LOS ANGELES RIVER
MASTER PLAN UPDATE

Steering Committee Meeting #6

26 June 2019

WELCOME

Source: OLIN

MEETING PURPOSE AND AGENDA

Source: OLIN

PURPOSE OF TODAY'S MEETING

1. REVIEW ENGAGEMENT INPUT
2. REVIEW IMPLEMENTATION MATRIX
3. PRESENT UPDATED NEEDS ANALYSIS
4. REVIEW THE SITE SELECTION PROCESS
5. SHOW PROGRESS TOWARD DESIGN GUIDELINES

FEEDBACK / Q&A

MEETING AGENDA

WELCOME AND AGENDA OVERVIEW	COMMUNITY ENGAGEMENT UPDATE	IMPLEMENTATION MATRIX	NEEDS & OPPORTUNITIES	SITE SELECTION	DESIGN GUIDELINES	PUBLIC COMMENT	WRAP UP
• 1928 Aerial • Roundtable Introductions • Meeting Purpose, Agenda, and Objectives • Subcommittee Meetings Format • Discussion/Q&A	• Additional Meetings • Engagement Round 2 Update • Community Partner Events • Discussion/Q&A	• Updates • Breakout Groups • Report Back	• Review Needs Categories "Fact Sheet" • Review Needs Categories with Updates • Discussion/Q&A	• Update on Site Locations • Project Impact Methodology • Discussion/Q&A	• Table of Contents Review • Progress Update • Discussion/Q&A	• Verbal Comments • Comment Cards • Email Comments Anytime to LARiver@dpw.lacounty.gov	• Important Upcoming Dates • September Agenda Overview • Community Outreach Events

INPUT, QUESTIONS, IDEAS?

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

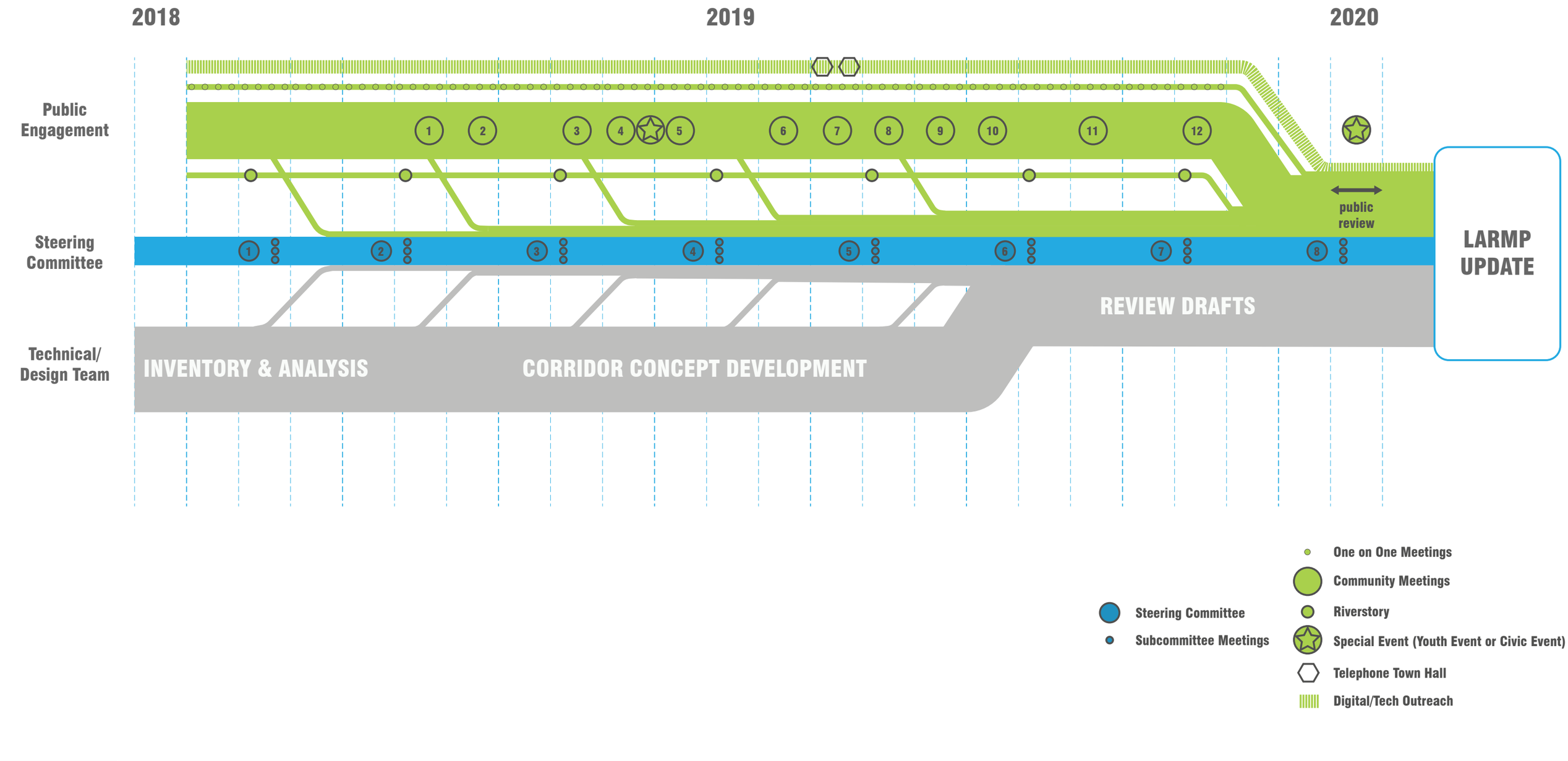
GUIDES FOR PRODUCTIVE DISCUSSIONS

- Everyone equally contributes.
- Stay concise.
- Listen for understanding.
- Help forge paths for solutions.

STEERING COMMITTEE UPDATES

Source: OLIN

LA RIVER MASTER PLAN SCHEDULE



STEERING COMMITTEE FRAMEWORK

WE ARE HERE

2018 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 Draft Planning Concepts Table of Contents Revised Goals, Actions, & Methods Introduction	Design Guidelines Goals, Actions, and Methods and Implementation Matrix Site Selection	Design Concepts and Design Guidelines Update	Preview of LARMP Key Concepts

Q & A AND DISCUSSION

Source: OLIN

COMMUNITY ENGAGEMENT UPDATE

Source: USACE, Los Angeles District, E-1517 - NW of 7th St - 9-7-1927, http://cespl.maps.arcgis.com/apps/MapSeries/index.html?appid=e15694dbf7c54f8c96285a0e74039e69

MEETINGS WITH OTHER ORGANIZATIONS

NATIVE AMERICAN INDIAN COMMISSION

April 23, 2019

- Discussion on how LARMP Update can engage with indigenous communities effectively and best support their needs

SPECIAL SESSION ON H+H FOR TAYLOR YARD

May 8, 2019

- Hydrology + Hydraulics session with Taylor Yard G2 River Park team

LA RIVER/TAYLOR YARD G2 COORDINATION

May 20, 2019

- Coordination meeting at Public Works with Taylor Yard G2 River Park team

GREEN LA WATER COMMITTEE

May 23, 2019

- LARMP update with brief summary of Hydrology + Hydraulics workshop and site selection

UPPER LA RIVER & TRIBUTARIES (AB466)

May 23, 2019

- Over 600 Opportunity Areas identified within vacant land, open space, public land, and under-utilized space
- Site prioritization consistent with Lower LA River Revitalization Plan (AB 530), scoring of objectives achieved by proposed building blocks
- All projects must include community engagement at all phases, not create a flood risk, be located within 1/2 mile of tributaries, and be suitable for an open space or water-related funding source

SE ASIAN COMMUNITY ALLIANCE (SEACA)

May 30, 2019

- Housing strategies discussion

COMMUNITY ENGAGEMENT MEETINGS

WE ARE HERE

ROUND 1

JUNE 2018 – DECEMBER 2018

1. Canoga Park
2. Cudahy
3. Long Beach
4. Friendship Auditorium
5. Studio City / North Hollywood

Survey 1

ROUND 2

FEBRUARY 2019 – JUNE 2019

6. West Valley
7. South Gate
8. Compton / Lynwood / East Rancho Dominguez
9. Pacoima
10. Glendale

Survey 2

ROUND 3

AUGUST - OCTOBER 2019

11. North Long Beach / Paramount
12. Boyle Heights

Survey 3

857 ENGAGED IN COMMUNITY MEETINGS & SURVEY

110 Community members attended the West Valley meeting

75 Community members attended the South Gate meeting

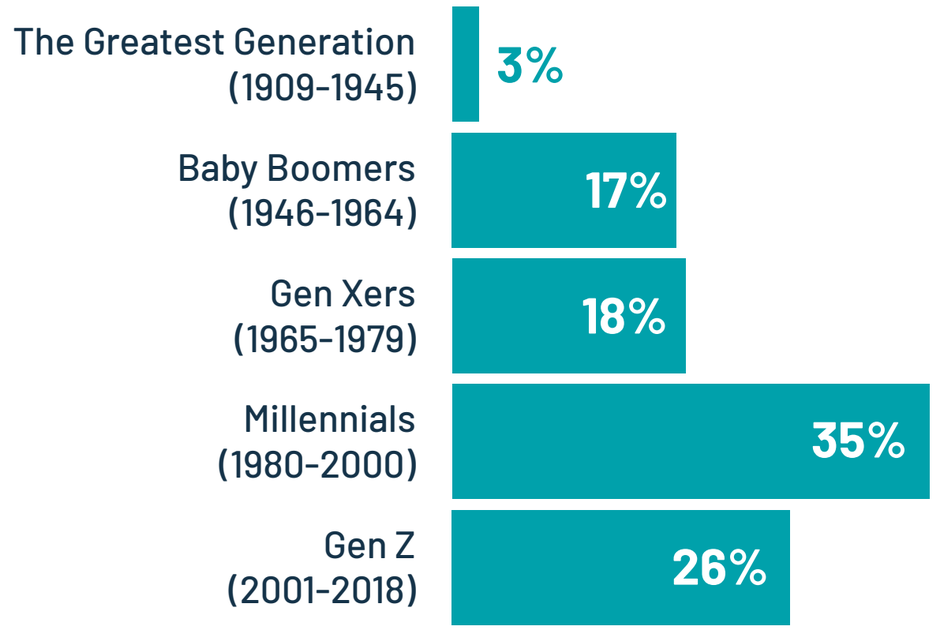
60 Community members attended the Compton / E Rancho Dominguez meeting

55 Community members attended the Pacoima meeting

80 Community members attended the Glendale meeting

557 Completed digital and in-person surveys as of June 19, 2019

GENERATIONS REPRESENTED:



Source: Community Meetings, Survey

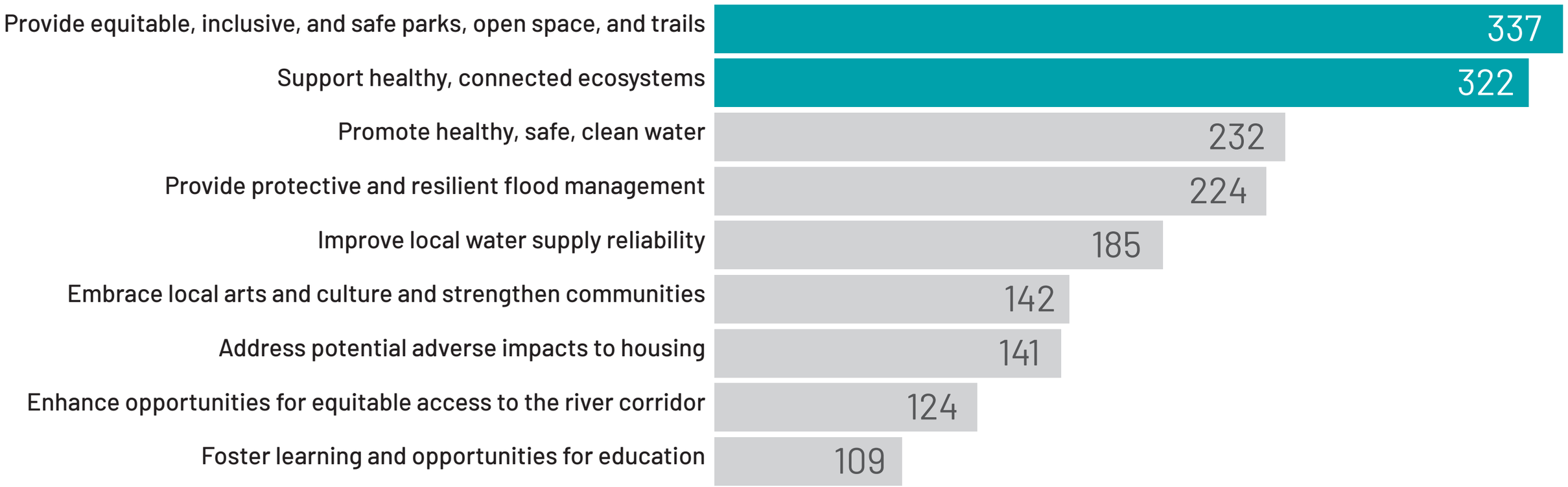
ENGAGEMENT UPDATE ROUND 2 (FEBRUARY-JULY)

WHERE DO YOU LIVE?

- West Valley Attendees
- South Gate Attendees
- Compton / E Rancho Dominguez Attendees
- Pacoima Attendees
- Glendale Attendees
- Digital Survey Respondents

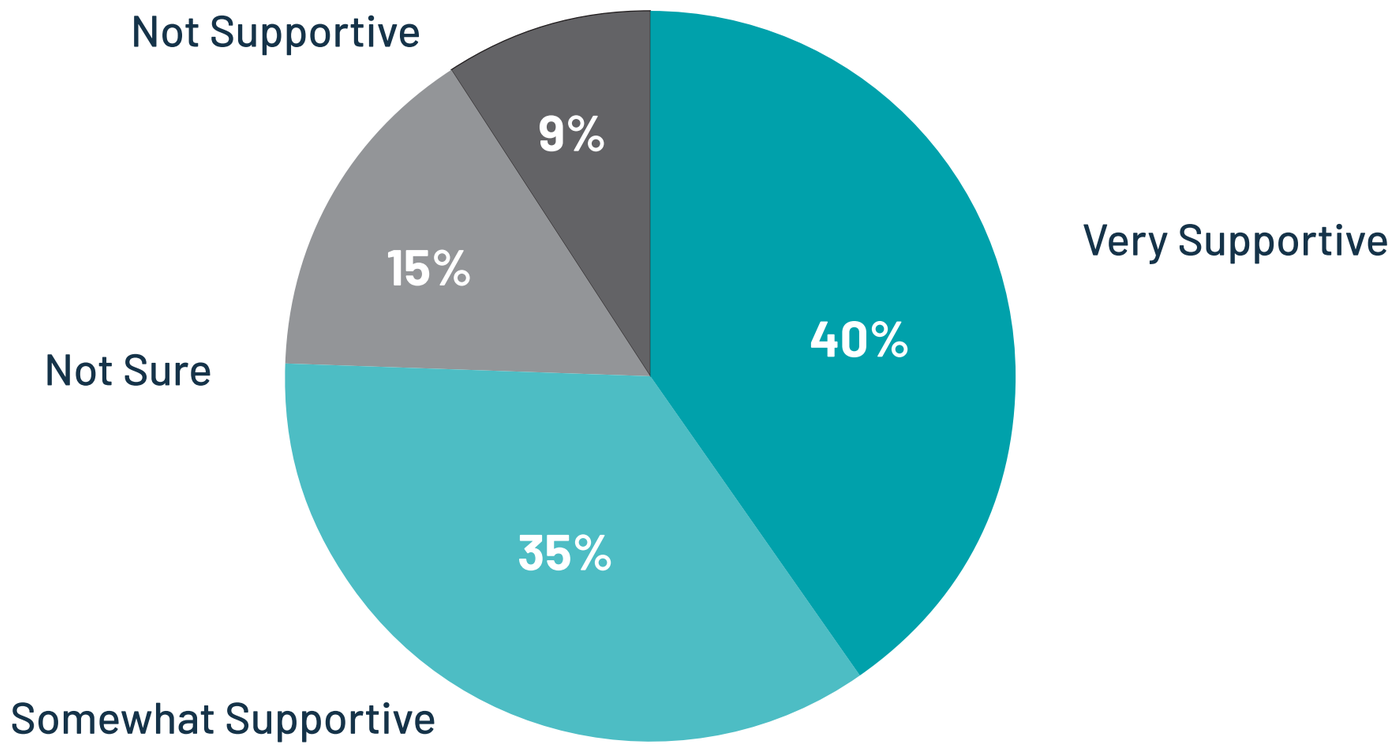
Source: Community Meetings, Survey

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



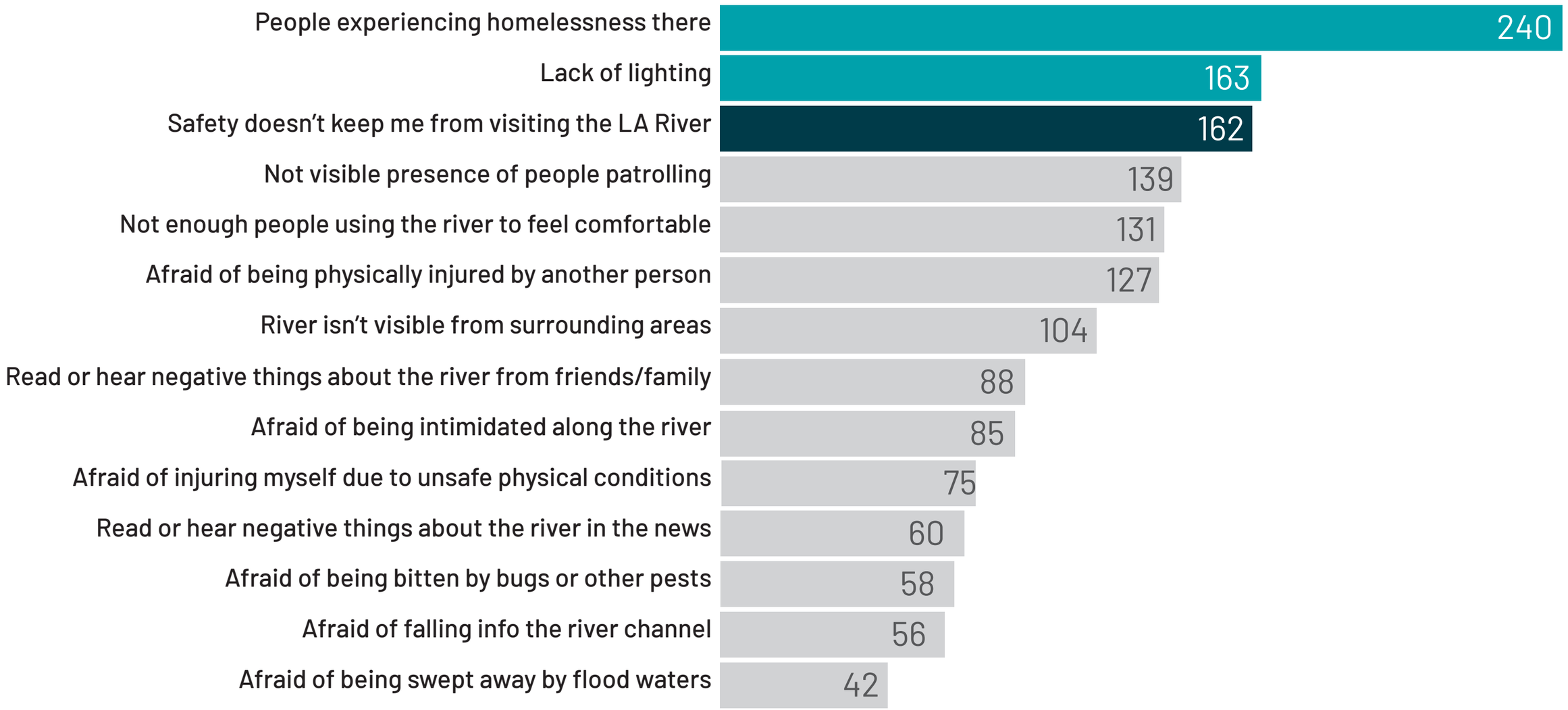
Source: Community Meetings, Survey

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?



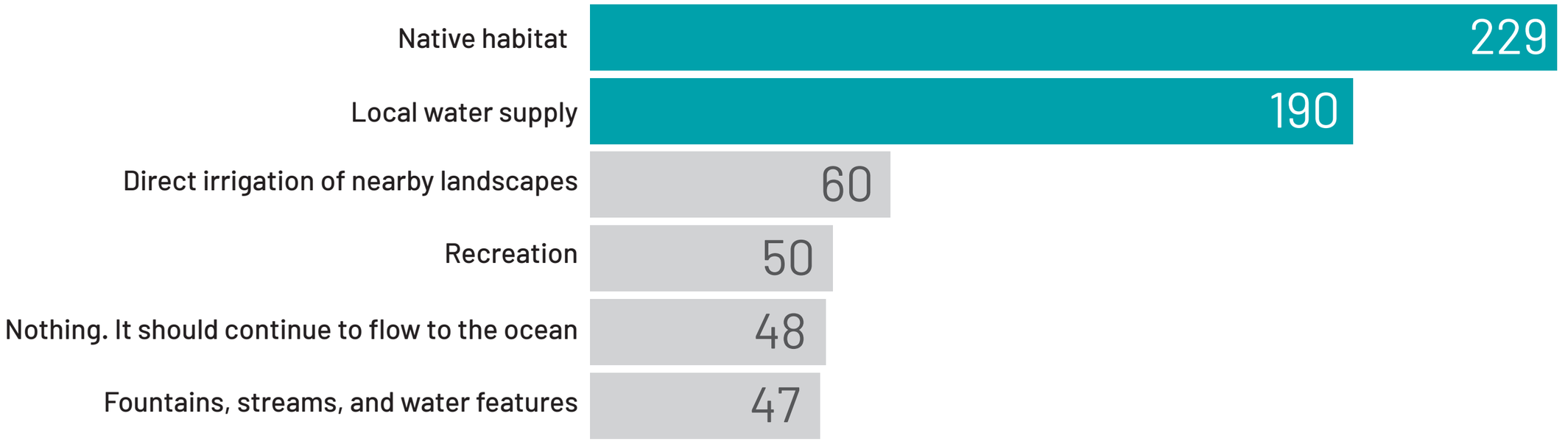
Source: Community Meetings, Survey

WHAT ABOUT SAFETY KEEPS YOU FROM VISITING THE LA RIVER?



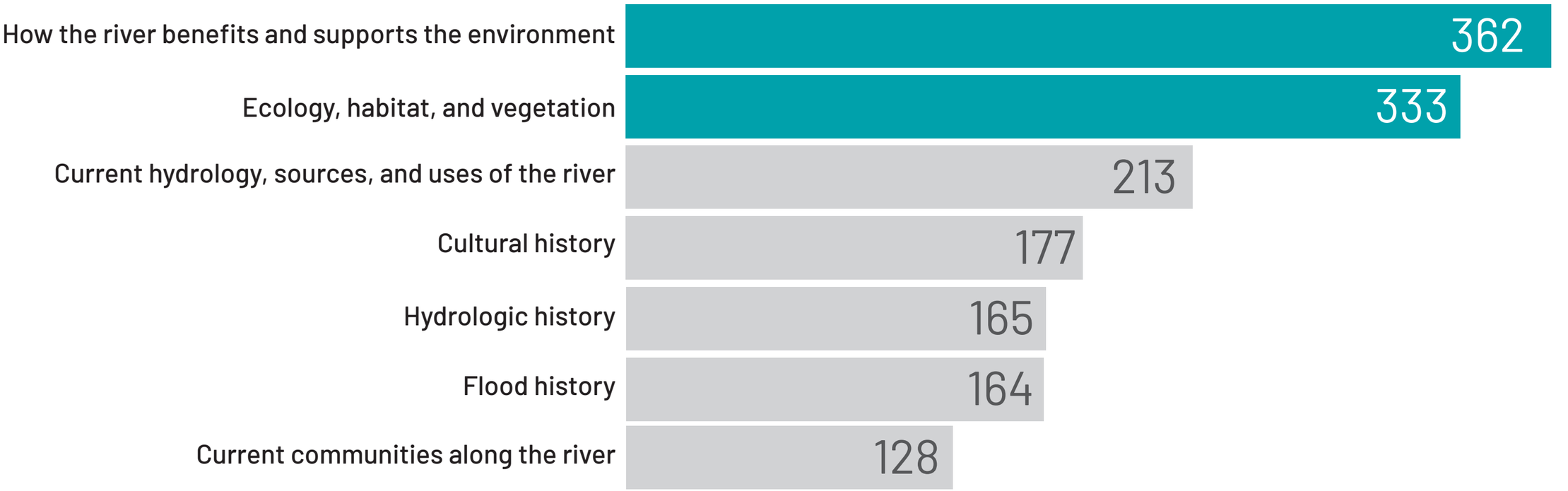
Source: Community Meetings, Survey

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

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

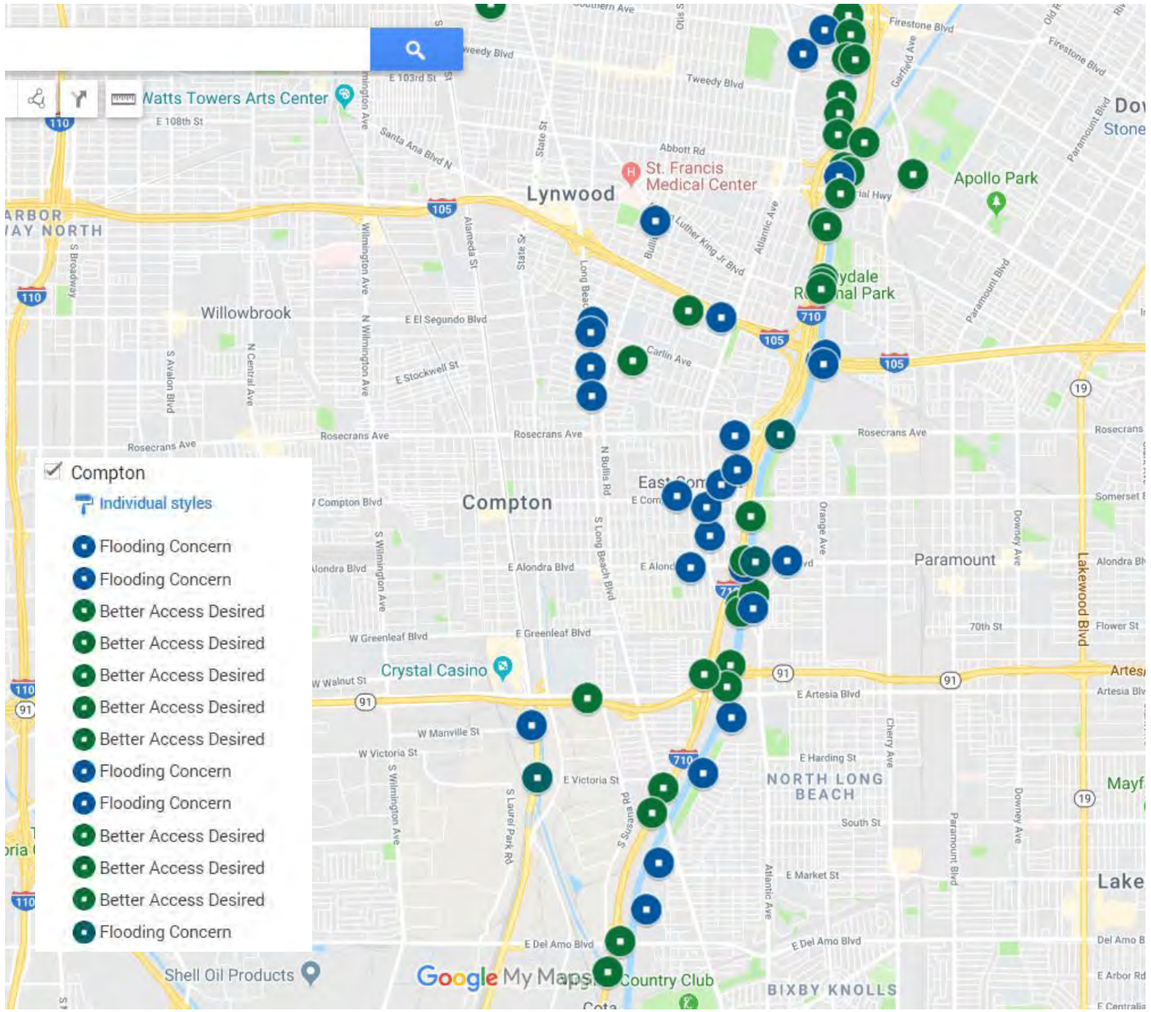


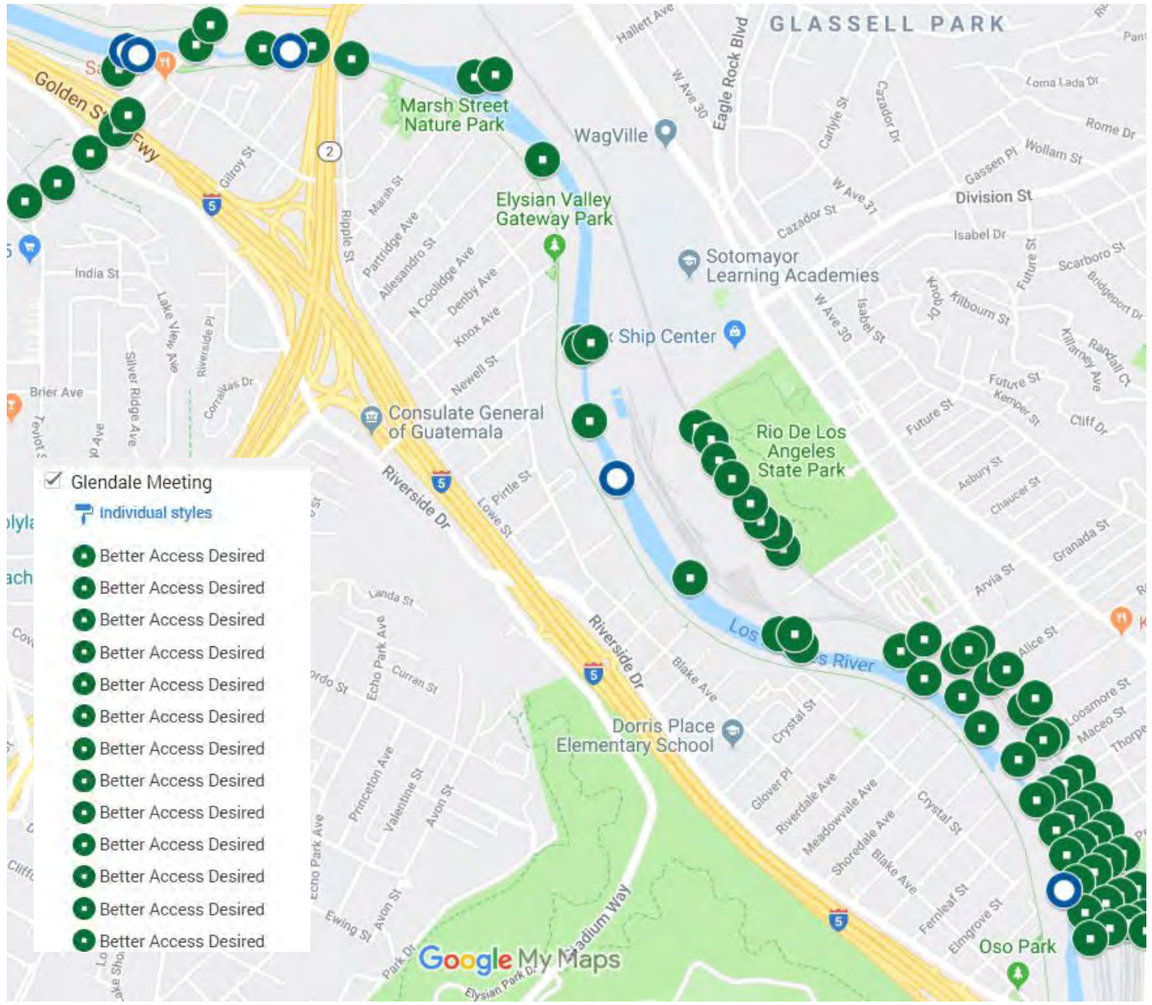
Source: Community Meetings, Survey

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

Source: Community Meetings, Survey

YOUR STRETCH OF THE RIVER





Source: Compton & Glendale Community Meeting responses

COMMUNITY PARTNER UPDATE

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

170 PARTICIPANTS AT NATIVE COMMUNITY DISCUSSION

Q & A AND DISCUSSION

Source: OLIN

IMPLEMENTATION MATRIX

Source: OLIN

WHAT'S IN THE PLAN

GOALS, ACTIONS, & METHODS

- **Goals, Actions, Methods**
- **Implementation Responsibility and Partners**
- **Funding Sources**

