL: ACTIVE PRIORITY FOR THE FUTURE

POTENTIAL ACTIONS

- *Movements toward the priority*

POTENTIAL METHODS

- *Specific implementation steps for each action*

WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP

2020 PLAN RECOMMENDATIONS

Goals (9)

Actions

WHAT

Methods

PARTIES RESPONSIBLE FOR IMPLEMENTATION
POTENTIAL IMPLEMENTATION PARTNERS

WHO

GEOGRAPHIC BOUNDARIES

WHERE

ORDER-OF-MAGNITUDE COST

HOW

EXISTING FUNDING SOURCES

POTENTIAL NEW FUNDING SOURCES

WHEN

TIMEFRAME

Frames (9)

Projects

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

EXAMPLE OF GAM MATRIX

1. Reduce flood risk and improve resiliency.	WHAT	WHO	WHERE	HOW	WHEN			
Action/Methods	Related Action/Methods	Implementation Responsibility	Potential Partners	Geographic Boundaries	Cost	Existing Funding Sources	Potential New Funding Sources	Timeframe
1.1. Reduce flows into the river.		PWFCO		LA River Watershed				ongoing.
1.1.1. Ensure all development within the watershed incorporates low impact development techniques.								
1.1.2. Evaluate regional scale upstream flood detention basins.								
1.1.3. Coordinate with Watershed Management Programs/Enhanced Watershed Management Programs (EWMPs) and other watershed management efforts to reduce imperviousness in the watershed.								
1.2. Increase capacity of the river in high risk areas and provide flood risk management to at least the 100-year event.		PWFCO	USACE	LA River Corridor				long term (10-20 years)
1.2.1. Prioritize natural features and processes for flood risk reduction.								
1.2.2. Purchase or otherwise reclaim land along the channel and immediately adjacent floodplain areas.								
1.2.3. Widen and deepen the channel or create to-risks.								
1.2.4. Build bypass channels and tunnels.								
1.2.5. Manage sediment in the river channel and before it accumulates in the river channel.								
1.2.6. Manage vegetation and remove invasive plants.								
1.3. Include climate change research in the planning process for new projects along the river.		PWFCO	CBO	LA River Watershed				short term (0-5 years)
1.3.1. Update and improve the LA River hydrology analysis.								
1.3.2. Update and improve flood inundation mapping.								
1.3.3. Conduct inter-institutional study on climate change impacts in the LA Basin and how they impact hydrology.								
1.3.4. Apply latest accepted climate change prediction models to flood risk reduction planning.								
1.4. Improve and refine emergency preparedness.		PWFCO	Sheriff, Fire Department, Health Agency, Metrolink	LA River Corridor				short term (0-5 years)

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP





PUBLIC COMMENT OPTIONS

- **Verbal comments**
 - Speakers to be called in order of speaker cards submitted (optional)
 - Up to 15 minutes total for the Public Comment item
 - Total time per person will depend on number of speaker cards received
- **Comment cards**
- **Email comments to LARiver@dpw.lacounty.gov**

WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN GOAL-DRIVEN FRAMEWORK PUBLIC COMMENT **WRAP UP** 83



Important Upcoming Dates:

- Resource Conservation District Clean Up Day at Sepulveda Basin – April 13, 2019
- Community Meeting (Compton /Lynwood/East Rancho Dominguez) – April 24, 2019
- Community Meeting (Pacoima) – May 15, 2019
- Native Voices Symposium – June 1, 2019
- Steering Committee Meeting #6 – June 26, 2019
- Community Meeting (Glendale) – June 27, 2019
- Pacoima Beautiful Summer Institute and Community Event – July 1, 2019
- SELA Arts Fest (Exhibitors) – July 27, 2019

INPUT, QUESTIONS, IDEAS?