DESIGN FRAMEWORK

- **Needs Analysis**
- **Sites**
- **Kit of Parts** (possible intervention strategies)
- **System Recommendations**
- **Basic Corridor Examples**

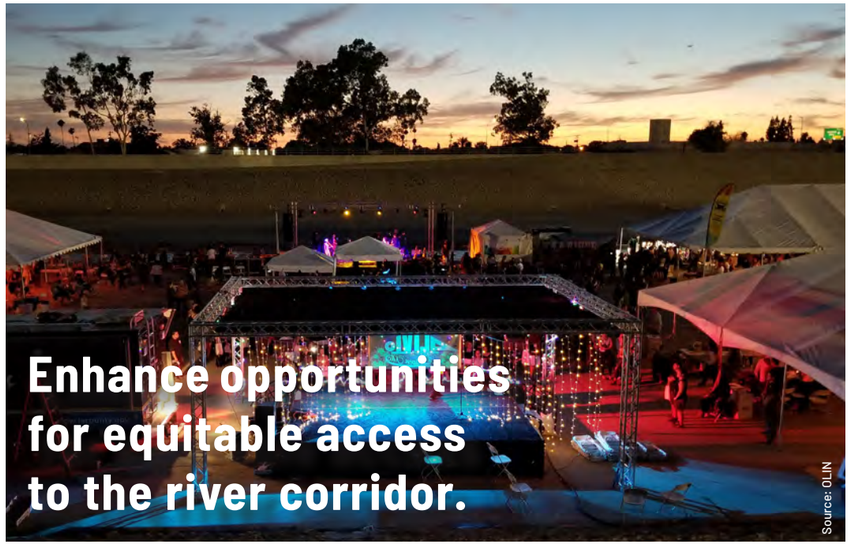
DESIGN GUIDELINES

- **Plant Species**
- **Soils Guidelines**
- **Trail Widths Requirements**
- **Signage Leading to Projects**


Reduce flood risk and improve resiliency.
Source: Flickr user Scott L. LETC7892. 2015. https://www.flickr.com/photos/41802226@N05/13904608860/


Provide equitable, inclusive, and safe parks, open space, and trails.
Source: The Source. And the existing segment from Griffith Park to DTLA just shy of its current terminus near the Riverside Drive bridge. http://s3-us-west-1.amazonaws.com/media.thesource.metro.net/wp-content/uploads/2017/11/06135450/5415743344_0615c388b1_o-1.jpg


Support healthy, connected ecosystems.
Source: KCET Departures, South L.A. – Willow Street. 2010. https://www.flickr.com/photos/kcetdepartures/5057066201/in/album-72157623141420776/

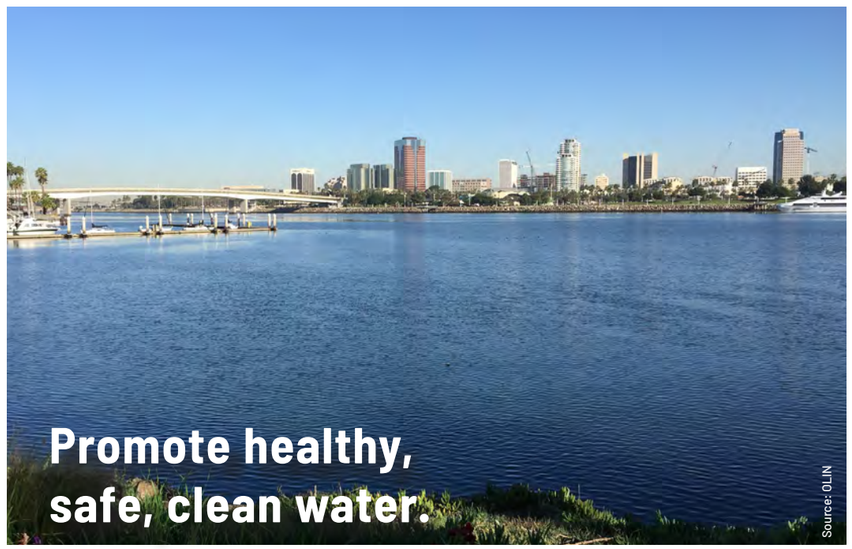

Enhance opportunities for equitable access to the river corridor.
Source: OLIN


Embrace and enhance opportunities for local arts and culture.
Source: Clockshop. The Bowtie Project. The LA River Campout. 2017. https://clockshop.org/wp-content/uploads/2017/12/LAriver-featured.jpg


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


Foster opportunities for continued community engagement, development, and education.
Source: Randall. R. Flickr User. https://www.flickr.com/photos/zeroy/2406885732/in/pool-lariver/


Improve local water supply reliability.
Source: OLIN


Promote healthy, safe, clean water.
Source: OLIN

GOAL: *ACTIVE PRIORITY FOR THE FUTURE*

POTENTIAL ACTIONS

- ***Movements toward the priority***

POTENTIAL METHODS

- *Specific implementation steps for each action*

2020 PLAN RECOMMENDATIONS

Goals (9)

- Actions
  - PARTIES RESPONSIBLE FOR IMPLEMENTATION
  - POTENTIAL IMPLEMENTATION PARTNERS
  - GEOGRAPHIC BOUNDARIES
  - ORDER-OF-MAGNITUDE COST
  - FUNDING SOURCES
- Methods

WHAT

WHO

WHERE

HOW

Frames (9)

- Projects

EXAMPLE OF GAM MATRIX

1. Reduce flood risk and improve resiliency.	WHAT	WHO		WHERE	HOW
Action/Methods	Related Actions/Methods	Lead Agency	Potential Partners	Geographic Boundaries	Potential Funding Sources
1.1. Reduce flows into the river. 1.1.1. Ensure development within the watershed incorporates low impact development techniques to increase infiltration and capture throughout the built watershed. 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 capture for groundwater recharge, increase distributed stormwater capture, and reduce effective imperviousness in the watershed, prioritizing nature-based solutions where possible. 1.1.4. Manage dry-weather flows to discourage the growth of invasive and non-native vegetation within the flood channel.	8.1., 9.3.4. 1.2.6., 3.2.5.	**PW/FCD**	**Municipalities, Entities with Stormwater Responsibilities (e.g., Caltrans, Metro, industrial facilities)**	**LA River Watershed**	
1.2. Increase capacity of the river in high risk areas and provide flood risk management to at least the one-percent ("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 to increase 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. 1.2.7. Retrofit infrastructure and other obstructions, such as bridges, to remove hydraulic constrictions.	9.3.5. 1.1.4., 3.2.5. 1.7.2, 8.4.1, 9.5.1, 9.5.2	**PW/FCD**	**USACE**	**LA River Corridor**	
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 and sea level rise. 1.3.2. Apply latest accepted climate change prediction models in flood risk reduction planning.	8.3.1. 8.3.2.	**PW/FCD**	**CSO, Academia**	**LA River Watershed**	

BREAKOUT GROUPS

1st ROUND

1. Flood
2. Parks
3. Housing

2nd ROUND

1. Ecosystem
2. Arts and Culture
3. Water Supply

3rd ROUND

1. Education / Engagement
2. Water Quality
3. Access

12 minutes for each round

- **Quick introductions** (1 minute)
- **Select someone to report back** (1 minute)
- **Discuss** (5 minutes per question):
  1. Are there additional actions or methods that should be considered to implement this goal?
  2. Do you have specific ideas on partnerships to implement the methods?

Q & A AND DISCUSSION

Source: OLIN

NEEDS & OPPORTUNITIES

Source: OLIN

INTRODUCTION TO NEEDS

Need is determined by assessing the relationship of certain assets to the LA River, and the method of assessment varies based on the type of dataset being used.

SCORE

Higher Score ▲ = ▲ Higher Need

Lower Score ▼ = ▲ Higher Need

DENSITY

Higher Density ▲ = ▲ Higher Need

Lower Density ▼ = ▲ Higher Need

PROXIMITY

Greater Proximity ▲ = ▲ Higher Need

Lesser Proximity ▼ = ▲ Higher Need

GOAL-BASED NEEDS CRITERIA

1. FLOOD RISK REDUCTION
- LA River Level of Channel Protection
- Floodplains
- Sea Level Rise
- Critical Infrastructure & Facility Density

2. PARKS
- Parks Needs Assessment
- CalEnviroScreen

3. ECOSYSTEMS
- Habitat Areas
- Habitat Areas Buffer
- Linkages and Confluences
- Unprotected Areas

4. ACCESS
- River Trail Access Points
- River Trail Gaps
- Adjacent Trail Gaps
- Health Composite
- Metro Stops, Parks, & Schools

5. ARTS & CULTURE
- Arts & Culture Asset Density
- Population Density
- Household Income

6. HOUSING AFFORDABILITY
- Displacement Index

7. ENGAGEMENT & EDUCATION
- Engagement Education Asset Density
- Population Density

8. WATER SUPPLY
- Habitat & Recreation Beneficial Uses
- Percent Groundwater Supply
- Groundwater Basins

9. WATER QUALITY
- EWMP/WMP Score
- Water Quality Priority

Higher Score = Higher Need
Lower Score = Higher Need

Higher Density = Higher Need
Lower Density = Higher Need

Greater Proximity = Higher Need
Lesser Proximity = Higher Need

NEEDS & OPPORTUNITIES

FLOOD RISK MANAGEMENT

LA River Level of Channel Protection[1] (40%)

River channel with protection below the 1% annual chance of exceedance have a higher need for flood risk reduction.

Floodplains[2] (40%)

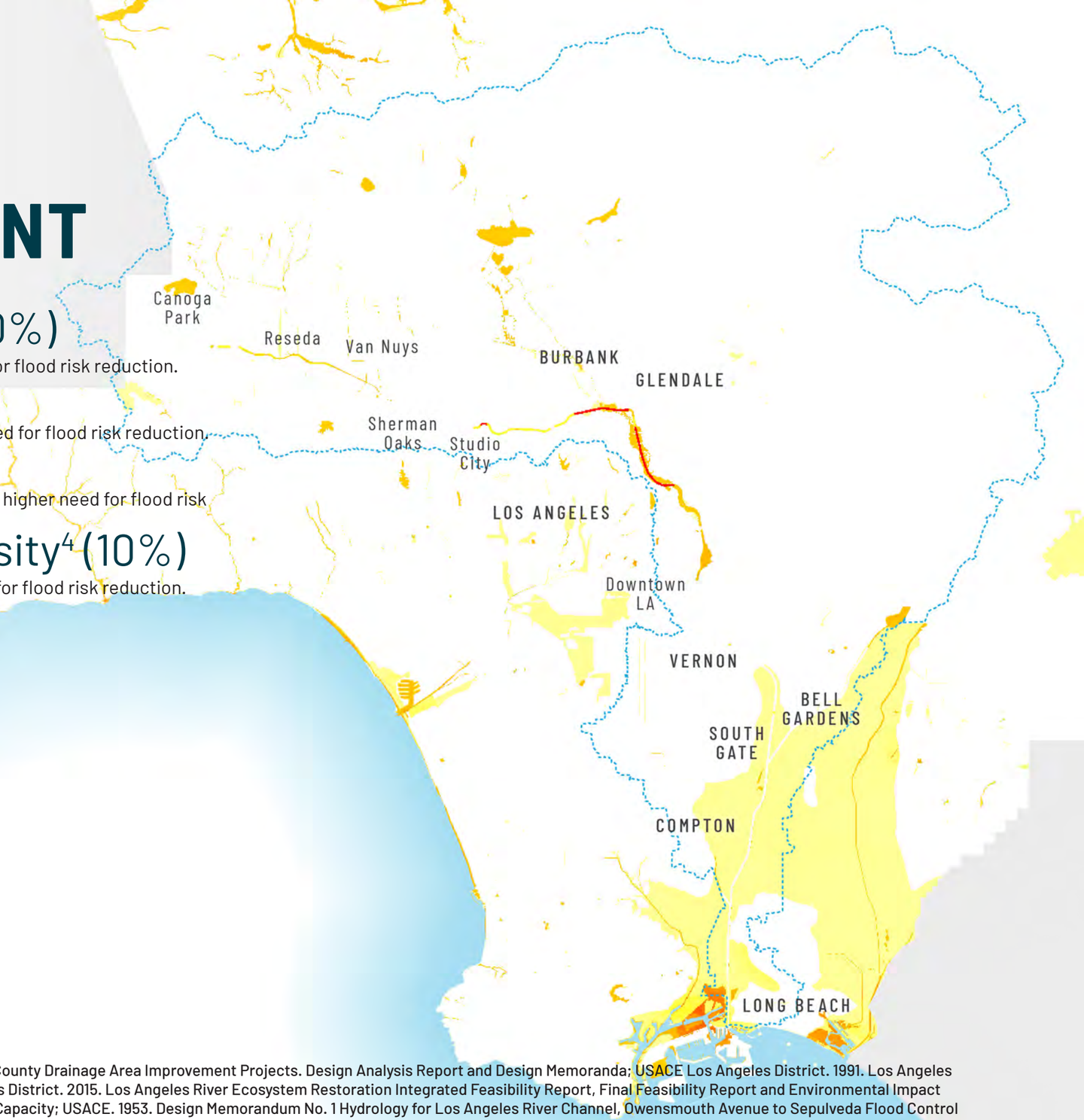
Where the river channel has a 1% or greater annual chance of exceedance, there is a higher need for flood risk reduction.

Sea Level Rise[3] (10%)

Areas subject to sea level rise, including approximately the lower 3 miles of the channel, have a higher need for flood risk reduction.

Critical Infrastructure and Facilities Density[4] (10%)

Floodplain areas with higher density of critical infrastructure and facilities have a higher need for flood risk reduction.



LA County Need Analysis:

High Need

Low Need

Footnotes:

1. U.S. Army Corps of Engineers (USACE) Los Angeles District. 1996a, 1996b, 1997a, 1997b, and 1999. Los Angeles County Drainage Area Improvement Projects. Design Analysis Report and Design Memoranda; USACE Los Angeles District. 1991. Los Angeles County Drainage Area (LACDA): Review, Part I Hydrology Technical Report: Base Conditions; USACE: Los Angeles District. 2015. 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; USACE. 1953. Design Memorandum No. 1 Hydrology for Los Angeles River Channel, Owensmouth Avenue to Sepulveda Flood Control Basin; Geosyntec analysis using HEC-RAS models (USACE Los Angeles District. 2005. Los Angeles County Drainage Area Upper Los Angeles River and Tujunga Wash HEC-RAS Hydraulic Models).
2. USACE Floodplain Management Services Special Study Los Angeles River Floodplain Analysis, October 2016; Los Angeles County GIS Data Portal, Flood Zones.
3. Sea Level Rise Tool, 1.41 meters Sea Level Rise Scenario, 2018. http://keystone.gisc.berkeley.edu/cec_gas_study_layers/South_coast
4. Los Angeles County GIS Data Portal, Points of Interest, 2016 & 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.

Source: Geosyntec, OLIN

FLOOD RISK MANAGEMENT

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Floodplains[2] (40%)

Where the river channel has a 1% or greater annual chance of exceedance, there is a higher need for flood risk reduction.

Sea Level Rise[3] (10%)

Areas subject to sea level rise, including approximately the lower 3 miles of the channel, have a higher need for flood risk reduction.

Critical Infrastructure and Facilities Density[4] (10%)

Floodplain areas with higher density of critical infrastructure and facilities have a higher need for flood risk reduction.

LA County Need Analysis:

High Need

Low Need

1-mile buffer

5 mi.

N

Footnotes:

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Source: Geosyntec, OLIN

FLOOD RISK MANAGEMENT

Need Analysis:

High Need

Low Need

Flood Risk Management Need	=	LA River Level of Channel Protection[1] 40%	+	Floodplains[2] 40%	+	Sea Level Rise[3] 10%	+	Critical Infrastructure and Facility Density[4] 10%
								
Criteria Type:		LARMP Composite Metric		Existing Data		Existing Data		LARMP Composite Metric
Description:		Where the river channel has a 1% or greater annual chance of exceedance, there is a higher need for flood risk reduction.		Areas within the 1% floodplain have a higher need for flood risk reduction. Areas within the 0.2% annual chance of exceedance floodplain may also have a need for flood risk reduction.		Areas subject to sea level rise, including approximately the lower 3 miles of the channel, have a higher need for flood risk reduction.		Floodplain areas with higher density of critical infrastructure and facilities have a higher need for flood risk reduction.
Assessment:		High Need = 10% or worse protection Low Need = worse than 1% protection No Need = 1% or better protection, or non-channelized areas		High Need = 1% floodplain Low Need = 0.2% floodplain No Need = area not in a floodplain		High Need = maximum inundation Low Need = minimum inundation No Need = not within 1.41 m of sea level rise		High Need = high density Low Need = low density No Need = area not in a floodplain

Footnotes:

1. U.S. Army Corps of Engineers (USACE) Los Angeles District. 1996a, 1996b, 1997a, 1997b, and 1999. Los Angeles County Drainage Area Improvement Projects. Design Analysis Report and Design Memoranda; USACE Los Angeles District. 1991. Los Angeles County Drainage Area (LACDA): Review, Part I Hydrology Technical Report: Base Conditions; USACE: Los Angeles District. 2015. 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; USACE. 1953. Design Memorandum No. 1 Hydrology for Los Angeles River Channel, Owensmouth Avenue to Sepulveda Flood Control Basin; Geosyntec analysis using HEC-RAS models (USACE Los Angeles District. 2005. Los Angeles County Drainage Area Upper Los Angeles River and Tujunga Wash HEC-RAS Hydraulic Models).
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Source: Geosyntec, OLIN

ECOSYSTEMS

Habitat Areas[1] (50%)

CALVEG Regional Dominance types were used to classify existing areas as predominantly urban/ barren (lowest need), invasive vegetation (medium need), or native/natural habitat areas (high need).

Habitat Areas Buffer[2] (20%)

Areas closest to existing protected habitat areas that could help further buffer core protected habitat areas received a higher need designation.

Linkages and Confluences[3] (15%)

Missing linkages are areas without connectivity, but based on location are critical. Tributaries and confluences can also provide connectivity. Areas near linkages received a higher need designation.

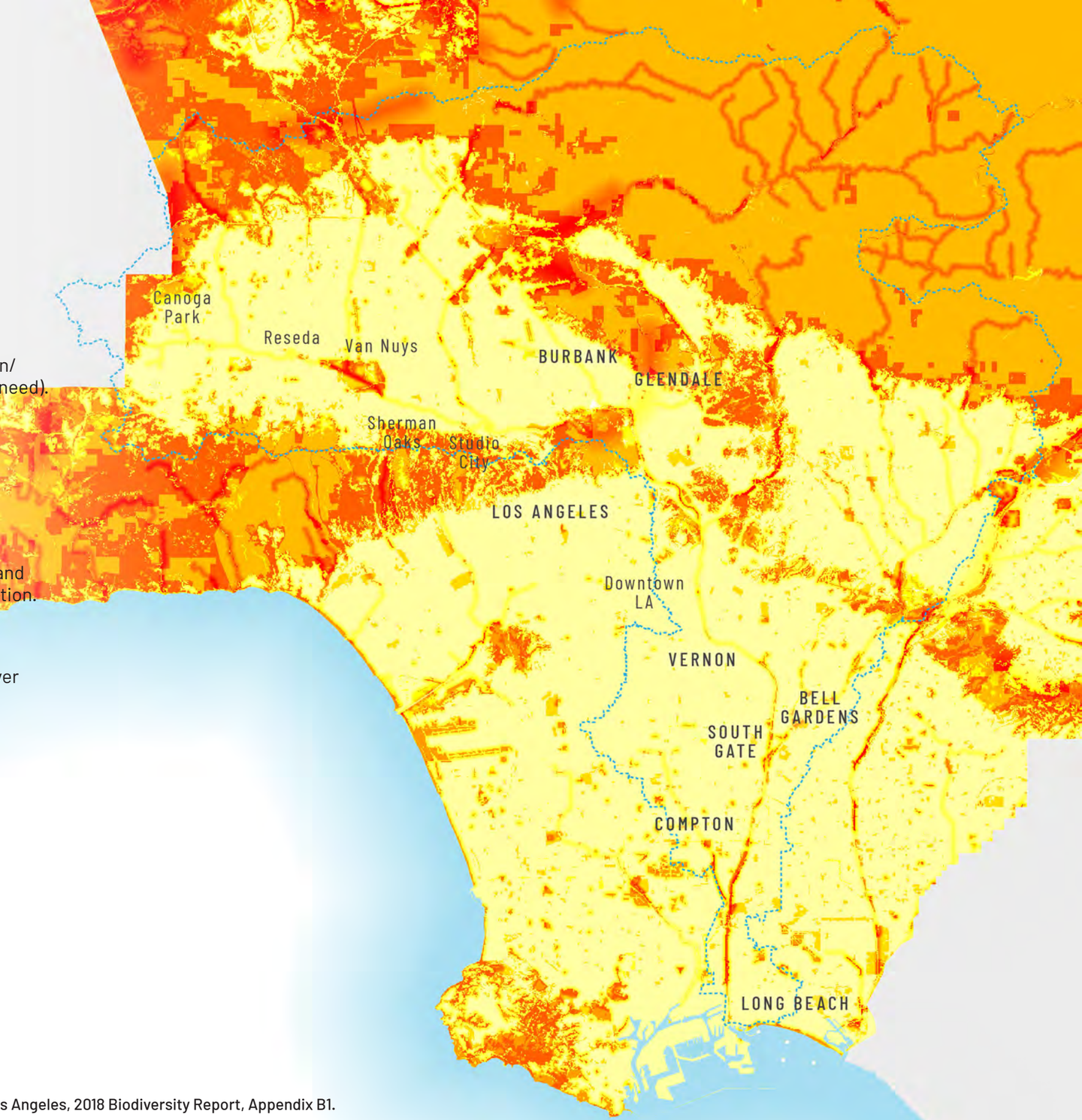
Unprotected Areas[4] (15%)

Unprotected areas are vulnerable to development and are less likely to sustain habitat areas over time. Ecosystems that are in areas that are unprotected have high need.

LA County Need Analysis:

High Need

Low Need



Footnotes:
1. USDA Forest Service, CALVEG, Existing Vegetation: Region 5 - South Coast. Classifications based on City of Los Angeles, 2018 Biodiversity Report, Appendix B1.
2. California Protected Areas Database, California Natural Resources Agency Open Data, 2017.
3. South Coast Missing Linkages Project, South Coast Wildlands, 2008; LA River Tributaries, Geosyntec, 2016.
4. California Protected Areas Database,

Source: OLIN

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LA County Need Analysis:

High Need

Low Need

1-mile buffer

Footnotes:
1. USDA Forest Service, CALVEG, Existing Vegetation: Region 5 - South Coast. Classifications based on City of Los Angeles, 2018 Biodiversity Report, Appendix B1.
2. California Protected Areas Database, California Natural Resources Agency Open Data, 2017.
3. South Coast Missing Linkages Project, South Coast Wildlands, 2008; LA River Tributaries, Geosyntec, 2016.
4. California Protected Areas Database,

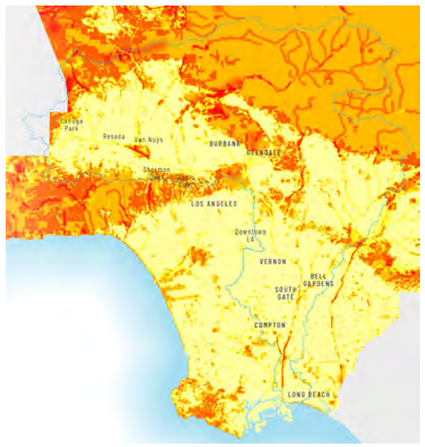
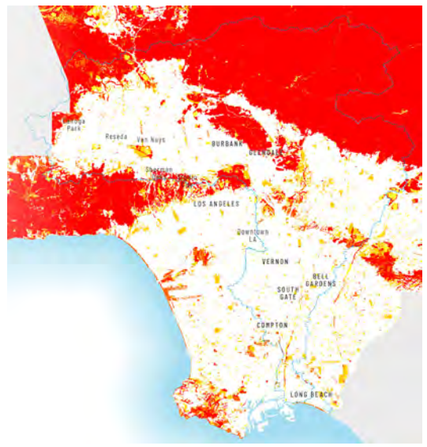
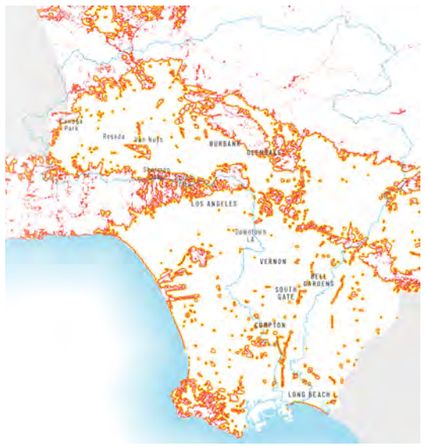
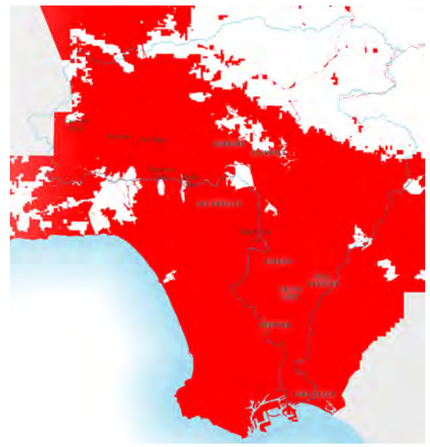
Source: OLIN

ECOSYSTEMS

Need Analysis:

High Need

Low Need

Ecosystems Need	=	Habitat Areas[1] 50%	+	Habitat Areas Buffers[2] 20%	+	Linkages and Confluences[3] 15%	+	Unprotected Areas[4] 15%
								
Criteria Type:		State of California / LARMP Data		LARMP Data		State of California / LARMP Data		Existing Data
Description:		CALVEG Regional Dominance types were used to classify existing areas as predominantly urban/barren, invasive vegetation, or native/natural (habitat areas).		Areas closest to existing protected habitat areas that could help further buffer core protected habitat areas.		Missing linkages are areas without connectivity, but based on location are critical. Tributaries and confluences can also provide species connectivity.		Unprotected areas are vulnerable to development and are less likely to sustain habitat areas over time. Ecosystems that are in areas that are unprotected have high need.
Assessment:		Highest Need = (native/natural)* Low Need = (agriculture/barren)		Highest Need = 1 ft area buffer* Low Need = <1000 ft area buffer*		Highest Need = missing linkage, tributary, confluence* Low Need = <5000 ft linkage buffer*		Highest Need = unprotected area Low Need = protected area

Footnotes:
1. USDA Forest Service, CALVEG, Existing Vegetation: Region 5 - South Coast. Classifications based on City of Los Angeles, 2018 Biodiversity Report, Appendix B1.
2. California Protected Areas Database, California Natural Resources Agency Open Data, 2017.
3. South Coast Missing Linkages Project, South Coast Wildlands, 2008; LA River Tributaries, Geosyntec, 2016.
4. California Protected Areas Database,

Source: OLIN

WATER SUPPLY

Habitat & Recreation Beneficial Uses[1] (33%)

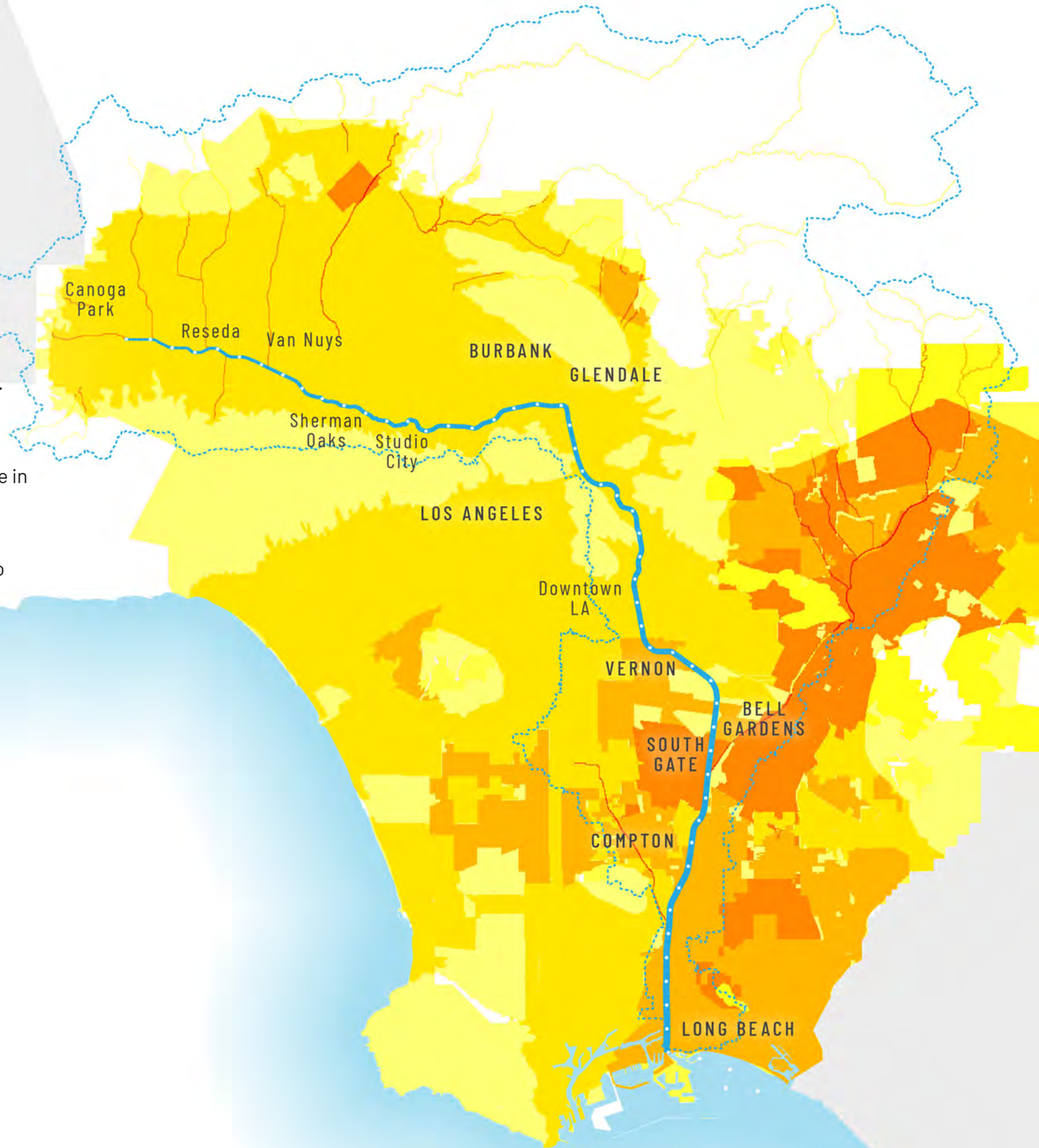
The occurrences of Beneficial Uses related to Recreation or Habitat were identified within streams in the LA River watershed, including the mainstem, in order to indicate where in-channel water supply is needed.

Percent Groundwater Supply[2] (33%)

Urban Water Management Plans prepared by water suppliers in LA County report the sources of water supplied, including groundwater. Areas with groundwater sourcing a significant portion of water supply are in high need of consistent replenishment of groundwater replenishment supply.

Groundwater Basins[3] (33%)

Locations overlaying groundwater basins have need for additional replenishment of groundwater basins to enhance municipal water supply.



LA County Need Analysis:

High Need

Low Need

Footnotes:
1. Los Angeles Regional Water Quality Control Board, Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties. https://www.waterboards.ca.gov/losangeles/water_issues/programs/basin_plan/basin_plan_documentation.html
2. UCLA Water Hub. Water Sources Map. http://waterhub.ucla.edu/watersources.html
3. OLIN, Geosyntec

Source: Geosyntec, OLIN

WATER SUPPLY

Habitat & Recreation Beneficial Uses[1] (33%)

The occurrences of Beneficial Uses related to Recreation or Habitat were identified within streams in the LA River watershed, including the mainstem, in order to indicate where in-channel water supply is needed.

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Groundwater Basins[3] (33%)

Locations overlaying groundwater basins have need for additional replenishment of groundwater basins to enhance municipal water supply.

LA County Need Analysis:

High Need

Low Need

1-mile buffer

Footnotes:
1. Los Angeles Regional Water Quality Control Board, Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties. https://www.waterboards.ca.gov/losangeles/water_issues/programs/basin_plan/basin_plan_documentation.html
2. UCLA Water Hub. Water Sources Map. http://waterhub.ucla.edu/watersources.html
3. OLIN, Geosyntec

Source: Geosyntec, OLIN

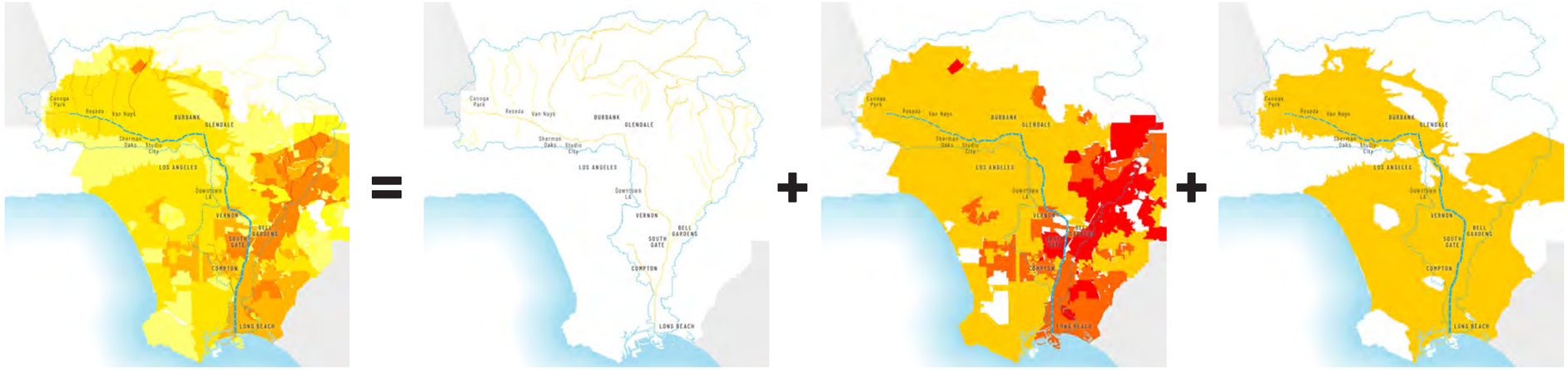
WATER SUPPLY

Need Analysis:

High Need

Low Need

Water Supply Need = Habitat & Recreation Beneficial Uses[1] **33.3%** + Percent Groundwater Supply[2] **33.3%** + Groundwater Basins[3] **33.3%**



Criteria Type:	LARMP Composite Dataset	Existing Composite Data	LARMP Data
Description:	The occurrences of Beneficial Uses related to Recreation or Habitat were identified in order to indicate where in-channel water supply is needed.	Areas with groundwater sourcing a significant portion of water supply are in high need of consistent replenishment of groundwater replenishment supply.	Locations overlaying groundwater basins have need for additional replenishment of groundwater basins to enhance municipal water supply.
Assessment:	Highest Need = recreation and habitat beneficial use Low Need = no recreation or habitat beneficial Use	Highest Need = > 90% groundwater Low Need = < 10% groundwater	Highest Need = areas over groundwater basins Low Need = areas not over groundwater basins

Footnotes:
1. Los Angeles Regional Water Quality Control Board, Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties. https://www.waterboards.ca.gov/losangeles/water_issues/programs/basin_plan/basin_plan_documentation.html
2. UCLA Water Hub. Water Sources Map. http://waterhub.ucla.edu/watersources.html
3. OLIN, Geosyntec

Source: Geosyntec, OLIN

Q & A AND DISCUSSION

Source: OLIN

SITE SELECTION

Source: Joe Mabel, 2001. Wikipedia. https://commons.wikimedia.org/wiki/File:Los_Angeles_River_aerial_01.jpg

SITE SELECTION

PLANNED MAJOR PROJECTS

41 PLANNED MAJOR PROJECTS

Planned Major Projects

Sources: OLIN, Geosyntec, Gehry Partners

RM 51.1
WATER SUPPLY
WATER QUALITY

ECOSYSTEMS
ARTS & CULTURE
AFFORDABLE HOUSING
EDUCATION

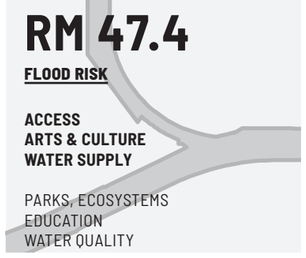
RM 50.6
FLOOD RISK

PARKS
ECOSYSTEMS
ARTS & CULTURE
AFFORDABLE HOUSING
EDUCATION
WATER SUPPLY

RM 47.4
FLOOD RISK

ACCESS
ARTS & CULTURE
WATER SUPPLY

PARKS, ECOSYSTEMS
EDUCATION
WATER QUALITY

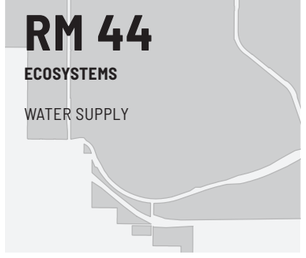


RM 46.5
FLOOD RISK
ACCESS
WATER SUPPLY

ECOSYSTEMS
ARTS & CULTURE

RM 44
ECOSYSTEMS

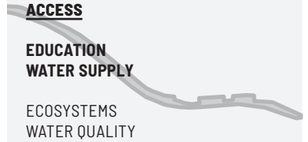
WATER SUPPLY



RM 41.2
ACCESS

EDUCATION
WATER SUPPLY

ECOSYSTEMS
WATER QUALITY

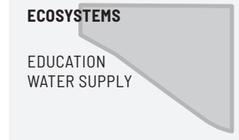


RM 40.9
ACCESS
EDUCATION
WATER SUPPLY

ECOSYSTEMS
WATER QUALITY

RM 38.8
ECOSYSTEMS

EDUCATION
WATER SUPPLY



RM 37.6
FLOOD RISK

WATER SUPPLY
WATER QUALITY

ECOSYSTEMS
EDUCATION

RM 37
FLOOD RISK
WATER SUPPLY

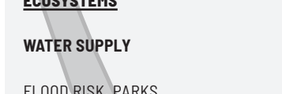
ECOSYSTEMS
ACCESS
EDUCATION

RM 33.5
ECOSYSTEMS

ACCESS
EDUCATION
WATER SUPPLY

RM 33
FLOOD RISK
ECOSYSTEMS

ACCESS
EDUCATION
WATER SUPPLY



RM 31
FLOOD RISK

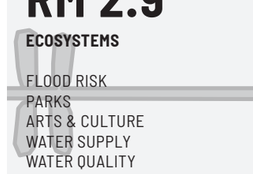
ECOSYSTEMS

AFFORDABLE HOUSING
EDUCATION
WATER SUPPLY
WATER QUALITY

RM 30.8
FLOOD RISK

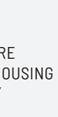
ECOSYSTEMS

EDUCATION
WATER SUPPLY



RM 30.5
ECOSYSTEMS
WATER QUALITY

PARKS
AFFORDABLE HOUSING
EDUCATION
WATER SUPPLY



RM 29.1
FLOOD RISK
ACCESS

ECOSYSTEMS
WATER SUPPLY

RM 27.7
FLOOD RISK

ECOSYSTEMS

AFFORDABLE HOUSING
EDUCATION
WATER SUPPLY

RM 26.2
ECOSYSTEMS

FLOOD RISK
PARKS
AFFORDABLE HOUSING
WATER SUPPLY

RM 25.6
ECOSYSTEMS

FLOOD RISK
PARKS
AFFORDABLE HOUSING
WATER SUPPLY

RM 25.3
FLOOD RISK
AFFORDABLE HOUSING

ECOSYSTEMS

EDUCATION
WATER SUPPLY

RM 25.2
FLOOD RISK
ECOSYSTEMS

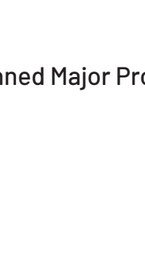
AFFORDABLE HOUSING

PARKS
WATER SUPPLY

RM 24.1
FLOOD RISK
PARKS
ECOSYSTEMS
AFFORDABLE HOUSING
WATER SUPPLY

RM 23.5
FLOOD RISK
ACCESS

PARKS
ECOSYSTEMS
AFFORDABLE HOUSING
WATER SUPPLY
WATER QUALITY



RM 23.2
FLOOD RISK
ACCESS

WATER SUPPLY

PARKS
ECOSYSTEMS
AFFORDABLE HOUSING

RM 22.6
FLOOD RISK

PARKS
ACCESS
AFFORDABLE HOUSING
WATER SUPPLY
WATER QUALITY

RM 21.5
AFFORDABLE HOUSING

ACCESS

PARKS
ECOSYSTEMS
WATER SUPPLY
WATER QUALITY

RM 21.1
ACCESS
AFFORDABLE HOUSING

PARKS
ECOSYSTEMS
ARTS & CULTURE
WATER SUPPLY

RM 16.2
ECOSYSTEMS
WATER QUALITY

FLOOD RISK
PARKS
ACCESS
ARTS & CULTURE
AFFORDABLE HOUSING

RM 15.3
PARKS
ARTS & CULTURE
WATER QUALITY

AFFORDABLE HOUSING

RM 13.9
ARTS & CULTURE

FLOOD RISK
PARKS
ECOSYSTEMS
AFFORDABLE HOUSING
EDUCATION
WATER QUALITY

RM 12.7
ECOSYSTEMS
AFFORDABLE HOUSING

WATER SUPPLY
WATER QUALITY

FLOOD RISK, PARKS
ARTS & CULTURE

RM 12
ECOSYSTEMS

ARTS & CULTURE
WATER SUPPLY
WATER QUALITY

FLOOD RISK, PARKS
AFFORDABLE HOUSING

RM 11.8
ECOSYSTEMS
AFFORDABLE HOUSING
WATER QUALITY

FLOOD RISK
PARKS
ARTS & CULTURE

RM 11.7
ECOSYSTEMS
WATER QUALITY

FLOOD RISK
ARTS & CULTURE

RM 7.2
ECOSYSTEMS

FLOOD RISK
PARKS
ACCESS
ARTS & CULTURE
EDUCATION
WATER SUPPLY
WATER QUALITY

RM 5.5
ECOSYSTEMS

WATER SUPPLY

FLOOD RISK, PARKS
ARTS & CULTURE
EDUCATION
WATER QUALITY

RM 4.4
ECOSYSTEMS

ACCESS
ARTS & CULTURE
WATER SUPPLY

RM 2.9
ECOSYSTEMS

FLOOD RISK
PARKS
ARTS & CULTURE
WATER SUPPLY
WATER QUALITY

RM 1.6
FLOOD RISK
ECOSYSTEMS
ARTS & CULTURE
AFFORDABLE HOUSING
WATER SUPPLY

RM 0.9
FLOOD RISK
PARKS
ARTS & CULTURE

ECOSYSTEMS
AFFORDABLE HOUSING
WATER SUPPLY

RM 0.7
FLOOD RISK
AFFORDABLE HOUSING

ARTS & CULTURE
WATER SUPPLY

Planned Major Project

VERY HIGH NEED

HIGH NEED

NEED

OVERLAYS

River Improvement Overlay Zone (LARRMP)

The Los Angeles River Improvement Overlay (RIO) was developed out of the LA River Revitalization Master Plan. It is a 32-mile zoning overlay that establishes an area in which new projects must comply with certain design standards related to three categories: watershed, urban design, and mobility. The RIO is intended to help the city coordinate land use development along the river, enhance the unique qualities of the river, and better serve adjacent communities within the city's boundaries.

Habitat Restoration Zones (ARBOR Study)

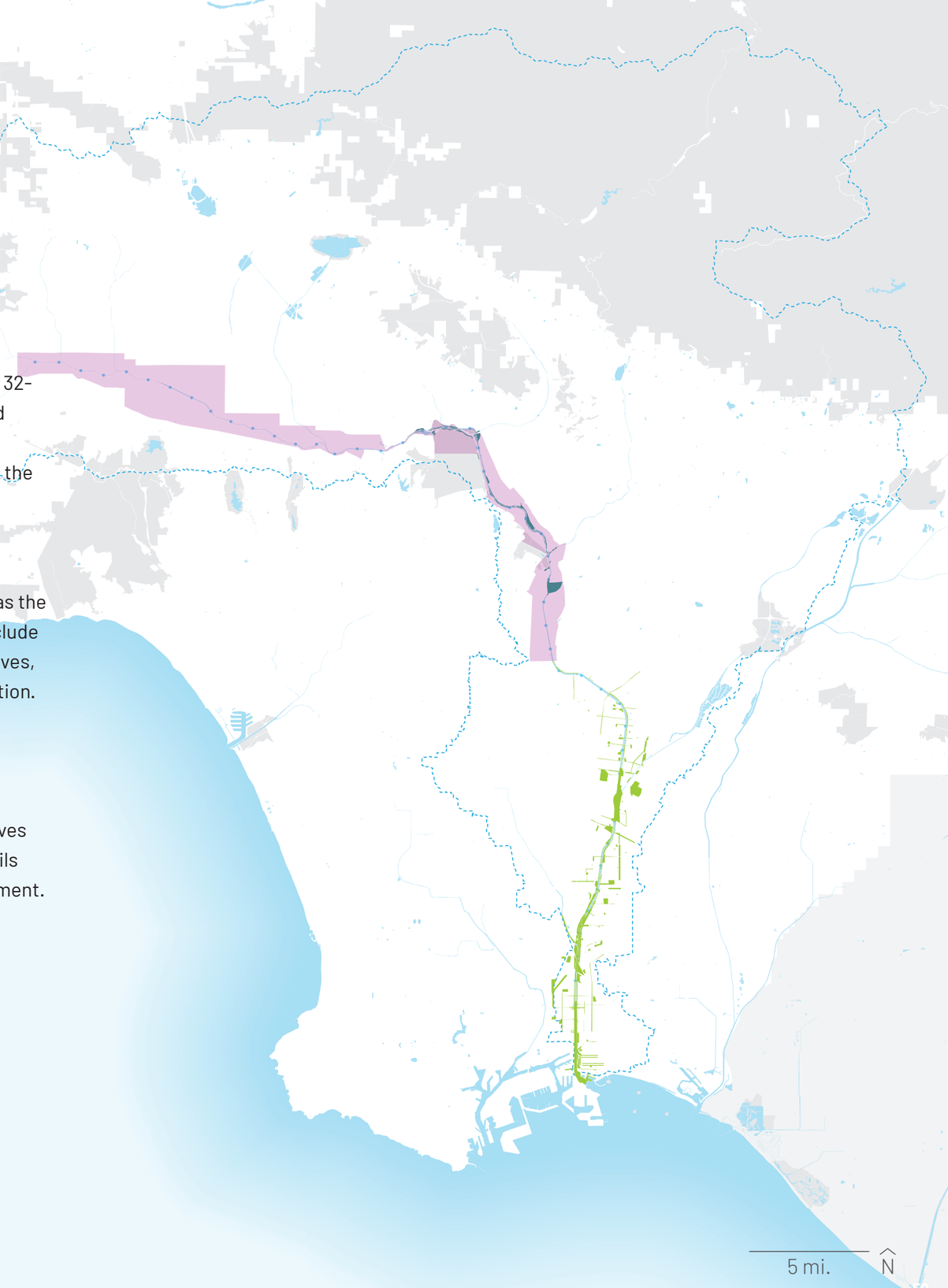
The Los Angeles River Ecosystem Restoration Integrated Feasibility Report and its Recommended Plan (also known as the ARBOR Study) present potential alternatives for environmental restoration of 11 mile of the Los Angeles River that include the soft-bottomed Glendale Narrows. The study analyzes the environmental impacts of implementing those alternatives, reviews the process for selecting the best alternative, and concludes with recommendations for project implementation.

Opportunity Zones (LLARRP)

Opportunity zones are comprised of publicly-owned open spaces and other areas with revitalization potential, as determined through the Lower LA River Revitalization Plan. Each opportunity zone is associated with a set of objectives based on existing conditions and context, as well as strategies for achieving those objectives. The LLARRP also details the "opportunity potential" of each zone to address various focus areas of the overall plan, such as water and environment.

RIO Zone (LARRMP)
Habitat Restoration Zones (ARBOR Study)
Opportunity Zones (LLARRP)

Sources: OLIN, Geosyntec, based on Lower LA River Revitalization Plan (2017) ARBOR Study (2015), and LA River Revitalization Master Plan (2007).



SITE SELECTION

PROJECTS: XS, S

LA River Revitalization Master Plan (2007)

LARRMP provides a bold vision for transforming the LA River within the City of Los Angeles over the next several generations. The plan acknowledges that great and transformative change may not be accomplished in one lifetime; it must remain in the minds of the people who will carry it forward. The plan for this stretch of the river includes four core principles: revitalize the river, green the neighborhoods, capture community opportunities, and create value.

Lower LA River Revitalization Plan (2017)

LLARRP describes opportunities for improving the environment and residents' quality of life along a reimagined and revitalized river from Vernon south, and identifies and designs multi-benefit projects and policies to implement in the area around the river. The LLARRP addressed three broad goals: community economics, health, and equity; public realm; and water and environment.

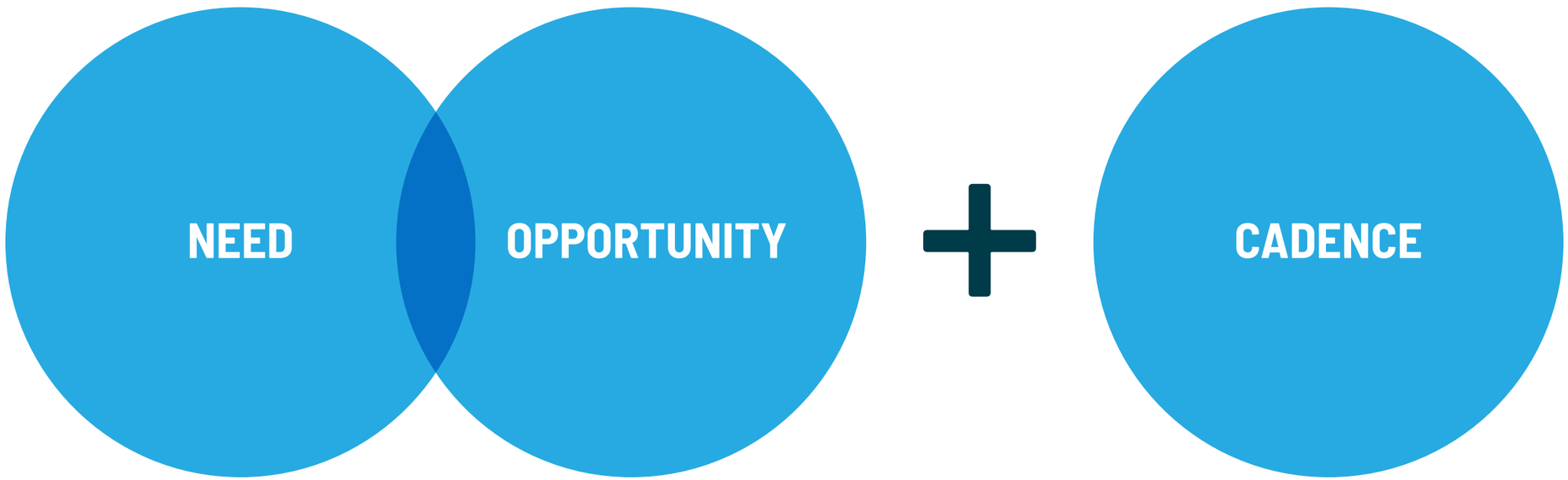
Lower LA River Revitalization Plan (20 Projects)

LA River Revitalization Master Plan (141 Projects)

Sources: OLIN, Lower LA River Revitalization Plan (2017), LA River Revitalization Master Plan (2007)

HOW DO WE LOCATE NEW PROJECTS?

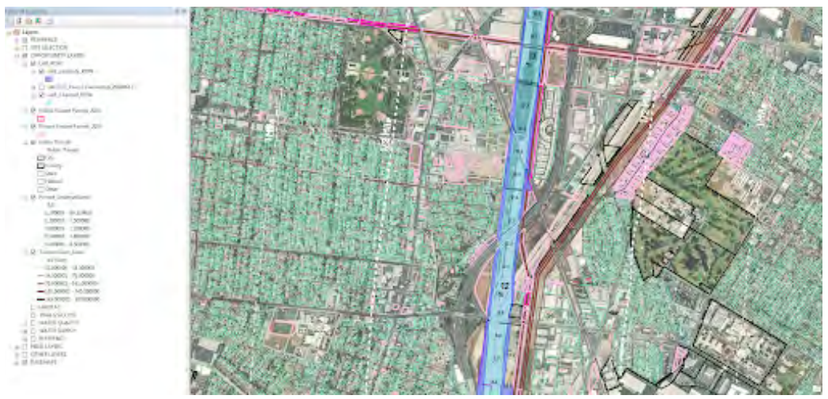
Align need, opportunity, and cadence along the LA River Corridor.



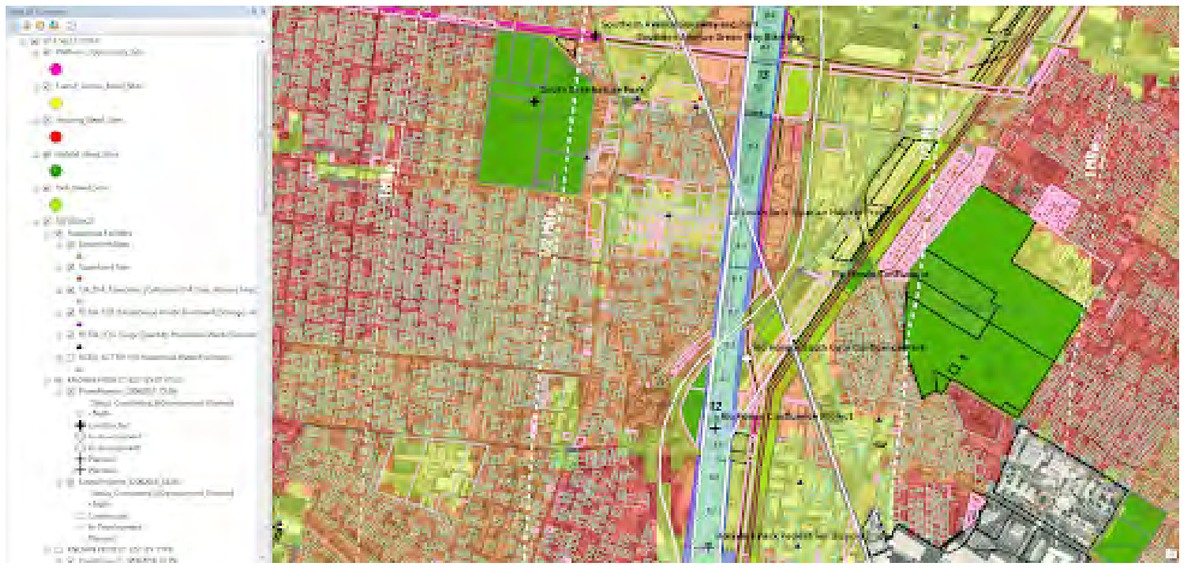
NEW SITES OF INTEREST ARE LOCATED AT OVERLAPPING AREAS OF NEED AND OPPORTUNITY

Needs

Opportunities



Overlay



CADENCE

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

XL
ex: Regional Parks, Water Recharge Area, Affordable Housing

L
ex: Community Park, Cultural Center

M
ex: Neighborhood Parks, Community Center, Bridges

S
ex: Pocket Parks, Park Nodes, Access Gateways, Restrooms, Pavilions

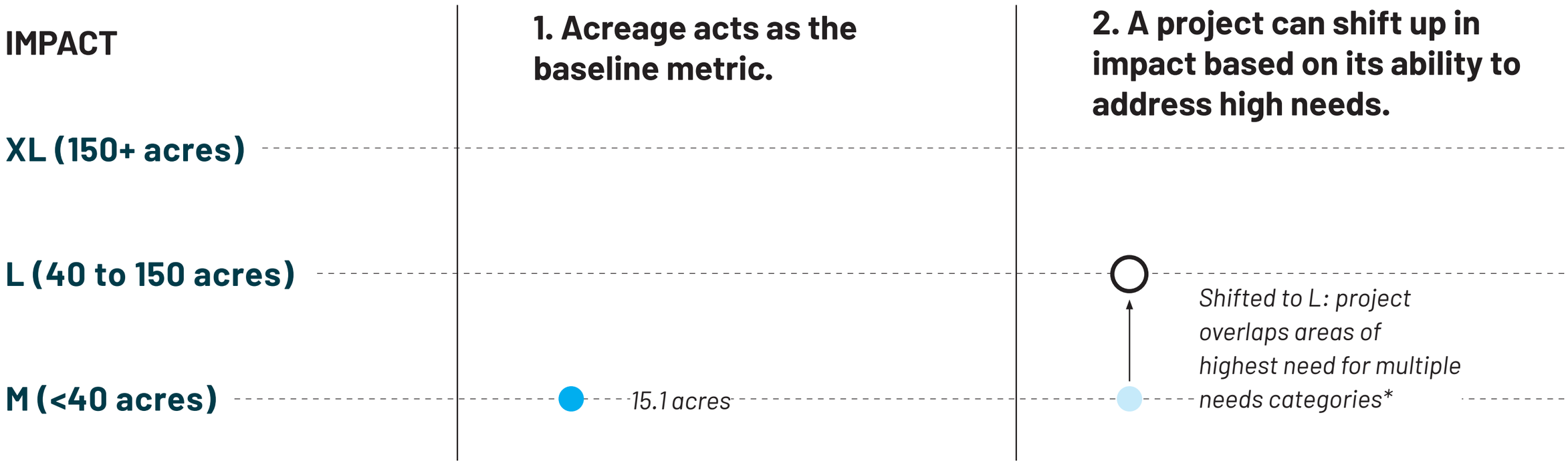
XS
ex: Pavilions, Lighting, Signage, Benches

WHAT DETERMINES A PROJECT'S IMPACT?