Contact Genevieve Osmena at (626) 458-4322
or LARiver@dpw.lacounty.gov

WELCOME

ENGAGEMENT UPDATE

SUBCOMMITTEE REPORT

WHAT'S IN THE PLAN

GOAL-DRIVEN FRAMEWORK

PUBLIC COMMENT

WRAP UP

165

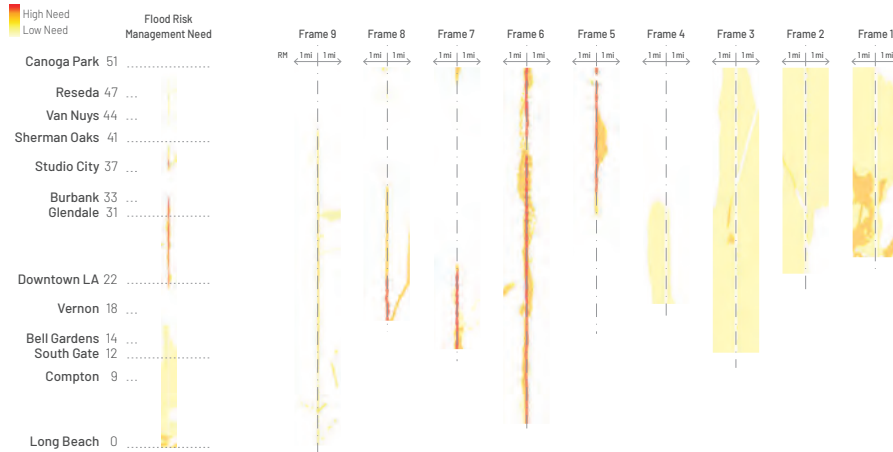


LARiverMasterPlan.org

APPENDIX

NEEDS ANALYSIS

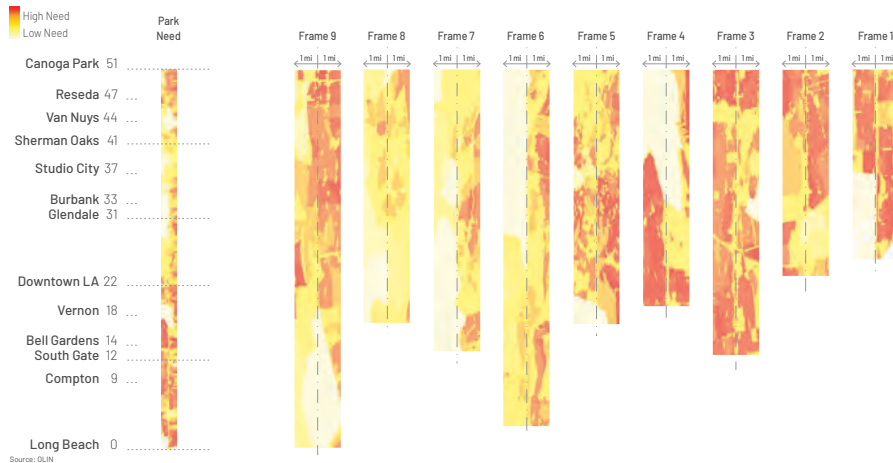
FLOOD RISK MANAGEMENT NEED



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP

NEEDS ANALYSIS

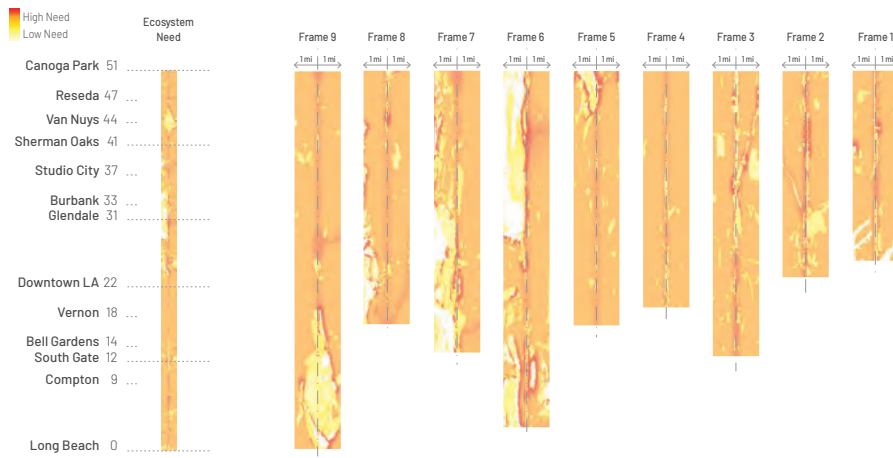
PARK NEED



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP

NEEDS ANALYSIS

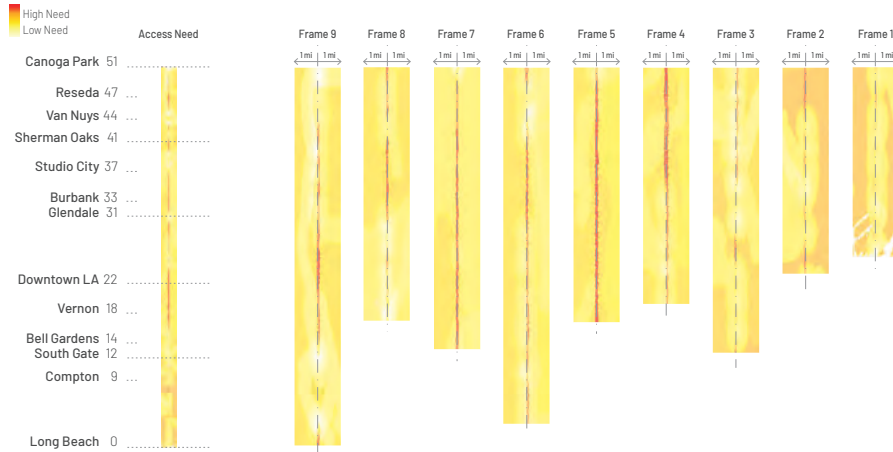
ECOSYSTEM NEED



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP

NEEDS ANALYSIS

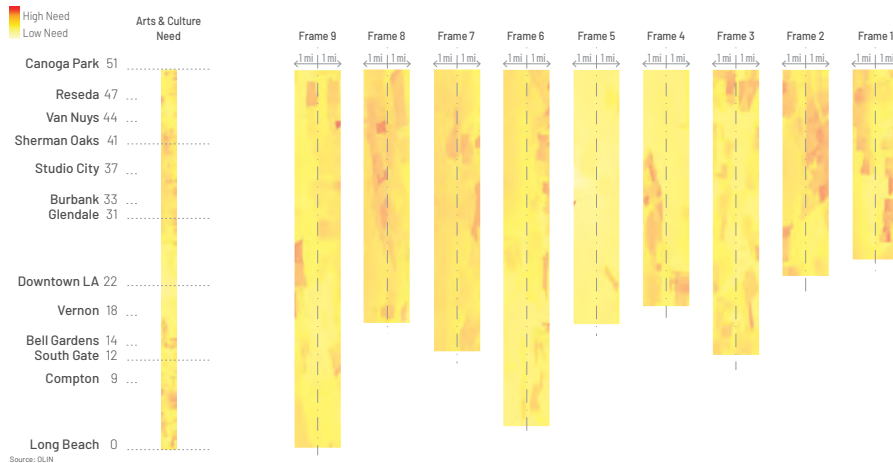
ACCESS NEED



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 01

NEEDS ANALYSIS

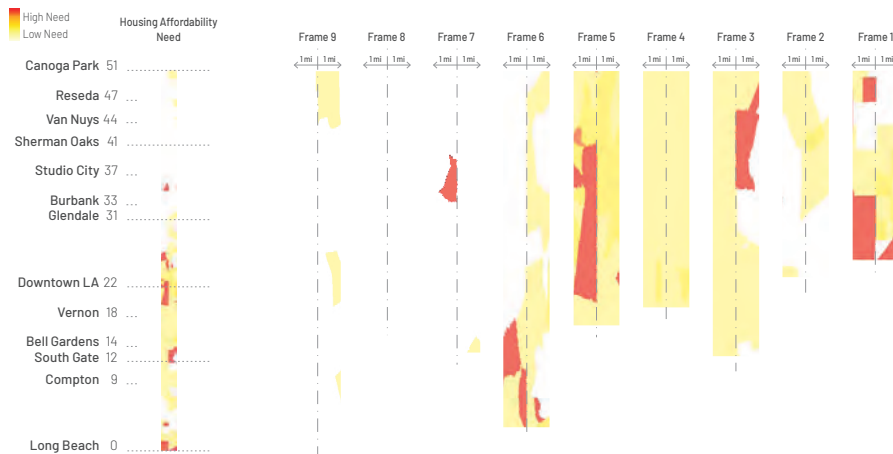
ARTS & CULTURE NEED



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 02

NEEDS ANALYSIS

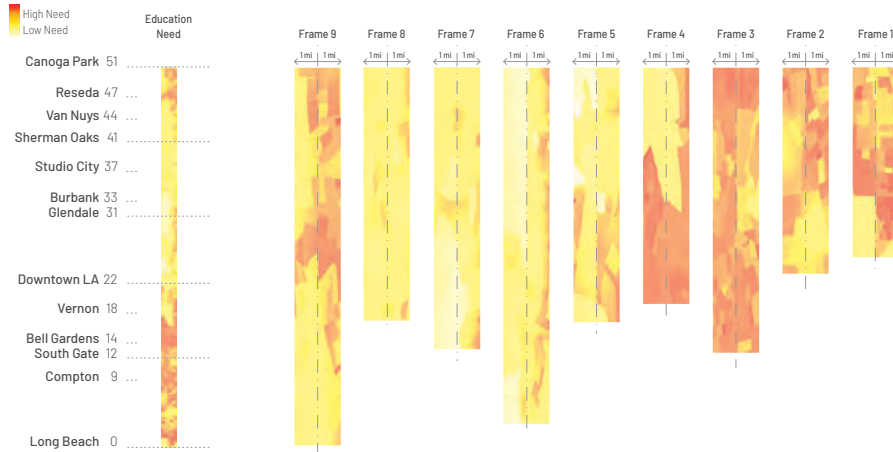
HOUSING AFFORDABILITY NEED



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 03

NEEDS ANALYSIS

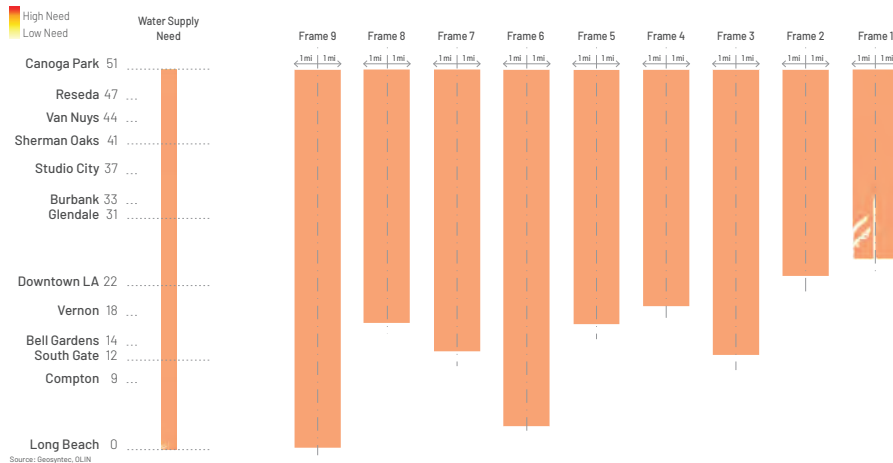
EDUCATION NEED



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 17%

NEEDS ANALYSIS

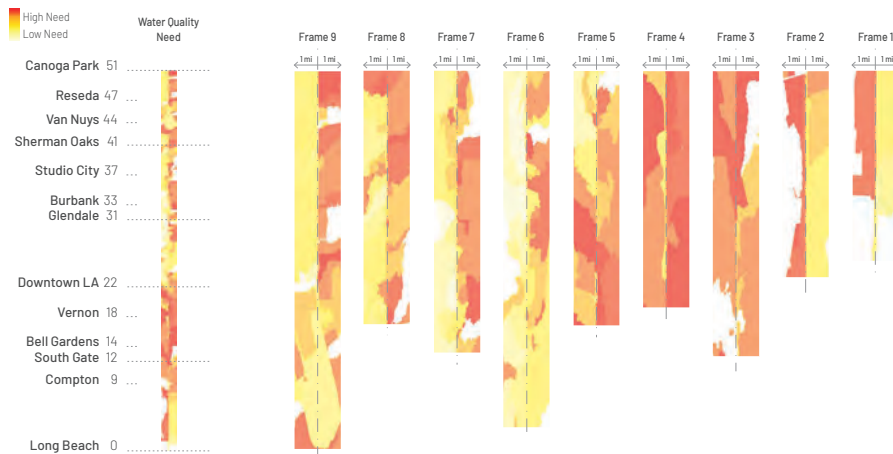
WATER SUPPLY NEED



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 17%

NEEDS ANALYSIS

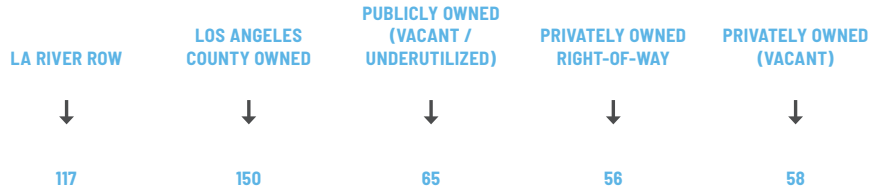
WATER QUALITY NEED



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 17%

OPPORTUNITY: 450 POTENTIAL SITES

Potential Opportunity Sites within 1 mile of the LA River (Includes LA River ROW)



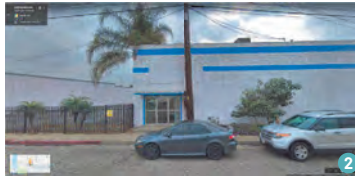
* Privately owned underutilized parcels excluded

DESKTOP ANALYSIS

Is there recent construction on the site?
Is there apparent contamination (Superfund or Brownfield designation)?
Is there known hazardous waste?
Are there development plans for the site?



Google Earth Aerial



Google Street View



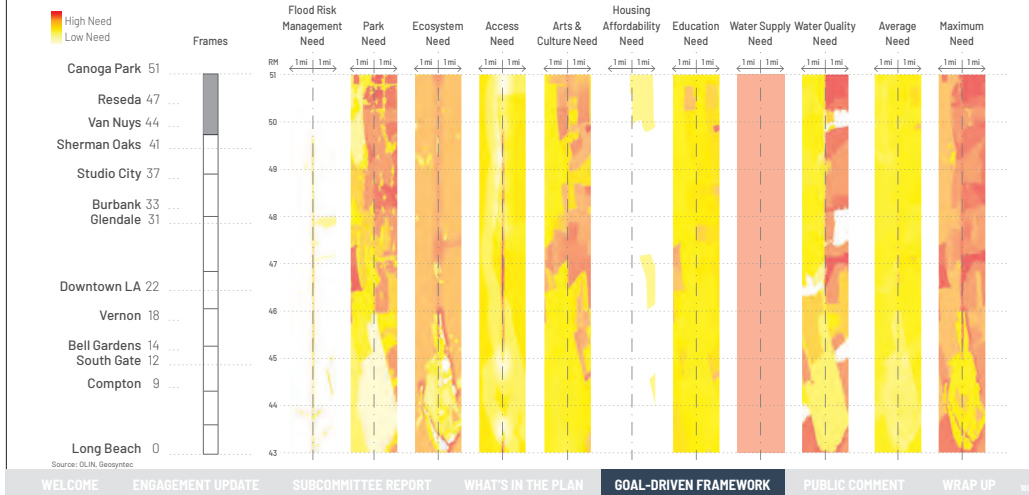
Online Search

DESKTOP ANALYSIS

Address	Parcel ID	Owner	Current Use	Proposed Use	Notes	Comments	Other Notes
117	117	117	117	117	117	117	117
118	118	118	118	118	118	118	118
119	119	119	119	119	119	119	119
120	120	120	120	120	120	120	120
121	121	121	121	121	121	121	121
122	122	122	122	122	122	122	122
123	123	123	123	123	123	123	123
124	124	124	124	124	124	124	124
125	125	125	125	125	125	125	125
126	126	126	126	126	126	126	126
127	127	127	127	127	127	127	127
128	128	128	128	128	128	128	128
129	129	129	129	129	129	129	129
130	130	130	130	130	130	130	130
131	131	131	131	131	131	131	131
132	132	132	132	132	132	132	132
133	133	133	133	133	133	133	133
134	134	134	134	134	134	134	134
135	135	135	135	135	135	135	135
136	136	136	136	136	136	136	136
137	137	137	137	137	137	137	137
138	138	138	138	138	138	138	138
139	139	139	139	139	139	139	139
140	140	140	140	140	140	140	140
141	141	141	141	141	141	141	141
142	142	142	142	142	142	142	142
143	143	143	143	143	143	143	143
144	144	144	144	144	144	144	144
145	145	145	145	145	145	145	145
146	146	146	146	146	146	146	146
147	147	147	147	147	147	147	147
148	148	148	148	148	148	148	148
149	149	149	149	149	149	149	149
150	150	150	150	150	150	150	150
151	151	151	151	151	151	151	151
152	152	152	152	152	152	152	152
153	153	153	153	153	153	153	153
154	154	154	154	154	154	154	154
155	155	155	155	155	155	155	155
156	156	156	156	156	156	156	156
157	157	157	157	157	157	157	157
158	158	158	158	158	158	158	158
159	159	159	159	159	159	159	159
160	160	160	160	160	160	160	160
161	161	161	161	161	161	161	161
162	162	162	162	162	162	162	162
163	163	163	163	163	163	163	163
164	164	164	164	164	164	164	164
165	165	165	165	165	165	165	165
166	166	166	166	166	166	166	166
167	167	167	167	167	167	167	167
168	168	168	168	168	168	168	168
169	169	169	169	169	169	169	169
170	170	170	170	170	170	170	170
171	171	171	171	171	171	171	171
172	172	172	172	172	172	172	172
173	173	173	173	173	173	173	173
174	174	174	174	174	174	174	174
175	175	175	175	175	175	175	175
176	176	176	176	176	176	176	176
177	177	177	177	177	177	177	177
178	178	178	178	178	178	178	178
179	179	179	179	179	179	179	179
180	180	180	180	180	180	180	180
181	181	181	181	181	181	181	181
182	182	182	182	182	182	182	182
183	183	183	183	183	183	183	183
184	184	184	184	184	184	184	184
185	185	185	185	185	185	185	185
186	186	186	186	186	186	186	186
187	187	187	187	187	187	187	187
188	188	188	188	188	188	188	188
189	189	189	189	189	189	189	189
190	190	190	190	190	190	190	190
191	191	191	191	191	191	191	191
192	192	192	192	192	192	192	192
193	193	193	193	193	193	193	193
194	194	194	194	194	194	194	194
195	195	195	195	195	195	195	195
196	196	196	196	196	196	196	196
197	197	197	197	197	197	197	197
198	198	198	198	198	198	198	198
199	199	199	199	199	199	199	199
200	200	200	200	200	200	200	200

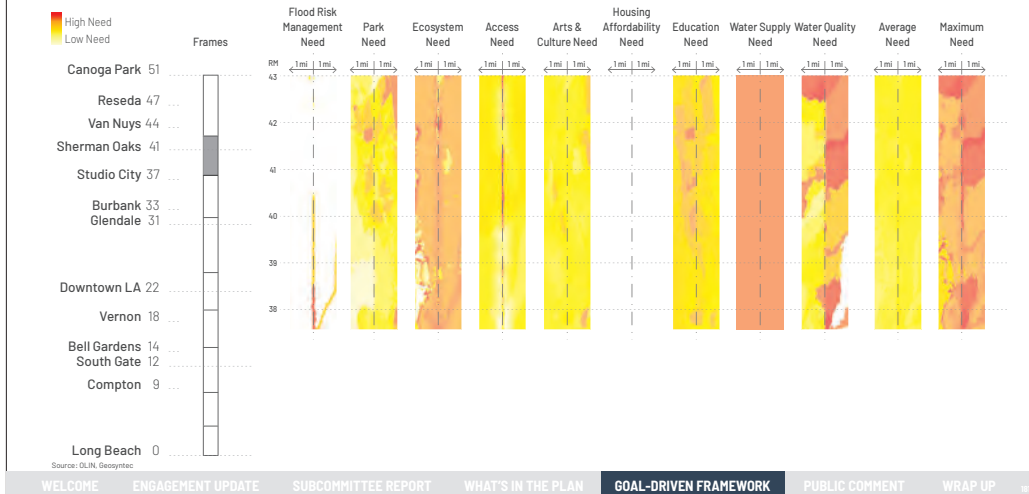
NEEDS ANALYSIS

FRAME 9 NEEDS



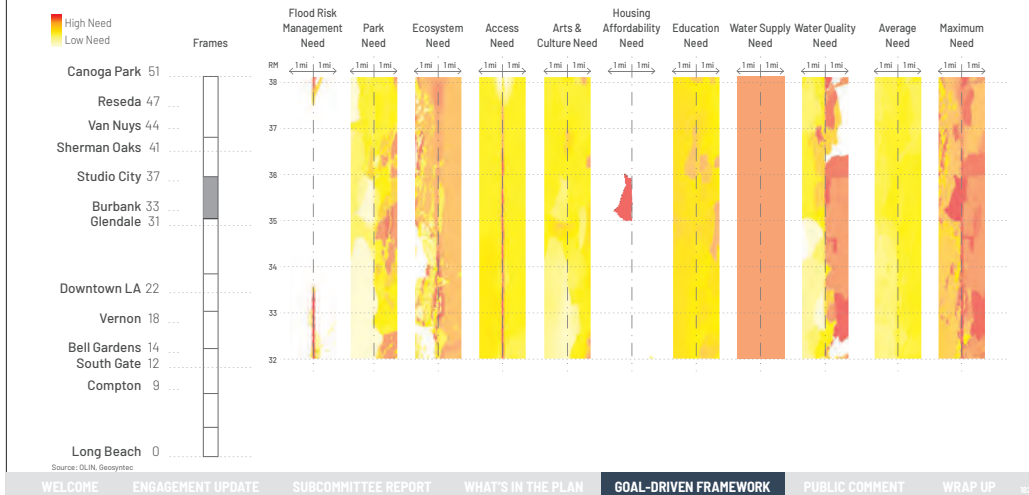
NEEDS ANALYSIS

FRAME 8 NEEDS



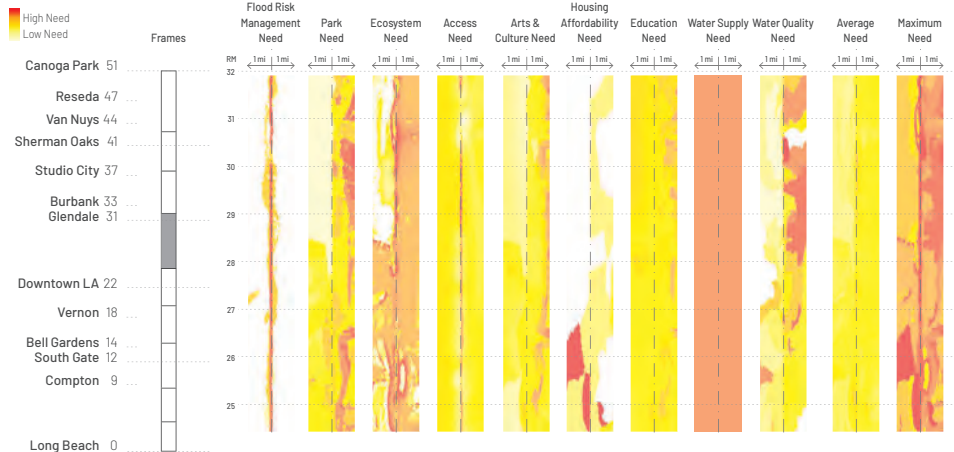
NEEDS ANALYSIS

FRAME 7 NEEDS



NEEDS ANALYSIS

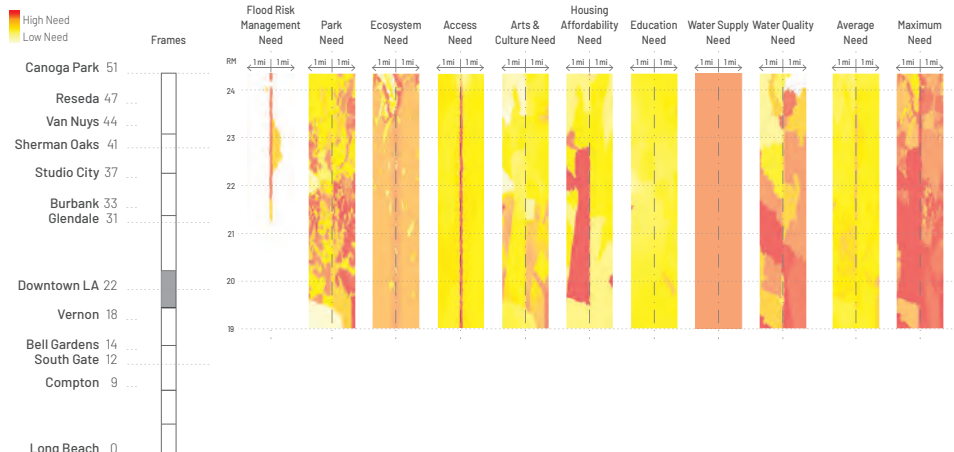
FRAME 6 NEEDS



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 93

NEEDS ANALYSIS

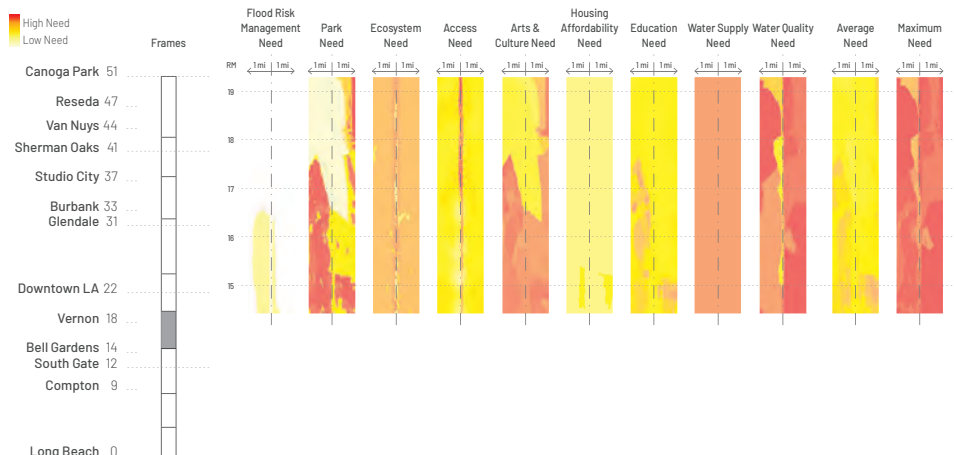
FRAME 5 NEEDS



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 94

NEEDS ANALYSIS

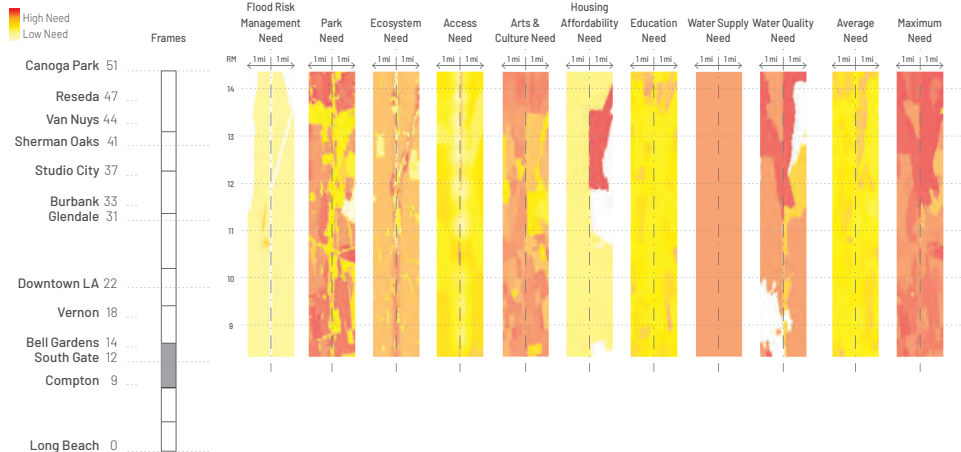
FRAME 4 NEEDS



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP 95

NEEDS ANALYSIS

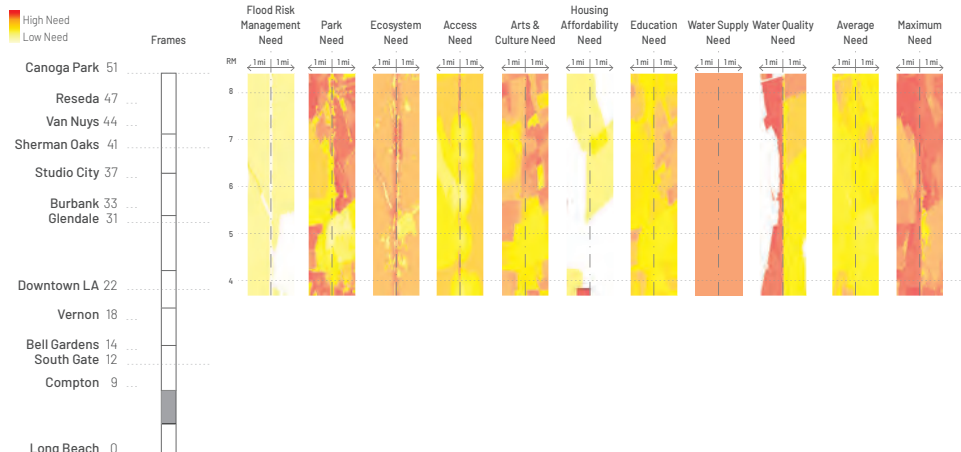
FRAME 3 NEEDS



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP

NEEDS ANALYSIS

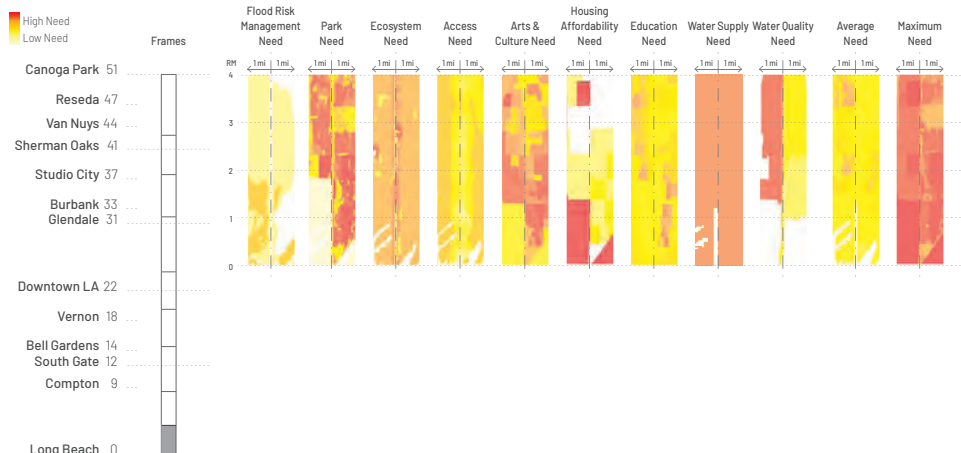
FRAME 2 NEEDS



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP

NEEDS ANALYSIS

FRAME 1 NEEDS



WELCOME ENGAGEMENT UPDATE SUBCOMMITTEE REPORT WHAT'S IN THE PLAN **GOAL-DRIVEN FRAMEWORK** PUBLIC COMMENT WRAP UP







Appendix C

Project Team Responses to Steering Committee Comments and Questions

1. Where is the data source documentation for the needs assessment and gap analysis?

- a. The data used in the needs assessment and gap analysis is in the project progress memos which can be reviewed on the website at: http://www.larivermasterplan.org/inventory_and_analysis which were posted in November and December 2018. Each map has source data listed on the map.
- b. The needs assessment maps were completed based on the categories identified by LA County Departments, the Steering Committee and Subcommittees, and community input (and follow up input from County and Steering Committee members that sent in comments) as being key items to assess for the nine goal categories.

2. The water supply needs map relying on only regional need as a blanket misses the fact that many communities do have differences in access to water.

- a. Although there are differences in how water is treated and distributed to communities around Los Angeles County, the Master Plan goal is focuses on improving local water supply reliability within the LA River watershed. With more than 30 water purveyors and districts within the watershed providing water to communities from multiple sources (such as groundwater, surface water, imported water, and recycled water) the LA River can help improve the reliability of the individual portfolios through measured actions within the watershed and along the mainstem in both wet and dry weather.

3. What is the approach for balancing the flow study outcomes and water management?

- a. The team has met with the Low Flow Study team multiple times to review possible alignments between the two projects and will continue to collaborate. One of the Low Flow Study team's principal investigators, Dr. Eric Stein, presented at the December 2018 water subcommittee (which was shared with the people and environment subcommittees). The project schedules are on very different timelines, but once the Low Flow Study team releases their first sets of deliverables, the Master Plan team will seek to find ways to overlap. Having their team present to the Steering Committee was also suggested, which we will seek to accommodate at an upcoming meeting.

4. How is a multi-benefit approach being incorporated into the Master Plan Update?

- a. As the team moves forward into selecting sites for projects, the intent is to select sites where multiple needs from the needs analysis overlap and then to select design components that can meet the most needs while not compromising flood risk management.

5. The asset mapping for the cultural items may not fully consider what constitutes cultural/arts needs.

- a. The LA County asset maps available for arts and culture are not as robust as some of the other informational sources. One of the items in the GAM document (currently under 5.2) indicates that a comprehensive asset mapping framework should be established for the LA River. The master plan is not tasked with improving this asset mapping, but it is tasked with making recommendations for parallel and future actions. In collaboration with the LA County Arts Commission,

it was determined that completing the map with the data currently available was preferred over not including a needs map for arts and culture.

6. How is climate change incorporated into the Master Plan Update?

- a. There are several ways the team is considering climate change in the Master Plan:
 - i. Updates to the design guidelines will be founded upon a comprehensive assessment of the planting lists for LA River projects to determine future viability of species. Part of this effort has included conversations with leading experts on seeds, biodiversity, plant maintenance, and ecology. The team has also reached out to various groups working on urban biodiversity (such as City of LA biodiversity index team), plant suitability to shifting climates, and community science.