IMPACT = ACREAGE + ABILITY TO MEET NEEDS

WHAT DETERMINES A PROJECT'S IMPACT?

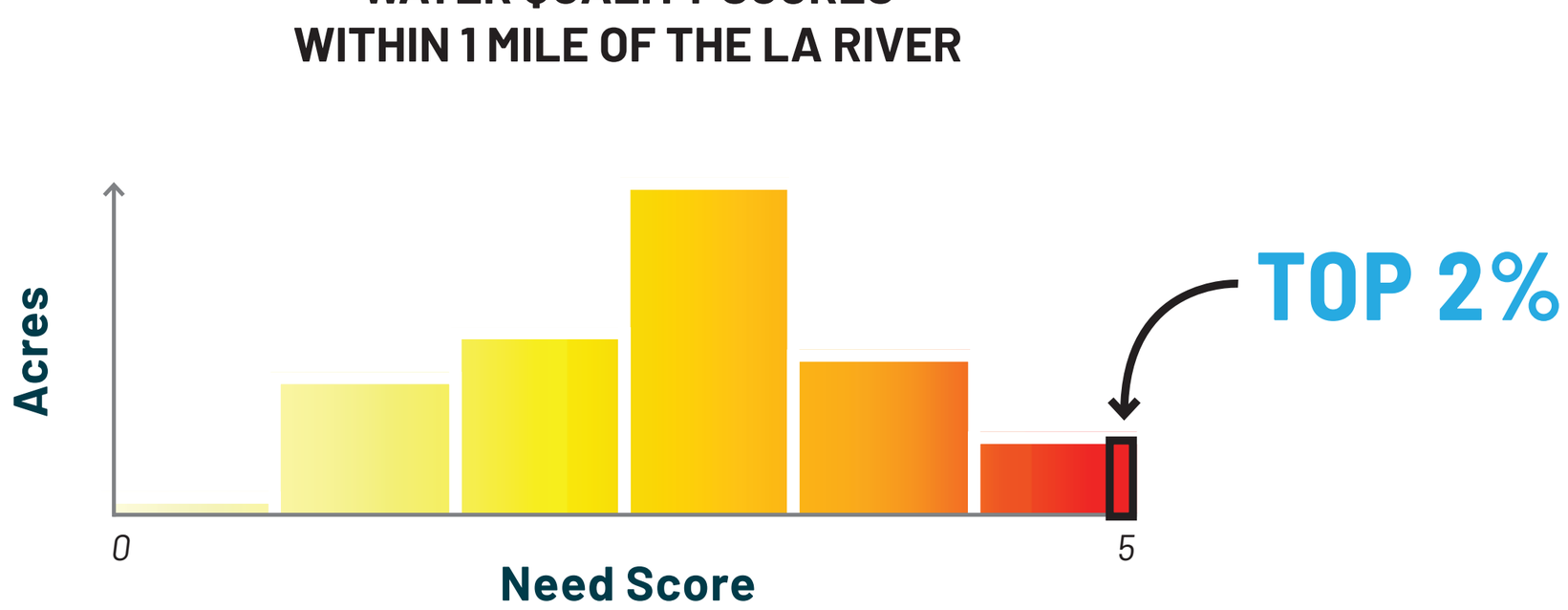
Example Impact Assessment



* Areas of highest need are areas that fall into the top 2% of need for a category, as compared to all need per category within a 1-mile buffer of the LA River

WHAT DETERMINES A PROJECT'S IMPACT?

A project can shift up in impact if it exhibits in the top 2% of multiple needs categories, as compared to all need per category within one mile of the LA River.



Source: OLIN

EXAMPLE

WHAT DETERMINES A PROJECT'S IMPACT?

A project can shift up in impact if it overlaps areas in the top 2% of multiple need categories, as compared to all need per category within one mile of the LA River.

RM 46.8
19 acres

Step 1: What is the project's acreage?

- **M** <40 acres
- **L** 40 to 150 acres
- **XL** 150+ acres

Step 2: Does the project overlap areas in the top 2% of multiple need categories?

- Flood Risk Reduction
- Parks
- Ecosystems
- Access
- Arts & Culture
- Housing Affordability
- Engagement & Education
- Water Supply
- Water Quality

Final Impact

- **M**
- **L**
- **XL**

EXAMPLE

WHAT DETERMINES A PROJECT'S IMPACT?

A project can shift up in impact if it overlaps areas in the top 2% of multiple need categories, as compared to all need per category within one mile of the LA River.

RM 46.8
19 acres

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L 40 to 150 acres

XL 150+ acres

Step 2: Does the project overlap areas in the top 2% of multiple need categories?

- Flood Risk Reduction
- Parks
- Ecosystems
- Access
- Arts & Culture
- Housing Affordability
- Engagement & Education
- Water Supply
- Water Quality

YES!

The project at RM 46.8 will shift up in impact.

Final Impact

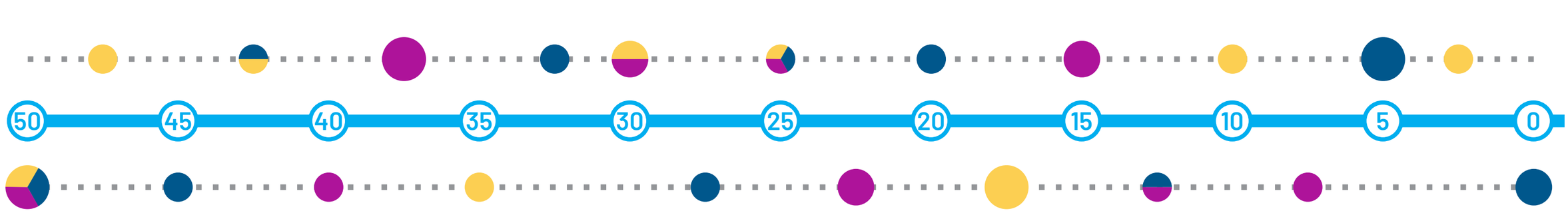
M

L

XL

CADENCE

Projects should be equally distributed along the river and vary in scale.



Types of M, L, XL Projects

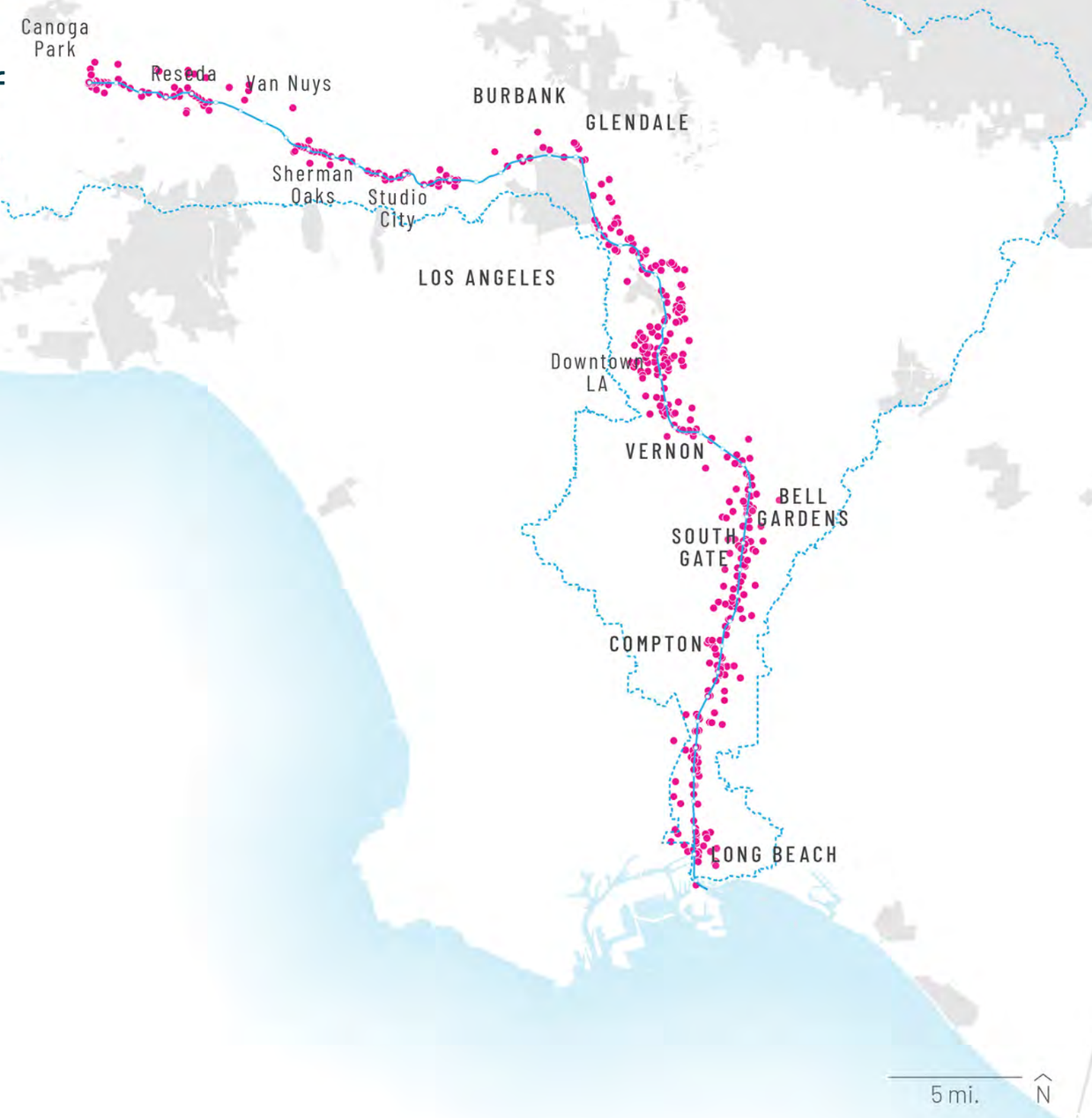
XS, S Projects

SITE SELECTION

OPPORTUNITY: POTENTIAL SITES

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

450 PARCELS



Source: OLIN

DESKTOP ANALYSIS

Considerations 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?

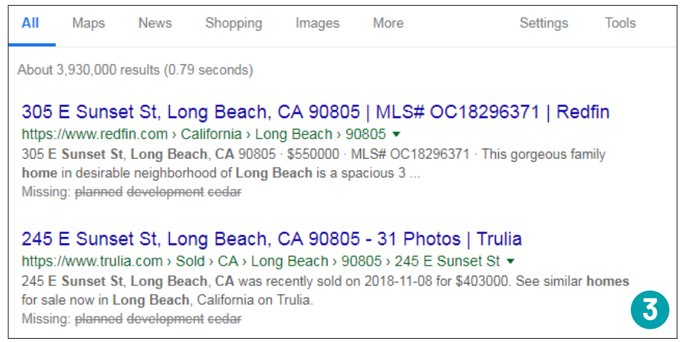
How large is the site?

How close is the site to the LA River ?

Could the site be part of a connected continuous open space system?

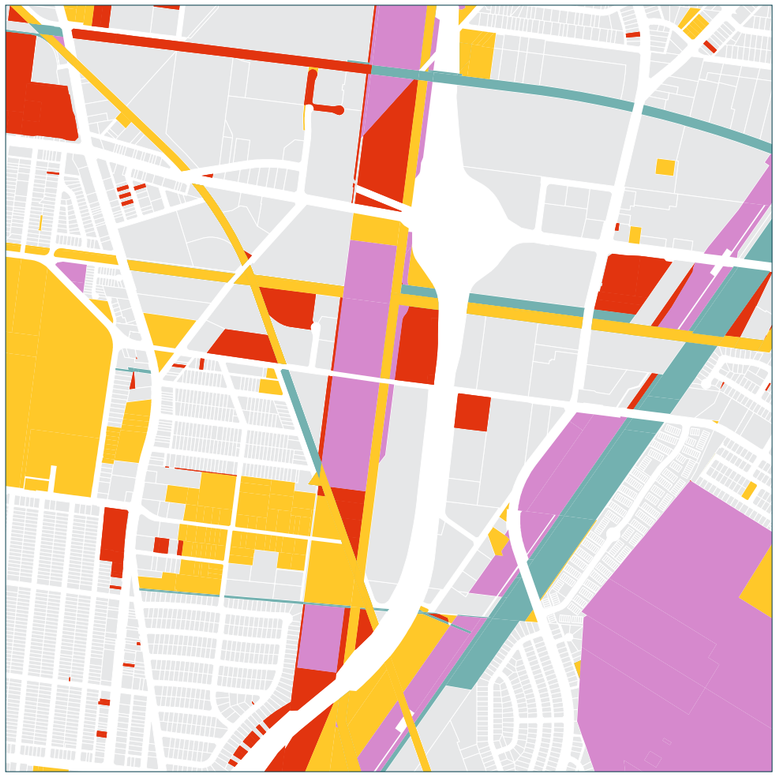
Google Earth Aerial

Google Street View

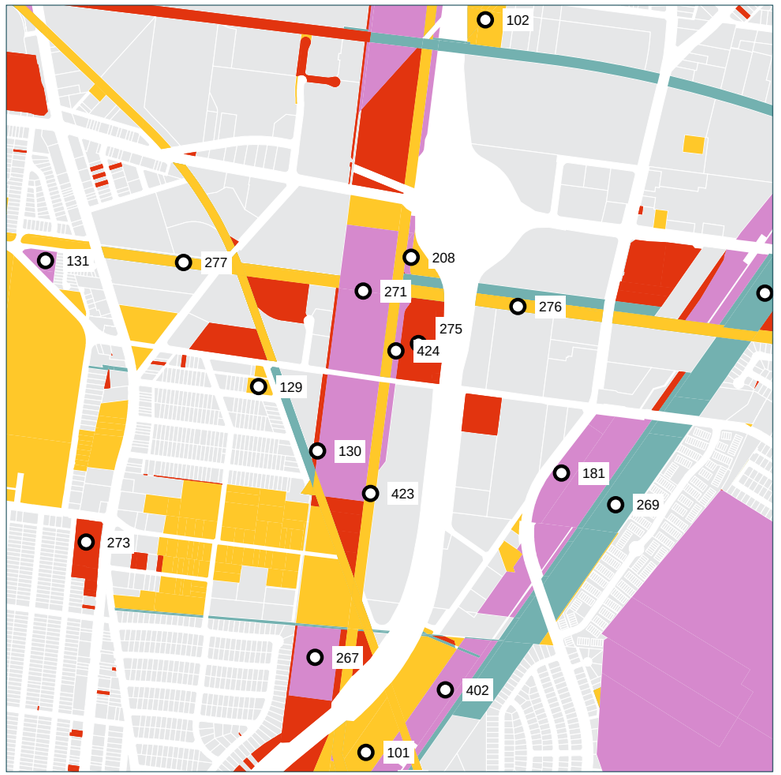


Online Search

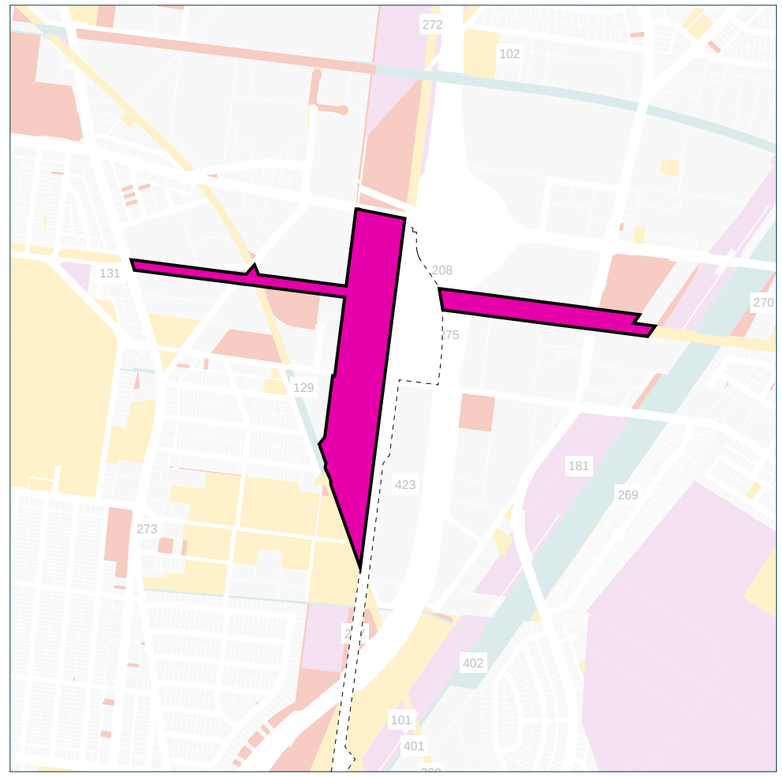
A SELECTION OF 105 PARCELS FROM THE DESKTOP ANALYSIS WERE AGGREGATED INTO POTENTIAL SITES



Opportunity Parcels



Parcels from Desktop Analysis



Potential Site Boundary

Potential Site Boundary
Planned Major Project
County Owned
Other Publicly Owned
Privately Owned Vacant
Privately Owned ROW

Sources: OLIN

SITE SELECTION

M, L, XL SITE-BASED PROJECTS

21 POTENTIAL PROJECT SITES

Proposed Site-Based Projects

Sources: OLIN, Gehry Partners, Geosyntec

SITE SELECTION

M, L, XL SITE-BASED PROJECTS

21 POTENTIAL PROJECT SITES
41 PLANNED MAJOR PROJECTS

Potential Project Sites
Planned Major Projects

Sources: OLIN, Gehry Partners, Geosyntec

LOCATING PROJECTS: XS, S

Final Considerations 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?

SITE SELECTION

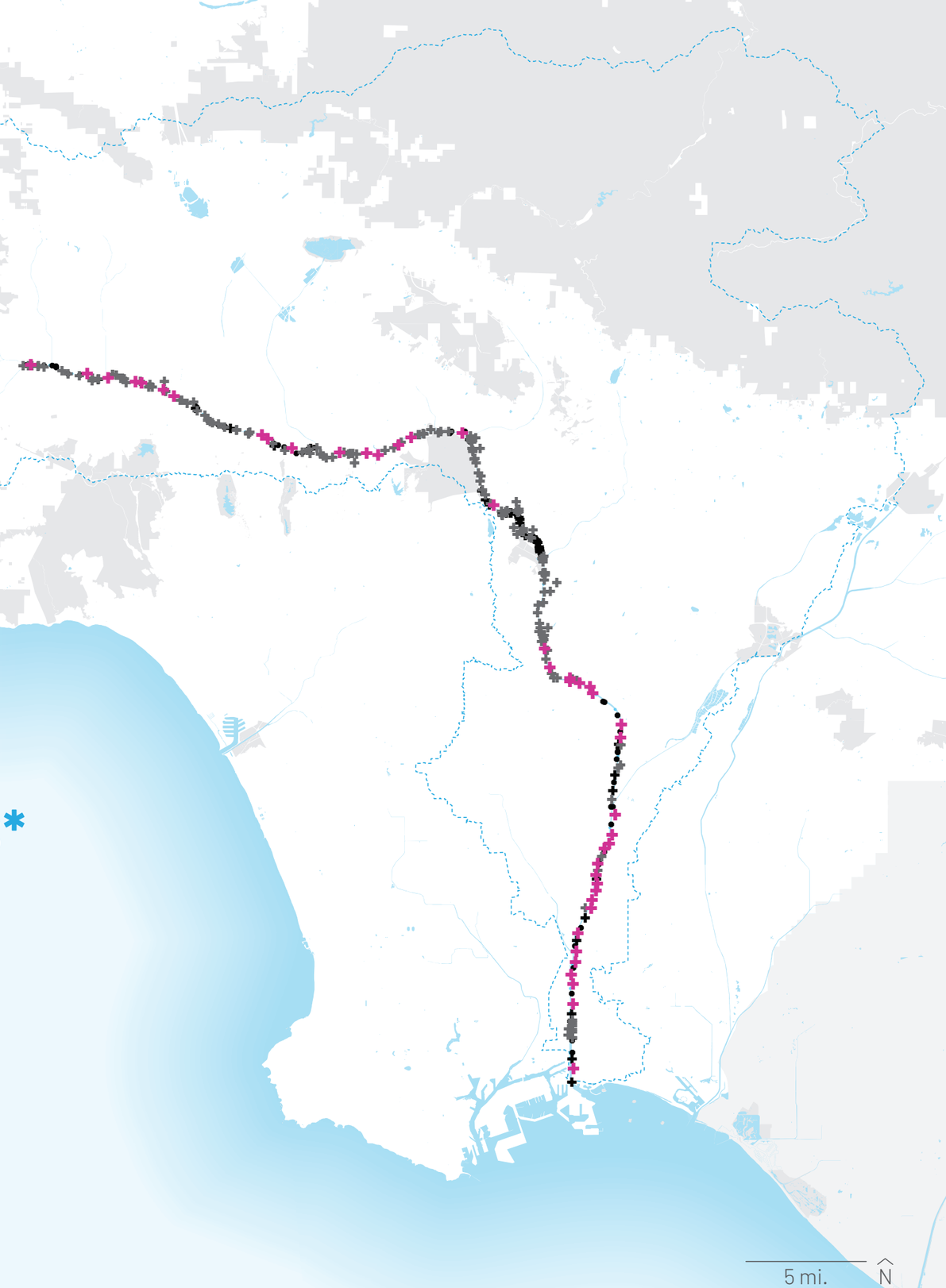
XS, S PROJECTS

43 NEWLY PROPOSED PROJECTS
161 ADDITIONAL PROJECTS FROM PLANS*
40 IMPROVED ACCESS POINTS

- Proposed XS, S Projects
- Planned XS, S Projects
- Potential Access Points to Upgrade
- Existing Access Points

Source: OLIN

*Plans referenced include Lower Los Angeles River Revitalization Plan and Los Angeles River Revitalization Master Plan



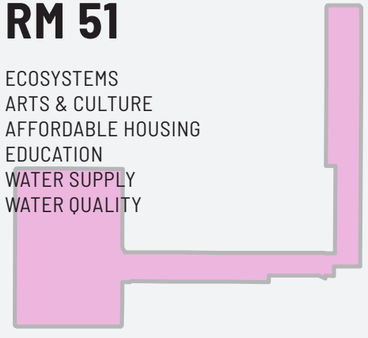
SITE SELECTION

XS - XL PROJECTS

Source: OLIN, Gehry Partners, Geosyntec

RM 51

ECOSYSTEMS
ARTS & CULTURE
AFFORDABLE HOUSING
EDUCATION
WATER SUPPLY
WATER QUALITY



RM 48.9

FLOOD RISK

WATER SUPPLY

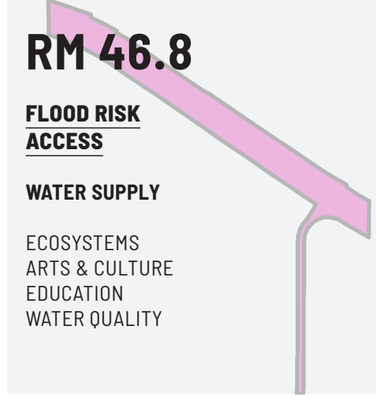
PARKS
ECOSYSTEMS
ARTS & CULTURE
EDUCATION

RM 46.8

FLOOD RISK
ACCESS

WATER SUPPLY

ECOSYSTEMS
ARTS & CULTURE
EDUCATION
WATER QUALITY

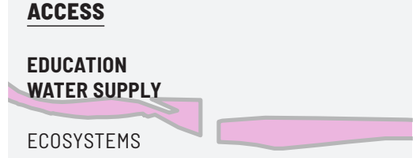


RM 40.8

ACCESS

EDUCATION
WATER SUPPLY

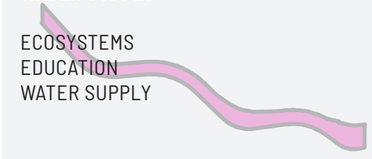
ECOSYSTEMS



RM 39.4

WATER SUPPLY

ECOSYSTEMS
EDUCATION
WATER SUPPLY

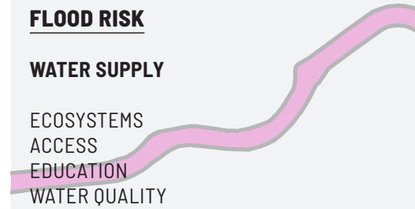


RM 38.2

FLOOD RISK

WATER SUPPLY

ECOSYSTEMS
ACCESS
EDUCATION
WATER QUALITY

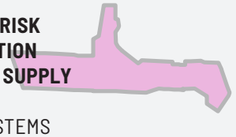


RM 35.9

ACCESS

FLOOD RISK
EDUCATION
WATER SUPPLY

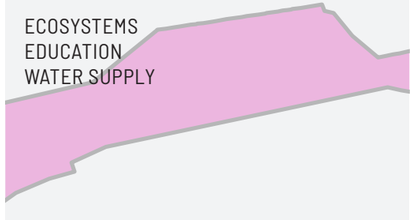
ECOSYSTEMS
WATER QUALITY



RM 32.8

FLOOD RISK
ACCESS

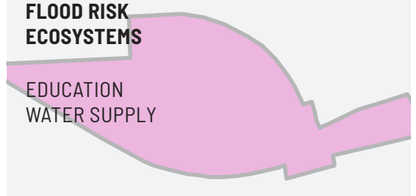
ECOSYSTEMS
EDUCATION
WATER SUPPLY



RM 30.9

FLOOD RISK
ECOSYSTEMS

EDUCATION
WATER SUPPLY



RM 21.6

ACCESS

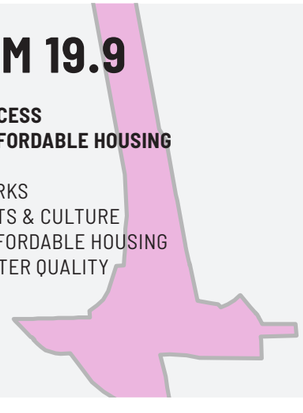
AFFORDABLE HOUSING
WATER SUPPLY

PARKS
ECOSYSTEMS

RM 19.9

ACCESS
AFFORDABLE HOUSING

PARKS
ARTS & CULTURE
AFFORDABLE HOUSING
WATER QUALITY



RM 15.8

ECOSYSTEMS
ARTS & CULTURE

PARKS
AFFORDABLE HOUSING
WATER QUALITY

RM 14.1

ARTS & CULTURE
WATER QUALITY

FLOOD RISK
PARKS
ECOSYSTEMS
AFFORDABLE HOUSING
EDUCATION

RM 12.9

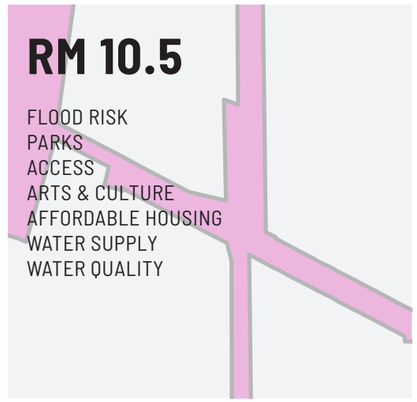
WATER SUPPLY

ECOSYSTEMS
AFFORDABLE HOUSING
WATER QUALITY

FLOOD RISK
PARKS
ARTS & CULTURE

RM 10.5

FLOOD RISK
PARKS
ACCESS
ARTS & CULTURE
AFFORDABLE HOUSING
WATER SUPPLY
WATER QUALITY

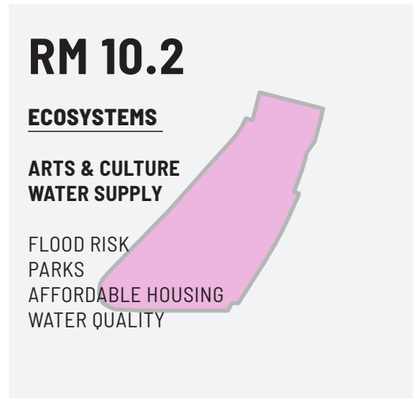


RM 10.2

ECOSYSTEMS

ARTS & CULTURE
WATER SUPPLY

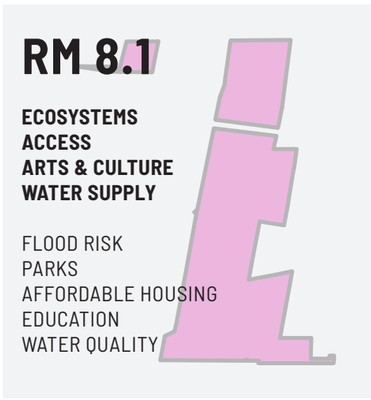
FLOOD RISK
PARKS
AFFORDABLE HOUSING
WATER QUALITY



RM 8.1

ECOSYSTEMS
ACCESS
ARTS & CULTURE
WATER SUPPLY

FLOOD RISK
PARKS
AFFORDABLE HOUSING
EDUCATION
WATER QUALITY



RM 6.3

ECOSYSTEMS

FLOOD RISK
PARKS
ARTS & CULTURE
AFFORDABLE HOUSING
EDUCATION
WATER SUPPLY
WATER QUALITY

RM 5.1

ECOSYSTEMS
WATER SUPPLY

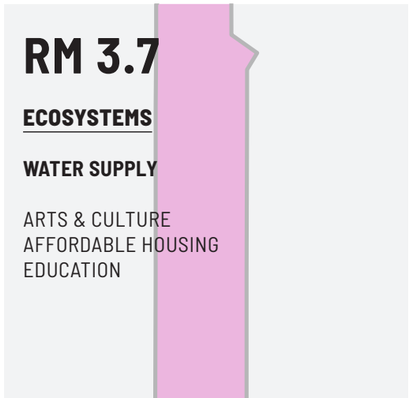
FLOOD RISK
WATER QUALITY

RM 3.7

ECOSYSTEMS

WATER SUPPLY

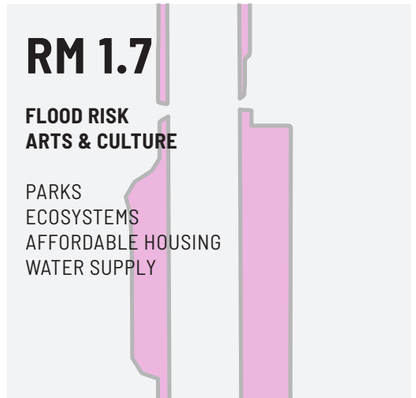
ARTS & CULTURE
AFFORDABLE HOUSING
EDUCATION