 - ii. The LA County Flood Control District is currently collaborating with UCLA to study how climate change will impact future climatic cycles. This work will be ongoing after the Master Plan is complete, and GAM 1.3 describes ongoing work on this topic. Studies shown at the H+H work session on March 20, 2019, (which can be viewed here: http://www.larivermasterplan.org/subcommittee_hydrology_and_hydraulics_workshop) indicate that the 100-year event may be closer to a 67-year event in the future under certain emission scenarios. Given this information, the team is considering how flood management alternatives in the future might reduce risk under these uncertainties.
 - iii. Given a potentially warmer climate with worsening urban heat island effects, the team is working to include more requirements for shade and water availability along the LA River trail.
 - iv. The team has included sea level rise projections in the estuary in considering future needs such as habitat areas for projects.

7. Are the typologies prioritized, and if so what methodology was used?

- a. The typologies (kit of parts components) are not prioritized and are meant to guide project decisions at locations when needs and opportunities are defined. The team is seeking input as to whether all the applicable components are captured by the list.

8. What kind of analytical approach was used to weight needs?

- a. All weightings were determined in consultation with experts in the associated field on the consultant team and within LA County Departments. Many categories are given equal weighting within the needs maps (example: park need, arts/culture). Where specific datasets were weighted differently, the weightings were determined based on which data were most critical for the given goal (example: ecology, flood). The team invites feedback on the weightings.

9. Highlights of the Working Memos would be helpful – are they available somewhere?

- a. The team presented the highlights of the memos at the June 2018 and September 2018 Steering Committee Meetings with further discussions at the Subcommittee meetings. For anyone that was not in attendance at those two

meetings, you can review the slides from the Steering Committee presentations posted on the website at:

http://www.larivermasterplan.org/steering_committee_meeting_summaries.

- b. The progress memos in their entirety are posted on the website at:
http://www.larivermasterplan.org/inventory_and_analysis.

10. A working session is needed to discuss the Draft Goals, Actions, and Methods.

- a. The Goals have been discussed at length and refined over the first 4 Steering Committee and SubCommittee meetings, and a document containing the Goals and Actions was presented and discussed during the Steering Committee and SubCommittee Meetings in December 2018. Many of the Methods shown in the current document were a direct result of the discussions held during those meetings. Based on your feedback, we have decided to dedicate a significant portion of the April 17th subcommittee meetings to further discussion of the GAMs, and the team will look into providing additional time for the steering committee to discuss the GAMs if requested.

11. There doesn't seem to be coverage of economic development in the Draft Goals, Actions, and Methods to reflect input from the Steering Committee at earlier meetings.

- a. Following feedback given to the team during Steering Committee #3, the goal for foster opportunities for continued community engagement, development, and education (Goal 7) includes economic development items within Development, Engagement, and Education. The team would like feedback on how to strengthen the actions and methods in this goal to provide local economic development that does not encourage displacement. The vision statement also includes an overriding statement on economic opportunity and the introduction discusses the creation of local jobs

12. The Master Plan Update should clearly and transparently convey priorities, and not assume that people know that certain priorities are implicit.

- a. Transparency of priorities is important. The team is seeking input on how the order of items in the Master Plan affects the interpretation of priorities, specifically whether the need for flood risk reduction is clearly conveyed.
- b. We also want to ensure the Master Plan is flexible as priorities will likely evolve over the next 25 years.

13. Although Vernon doesn't have a high residential population and therefore doesn't rank high on the park's assessment or the CalEnviroScreen because they are based on population data, it is still important to consider it for park need, particularly since adjacent communities such as Maywood have very high park needs.

- a. The communities in this stretch of the river have a very high need for parks. The LA County Parks Needs Assessment and the CalEnviroScreen indicate that the environmental conditions are very poor around Maywood and other communities near Vernon. While the team will not alter the State of California CalEnviroScreen Data or the 2016 LA County Parks Needs Assessment Data, which are based on residential population, we understand that the immediate adjacency of residential

park “need” to the river cannot be considered in isolation. In many cases, not only Vernon, there may be a significant need that is one block away from the river or as much as a mile. In all cases, the nearby needs are all important. As opportunities are identified in these unique locations, the kit of parts will be used to identify the project typologies most useful in these locations.

14. Have utility corridors been considered as having potential for project sites?

- a. Utility rights-of-way, such as rail or powerlines, are part of the Opportunity Land Asset Mapping. This was shown in the Steering Committee #5 slides which will be available on the LARiverMasterPlan.org website here:
http://www.larivermasterplan.org/steering_committee_meeting_5

15. Have available bicycle and pedestrian counts been included in the needs assessment?

- a. Unfortunately, we do not have consistent data sources on this topic for the entire 51 miles of the river. If a Steering Committee member knows of a source, please share with the team.
- b. This could be identified as a possible method in the GAM to outline a future study.

16. Be careful about identifying sites for new uses, such as housing, in existing industrial areas. Is this being considered?

- a. Yes, possible sites for housing are being weighed with many factors, important factors being prior land uses and adjacent land uses.

17. Are toxins entering and exiting the LA River addressed in the needs assessment?

- a. The CalEnviroScreen, which includes items such as toxic release sites from facilities, is part of the needs assessment layers that were used. As well, the regional water quality plans (Watershed Management Plans and the Enhanced Watershed Management Plans – or WMPs/EWMPs) are also working towards meeting surface water quality requirements and are included in the needs inventory under the water quality goal.

18. We need to talk about funding and implementation. The cost of these items and who is paying for them should be in our discussion.

- a. Definitely – we want to ensure the Master Plan is useful moving forward, so these items are critical. The LA County Departments will be going through an exercise in the coming months to understand which departments may take on certain topics and the team will need to talk to and engage other entities as well to understand what partnerships can make the vision a reality.

Appendix D

AB466/Upper Los Angeles River and Tributaries Working Group Presentation



AB 466 Upper Los Angeles River and Tributaries Revitalization Plan

Los Angeles River Master Plan Update
April 10, 2019

Santa Monica Mountains Conservancy

Legislation: Assembly Bill 466

- The working group shall develop a revitalization plan;
- address unique and diverse needs of the waterways and the communities through which they pass;

...be consistent with and enhance the
County's Los Angeles River Master Plan...

	Tujunga Wash	Pacoima Wash	Burbank Western Channel	Aliso Canyon Wash	Browns Canyon Wash	Arroyo Seco	Verdugo Wash	Caballero Creek	Arroyo Calabasas	Bull Creek	Central Branch Tujunga	Bell Creek	Chatsworth Creek
A. Park Accessibility ¹ <small>Source: 2012 Census Data, LA County Parks Department</small>	5 (8%)	5 (8%)	4 (8%)	8 (15%)	10 (4%)	2 (1%)	1 (8%)	12 (25%)	7 (7%)	10 (4%)	8 (8%)	13 (47%)	3 (8%)
B. Park Proximity ² <small>Source: 2012 Census Data, LA County Parks Department</small>	11 (1.6%)	12 (1.4%)	6 (3.7%)	9 (1.3%)	1 (3%)	3 (3.3%)	5 (5.2%)	10 (1.8%)	13 (1.4%)	4 (5.6%)	8 (8.8%)	7 (8.8%)	2 (11.5%)
C. Population Density ³ <small>Source: 2012 US Census</small>	13 (24)	4 (15)	10 (25)	6 (10)	9 (25)	8 (23)	11 (25)	12 (26)	2 (17)	1 (16)	2 (17)	7 (21)	4 (16)
D. Vacant Land ⁴ <small>Source: LA County GIS Portal</small>	9 (8.1%)	8 (5.9%)	4 (3.5%)	7 (5.7%)	6 (5.8%)	10 (5.5%)	11 (3.1%)	12 (14.2%)	13 (15.3%)	3 (1.4%)	2 (1.3%)	5 (3.7%)	1 (1%)
E. Household Income ⁵ <small>Source: 2012 US Census</small>	10 (3.1%)	12 (8.4%)	10 (3.4%)	6 (3.6%)	5 (3.6%)	12 (5.4%)	8 (3.8%)	6 (3.8%)	9 (3.8%)	4 (3.7%)	9 (3.8%)	2 (3.4%)	1 (3.2%)
F. Community Burden (CES 3.0) ⁶ <small>Source: State of California CES 3.0</small>	12 (74)	13 (76)	11 (88)	8 (80)	7 (69)	9 (82)	5 (81)	3 (47)	4 (48)	6 (94)	10 (84)	1 (44)	2 (42)
G. Impervious Land Cover ⁷ <small>Source: National Wetlands Inventory Data Base, National Wetlands Inventory, San Joaquin River Delta Basin, National Wetlands Inventory</small>	9 (49%)	11 (53%)	12 (57%)	8 (42%)	10 (52%)	2 (14%)	5 (37%)	4 (38%)	2 (45%)	6 (47%)	12 (57%)	7 (41%)	1 (37%)
H. Tributary Length ⁸ <small>Source: LA County GIS Portal</small>	12 (9.8)	13 (11)	6 (6.3)	9 (8.3)	5 (5.9)	11 (9.7)	8 (8.3)	2 (3.3)	6 (6.3)	10 (3.3)	4 (4.2)	3 (3.7)	1 (2.3)
I. Tributary Drainage Area ⁹ <small>Source: LA County GIS Portal</small>	13 (1,118)	12 (58.79)	9 (18.50)	7 (17.60)	8 (140)	11 (38.20)	10 (19.40)	1 (2.40)	5 (9.20)	6 (12.80)	2 (5.30)	4 (8.0)	3 (6.80)
J. Significant Ecological Area ¹⁰ <small>Source: LA County GIS Portal</small>	8 (13.3%)	5 (8.4%)	8 (13.9%)	11 (20%)	12 (25.9%)	4 (8.2%)	7 (11.3%)	6 (13%)	10 (19.5%)	13 (36%)	1 (8)	2 (16.3%)	3 (18.6%)
TOTAL SCORE	102	95	80	79	73	72	71	68	65	63	59	51	21



A MISSION-DRIVEN FRAMEWORK WORKING GROUP'S MISSION STATEMENT

The working group developed a mission statement that focused on the following six components:



Water and Environment Committee Purpose

The purpose of the Water and Environment committee is to identify and prioritize the opportunities that focus on the community need for safety and responsibility for a sustainable environment for the Upper Los Angeles River and its Tributaries using an integrated approach (water resources/conservation /quality/recreation source)

Water and Environment Objectives

- + Create equitable opportunities to enhance the ecosystem, watershed health, water supply, improve water quality, habitat, and biodiversity
- + Maintain or enhance flood management
- + Balance the utilization of available space and resources for both the environment and the community
- + Assess all opportunities for resiliency to climate change

People and Environment Committee Purpose

The purpose of the People and Recreation committee is to identify and prioritize the opportunities that focus on the community need for public space and recreation within and along the Upper Los Angeles River and its Tributaries with special consideration for:

- + Culture and arts
- + Economic workforce development
- + The special needs community
- + Recreation and equitable access for all
- + Integration of the water and environment

People and Recreation Objectives

- + Feature and promote the importance of community and local culture
- + Identify and create improved, inspirational, inclusive access and connectivity to public space, the river and tributaries for all users
- + Incorporate and identify opportunities for education, recreation, ecosystem and habitat restoration, passive recreation, and examine their relationship with baseflows
- + Focus on social equity and environmental justice
- + Strengthen local businesses to foster job creation and economic growth

PROGRESS TO DATE

Literature Review
RFP for Consultant Team
Inventory and Analysis
Gaps Analysis
Plan Framework
Community Engagement

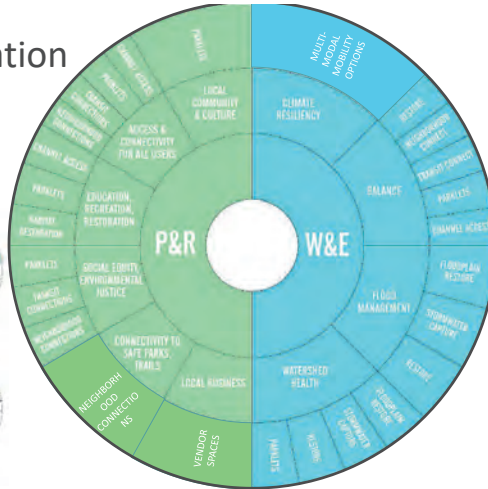
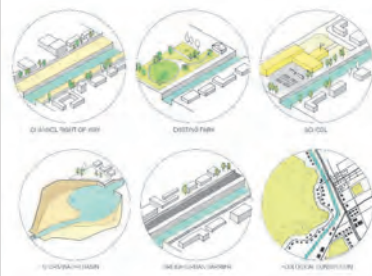
<https://www.upperlariver.org/>



MAP EXERCISE 10 DEC COMMITTEE MEETING



Multi-Benefit Foundation



Legislation's deadline: June 30, 2020



WHEN WILL THE PLAN BE COMPLETED?



Working Group Meetings

Working Group Meeting Date	OBJECTIVE
March 2019	Identify Priority sites and Opportunities
May 2019	Project Concept Development
July 2019	Develop ULART Revitalization Plan
September 2019	Vote on ULART Revitalization Plan

Revitalization Plan Upcoming Events

Working Group	Water & Environment and People & Recreation Committees
May 23, 2019	April 25, 2019
July 25, 2019	June 28, 2019
September 26, 2019	August, 2019 (Draft plan review, no meeting)

Community Engagement and Outreach*	
Round 1	3/13 and 3/20
	4/4 and 4/9
Round 2 (April - May)	Proposed Projects and Conceptual Plans
Round 3 (June – July)	Draft Plan

*Dates subject to change

Contact Information



Santa Monica Mountains Conservancy, Board Secretary

- Tel. No. (310) 589-3200, Extension 118
- Email: river@smmc.ca.gov

Mountains Recreation and Conservation Authority

Sarah Rascon, Urban River Program Officer

- Email: sarah.rascon@mrca.ca.gov
- Tel. No. (323) 221-9944, Extension 109

Melissa Vega, Project Analyst

- Email: melissa.vega@mrca.ca.gov
- Tel. No. (323) 221-9944, Extension 199

Appendix E

Draft Vision, Introduction, Goals, Actions, & Methods

4 APRIL 2019

2020 Proposed WORKING DRAFT VERSION 4: Los Angeles River Master Plan Update
April 2019-

(Currently this summary is in present tense, and in its final version it will become past tense.)

Vision: The Reimagined River

Fifty-one miles of connected open space that includes clean water, native habitat, parks, multiuse trails, art, and cultural resources to improve health, equity, access, mobility, and economic opportunity for the diverse communities of LA County, while providing flood risk management.