RM 1.7

FLOOD RISK
ARTS & CULTURE

PARKS
ECOSYSTEMS
AFFORDABLE HOUSING
WATER SUPPLY



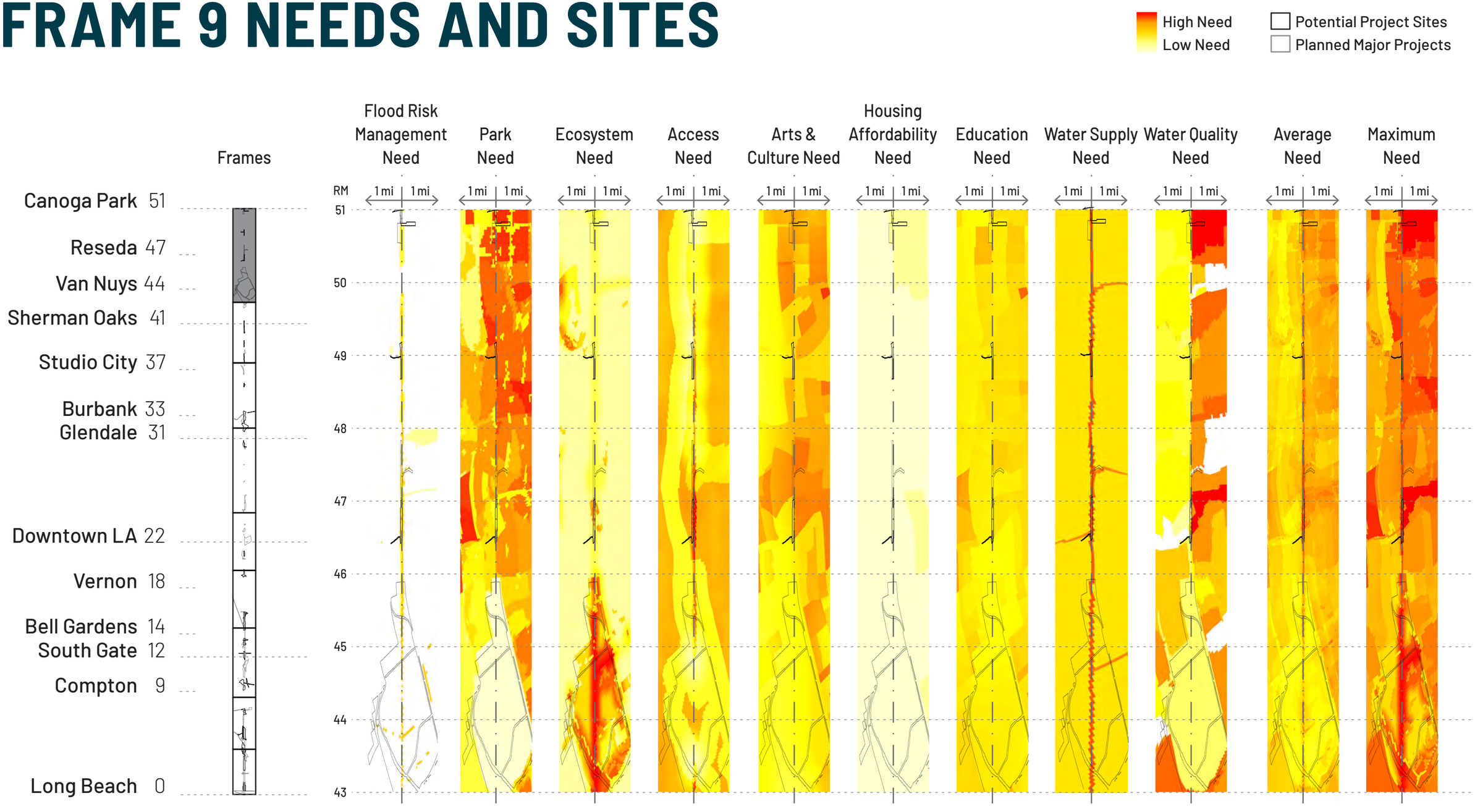
Potential Project Site

VERY HIGH NEED

HIGH NEED

NEED

FRAME 9 NEEDS AND SITES



Source: OLIN, Geosyntec

Q & A AND DISCUSSION

Source: OLIN

DESIGN GUIDELINES

Source: OLIN

DESIGN GUIDELINES STRUCTURE

SECTION I : INTRODUCTION
- EXECUTIVE SUMMARY
- DESIGN CONSIDERATIONS

SECTION II: DESIGN GUIDELINES
- ACCESS AND MOBILITY
- SIGNAGE AND ENVIRONMENTAL GRAPHICS
- ECOLOGY, HABITAT, AND PLANTING
- FACILITIES AND AMENITIES

SECTION III: RESOURCES
- TECHNICAL SPECIFICATIONS
- NATIVE PLANT NURSERIES AND MATERIAL SOURCES

PRINCIPLES OF DESIGN

1 IDENTITY - A UNIQUE AND SHARED RIVER COMMONS

2 PROSPECT AND REFUGE

3 SAFETY

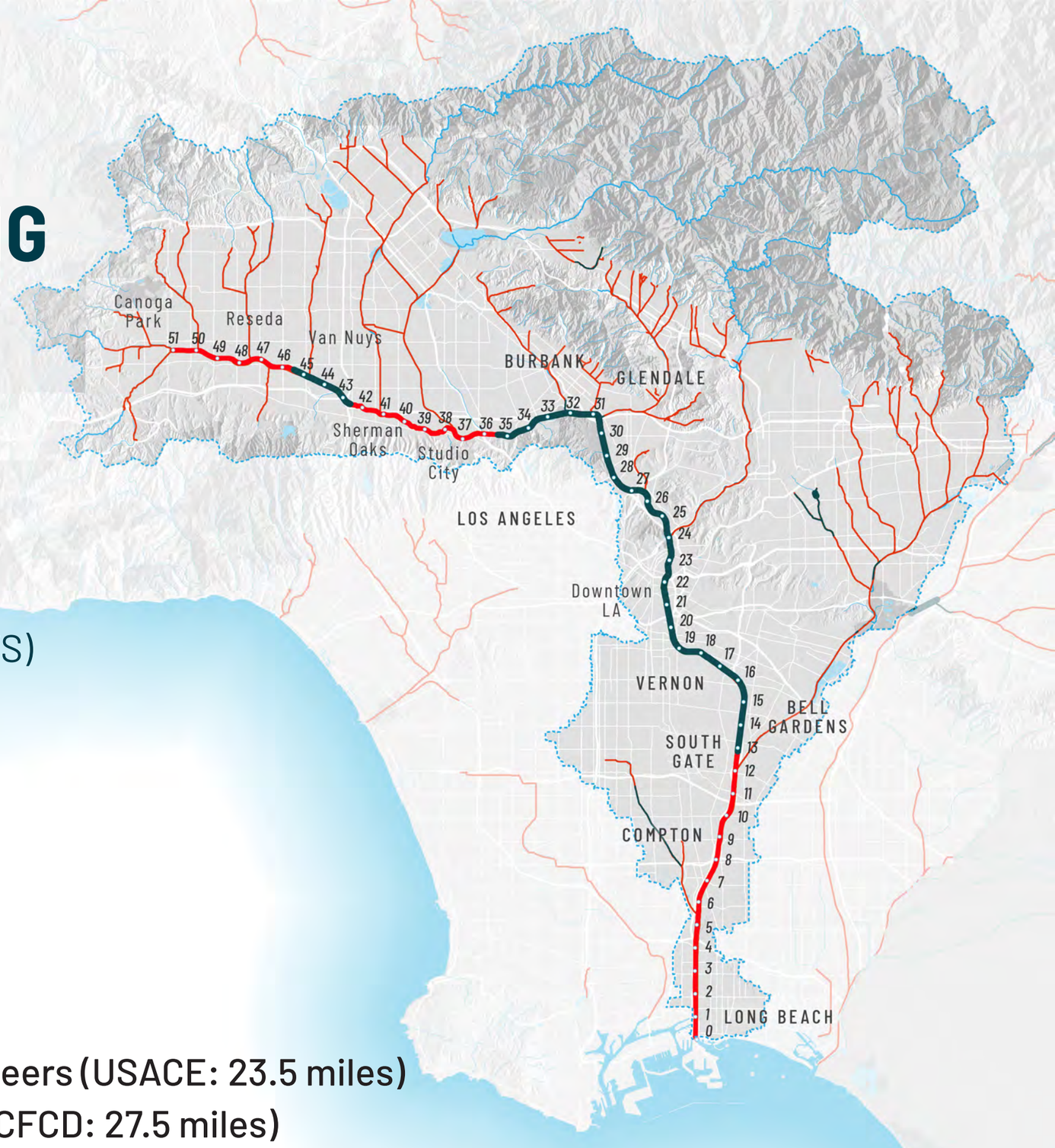
4 CULTURAL IDENTITY

5 CADENCE

OVERVIEW OF PERMITTING

COMMON PERMITS FROM:

- LA COUNTY FLOOD CONTROL DISTRICT (LACFCD)
- US ARMY CORPS OF ENGINEERS (USACE)
- US FISH AND WILDLIFE SERVICE (USFWS)
- NATIONAL MARINE FISHERIES SERVICE (NMFS)
- CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE (CDFW)
- CALIFORNIA COASTAL COMMISSION
- LA REGIONAL WATER QUALITY CONTROL BOARD



Agency:

Los Angeles District, U.S. Army Corps of Engineers (USACE: 23.5 miles)

Los Angeles County Flood Control District (LACFCD: 27.5 miles)

Source: Los Angeles County Public Works, GIS Maintenance Map, 2016

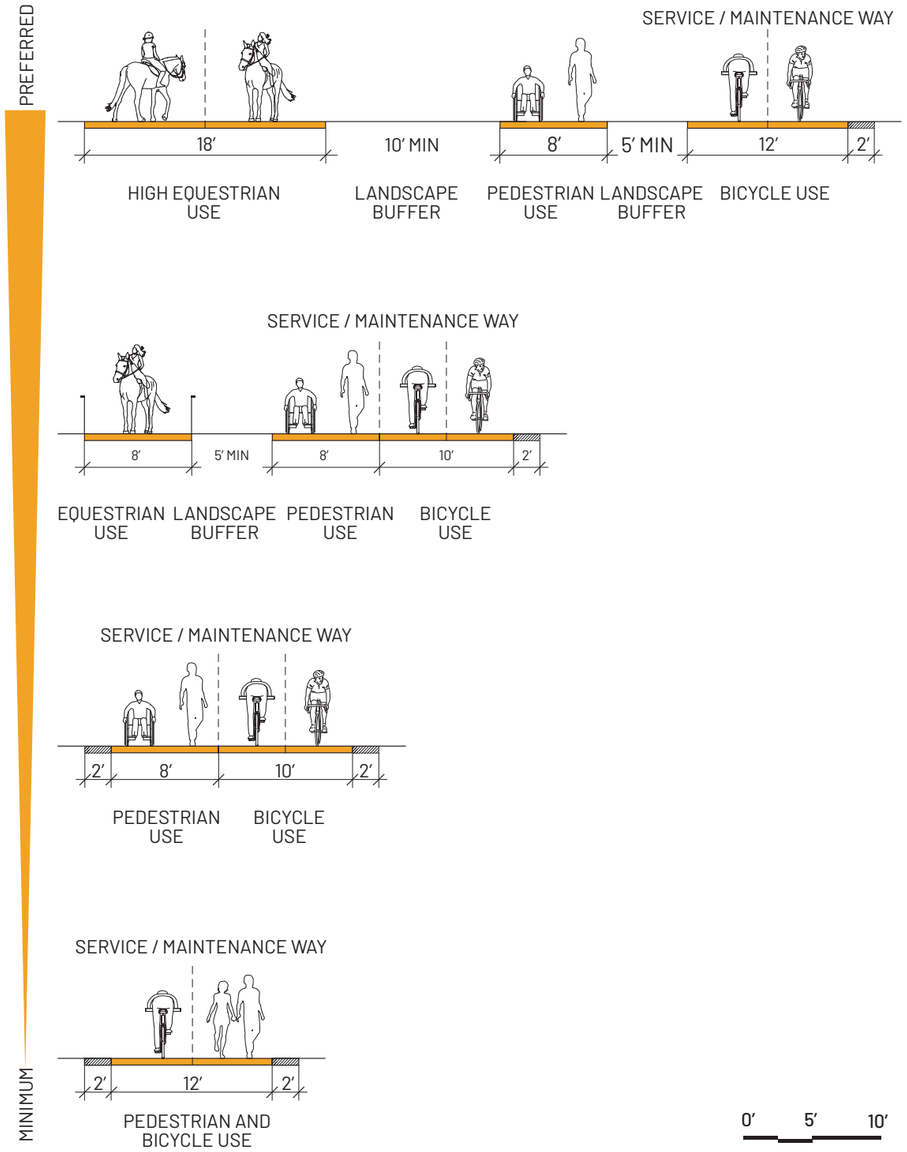
ONGOING PROJECT SUCCESS

- LIFE CYCLE COSTS AND O&M
- PERSONS EXPERIENCING HOMELESSNESS
- PEST / VECTOR CONTROL

ACCESS AND MOBILITY

- MINIMUM TO PREFERRED SCALE FOR GUIDELINES
- ACCOMMODATIONS FOR AS MANY USER TYPES AS SAFELY POSSIBLE
- FLEXIBILITY BASED ON AVAILABLE ROW
- UNIVERSAL ACCESS

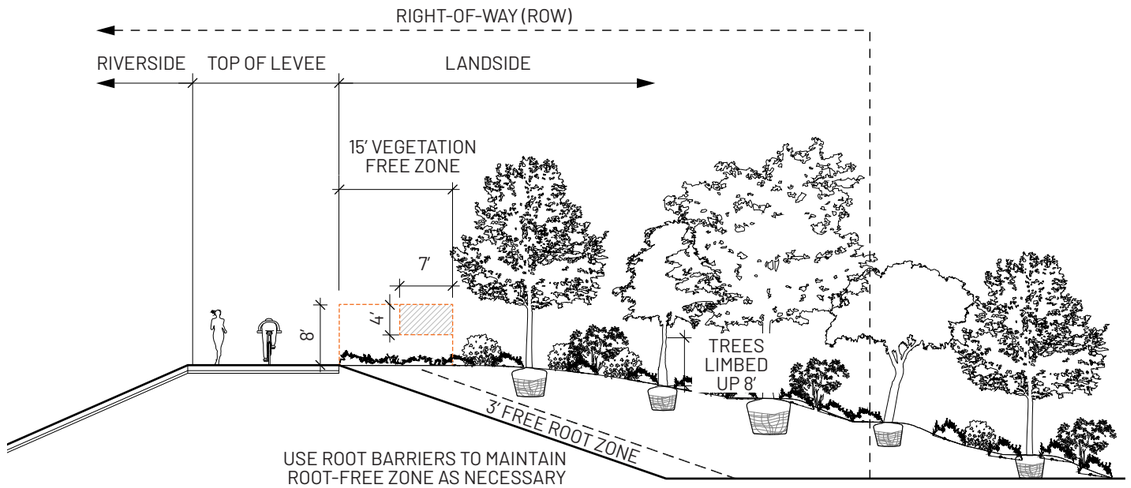
MULTI-USE TRAIL COMBINATIONS

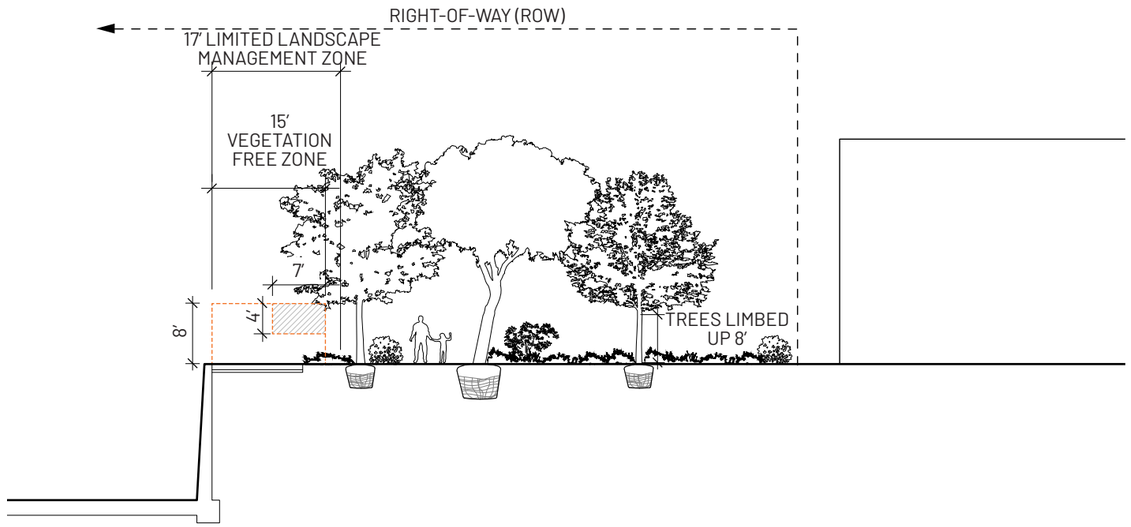


ECOLOGY, HABITAT, AND PLANTING

- PLANT LISTS:
  - SHORTLIST
  - ALLUVIAL FAN SAGE SCRUB
  - CHAPARRAL
  - COASTAL SAGE SCRUB
  - COAST LIVE OAK WOODLAND
  - CA WALNUT WOODLAND
  - VALLEY OAK WOODLAND
  - SYCAMORE RIPARIAN WOODLAND
  - COAST LIVE OAK FOREST
  - COTTONWOOD-WILLOW RIPARIAN FOREST
  - DESERT SCRUB
  - CLIMATE ADAPTED SHADE TREES

PLANTING ALONG LEVEES AND FLOODWALLS





BIODIVERSITY PROFILES - WILDLIFE OVERVIEW

BIRDS

Accipiter cooperii
Cooper's Hawk

Falco peregrinus anatum
Peregrine Falcon *

Bubo virginianus
Great Horned Owl

Melanerpes formicivorus
Acorn woodpecker

Aphelocoma californica
California Scrub-Jay

Dendroica petechia brewsteri
Yellow Warbler

Empidonax traillii
Willow Flycatcher *

Lanius ludovicianus
Loggerhead Shrike *

Melozone crissalis
California Towhee

Psaltriparus minimus
Bushtit

Sayornis nigricans
Black Phoebe

Ardea herodias
Great Blue Heron

Chlidonias niger
Black tern *

Megaceryle alcyon
Belted Kingfisher *

Himantopus mexicanus
Black-necked Stilt

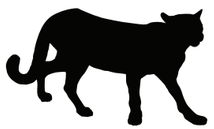
Sternula antillarum browni
California least tern *

MAMMALS

Canis latrans
Belted Kingfisher

Lynx rufus
Bobcat

Odocoileus hemionus
Mule deer



Puma concolor
Mountain Lion

Eumops perotis
Western Mastiff Bat *

Sciurus griseus
Western Gray Squirrel

Otospermophilus beecheyi
California Ground Squirrel

Thomomys bottae
Botta's Pocket Gopher

Perognathus longimembris brevinasus
Los Angeles Pocket Mouse *

FISH

Catostomus santaanae
Santa Ana Sucker *

Gila orcutti
Arroyo Chub *

REPTILES AND AMPHIBIANS

Actinemys marmorata; Western pond turtle *
Anaxyrus californicus; Arroyo Toad *
Bufo boreas; Western Toad *
Crotalus oreganus; Western rattlesnake
Ensatina eschscholtzii; Ensatina Salamander
Phrynosoma blainvillii; Blainville's Horned Lizard *
Pseudacris regilla; Pacific treefrog
Rana draytonii; California red-legged frog *
Sceloporus occidentalis; Western fence lizard
Taricha torosa; California Newt
Thamnophis hammondii; Two-Striped Garter Snake *

INSECTS

Anax junius; Green Darner
Danaus plexippus; Monarch butterfly
Dasymutilla sackenii; Golden Velvet Ant
Ephemeroptera Family; Mayflies
*Glaucopsyche lygdamus paloverdesensis; Palos Verdes Blue Butterfly **
Hydrophilidae Family; Scavenger Water Beetles
Leptotes marina; Marine Blue Butterfly
Papilio rutulus; Western Tiger Swallowtail Butterfly
Phryganidia californica; California Oak Moth
Pogonomyrmex californicus; California harvester ant
Schistocerca nitens; Gray Bird Grasshopper
Tenebrionidae Family; Darkling beetle
Xylocopa varipuncta; Valley Carpenter Bee

FACILITIES AND AMENITIES

RIVER PAVILIONS + CADENCE

Tier I (every .4-.6 miles)

- SHADED SEATING
- RIVER EDUCATION
- WATER FOUNTAIN
- EMERGENCY CALL BOX
- TRASH & RECYCLING

Tier II (every .8-1.2 miles)

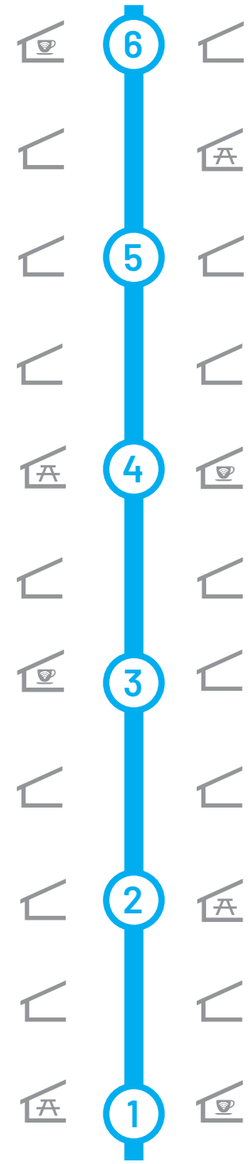
TIER I COMPONENTS, PLUS:

- BATHROOMS
- PICNIC AREA
- CHARGING STATION
- BICYCLE RACKS
- FIRST AID KIT
- OUTDOOR SHOWERS
- VENDING MACHINES

Tier III (every 2-3 miles)

TIER I AND II COMPONENTS, PLUS ONE OR MORE OF THE FOLLOWING:

- BIKE RENTAL/REPAIR
- INDOOR LOCKER ROOM AND SHOWERS
- PUBLIC SAFETY BOOTH / KIOSK
- MULTI-PURPOSE COMMUNITY ROOM
- COMMUNITY KITCHEN
- SPORTS EQUIPMENT RENTAL
- SPACE FOR FARMER'S MARKETS



Q & A AND DISCUSSION

Source: OLIN

PUBLIC COMMENT

Source: OLIN

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**

WRAP UP

Source: OLIN

Important Upcoming Dates:

- Pacoima Beautiful Summer Institute and Community Event - July 1, 2019
- SELA Arts Fest - July 27, 2019
- Steering Committee Meeting #7 - September 25, 2019
- Community Meeting - October 15, 2019
- Community Meeting - October 17, 2019

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

LARiverMasterPlan.org

APPENDIX

FLOOD RISK MANAGEMENT

LA River Level of Channel Protection[1] (40%)

River channel with protection below the 1% annual chance of exceedance have a higher need for flood risk reduction.

Floodplains[2] (40%)

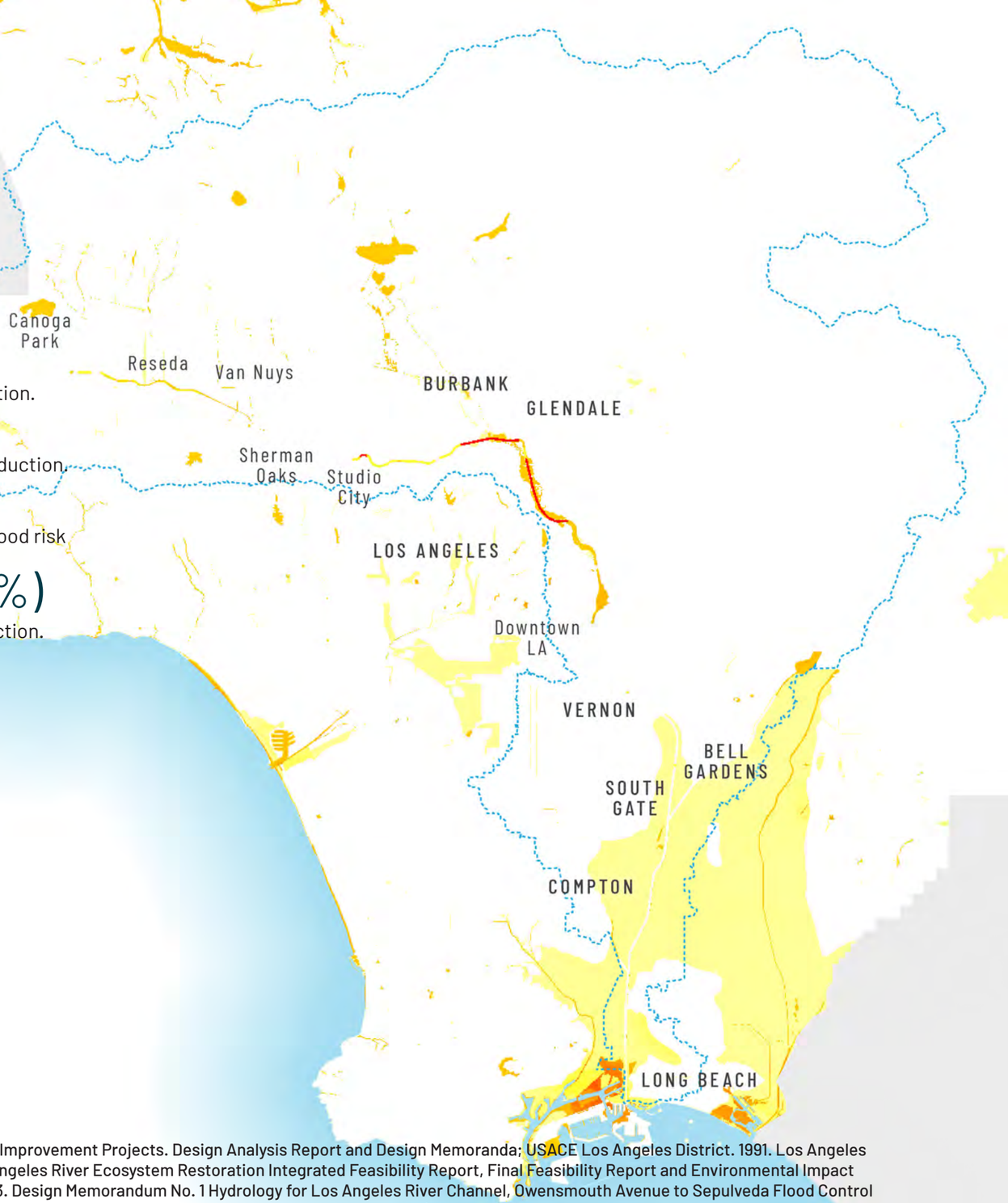
Where the river channel has a 1% or greater annual chance of exceedance, there is a higher need for flood risk reduction.

Sea Level Rise[3] (10%)

Areas subject to sea level rise, including approximately the lower 3 miles of the channel, have a higher need for flood risk reduction.

Critical Infrastructure and Facilities Density[4] (10%)

Floodplain areas with higher density of critical infrastructure and facilities have a higher need for flood risk reduction.



Footnotes:

1. U.S. Army Corps of Engineers (USACE) Los Angeles District. 1996a, 1996b, 1997a, 1997b, and 1999. Los Angeles County Drainage Area Improvement Projects. Design Analysis Report and Design Memoranda; USACE Los Angeles District. 1991. Los Angeles County Drainage Area (LACDA): Review, Part I Hydrology Technical Report: Base Conditions; USACE: Los Angeles District. 2015. 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; USACE. 1953. Design Memorandum No. 1 Hydrology for Los Angeles River Channel, Owensmouth Avenue to Sepulveda Flood Control Basin; Geosyntec analysis using HEC-RAS models (USACE Los Angeles District. 2005. Los Angeles County Drainage Area Upper Los Angeles River and Tujunga Wash HEC-RAS Hydraulic Models).
2. USACE Floodplain Management Services Special Study Los Angeles River Floodplain Analysis, October 2016; Los Angeles County GIS Data Portal, Flood Zones.
3. Sea Level Rise Tool, 1.41 meters Sea Level Rise Scenario, 2018. http://keystone.gisc.berkeley.edu/cec_gas_study_layers/South_coast
4. Los Angeles County GIS Data Portal, Points of Interest, 2016 & 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.