Executive Summary

One million people live within one mile of the Los Angeles River. More impressively, one out of four Californians lives within one hour of the river. Channelized to protect lives and property from flooding during the late 19th through the mid-20th centuries, the Los Angeles River has largely been separated from our social and ecological communities. While fragmented jurisdictions, land ownership, and funding present hurdles in rethinking the LA River, the 2020 Los Angeles River Master Plan seeks to reimagine the LA River from a single use corridor to a tangible, multi-benefit resource for the communities of Los Angeles County, while still meeting the needs of flood risk management. The 2020 Plan recognizes the need for resilient systems that address the most complex issues facing the Los Angeles Region, such as climate change, population growth, resource scarcity, and social inequity.

The 2020 Los Angeles River Master Plan builds on over two decades of planning efforts for the Los Angeles River, including efforts by LA County (1996), the City of Los Angeles (2007), the Lower LA River Working Group (2018), and the Upper LA River and Tributaries Working Group (2019). The research and project database that forms the foundation for this plan covers over 130 planning efforts from across the watershed.

The 2020 Master Plan Update process began in 2016 with a motion by the Board of Supervisors to update the 1996 Los Angeles County LA River Master Plan. The update process, led by Los

4 APRIL 2019

Angeles County Public Works, is supported by an Internal County Team with representatives from each LA County department. A Steering Committee of 41 members representing municipalities, non-profit organizations, or other governmental and non-governmental entities provides input and expertise in issues related to water, people, or the environment. In addition to the technical team and steering committee, the update process includes a robust public engagement program designed to provide opportunities for LA County residents to express ideas for the future of the river.

The 2020 Master Plan is based on a watershed and community approach to update the corridor plan. This approach is unique from previous efforts in that analysis work, including ecosystem, demographic, and hydrologic studies were conducted for the entire 834 square mile watershed. Recognizing that these systemic and natural elements cannot be studied in isolation, several studies were investigated at an area larger than the watershed. This research is now publicly available and can be utilized for parallel efforts within the watershed.

There is no singular, 51-mile solution for the LA River. Projects along the river should reflect the needs and opportunities of specific reaches and provide multiple benefits that respect the needs of flood risk management while enhancing the environment and strengthening our communities through the celebration of local culture and creation of jobs. While design interventions in the Master Plan focus on elements along the main stem within and immediately adjacent to the river right-of-way,¹ the Master Plan's vision, goals, actions, and methods require an understanding of, and coordination with, parallel efforts such as the Upper River and Tributaries Working Group (AB466), the Lower LA River Working Group, Metro, the Regional Water Quality Control Board, and watershed management plans. Additionally, coordination between LA County, municipalities, other governmental entities, and non-profit organizations will be necessary to achieve the robust vision and goals of this Master Plan. The Reimagined LA River relies on these collective efforts to envision the future of the LA River, its watershed, and all of LA County.

Organization of the Master Plan Document

The 2020 LA River Master Plan is organized based on a series of goals, actions, and methods. Each goal represents an active future priority for the LA River. These goals, which include many principles from previous or parallel planning efforts, guide policy and project development throughout the Master Plan.

¹ The LA River Right-of-Way is within the operations and maintenance jurisdiction of Los Angeles County Public Works (Flood Control District) and the United States Army Corps of Engineers (USACE).

4 APRIL 2019

Within each goal, a series of actions describes steps that should be taken to achieve the goal. Actions include a series of tangible methods that describe specific ways to reach the goals. In many cases, actions are related to specific LA County Departments and their missions. The realization of the goals will require collaboration between many LA County departments.

Role of the County and Coordination

Similar to the 1996 LA River Master Plan, the 2020 Plan will be used to guide all departments of LA County in decision making for LA River projects and facilities owned, operated, funded, and/or maintained by the County. Other agencies and municipalities are encouraged to adopt the LA River Master Plan for their jurisdictions and communities and partner with LA County in making the Reimagined River a reality.

4 APRIL 2019

Working Table of Contents

FRONT MATTER

Table of Contents, Acknowledgements, Letter of adoption/resolution

SECTION I: INTRODUCTION

(Chapter 1) Executive Summary

How to Use This Document, Vision and Goals (Introduction), Planning Timeline

(Chapter 2) Master Plan 2020

1996 Plan Info/Summary

Literature Review and Planning Context

Players and Jurisdictions

Water, People, and Environment Themes

Process

SECTION II: CONTEXT

(Chapter 3) History of the River

(Chapter 4) Existing Conditions Summary

River Ruler System

Inventory and Analysis

(Chapter 5) Engagement Summary

(Chapter 6) Gaps: Needs and Opportunities

SECTION III: THE FUTURE OF THE LA RIVER

(Chapter 7) Goals

(Chapter 8) Design Framework

Programmatic Strategy, Kit of Parts, Deployment

SECTION IV: IMPLEMENTATION

(Chapter 9) Public Stewardship

(Chapter 10) System Management

(Chapter 11) Operations and Maintenance

(Chapter 12) Funding Sources

(Chapter 13) Implementation and Funding Matrix

BACKMATTER

Glossary

APPENDICES (SEPARATE DOCUMENTS)

VOLUME I: LA RIVER DESIGN GUIDELINES

VOLUME II: TECHNICAL BACKUP DOCUMENTS

4 APRIL 2019

1. Goal: Reduce flood risk and improve resiliency.

1.1. Reduce flows into the river.

- 1.1.1. Ensure all development within the watershed incorporates low impact development techniques.
- 1.1.2. Evaluate regional scale upstream flood detention basins.
- 1.1.3. Coordinate with Watershed Management Programs/Enhanced Watershed Management Programs (E/WMPs) and other watershed management efforts to expand stormwater conservation for groundwater recharge, increase distributed stormwater capture, and reduce effective imperviousness in the watershed.
- 1.1.4. Manage dry-weather flows to discourage the growth of non-native vegetation.

1.2. Increase capacity of the river in high risk areas and provide flood risk management to at least the 100-year flood event.

- 1.2.1. Prioritize natural features and processes for flood risk reduction.
- 1.2.2. Purchase or otherwise reclaim land along the channel and immediately adjacent floodplain areas.
- 1.2.3. Widen and deepen the channel or raise levees.
- 1.2.4. Build bypass channels and tunnels.
- 1.2.5. Manage sediment in the river channel and before it accumulates in the river channel.
- 1.2.6. Manage vegetation and remove invasive plants.

1.3. Include climate change research in the planning process for new projects along the river.

- 1.3.1. Conduct inter-institutional study on climate change impacts in the LA Basin and how they impact hydrology.
- 1.3.2. Apply latest accepted climate change prediction models in flood risk reduction planning.

1.4. Improve and refine emergency preparedness.

- 1.4.1. Increase awareness of the hazards associated with high flows in the river.
- 1.4.2. Develop appropriate Emergency Action Plans (EAPs) that cover specific areas of the river where needed, including the dams and levees along the mainstem and the tributaries.
- 1.4.3. Conduct emergency preparedness exercises that test the EAPs.
- 1.4.4. Improve flood forecasting capabilities.
- 1.4.5. Refine warning and monitoring criteria for the river corridor.
- 1.4.6. Develop appropriate warning systems such as sirens, lights, or geo-targeted text message alerts to inform users of impending rain or rising water.
- 1.4.7. Develop flood-specific evacuation plans.
- 1.4.8. Consider and plan for evacuation of special needs populations.
- 1.4.9. Evaluate critical infrastructure and facilities located in the floodplain and reduce vulnerability to flood hazards.
- 1.4.10. Review and revise policies regarding closing the river trail during storms.

1.5. Increase public awareness of flood hazards and river safety.

4 APRIL 2019

- 1.5.1. Develop a website to assist in educating other agencies, cities, and the general public on river issues (including flood risk management and dangers posed by the river during floods).
- 1.5.2. Post consistent signage and communication about flood risk and river safety on bridges and access points.
- 1.5.3. Develop and implement an educational program on flood and river safety.
- 1.5.4. Encourage residents and businesses to consider purchasing flood insurance.

1.6. *Improve facility operations and maintenance.*

- 1.6.1. Expand coordination between responsible agencies and consolidate responsibilities under the Flood Control District through divestiture to streamline O&M, facility management, funding, and permitting.
- 1.6.2. Review and update operations and maintenance protocols and best practices
- 1.6.3. Implement new technologies such as real-time monitoring, reporting, and controls.
- 1.6.4. Implement dam and levee safety programs that ensure the flood management infrastructure delivers their intended benefits while reducing risks to people, property and the environment through continuous assessment, communication and management.

1.7. *Implement regionally consistent floodplain management practices.*

- 1.7.1. Establish partnerships among the various levels of government to develop minimum floodplain regulatory requirements.
- 1.7.2. Update and improve the LA River hydrology.
- 1.7.3. Update and improve flood inundation mapping.
- 1.7.4. Manage floodplain development according to the National Flood Insurance Program.
- 1.7.5. Encourage only flood resilient projects in the floodplain.
- 1.7.6. Encourage buy back of areas within the floodplain.

4 APRIL 2019

2. Goal: Provide equitable, inclusive, and safe parks, open space, and trails.

2.1. Create 51 miles of connected open space.

- 2.1.1. Create a park setting along the entire river utilizing this plan's design guidelines.
- 2.1.2. Utilize river channel right-of-way and adjacent areas to increase park space.
- 2.1.3. Promote the river as a greenway spine of the larger LA County regional parks, multi-use trails, habitat, and open space network.
- 2.1.4. Use river areas to assist in ensuring all LA County residents live within a ½ mile of a park.
- 2.1.5. Create two new regional parks south of Downtown LA and one new regional park west of Sepulveda Basin, while continuing the development of large regional parks currently underway.
- 2.1.6. Provide amenities and experiences in existing and new park spaces that are not currently available at nearby parks and increase unique programming along the river corridor.
- 2.1.7. Preserve and create viewsheds along the river, between adjacent neighborhoods and the river, and from bridges over the river.
- 2.1.8. Secure ongoing and long-term funding for land acquisition, construction, and maintenance of additional recreational facilities.
- 2.1.9. Increase recreation uses within the corridor where compatible with ecological function.

2.2. Complete the LA River Trail so that there is a continuous bicycle and pedestrian route along the entire river, on both sides.

- 2.2.1. In places where right of way is too narrow for a river trail, pursue easements on adjacent property to complete the trail or utilize bridges, platforms, or cantilevers.
- 2.2.2. Increase the extent of multi-use trails parallel to the river with separate paths for active transport, pedestrians, and equestrians in areas of high traffic.
- 2.2.3. Provide bicycle parking and encourage bicycle rental facilities along the river.
- 2.2.4. Develop signage and curriculum that promotes the benefits of using the river trail for recreation and improved health.

2.3. Provide support facilities at a regular cadence along the length of the river, on both sides.

- 2.3.1. Ensure there is a shaded place to rest every half mile, on average, along the river.
- 2.3.2. Ensure there is access to a public restroom every mile, on average, along the river.
- 2.3.3. Ensure there is wayfinding information at river access points and every half mile, on average, along the river.
- 2.3.4. Supplement County facilities and services with concessionaire agreements for food, convenience item sales, recreation equipment rentals, recreation instruction, and guided tours.

2.4. Utilize unified design guidelines for adjacent parks and river amenities that are flexible enough to reflect the diversity of local communities.

- 2.4.1. Encourage local jurisdictions to adopt this plan's design guidelines.
- 2.4.2. Require this plan's guidelines be followed for all projects permitted by the County, constructed on County property, or funded by the County.

2.5. Encourage compatibility of the river and adjacent land uses.

4 APRIL 2019

- 2.5.1. Encourage the entire river channel and corridor to be zoned as open space.
- 2.5.2. Encourage the re-zoning of incompatible land uses adjacent to the river, where feasible.
- 2.5.3. Develop buffering strategies to mitigate air quality impacts of incompatible uses that are expected to remain adjacent to the river.
- 2.5.4. Use County and local development and zoning review processes to ensure compatibility and, where feasible, add new river-adjacent amenities.

2.6. Repurpose single-use spaces, such as power-line easements, rail rights-of-way, or flood infrastructure, to serve multiple functions such as multi-use trails or habitat.

- 2.6.1. Develop master agreements with utilities for easements to maximize use of ground space under overhead or above buried utility lines for parks, open space, and trails.
- 2.6.2. Discuss options to create multi-use space with private rail companies.
- 2.6.3. Foster opportunities for urban farming to encourage access to local healthy foods.

2.7. Promote life safety along the river.

- 2.7.1. Improve safety signage, including what to do in an emergency.
- 2.7.2. Utilize this plan's consistent 51-mile marker system (0 at Long Beach, 51 at Canoga Park) to assist response teams in locating emergencies along the river.
- 2.7.3. Ensure anchor points for swift water rescue teams.
- 2.7.4. Remove hazards and dangerous objects from the river corridor.

2.8. Promote public safety along the river.

- 2.8.1. Coordinate with the River Rangers program.
- 2.8.2. Ensure adequate and consistent lighting along the river trail that complies with guidelines to reduce light pollution.
- 2.8.3. Ensure emergency phones are located along the river trail.
- 2.8.4. Utilize CPTED (Crime Prevention Through Environmental Design) principles in projects.
- 2.8.5. Encourage adjacent neighborhood watch groups to include the river in their area of influence.
- 2.8.6. Consider the use of video monitoring systems in isolated locations.

4 APRIL 2019

3. Goal: Support healthy, connected ecosystems.

3.1. Increase ecosystem function along the river corridor.

- 3.1.1. Prioritize projects that include improvements to ecosystem function.

3.2. Increase plant species biodiversity and focus on the use of local California native plants in and around the river corridor.

- 3.2.1. Develop reach specific plant species guidelines related to ecological zones along the river with keystone species to create desirable ecosystems.
- 3.2.2. Consider long-term trends, such as population growth, climate change, future water regimes, resiliency, and sustainability, to create adaptive and dynamic biodiversity plans that are resilient to the urban context.
- 3.2.3. Incentivize the creation of nurseries along the river that can supply native plants for new, large river parks.
- 3.2.4. Develop plant palettes that make the river a planned reserve for plant biodiversity as climate changes.
- 3.2.5. Actively manage and remove invasive species from the river corridor and adjacent areas.

3.3. Create a connective network of habitat patches and corridors to facilitate the movement of wildlife and support a diverse ecological community.

- 3.3.1. Identify and utilize key sections of the river corridor itself to increase habitat areas.
- 3.3.2. Create habitat “stepping stone” patches in areas that are densely developed and do not have existing significant ecosystem functions.
- 3.3.3. Promote the creation of linkages between upland and riparian ecosystems.
- 3.3.4. Promote the creation of vegetated buffers at the edges of existing significant habitat areas as well as between habitat areas and vehicular areas.
- 3.3.5. Protect and enhance existing desirable ecosystems.
- 3.3.6. Support, in parallel with regional efforts, a reach specific regime for low flows in the river that contributes to ecological function.
- 3.3.7. Plant a continuous greenway of trees for increased cooling, forage, and roosting and nesting habitat.

3.4. Encourage cities along the river to adopt sustainability strategies.

- 3.4.1. Provide technical assistance to cities seeking to develop or improve sustainability or climate plans.
- 3.4.2. Encourage cities to require LEED certification, ENVISION, or comparable standards, for public projects.

3.5. Use environmentally responsible practices for operations and maintenance of the river channel and adjacent lands.

- 3.5.1. Train maintenance staff to work with native ecosystems.
- 3.5.2. Ensure pest management and vector control is incorporated early during project development and coordinated with the Greater LA County Vector Control District.
- 3.5.3. Adopt Integrated Pest Management (IPM).
- 3.5.4. Limit pollution through the use of zero emission maintenance equipment.
- 3.5.5. Support the development of soil systems that can improve soil moisture retention and plant health.
- 3.5.6. Support water conservation strategies within the channel to balance water supply needs between municipalities, ecosystems, and recreation.

3.6. Use the river corridor as a living laboratory.

4 APRIL 2019

- 3.6.1. Use pilot projects to promote innovation, such as methods for localized air pollution mitigation, renewable power generation, natural solutions to water quality and runoff attenuation, increasing plant biodiversity, monitoring native plants and wildlife, and the production of sustainable local resources.
- 3.6.2. Establish an annual awards program to recognize exemplary projects along the LA River.

DRAFT

4 APRIL 2019

4. Enhance opportunities for equitable access to the river corridor.

4.1. *Create welcoming access points and gateways to the LA River Trail to optimize physical access along its length, on both sides.*

- 4.1.1. Make the river trail and access points universally accessible and inclusive.
- 4.1.2. Prioritize access projects for areas with limited access or areas that need improvements to existing access points.
- 4.1.3. Prioritize access projects near schools, libraries, and parks.

4.2. *Increase safe transportation routes to the river.*

- 4.2.1. Provide pedestrian and bicycle connections across the river every half-mile.
- 4.2.2. Require all new pedestrian or road bridges over the river to provide pedestrian and bicycle access to the river trail.
- 4.2.3. Provide continuous pathways between the river and nearby recreation spaces.
- 4.2.4. Encourage cities to adopt complete streets policies to better connect neighborhoods to the river.
- 4.2.5. Increase the extent of multi-use trails that connect to the river with separate paths for active transport, pedestrians, and equestrians.
- 4.2.6. Coordinate with transportation planning to enhance public transit to and along the river.
- 4.2.7. Coordinate with transportation planning to encourage all transit lines that cross the river to have stops that provide access to the river trail.
- 4.2.8. Promote the use of public transportation to connect to the river trail.
- 4.2.9. Develop informational materials and signage that highlight the river as an alternative to other modes of transportation to major job centers and destinations.

4 APRIL 2019

5. Goal: Embrace local arts and culture.

5.1. *Develop a comprehensive 51-mile arts and culture corridor along the river.*

- 5.1.1. Encourage incubation of local talent through commissions for local artists.
- 5.1.2. Secure reliable funding for art and cultural projects along the river.

5.2. *Integrate artists, cultural organizations, and community members in planning processes and project development along the river.*

- 5.2.1. Create a framework for ongoing arts and cultural asset mapping with research developed over a one year period to identify preliminary resources and opportunities along the 51 miles of the LA River.
- 5.2.2. Share, monitor, and cultivate the asset mapping on an interactive platform on the LA Department of Arts and Culture website and help reaffirm and build the LA River community as a vital and growing County resource.
- 5.2.3. Use both quantitative and qualitative data wherever possible in planning arts and cultural activities along the river.

5.3. *Galvanize the LA River cultural identity.*

- 5.3.1. Create opportunities for cultural gatherings, art, and performance along the river.
- 5.3.2. Actively promote river spaces to local groups and communities as available for their use.
- 5.3.3. Streamline the permitting process for permanent art along the river.
- 5.3.4. Streamline the permitting process for holding events and performances along the river.

4 APRIL 2019

6. Goal: Address potential adverse impacts to housing affordability and people experiencing homelessness.

6.1. Create a forum for the coordination of housing and community stabilization strategies.

- 6.1.1. To ensure oversight and implementation of housing and community stabilization strategies, establish an LA River Housing Affordability Task Force that includes representatives from the County and river adjacent cities, as well as key community stakeholders.

6.2. Require a housing impact assessment be completed as part of the planning for all sizable river improvement projects

- 6.2.1. Develop an assessment tool to evaluate whether projects are likely to significantly impact housing affordability.
- 6.2.2. Prior to committing County resources to river projects require completion of a concise assessment of affordable housing needs and opportunities including:
- analysis of the potential impact of the proposed project on housing affordability and displacement.
 - summary of existing affordable housing programs and projects serving the community.
 - a 'community roadblock analysis' which identifies local barriers to approval of supportive housing in the surrounding community.
 - a list of specific sites which could be appropriate for development of supportive housing for persons experiencing homelessness.
 - an affordable and supportive housing strategy outline tailored to the local needs and opportunities.

6.3. Increase units of affordable housing within one mile of the river.

- 6.3.1. Encourage a mix of supportive housing, affordable rental, and affordable homeownership units in both new construction and preservation buildings.
- 6.3.2. Expand the LA County Community Development Commission's Home Ownership Program (HOP) to provide additional affordable homeownership opportunities in river adjacent communities.
- 6.3.3. Publicly report on the progress toward this goal annually through the LA River Housing Affordability Task Force.

6.4. Develop an affordable housing trust, land bank authority, or similar organization to strategically purchase land along the river and hold it for future development as affordable housing.

4 APRIL 2019

6.5. *Secure funding for affordable housing in parallel with funding for river projects.*

- 6.5.1. As new financing tools are created to fund river improvements, seek opportunities to set aside a portion of funding to support land acquisition and affordable housing whenever possible. While many infrastructure financing sources will not allow use for affordable housing, using a portion of river specific funding for housing, when possible, can leverage additional affordable housing financing and expand the amount of affordable housing built adjacent to the river.
- 6.5.2. Explore the use of Enhanced Infrastructure Financing Districts (EIFDs) or other tax increment financing mechanisms to fund affordable housing along the river.
- 6.5.3. Leverage existing housing subsidies to finance permanent supportive housing for people formerly experiencing homelessness on key sites adjacent to the river.
- 6.5.4. Require all residential projects with a commitment of County resources, such as funding or land, to set aside at least 25% of the units to be affordable to extremely low, very low, and low-income households.