Source: Geosyntec, OLIN

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LA County Need Analysis:

High Need

Low Need

1-mile buffer

Footnotes:

1. U.S. Army Corps of Engineers (USACE) Los Angeles District. 1996a, 1996b, 1997a, 1997b, and 1999. Los Angeles County Drainage Area Improvement Projects. Design Analysis Report and Design Memoranda; USACE Los Angeles District. 1991. Los Angeles County Drainage Area (LACDA): Review, Part I Hydrology Technical Report: Base Conditions; USACE: Los Angeles District. 2015. 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; USACE. 1953. Design Memorandum No. 1 Hydrology for Los Angeles River Channel, Owensmouth Avenue to Sepulveda Flood Control Basin; Geosyntec analysis using HEC-RAS models (USACE Los Angeles District. 2005. Los Angeles County Drainage Area Upper Los Angeles River and Tujunga Wash HEC-RAS Hydraulic Models).
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Source: Geosyntec, OLIN

FLOOD RISK MANAGEMENT

Need Analysis:

High Need

Low Need

Flood Risk Management Need	=	LA River Level of Channel Protection[1] 40%	+	Floodplains[2] 40%	+	Sea Level Rise[3] 10%	+	Critical Infrastructure and Facility Density[4] 10%
								
Criteria Type:		LARMP Composite Metric		Existing Data		Existing Data		LARMP Composite Metric
Description:		Where the river channel has a 1% or greater annual chance of exceedance, there is a higher need for flood risk reduction.		Areas within the 1% floodplain have a higher need for flood risk reduction. Areas within the 0.2% annual chance of exceedance floodplain may also have a need for flood risk reduction.		Areas subject to sea level rise, including approximately the lower 3 miles of the channel, have a higher need for flood risk reduction.		Floodplain areas with higher density of critical infrastructure and facilities have a higher need for flood risk reduction.
Assessment:		High Need = 10% or worse protection Low Need = worse than 1% protection No Need = 1% or better protection, or non-channelized areas		High Need = 1% floodplain Low Need = 0.2% floodplain No Need = area not in a floodplain		High Need = maximum inundation Low Need = minimum inundation No Need = not within 1.41 m of sea level rise		High Need = high density Low Need = low density No Need =area not in a floodplain

Footnotes:

1. U.S. Army Corps of Engineers (USACE) Los Angeles District. 1996a, 1996b, 1997a, 1997b, and 1999. Los Angeles County Drainage Area Improvement Projects. Design Analysis Report and Design Memoranda; USACE Los Angeles District. 1991. Los Angeles County Drainage Area (LACDA): Review, Part I Hydrology Technical Report: Base Conditions; USACE: Los Angeles District. 2015. 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; USACE. 1953. Design Memorandum No. 1 Hydrology for Los Angeles River Channel, Owensmouth Avenue to Sepulveda Flood Control Basin; Geosyntec analysis using HEC-RAS models (USACE Los Angeles District. 2005. Los Angeles County Drainage Area Upper Los Angeles River and Tujunga Wash HEC-RAS Hydraulic Models).
2. USACE Floodplain Management Services Special Study Los Angeles River Floodplain Analysis, October 2016; Los Angeles County GIS Data Portal, Flood Zones.
3. Sea Level Rise Tool, 1.41 meters Sea Level Rise Scenario, 2018. http://keystone.gisc.berkeley.edu/cec_gas_study_layers/South_coast
4. Los Angeles County GIS Data Portal, Points of Interest, 2016 & 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.

Source: Geosyntec, OLIN

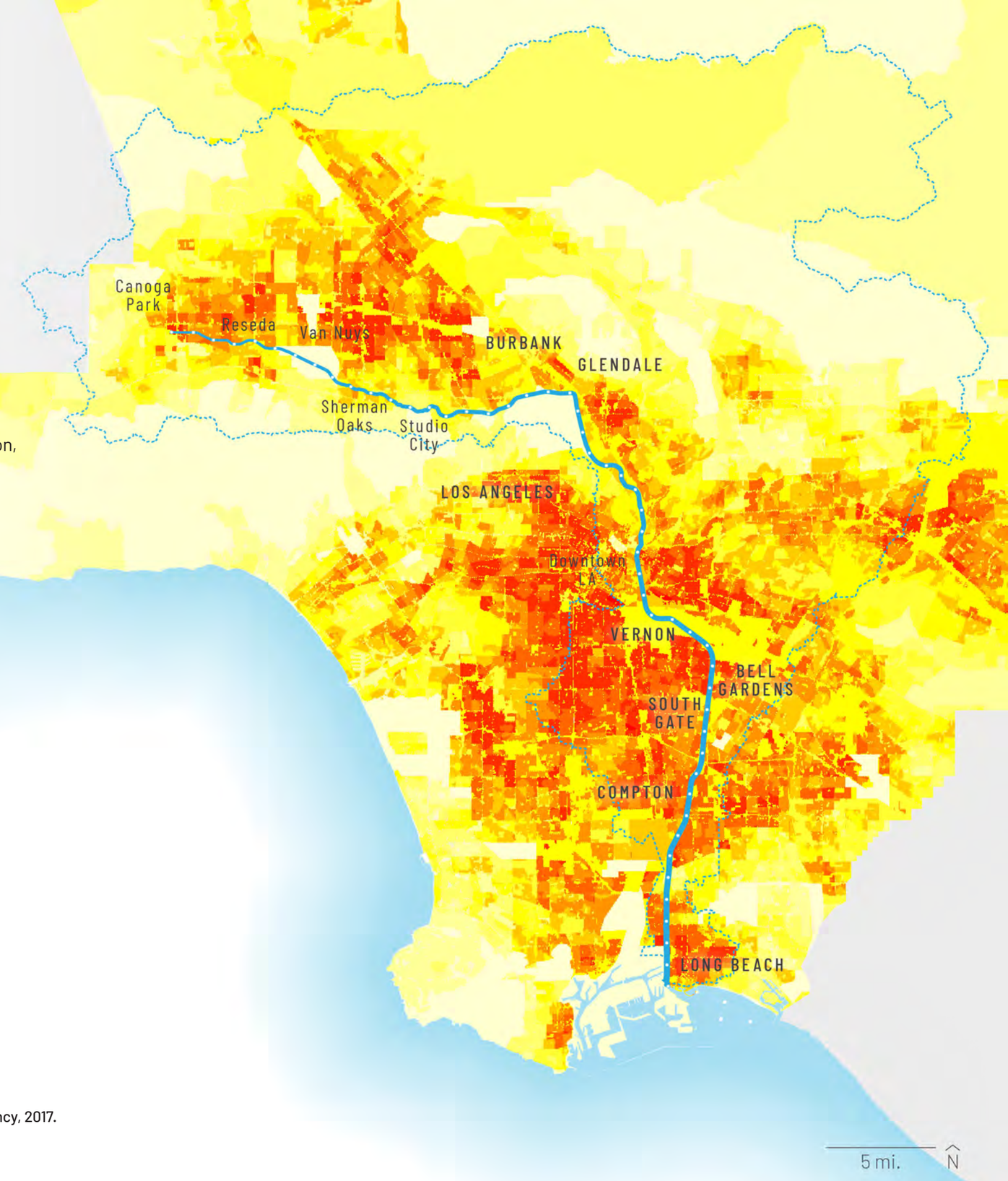
PARKS

Parks Needs Assessment[1] (50%)

Park Need was evaluated by examining park acre need, distance to park, and population density within each study area. A higher park need assessment resulted in a higher park need.

CalEnviroScreen[2] (50%)

CalEnviroScreen is a science-based dataset identifying California communities affected by pollution, and vulnerable to pollution's effects. A higher percentage score resulted in a higher park need.



LA County Need Analysis:

High Need

Low Need

Footnotes:
1. Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016.
2. CalEnviroScreen 3.0, Office of Environmental Health Hazard Assessment, California Environmental Protection Agency, 2017.

Source: OLIN

PARKS

Parks Needs Assessment[1] (50%)

Park Need was evaluated by examining park acre need, distance to park, and population density within each study area. A higher park need assessment resulted in a higher park need.

CalEnviroScreen[2] (50%)

CalEnviroScreen is a science-based dataset identifying California communities affected by pollution, and vulnerable to pollution's effects. A higher percentage score resulted in a higher park need.

LA County Need Analysis:

High Need

Low Need

1-mile buffer

Footnotes:
1. Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016.
2. CalEnviroScreen 3.0, Office of Environmental Health Hazard Assessment, California Environmental Protection Agency, 2017.

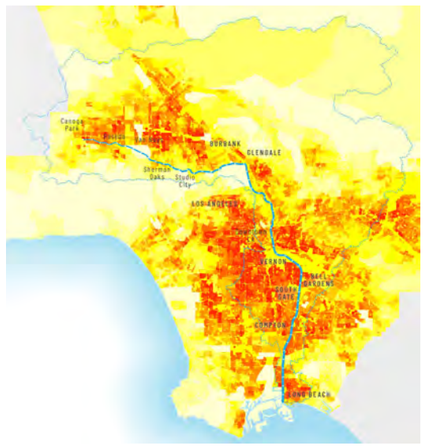
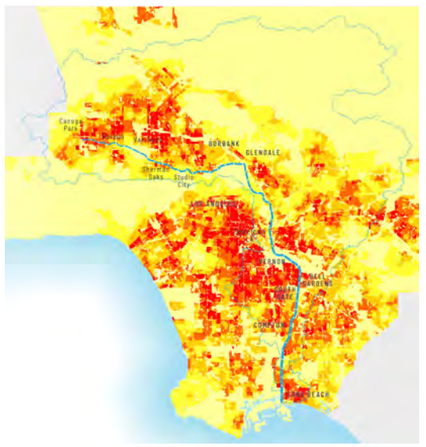
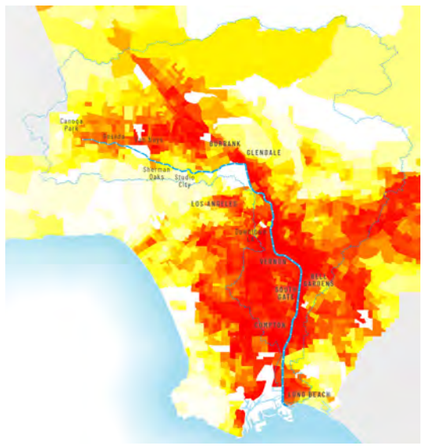
Source: OLIN

PARKS

Need Analysis:

High Need

Low Need

Parks Need		Countywide Park Need Assessment[1]	**50%**	CalEnviroScreen[2]	**50%**
	=		+		
Criteria Type:		LA County Composite Dataset		State of California Composite Dataset	
Description:		Park Need was evaluated by examining park acre need, distance to park, and population density within each study area.		CalEnviroScreen is a science-based dataset identifying California communities affected by pollution, and vulnerable to pollution's effects.	
Assessment:		High Need = very high score Low Need = very low score No Need = no value (not participating)		"High Need = 100% score Low Need = 0% score No Need = no value	

Footnotes:
1. Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment, 2016.
2. CalEnviroScreen 3.0, Office of Environmental Health Hazard Assessment, California Environmental Protection Agency, 2017.

Source: OLIN

ECOSYSTEMS

Habitat Areas[1] (50%)

CALVEG Regional Dominance types were used to classify existing areas as predominantly urban/ barren (lowest need), invasive vegetation (medium need), or native/natural habitat areas (high need).

Habitat Areas Buffer[2] (20%)

Areas closest to existing protected habitat areas that could help further buffer core protected habitat areas received a higher need designation.

Linkages and Confluences[3] (15%)

Missing linkages are areas without connectivity, but based on location are critical. Tributaries and confluences can also provide connectivity. Areas near linkages received a higher need designation.

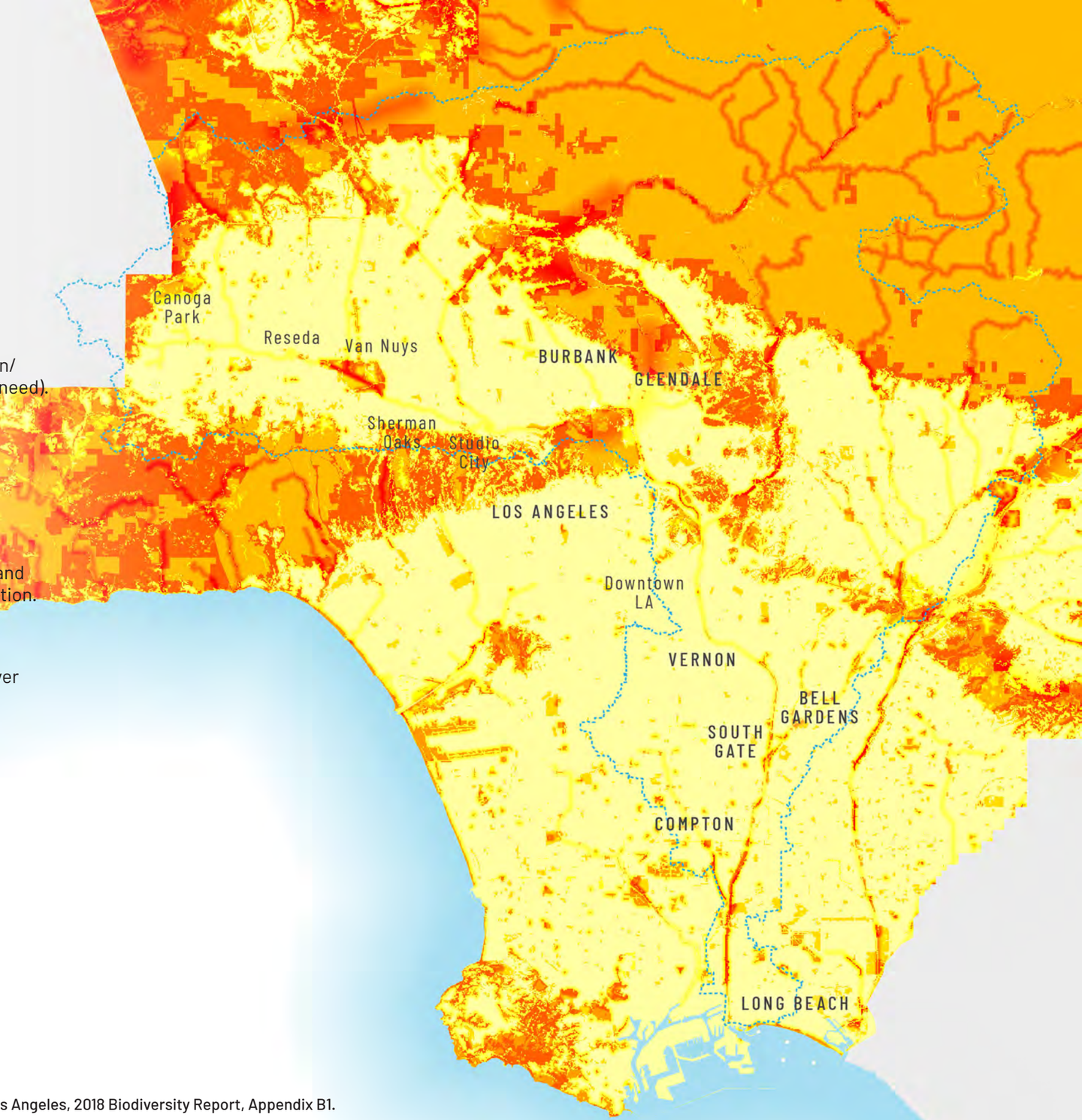
Unprotected Areas[4] (15%)

Unprotected areas are vulnerable to development and are less likely to sustain habitat areas over time. Ecosystems that are in areas that are unprotected have high need.

LA County Need Analysis:

High Need

Low Need



Footnotes:
1. USDA Forest Service, CALVEG, Existing Vegetation: Region 5 - South Coast. Classifications based on City of Los Angeles, 2018 Biodiversity Report, Appendix B1.
2. California Protected Areas Database, California Natural Resources Agency Open Data, 2017.
3. South Coast Missing Linkages Project, South Coast Wildlands, 2008; LA River Tributaries, Geosyntec, 2016.
4. California Protected Areas Database,

Source: OLIN

ECOSYSTEMS

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Unprotected Areas[4] (15%)

Unprotected areas are vulnerable to development and are less likely to sustain habitat areas over time. Ecosystems that are in areas that are unprotected have high need.

LA County Need Analysis:

High Need

Low Need

1-mile buffer

Footnotes:
1. USDA Forest Service, CALVEG, Existing Vegetation: Region 5 - South Coast. Classifications based on City of Los Angeles, 2018 Biodiversity Report, Appendix B1.
2. California Protected Areas Database, California Natural Resources Agency Open Data, 2017.
3. South Coast Missing Linkages Project, South Coast Wildlands, 2008; LA River Tributaries, Geosyntec, 2016.
4. California Protected Areas Database,

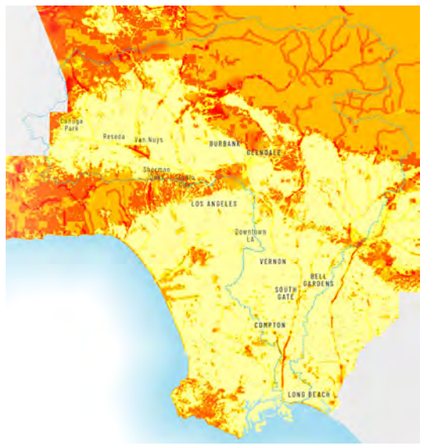
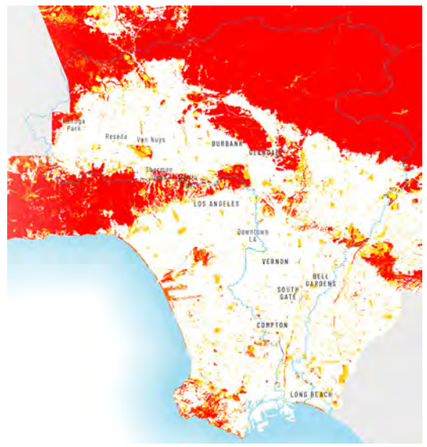
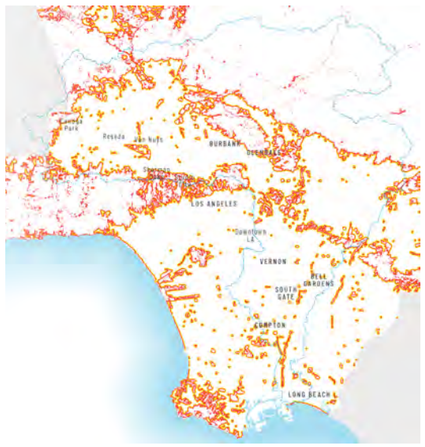
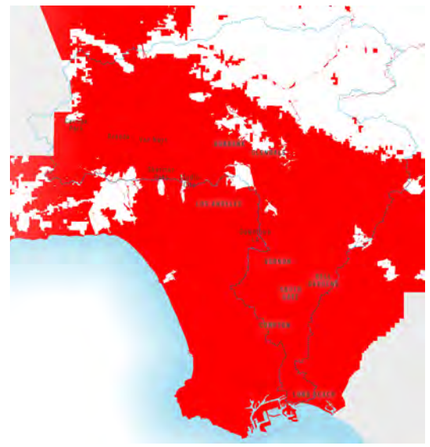
Source: OLIN

ECOSYSTEMS

Need Analysis:

High Need

Low Need

Ecosystems Need	=	Habitat Areas[1] **50%**	+	Habitat Areas Buffers[2] **20%**	+	Linkages and Confluences[3] **15%**	+	Unprotected Areas[4] **15%**
								
Criteria Type:		State of California / LARMP Data		LARMP Data		State of California / LARMP Data		Existing Data
Description:		CALVEG Regional Dominance types were used to classify existing areas as predominantly urban/barren, invasive vegetation, or native/natural (habitat areas).		Areas closest to existing protected habitat areas that could help further buffer core protected habitat areas.		Missing linkages are areas without connectivity, but based on location are critical. Tributaries and confluences can also provide species connectivity.		Unprotected areas are vulnerable to development and are less likely to sustain habitat areas over time. Ecosystems that are in areas that are unprotected have high need.
Assessment:		Highest Need = (native/natural)* Low Need = (agriculture/barren)		Highest Need = 1 ft area buffer* Low Need = <1000 ft area buffer*		Highest Need = missing linkage, tributary, confluence* Low Need = <5000 ft linkage buffer*		Highest Need = unprotected area Low Need = protected area

Footnotes:
1. USDA Forest Service, CALVEG, Existing Vegetation: Region 5 - South Coast. Classifications based on City of Los Angeles, 2018 Biodiversity Report, Appendix B1.
2. California Protected Areas Database, California Natural Resources Agency Open Data, 2017.
3. South Coast Missing Linkages Project, South Coast Wildlands, 2008; LA River Tributaries, Geosyntec, 2016.
4. California Protected Areas Database,

Source: OLIN

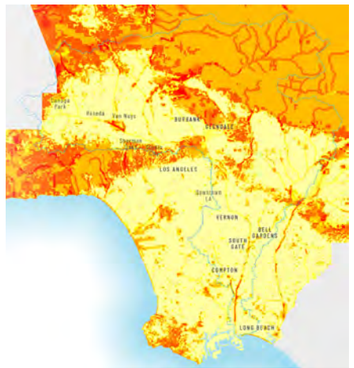
ECOSYSTEMS

Need Analysis:

High Need

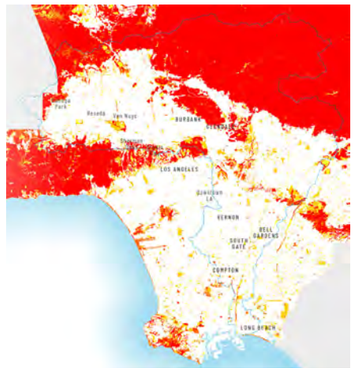
Low Need

Ecosystems Need



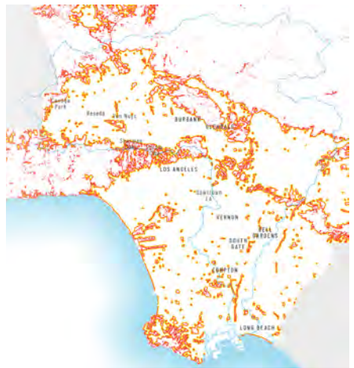
=

Habitat Areas[1] **50%**



+

Habitat Areas Buffers[2] **20%**

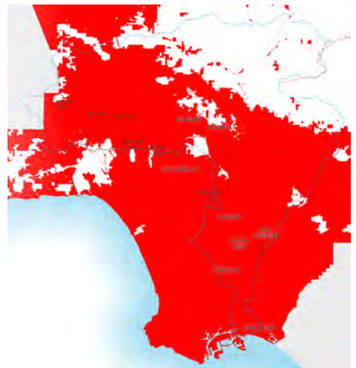


+

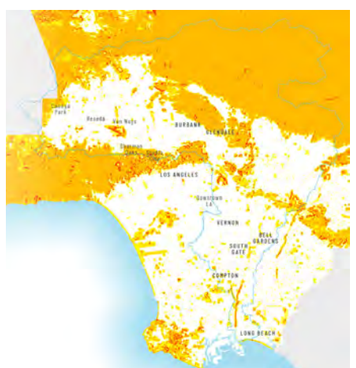
Linkages and Confluences[3] **15%**

+

Unprotected Areas[4] **15%**



Habitat Areas[1] & Habitat Areas Buffers[2] **70%**



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Linkages & Confluences[3] Unprotected Areas[4] **30%**

Footnotes:
1. USDA Forest Service, CALVEG, Existing Vegetation: Region 5 - South Coast. Classifications based on City of Los Angeles, 2018 Biodiversity Report, Appendix B1.
2. California Protected Areas Database, California Natural Resources Agency Open Data, 2017.
3. South Coast Missing Linkages Project, South Coast Wildlands, 2008; LA River Tributaries, Geosyntec, 2016.
4. California Protected Areas Database, 2017.

Source: OLIN

ACCESS

River Trail Gaps[1] (30%)

Locations on either bank of the LA River that do not currently have a continuous publicly available trail. Areas without an existing river trail or a proposed river trail have a higher need for access and trails.

River Trail Access Points[2] (30%)

Areas greater than a half mile from an existing river trail access points have a higher need for access and trails.

Adjacent Trails[3] (20%)

Connecting to adjacent trails improves access to the LA River and regional connectivity. Areas without adjacent trails have a higher need.

Health Composite[4] (10%)

Trails also provide recreation, exercise, and open space, which can improve health outcomes. Areas with a higher health composite score (poorer health conditions) have a higher need for access and trails.

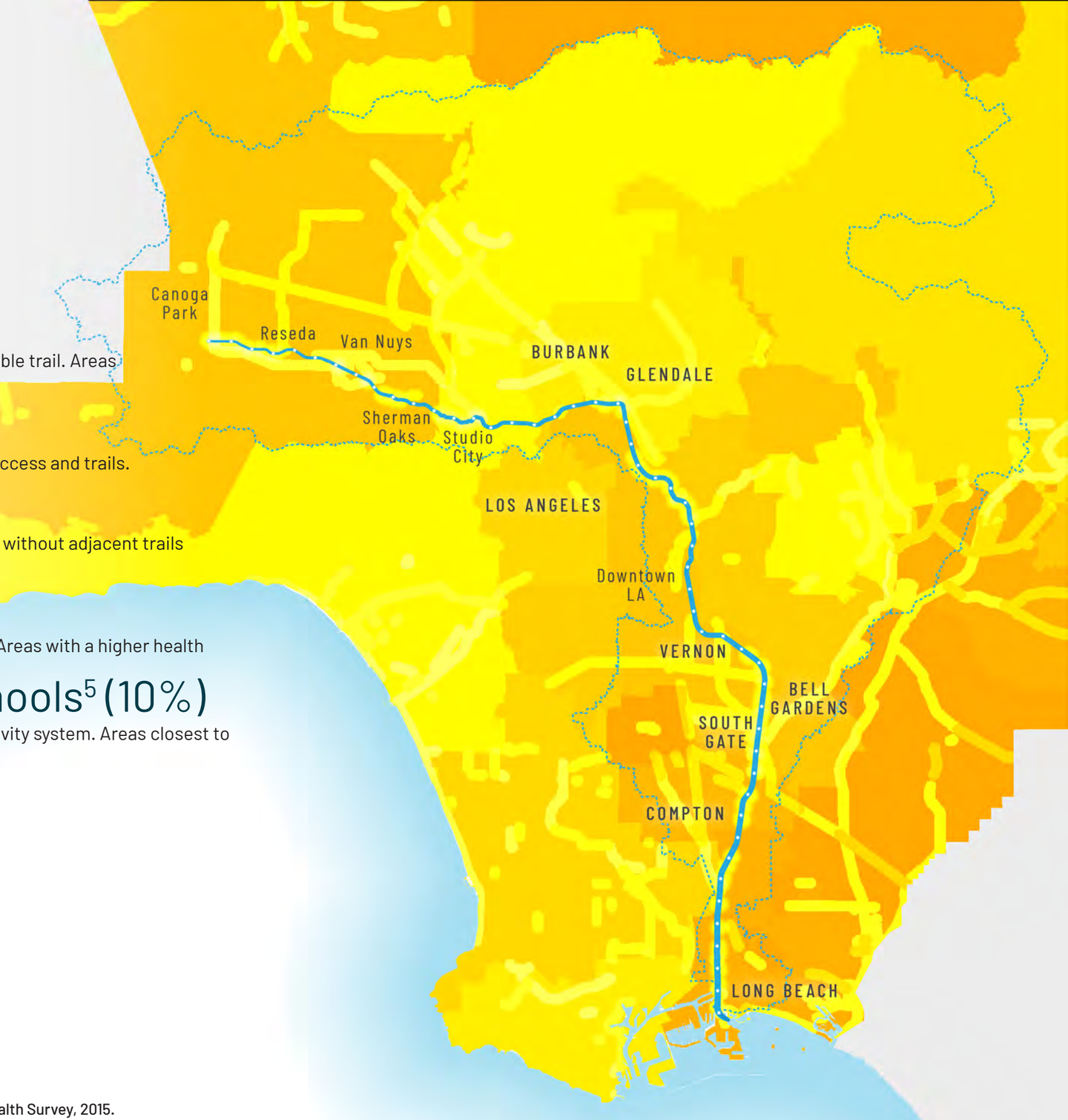
Proximity to Metro Stops, Parks, and Schools[5] (10%)

Connecting important public facilities to the LA River is vital for ensuring an effective connectivity system. Areas closest to existing Metro stops, parks, and schools have a higher need for access and trails.

LA County Need Analysis:

High Need

Low Need



Footnotes:
1. OLIN, Modified from City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018.
2. OLIN, Modified from City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018.
3. Los Angeles GIS Dataportal, Department of Parks and Recreation Trails, 2015.
4. Health composite compiled from the Los Angeles County Department of Public Health Los Angeles County Health Survey, 2015.
5. LA Metro's Active Transportation Strategic Plan Online Data Portal, 2014; Los Angeles County GIS Dataportal, Countywide Parks and Open Space layer, 2016; Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016.

Source: OLIN

ACCESS

River Trail Gaps[1] (30%)

Locations on either bank of the LA River that do not currently have a continuous publicly available trail. Areas without an existing river trail or a proposed river trail have a higher need for access and trails.

River Trail Access Points[2] (30%)

Areas greater than a half mile from an existing river trail access points have a higher need for access and trails.

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Proximity to Metro Stops, Parks, and Schools[5] (10%)

Connecting important public facilities to the LA River is vital for ensuring an effective connectivity system. Areas closest to existing Metro stops, parks, and schools have a higher need for access and trails.

LA County Need Analysis:

High Need

Low Need

1-mile buffer

Footnotes:
1. OLIN, Modified from City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018.
2. OLIN, Modified from City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018.
3. Los Angeles GIS Dataportal, Department of Parks and Recreation Trails, 2015.
4. Health composite compiled from the Los Angeles County Department of Public Health Los Angeles County Health Survey, 2015.
5. LA Metro's Active Transportation Strategic Plan Online Data Portal, 2014; Los Angeles County GIS Dataportal, Countywide Parks and Open Space layer, 2016; Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016.

Source: OLIN

ACCESS

Need Analysis:

High Need

Low Need

Access Need		River Trail Gaps[1] **30%**		River Trail Access Point Gaps[2] **30%**		Adjacent Trail Gaps[3] **20%**		Health Composite[4] **10%**		Proximity to Metro Stops, Parks, & Schools[5] **10%**
	=		+		+		+		+	
Criteria Type:		City of Los Angeles/ LARMP Data		City of Los Angeles / LARMP Data		Los Angeles County Data		Los Angeles County / LARMP Data		Los Angeles County / LARMP Data
Description:		Locations on either bank of the river without a trail. Areas without a river trail or a proposed river trail have a higher need for access and trails.		Areas greater than a half mile from an existing river trail access points have a higher need for access and trails.		Connecting to adjacent trails improves access to the LA River and regional connectivity. Areas without adjacent trails have a higher need.		Trails also provide recreation, exercise, and open space, which can improve health outcomes. Areas with a higher health composite score (poorer health conditions) have a higher need for access and trails.		Connecting public facilities to the LA River is vital for ensuring an effective connectivity system. Areas closest to existing Metro stops, parks, and schools have a higher need for access and trails.
Assessment:		High Need = no existing river trail* Low Need = existing river trail		High Need = >half a mile from a river trail access point Low Need = adjacent to a mile from a river trail access point		High Need = no existing trail within 1/4 mile Low Need = existing trail within a 1/4 mile		High Need = high health composite score Low Need = low health composite score		High Need = <half a mile from a Metro stop, park, or school Low Need = >half a mile from a Metro stop, park, or school

Footnotes:
1. OLIN, Modified from City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018.
2. OLIN, Modified from City of Los Angeles, LA River Greenway, LA River Access and Points of Interest, 2018.
3. Los Angeles GIS Dataportal, Department of Parks and Recreation Trails, 2015.
4. Health composite compiled from the Los Angeles County Department of Public Health Los Angeles County Health Survey, 2015.
5. LA Metro's Active Transportation Strategic Plan Online Data Portal, 2014; Los Angeles County GIS Dataportal, Countywide Parks and Open Space layer, 2016; Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016.

Source: OLIN

ARTS & CULTURE

Arts & Culture Asset Density[1] (33%)

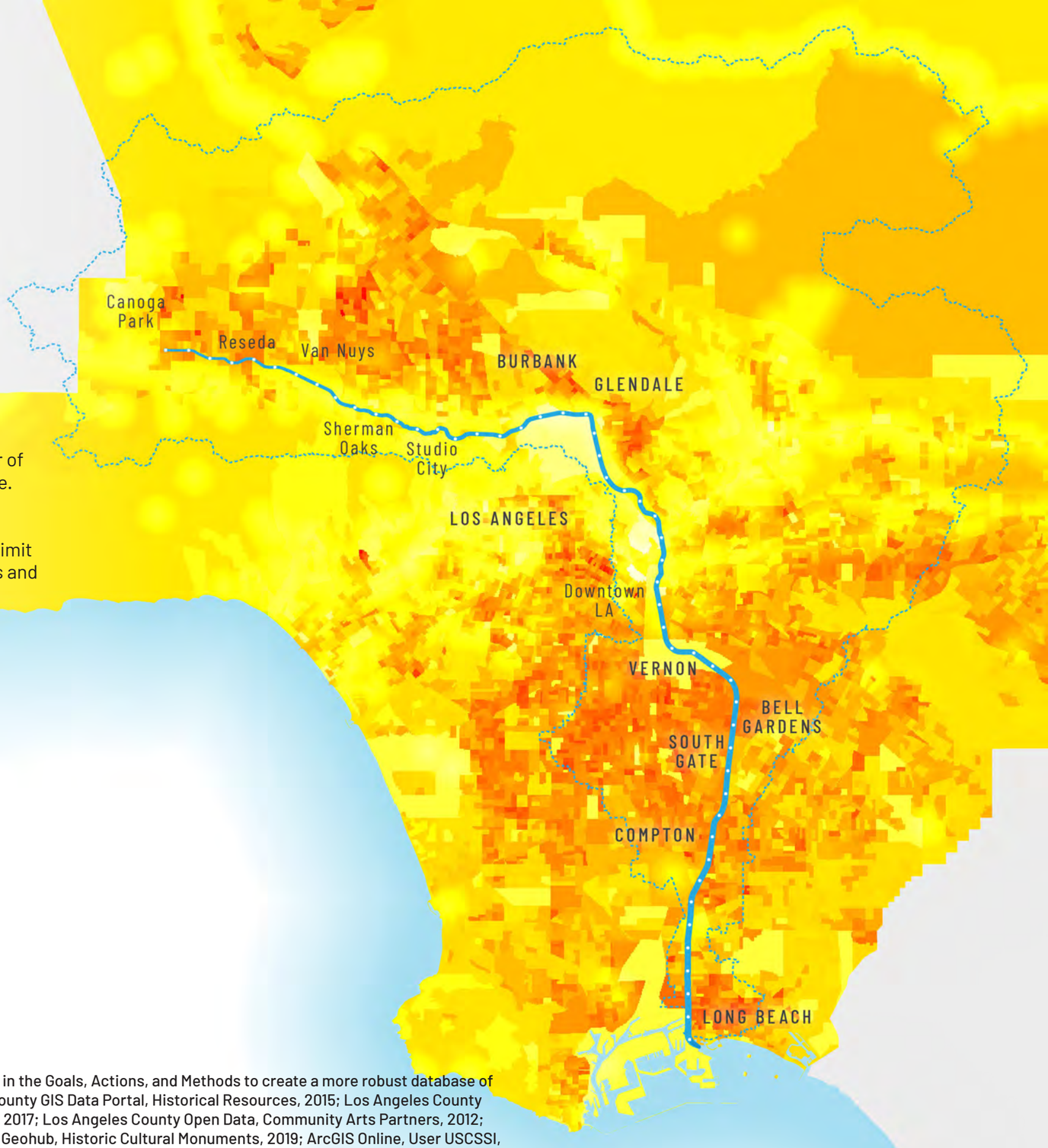
Given the lack of detail about the size of specific assets, the relative density of assets was assessed. Areas with a lower density of assets have higher need for arts and culture.

Population Density[2] (33%)

Population density was used compare the relative number of assets in a given location to the number of people at that location. Areas with a higher population density have a higher need for arts and culture.

Household Income[2] (33%)

Household Income was used to further identify areas where a household's financial constraints may limit access to art and cultural facilities. Areas with a lower household income have a higher need for arts and culture.



LA County Need Analysis:

High Need

Low Need

Footnotes:

1. Asset Mapping is known to be incomplete based on currently available data sources. Future efforts are recommended in the Goals, Actions, and Methods to create a more robust database of arts and cultural resources. Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016; Los Angeles County GIS Data Portal, Historical Resources, 2015; 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 USCSSI, Los Angeles Murals, 2018.
2. U.S. Census Bureau 2012-2016 American Community Survey 5-Year Estimates.

Source: OLIN

ARTS & CULTURE

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Given the lack of detail about the size of specific assets, the relative density of assets was assessed. Areas with a lower density of assets have higher need for arts and culture.

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Household Income[2] (33%)

Household Income was used to further identify areas where a household's financial constraints may limit access to art and cultural facilities. Areas with a lower household income have a higher need for arts and culture.

LA County Need Analysis:

High Need

Low Need

1-mile buffer

Footnotes:

1. Asset Mapping is known to be incomplete based on currently available data sources. Future efforts are recommended in the Goals, Actions, and Methods to create a more robust database of arts and cultural resources. Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016; Los Angeles County GIS Data Portal, Historical Resources, 2015; 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 USCSSI, Los Angeles Murals, 2018.
2. U.S. Census Bureau 2012–2016 American Community Survey 5-Year Estimates.

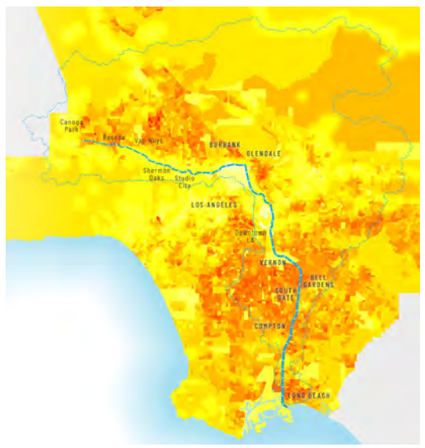
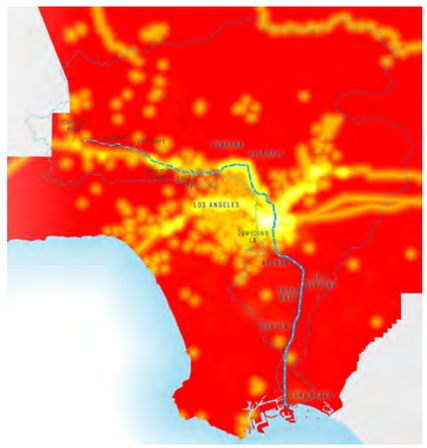
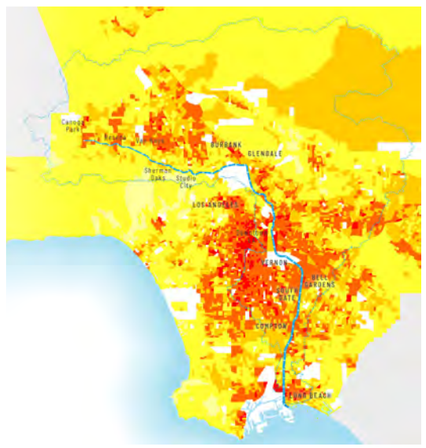
Source: OLIN

ARTS & CULTURE

Need Analysis:

High Need

Low Need

Arts & Culture Need	=	Arts & Culture Asset Density[1] **33.3%**	+	Population Density[2] **33.3%**	+	Household Income[3] **33.3%**
						
Criteria Type:		LARMP Composite Dataset		U.S. Census Bureau Data		U.S. Census Bureau Data
Description:		Given the lack of detail about the size of specific assets, the relative density of assets was used to evaluate areas with a relatively low density of assets.		Population density was used compare the relative number of assets in a given location to the number of people at that location.		Household Income was used to identify areas where a household's financial constraints may limit access to art and cultural facilities.
Assessment:		Highest Need = low density of assets Low Need = high density of assets		Highest Need = high density Low Need = low density		Highest Need = low income Low Need = high income

Footnotes:
1. Asset Mapping is known to be incomplete based on currently available data sources. Future efforts are recommended in the Goals, Actions, and Methods to create a more robust database of arts and cultural resources. Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016; Los Angeles County GIS Data Portal, Historical Resources, 2015; 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 USCSSI, Los Angeles Murals, 2018.
2. U.S. Census Bureau 2012–2016 American Community Survey 5-Year Estimates.

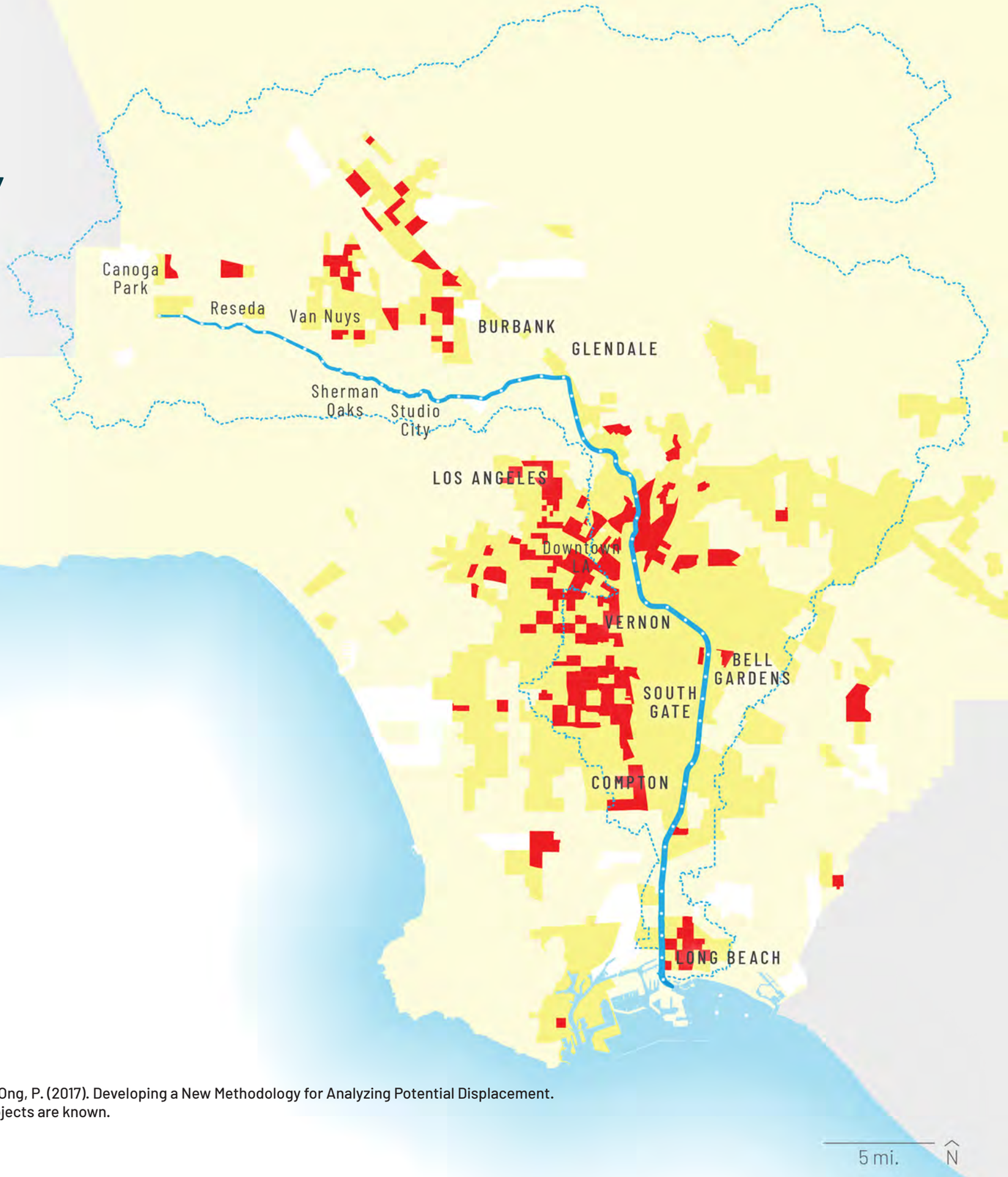
Source: OLIN

APPENDIX

HOUSING AFFORDABILITY

Displacement Index[1,2] (100%)

The Displacement Index combines a variety of socioeconomic indicators to measure the risk of displacement and was developed based on research by the Urban Displacement Project. A higher risk of displacement means there is likely a higher need for housing affordability improvements.



LA County Need Analysis:

High Need

Low Need

Footnotes:
1. 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. This map should be referenced to determine appropriate housing strategies after sites for infrastructure or parks projects are known.

Source: Street Level Advisors, OLIN

HOUSING AFFORDABILITY

Displacement Index[1,2] (100%)

The Displacement Index combines a variety of socioeconomic indicators to measure the risk of displacement and was developed based on research by the Urban Displacement Project. A higher risk of displacement means there is likely a higher need for housing affordability improvements.

LA County Need Analysis:

High Need

Low Need

1-mile buffer

Footnotes:
1. 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. This map should be referenced to determine appropriate housing strategies after sites for infrastructure or parks projects are known.

Source: Street Level Advisors, OLIN

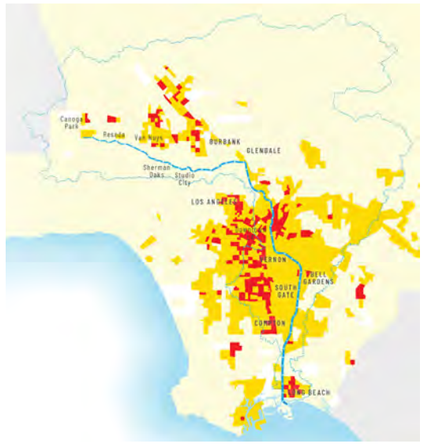
HOUSING AFFORDABILITY

Need Analysis:

High Need

Low Need

Housing Affordability Need



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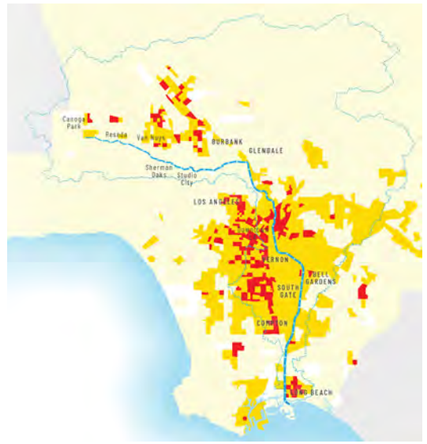
Displacement Index[1,2]



100%

Source Type: LARMP Composite Metric

Description: Combines a variety of socioeconomic indicators to measure the risk of displacement based on research by the Urban Displacement Project.

Assessment:
Highest Need = ongoing displacement / at risk of displacement
Low Need = lower risk of displacement / not vulnerable

Footnotes:
1. 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. This map should be referenced to determine appropriate housing strategies after sites for infrastructure or parks projects are known.

Source: Street Level Advisors, OLIN

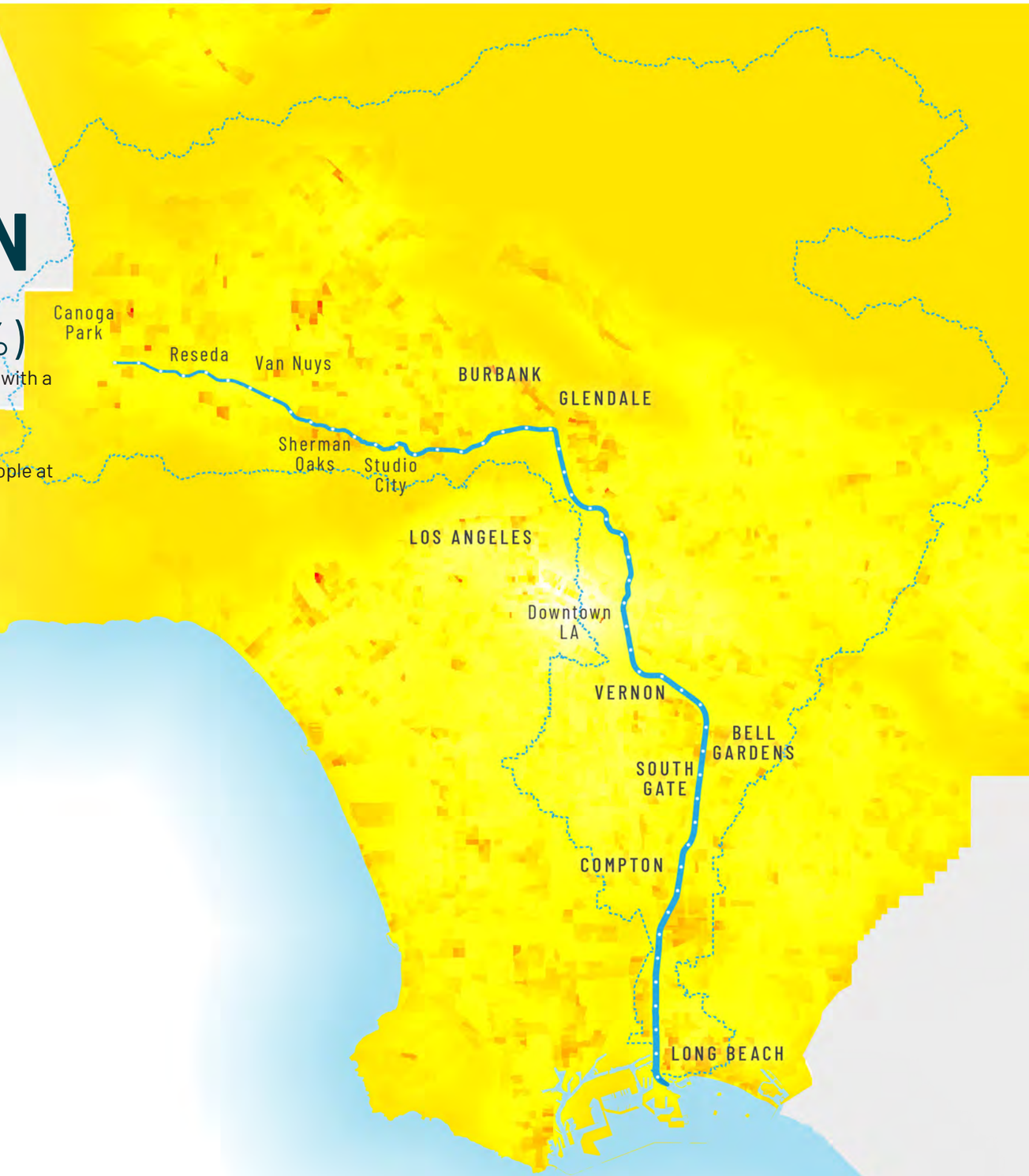
ENGAGEMENT & EDUCATION

Engagement & Education Asset Density [1] (50%)

Given the lack of detail about the size of specific assets, the relative density of assets was assessed. Areas with a lower density of assets have higher need for engagement and education.

Population Density [2] (50%)

Population density was used compare the relative number of assets in a given location to the number of people at that location. Areas with a higher population density have a higher need for arts and culture.



LA County Need Analysis:

High Need

Low Need

Footnotes:
1. Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016.
2. U.S. Census Bureau 2012–2016 American Community Survey 5-Year Estimates.

Source: OLIN

ENGAGEMENT & EDUCATION

Engagement & Education Asset Density [1] (50%)

Given the lack of detail about the size of specific assets, the relative density of assets was assessed. Areas with a lower density of assets have higher need for engagement and education.

Population Density [2] (50%)

Population density was used compare the relative number of assets in a given location to the number of people at that location. Areas with a higher population density have a higher need for arts and culture.

LA County Need Analysis:

High Need

Low Need

1-mile buffer

Footnotes:
1. Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016.
2. U.S. Census Bureau 2012–2016 American Community Survey 5-Year Estimates.

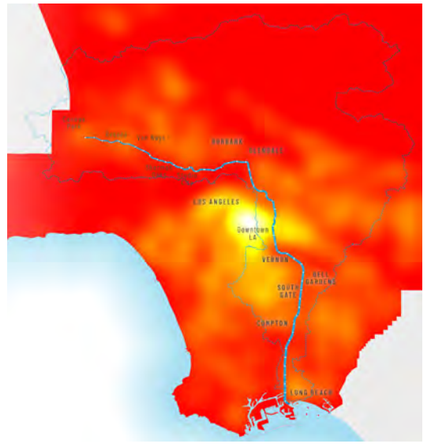
Source: OLIN

ENGAGEMENT & EDUCATION

Need Analysis:

High Need

Low Need

	Engagement & Education Need	Engagement & Education Asset Density[1] **37.5%**	Population Density[2] **12.5%**
		= 	+ 
Source Type:		LARMP Composite Dataset	U.S. Census Bureau Data
Description:		Given the lack of detail about the size of specific assets, the relative density of assets was assessed.	Population density was used to compare the relative number of assets in a given location to the number of people at that location.
Assessment:		Highest Need = low density of assets Low Need = high density of assets	Highest Need = high density Low Need = low density

Footnotes:
1. Los Angeles County GIS Data Portal, LA County Points of Interest Data, 2016.
2. U.S. Census Bureau 2012–2016 American Community Survey 5-Year Estimates.

Source: OLIN

WATER SUPPLY

Habitat & Recreation Beneficial Uses[1] (33%)

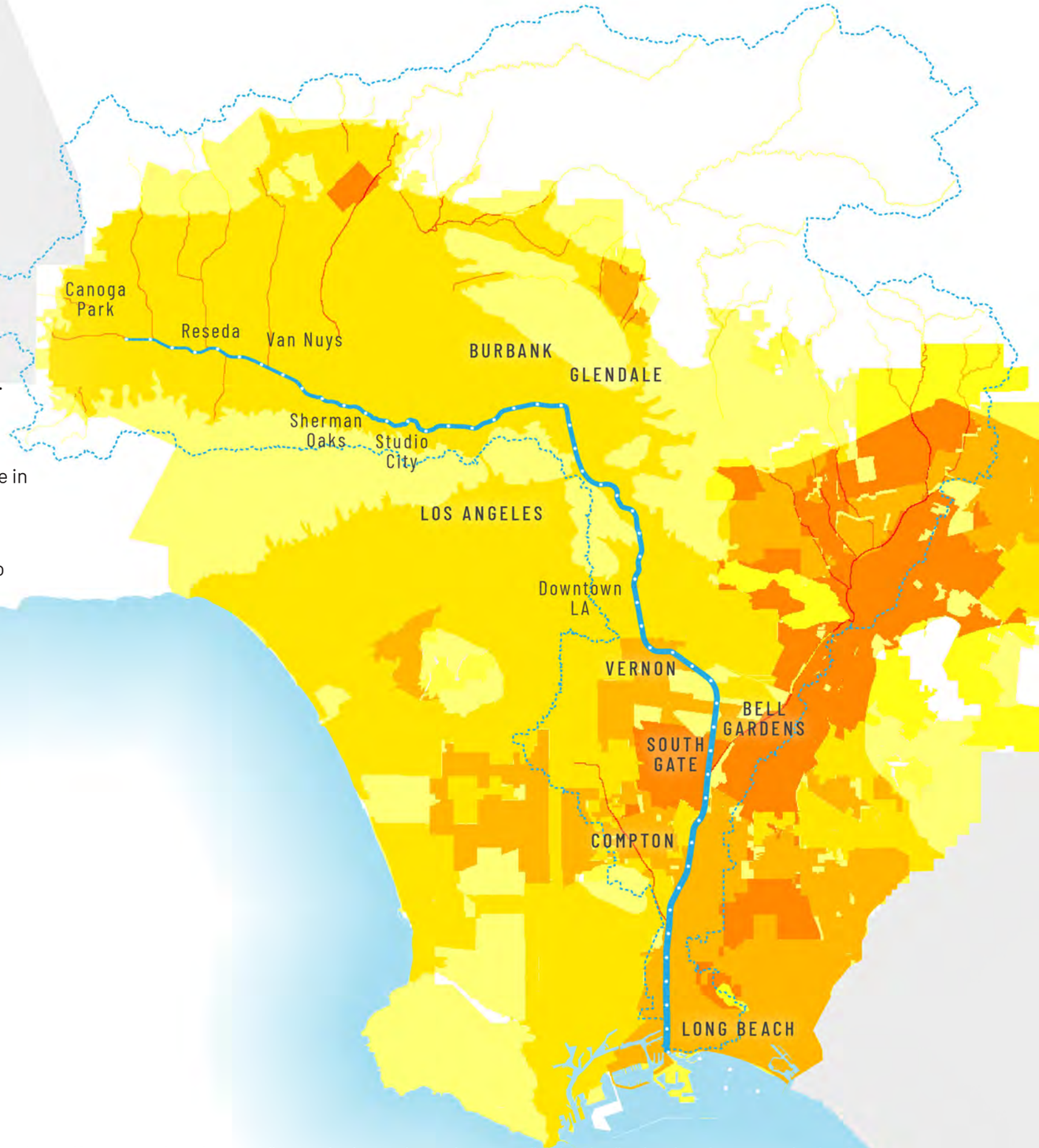
The occurrences of Beneficial Uses related to Recreation or Habitat were identified within streams in the LA River watershed, including the mainstem, in order to indicate where in-channel water supply is needed.

Percent Groundwater Supply[2] (33%)

Urban Water Management Plans prepared by water suppliers in LA County report the sources of water supplied, including groundwater. Areas with groundwater sourcing a significant portion of water supply are in high need of consistent replenishment of groundwater replenishment supply.

Groundwater Basins[3] (33%)

Locations overlaying groundwater basins have need for additional replenishment of groundwater basins to enhance municipal water supply.



LA County Need Analysis:

High Need

Low Need

Footnotes:
1. Los Angeles Regional Water Quality Control Board, Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties. https://www.waterboards.ca.gov/losangeles/water_issues/programs/basin_plan/basin_plan_documentation.html
2. UCLA Water Hub. Water Sources Map. http://waterhub.ucla.edu/watersources.html
3. Olin, Geosyntec

Source: Geosyntec, OLIN

WATER SUPPLY

Habitat & Recreation Beneficial Uses[1] (33%)

The occurrences of Beneficial Uses related to Recreation or Habitat were identified within streams in the LA River watershed, including the mainstem, in order to indicate where in-channel water supply is needed.

Percent Groundwater Supply[2] (33%)

Urban Water Management Plans prepared by water suppliers in LA County report the sources of water supplied, including groundwater. Areas with groundwater sourcing a significant portion of water supply are in high need of consistent replenishment of groundwater replenishment supply.

Groundwater Basins[3] (33%)

Locations overlaying groundwater basins have need for additional replenishment of groundwater basins to enhance municipal water supply.