6.6. *Help protect the affordability of existing stable neighborhoods through the promotion of community ownership of land.*

- 6.6.1. Create a 'start up' fund to provide modest grants to support the development of local community land trust organizations (including land trusts sponsored by existing community organizations).
- 6.6.2. Provide technical assistance grants to promote the creation of community land trusts.

6.7. *Support stronger tenant protection policies along the river.*

- 6.7.1. Develop resources and inform tenants living adjacent to river improvement projects about the availability of counseling services available through LA County Department of Consumer and Business Affairs.
- 6.7.2. Develop resources and provide technical assistance to encourage cities to adopt stronger tenant protection policies, including rent stabilization and just cause for evictions.

6.8. *Support persons experiencing homelessness along the river by coordinating outreach and by building new permanent supportive housing.*

- 6.8.1. Identify sites for permanent supportive housing within 1 mile of the river.
- 6.8.2. Coordinate and support existing efforts of the County's coordinated homeless outreach system and their work along the LA River.
- 6.8.3. Connect persons living in or near the river to the coordinated entry system for access to housing opportunities for which they are eligible.
- 6.8.4. Build on the platform provided through Measure H to support more local cities in developing proactive homeless support programs and policies.

4 APRIL 2019

7. Goal: Foster opportunities for continued community engagement, development, and education.

7.1. *Provide spaces for people of all ages and abilities to learn about the ecology, hydrology, engineering, and cultural and natural history of the river and its watershed.*

- 7.1.1. Install interpretive signage, cultural markers, interactive displays, or other media.
- 7.1.2. Create outdoor classroom spaces that can be used by schools.
- 7.1.3. Prioritize connectivity to the river from schools, cultural centers, and other education facilities.

7.2. *Develop educational materials for people of all ages to learn more about the history, present, and future of the river corridor and natural resource protection.*

- 7.2.1. Develop sample curriculums for teachers of students of different ages to use when bringing their classes to the river.
- 7.2.2. Develop self-guided educational tours.

7.3. *Engage populations indigenous to the region to celebrate and document the river's role in indigenous culture.*

7.4. *Promote the river as an economic asset to surrounding communities.*

- 7.4.1. Utilize local resources and workforce to design, build, operate, and maintain projects, art, and amenities along the river, where possible.
- 7.4.2. Work with homeless service providers to identify opportunities to train and match individuals experiencing homelessness with jobs or other vocation training.
- 7.4.3. Encourage local businesses and river-related groups to engage youth in internships related to the river.

7.5. *Improve the interface between the river corridor and adjacent communities.*

- 7.5.1. Visually enhance river boundaries.
- 7.5.2. Encourage river-adjacent development to orient its "front door" toward the river and public transportation.
- 7.5.3. Integrate cultural markers and signage.
- 7.5.4. Continue to solicit input from communities along the river throughout implementation of this plan and hold community meetings to update residents on the progress of plan implementation.
- 7.5.5. Require that County funded infrastructure and open space projects engage local residents and community stakeholders in planning.
- 7.5.6. Ensure the physical design of river improvements is consistent with the physical and social character and culture of each neighboring community.
- 7.5.7. Identify community vulnerabilities and associated impacts with regard to river improvement projects.
- 7.5.8. Develop a mitigation strategy for identified threats to community and resident stability, particularly forces of economic displacement.

4 APRIL 2019

8. Improve local water supply reliability.

8.1. Capture and treat stormwater and dry weather flows before reaching the river for groundwater recharge, direct use, or release for downstream beneficial uses.

- 8.1.1. Encourage water capture and direct use on public and private properties.
- 8.1.2. Provide incentives for private property owners to capture and treat stormwater on site.
- 8.1.3. Coordinate dry-weather flow efforts among jurisdictions and along the tributaries and other sub-watersheds.
- 8.1.4. Implement stormwater capture projects in the Upper Los Angeles River area.
- 8.1.5. Implement stormwater capture projects in the Lower Los Angeles River area.

8.2. Divert and treat stormwater and dry weather flows within the river for groundwater recharge, direct use as recycled water, and to supply water for parks and ecological areas.

- 8.2.1. Implement a direct diversion and treatment project for recharge in the Central Basin.
- 8.2.2. Implement a direct diversion and treatment project for use as recycled water.
- 8.2.3. Encourage direct diversions from the channel for use in river adjacent parks and ecological areas.

8.3. Employ and encourage efficient water use.

- 8.3.1. Conduct an inter-institutional study on climate change impacts to water supply planning in the LA Basin.
- 8.3.2. Apply the latest accepted climate change prediction models to water supply planning.
- 8.3.3. Encourage households and neighborhoods to adopt best practices in water management.
- 8.3.4. Provide incentives for new projects to utilize Waterwise methods.
- 8.3.5. Encourage water conservation, water use efficiency measures, and the use of recycled or on-site collected water for irrigation in new developments, retrofit projects, parks, and ecological areas.

4 APRIL 2019

9. Goal: Promote healthy, safe, clean water.

9.1. *Improve water quality and contribute to the attainment of water quality requirements.*

- 9.1.1. Establish an oversight committee to direct efforts following any new regional funding initiatives.
- 9.1.2. Follow prescriptive watershed planning.
- 9.1.3. Incentivize watershed project development, implementation, and operations and maintenance.
- 9.1.4. Establish procedures for a credit program to assist property owners.
- 9.1.5. Provide technical and/or financial support for:
 - feasibility studies;
 - water quality and regional resilience planning;
 - real property acquisition for project development;
 - pilot projects to test new technologies and/or methodologies focused on water quality, local water supply, and community investments;
 - retrofit programs.

9.2. *Coordinate with the Watershed Management Program/Enhanced Watershed Management Program (WMP/EWMP) Groups.*

- 9.2.1. Actively coordinate with the Upper Los Angeles River, Los Angeles River Upper Reach 2, and Lower Los Angeles River watershed management groups to develop regional and distributed projects and programs that contribute to meeting goals for regional water quality improvement.
- 9.2.2. Prioritize the removal of pollutants of concern according to timelines contained within the implementation plans.
- 9.2.3. Prioritize catchments where needs are greater than can be met with planned or developed projects.
- 9.2.4. Continue to implement and enforce regional policies for green streets, low impact development, and other watershed improvement initiatives.
- 9.2.5. Prioritize nature-based solutions to improve water quality.
- 9.2.6. Publicize water quality metrics and monitoring results.

Appendix F

Steering Committee Sign-in Sheets



Los Angeles River Master Plan Update
Steering Committee Meeting
April 10 2019 9 p.m. to 12 p.m.
Sign In for Members

LOCATION
Los Angeles County Public Works Headquarters
900 South Fremont Ave, Alhambra, CA 91803
Conference Room A-B

NAME OF AGENCY	PRIMARY MEMBER	INITIALS	OFFICIAL ALTERNATE	INITIALS	NOTES
City of Downey	Sean Ashton				
City of Long Beach	Lena Gonzalez		Cory Allen		
City of Los Angeles (Mayor's Office)	Michael Affeldt	MA	Katie Mika		
			Edward Belden		
City of Los Angeles Bureau of Engineering	Gary Lee Moore	J.W.	Deborah Weintraub		
			Katherine Doherty	KW	
City of Paramount Public Works	Adriana Figueroa				
City of South Gate	Arturo Cervantes		Gladis Deras	em	
Council for Watershed Health	Eileen Alduenda	EA	Yareli Sanchez		
East Yard Communities for Environmental Justice	mark! Lopez	ML	Alessandro Negrete	AN	
Friends of the LA River (FoLAR)	Marissa Christiansen		Stephen Mejia	SM	
From Lot to Spot	Viviana Franco		Enrique Huerta		
Heal the Bay	Shelley Luce	SL	Katherine Pease	KL	
			Amanda Wagner	AW	
LA-Mas	Mia Lehrer				
Long Beach Conservation Corps	Dan Knapp		Kayla Kelly-Slatten	KK	
Los Angeles Business Council	Mary Leslie		Devon Provo x	DP	Zachary STEWART
			Jacob Lipa x		
Los Angeles City/County Native American Indian Commission	Rudy Ortega				
Los Angeles County 1st District	Waqas Rehman		Guadalupe Duran-Medina	GRM	
			Martin Reyes		
Los Angeles County 2nd District	Karly Katona				
Los Angeles County 3rd District	Katy Young		Virdiana Velez	PV	
Los Angeles County 4th District	Jocelyn Rivera-Olivas				
Los Angeles County 5th District	Chris Perry		Susie Osuna		
Los Angeles County Bicycle Coalition	Jesi Harris		Lyndsey Nolan		
Los Angeles County Business Federation	Hilary Norton		Lori Garcia		
Los Angeles County Flood Control District	Keith Lilley		Carolina Hernandez	CH	



Los Angeles River Master Plan Update
Steering Committee Meeting
April 10 2019 9 p.m. to 12 p.m.
Sign In for Members

LOCATION
Los Angeles County Public Works Headquarters
900 South Fremont Ave, Alhambra, CA 91803
Conference Room A-B

NAME OF AGENCY	PRIMARY MEMBER	INITIALS	OFFICIAL ALTERNATE	INITIALS	NOTES
Los Angeles Department of Water and Power	Evelyn Cortez-Davis		Rafael Villegas Manuel Aguilar	RV	
Los Angeles Neighborhood Land Trust	Keshia Sexton		Beth Kent		
Los Angeles Waterkeeper	Bruce Reznick	BR	Melissa von Mayrhauser	MvM	
Metropolitan Transportation Authority			Sarah Schurtz		
Mujeres De La Tierra	Irma R. Muñoz		Paola Machan		
Pacoima Beautiful	Veronica Padilla-Campos	VP			
Public Counsel	Antonio Hicks	ATH			
Regional Water Quality Control Board	Deborah Smith		Renee Purdy		
Rivers and Mountains Conservancy	Mark Stanley		Joseph Gonzalez Marybeth Vergara	JB	
Santa Monica Mountains Conservancy	Joseph T. Edmiston		Brian Baldauf Melissa Vega Sarah Rascon	SR	
Sierra Club Long Beach Area	Gabrielle Weeks				
The Boethius Initiative UCLA Department of World Arts and Cultures	Peter Sellars		Julia Carnahan Catherine Gudis Andrew Martinez	CP	
The Nature Conservancy	Shona Ganguly	SH	Kelsey Jessup Jill Sourial		
The Trust for Public Land	Robin Mark			V	
Urban Waters Federal Partnership (National Park Service)	Justin Yee	JY	Anne Dove		
US Army Corps of Engineers	Eduardo DeMesa		Chris Solek		
US Department of Housing and Urban Development	Pauline K. Louie			PKL	
Water Replenishment District	Robb Whitaker		Kimberly Badescu	KB	