LA County Need Analysis:

High Need

Low Need

1-mile buffer

Footnotes:
1. Los Angeles Regional Water Quality Control Board, Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties. https://www.waterboards.ca.gov/losangeles/water_issues/programs/basin_plan/basin_plan_documentation.html
2. UCLA Water Hub. Water Sources Map. http://waterhub.ucla.edu/watersources.html
3. OLIN, Geosyntec

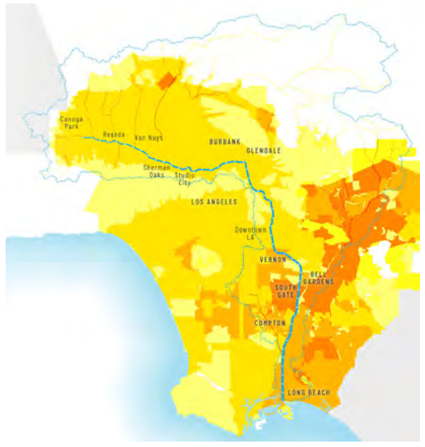
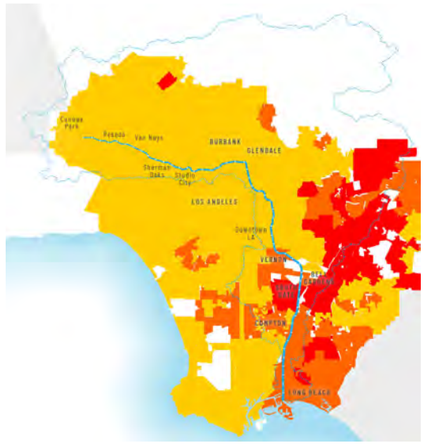
Source: Geosyntec, OLIN

WATER SUPPLY

Need Analysis:

High Need

Low Need

Water Supply Need	=	Habitat & Recreation Beneficial Uses[1] **33.3%**	+	Percent Groundwater Supply[2] **33.3%**	+	Groundwater Basins[3] **33.3%**
						
Criteria Type:		LARMP Composite Dataset		Existing Composite Data		LARMP Data
Description:		The occurrences of Beneficial Uses related to Recreation or Habitat were identified in order to indicate where in-channel water supply is needed.		Areas with groundwater sourcing a significant portion of water supply are in high need of consistent replenishment of groundwater replenishment supply.		Locations overlaying groundwater basins have need for additional replenishment of groundwater basins to enhance municipal water supply.
Assessment:		Highest Need = recreation and habitat beneficial use Low Need = no recreation or habitat beneficial Use		Highest Need = > 90% groundwater Low Need = < 10% groundwater		Highest Need = areas over groundwater basins Low Need = areas not over groundwater basins

Footnotes:
1. Los Angeles Regional Water Quality Control Board, Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties. https://www.waterboards.ca.gov/losangeles/water_issues/programs/basin_plan/basin_plan_documentation.html
2. UCLA Water Hub. Water Sources Map. http://waterhub.ucla.edu/watersources.html
3. OLIN, Geosyntec

Source: Geosyntec, OLIN

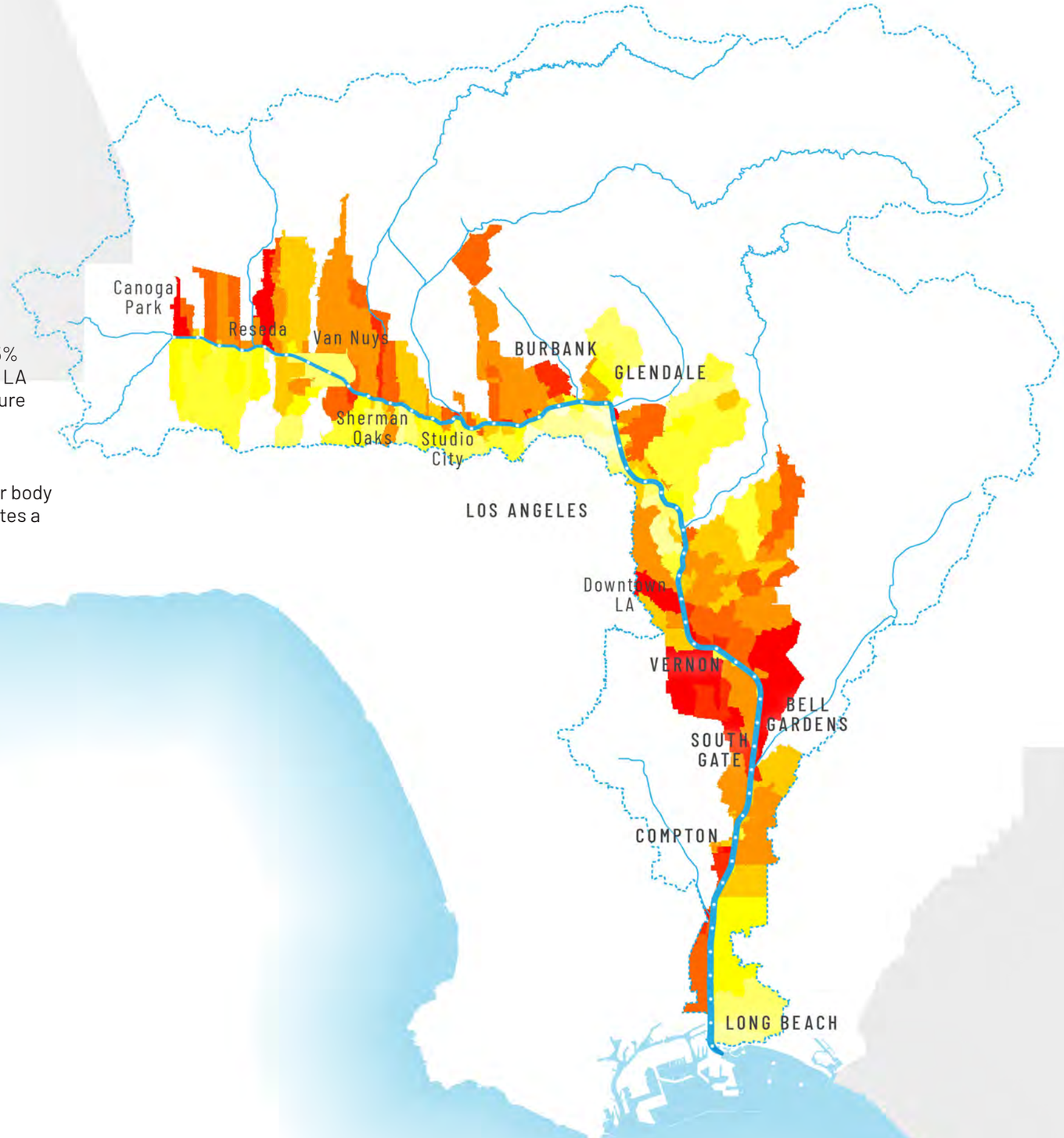
WATER QUALITY

EWMP/WMP Score[1] (50%)

Reflects the weighted difference of target BMP volume (75% weight) versus planned BMP volume (25% weight) for areas in the Upper LA River EWMP (2016), LA River Upper Reach 2 WMP (2015), and Lower LA River WMP (2017) to comply with water quality regulations. Weighting accounts for uncertainty in future implementation. Areas with a higher score have a higher water quality need.

Water Quality Priority[2] (50%)

Represents an integrated evaluation of dry- and wet-weather runoff quality based on receiving water body impairments, identified beneficial uses, and land-use-based pollutant loading. A higher score indicates a higher water quality need.



LA County Need Analysis:

High Need

Low 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.
2. Water quality priority is originally developed in the Grater Los Angeles County Region Integrated Regional Water Management Plan (2014)

Source: Geosyntec, OLIN

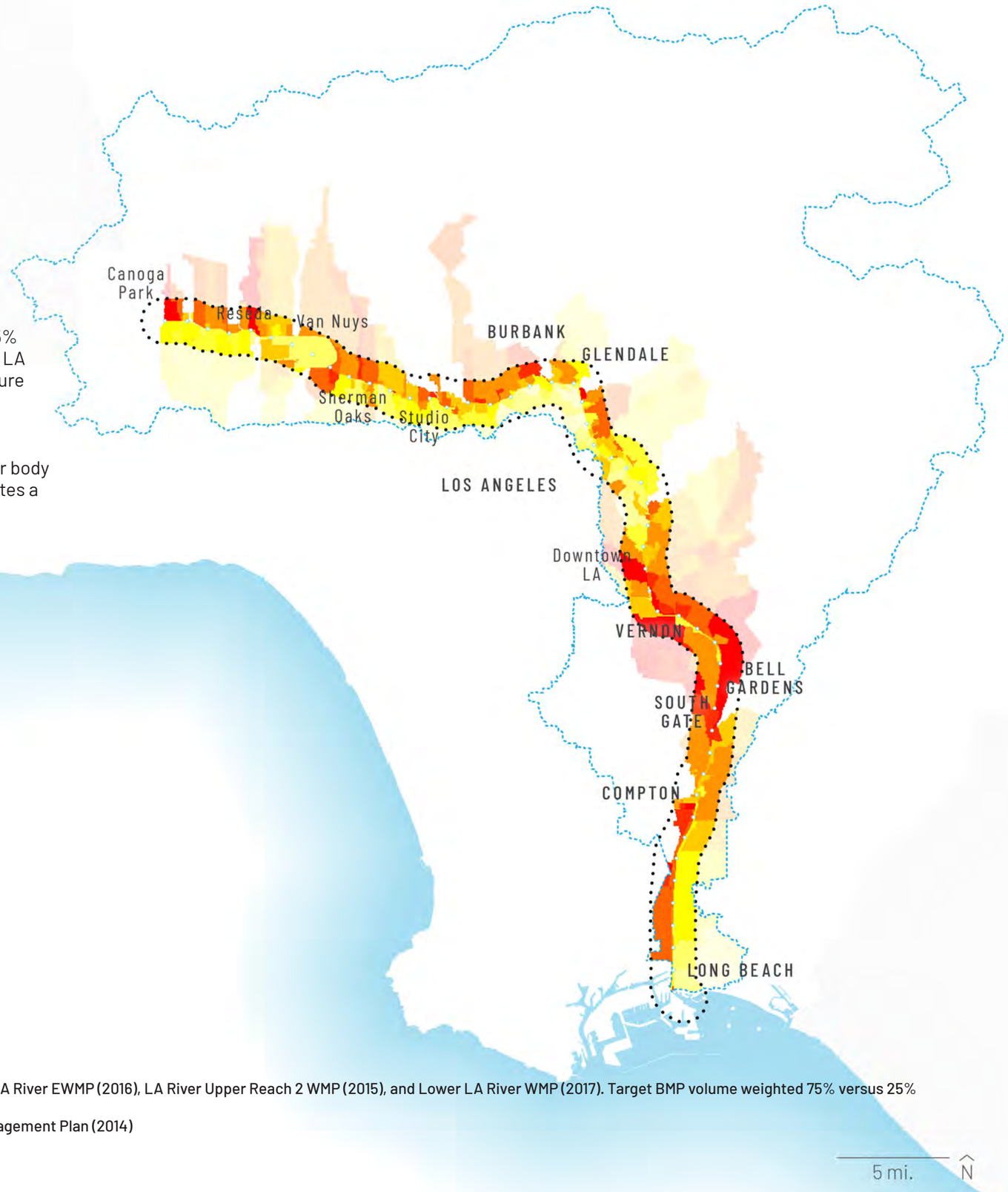
WATER QUALITY

EWMP/WMP Score[1] (50%)

Reflects the weighted difference of target BMP volume (75% weight) versus planned BMP volume (25% weight) for areas in the Upper LA River EWMP (2016), LA River Upper Reach 2 WMP (2015), and Lower LA River WMP (2017) to comply with water quality regulations. Weighting accounts for uncertainty in future implementation. Areas with a higher score have a higher water quality need.

Water Quality Priority[2] (50%)

Represents an integrated evaluation of dry- and wet-weather runoff quality based on receiving water body impairments, identified beneficial uses, and land-use-based pollutant loading. A higher score indicates a higher water quality 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.
2. Water quality priority is originally developed in the Grater Los Angeles County Region Integrated Regional Water Management Plan (2014)

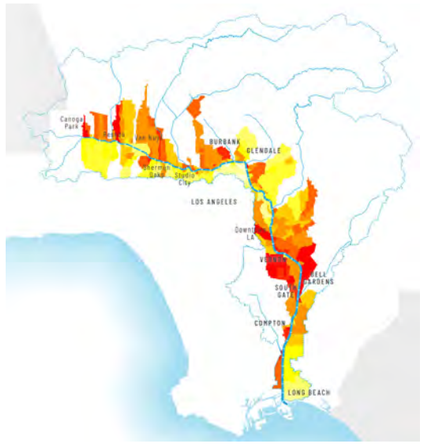
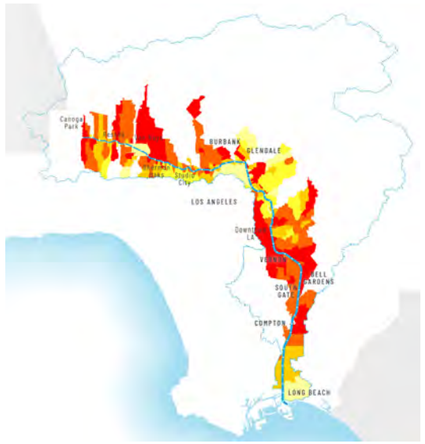
Source: Geosyntec, OLIN

WATER QUALITY

Need Analysis:

High Need

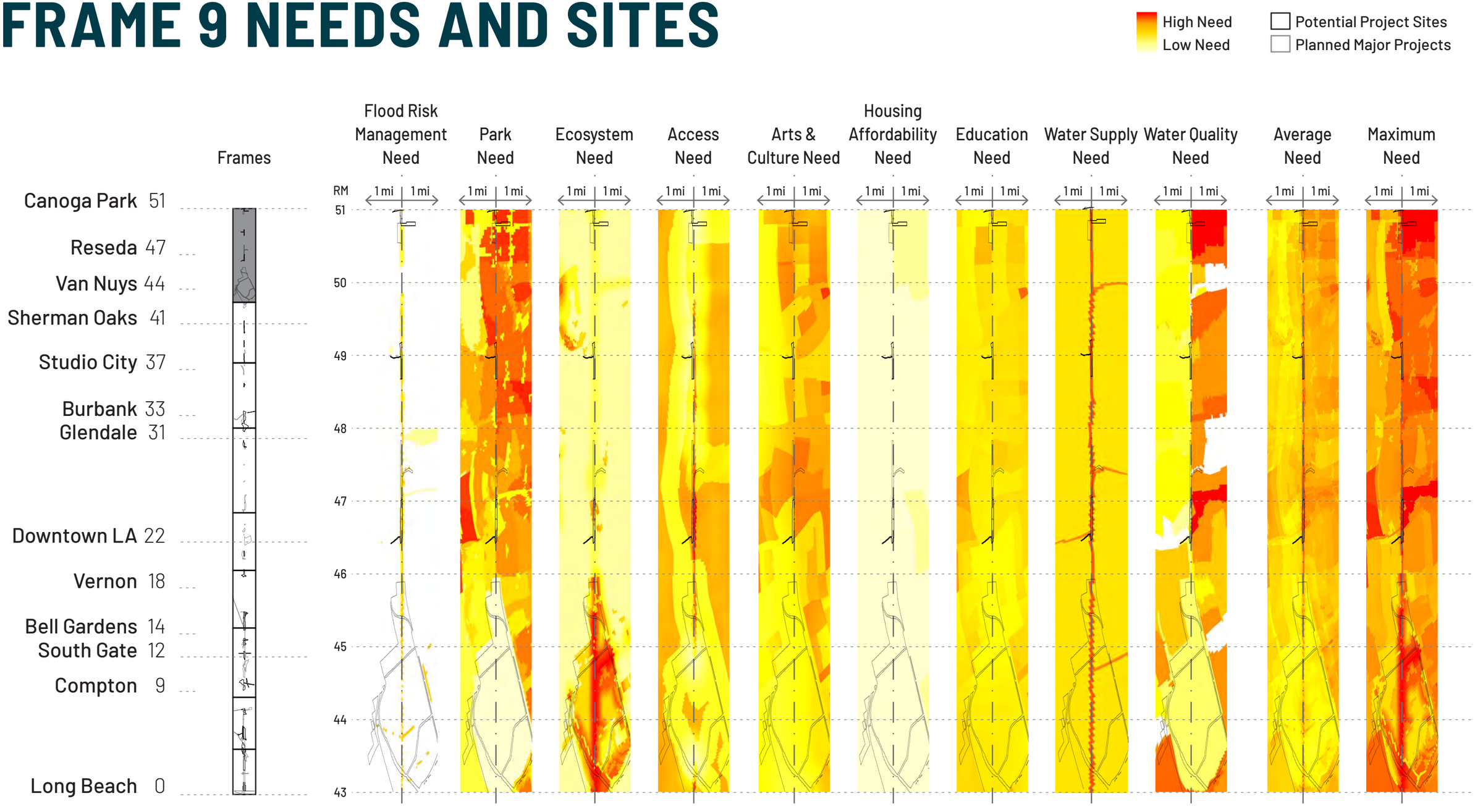
Low Need

Water Quality Need		EWMP/WMP Score[1]	50%	Water Quality Priority[2]	50%
	=		+		
Criteria Type:		LA Regional Water Quality Control Board		Greater Los Angeles County Region Data	
Description:		Reflects the weighted difference of target BMP volume (75%) versus planned BMP volume (25%) for areas to comply with water quality regulations.		An integrated evaluation of dry- and wet-weather runoff quality based on receiving water body impairments, identified beneficial uses, and land-use-based pollutant loading.	
Assessment:		Highest Need = high EWMP/WMP score Low Need = low EWMP/WMP score		Highest Need = high water quality priority Low Need = high water quality priority	

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.
2. Water quality priority is originally developed in the Grater Los Angeles County Region Integrated Regional Water Management Plan (2014)

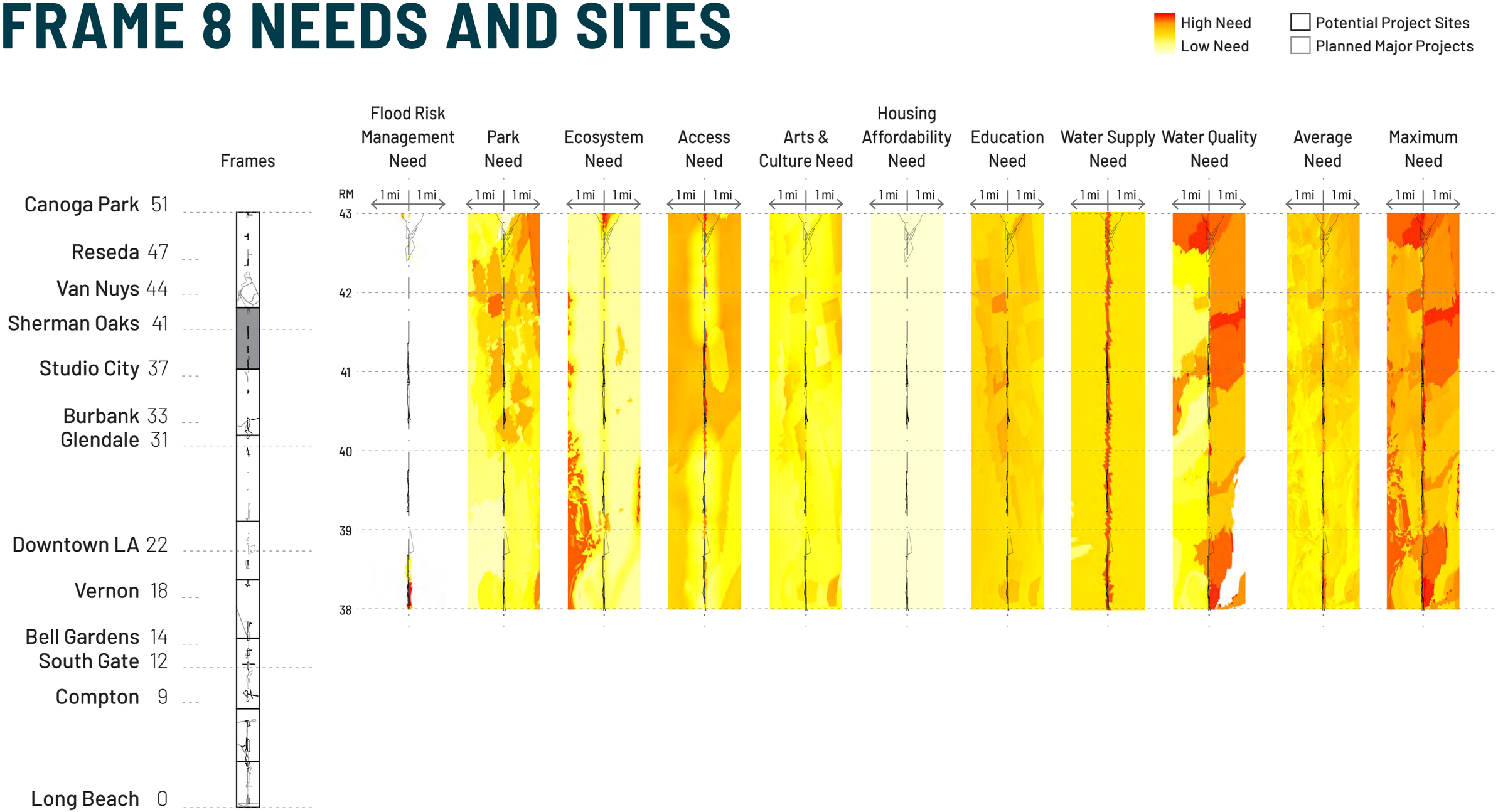
Source: Geosyntec, OLIN

FRAME 9 NEEDS AND SITES



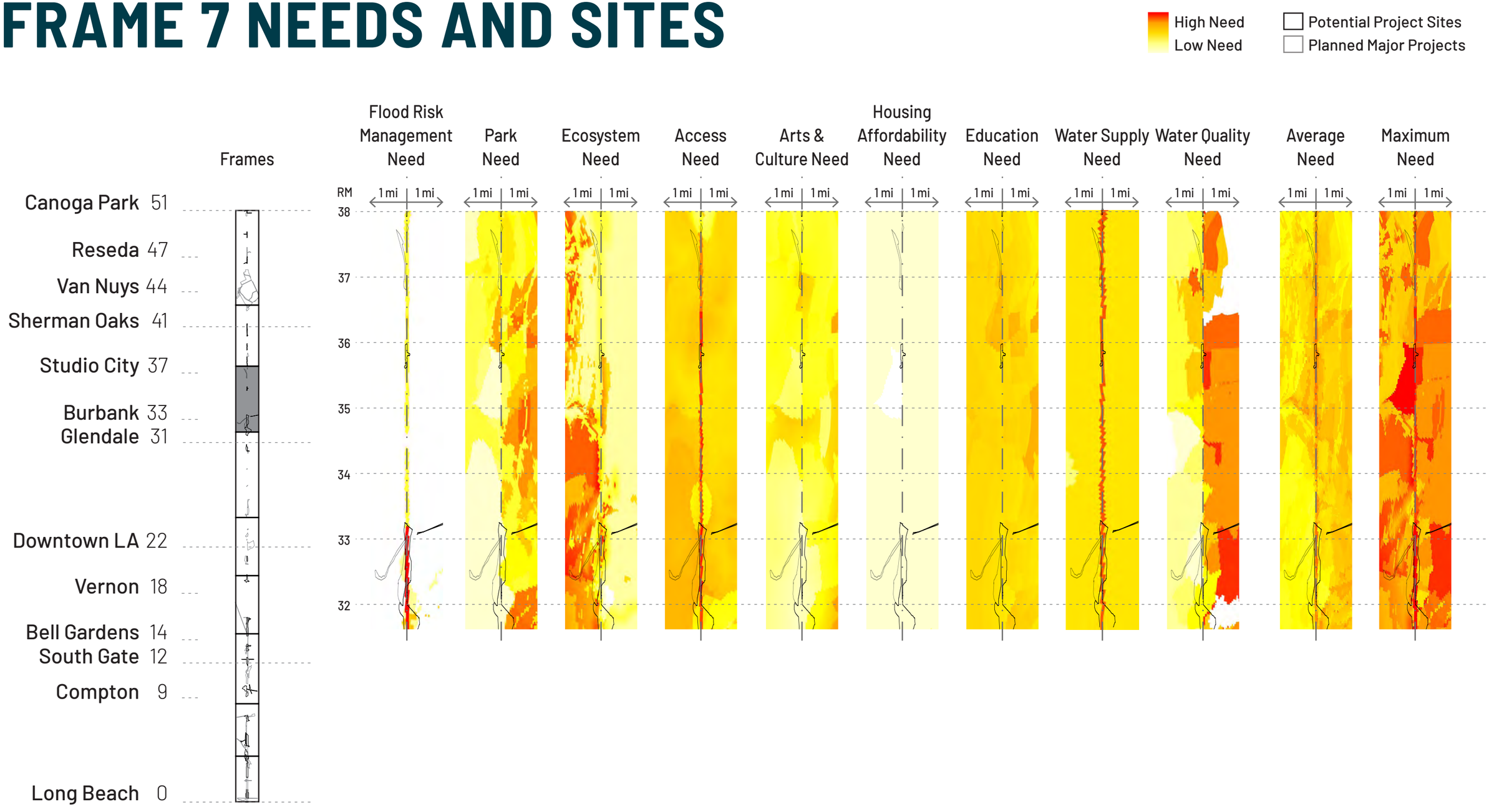
Source: OLIN, Geosyntec

FRAME 8 NEEDS AND SITES



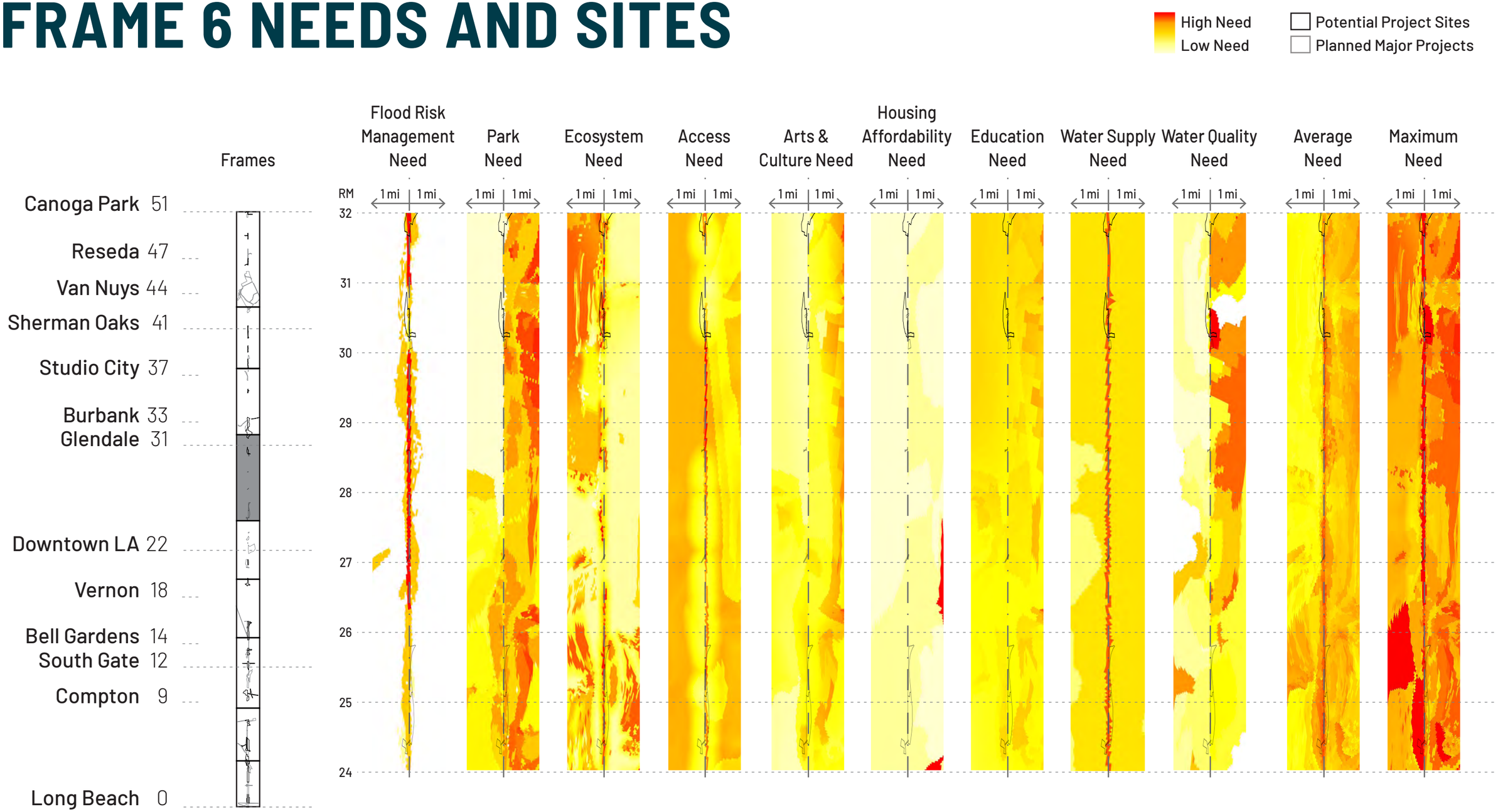
Source: OLIN, Geosyntec

FRAME 7 NEEDS AND SITES



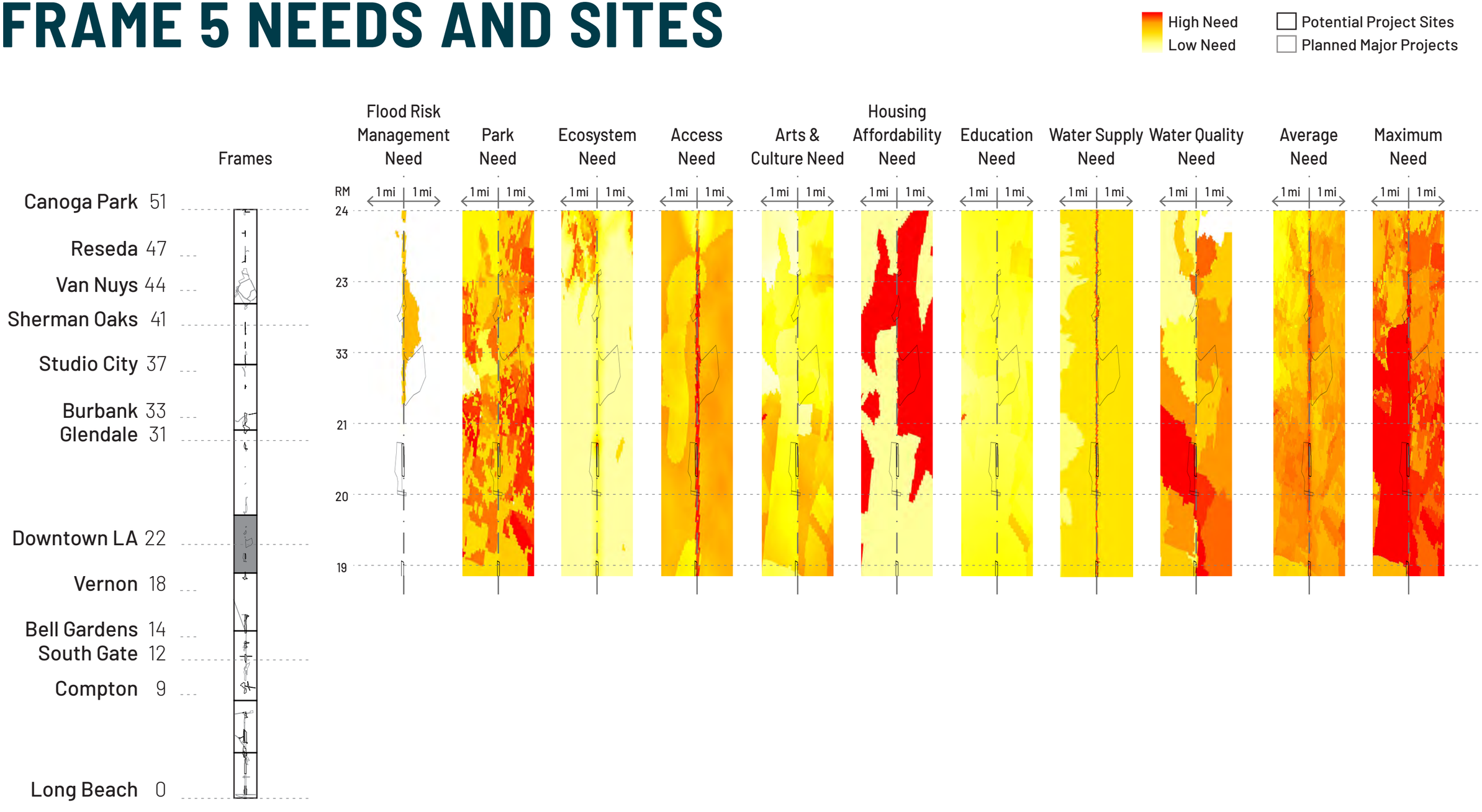
Source: OLIN, Geosyntec

FRAME 6 NEEDS AND SITES



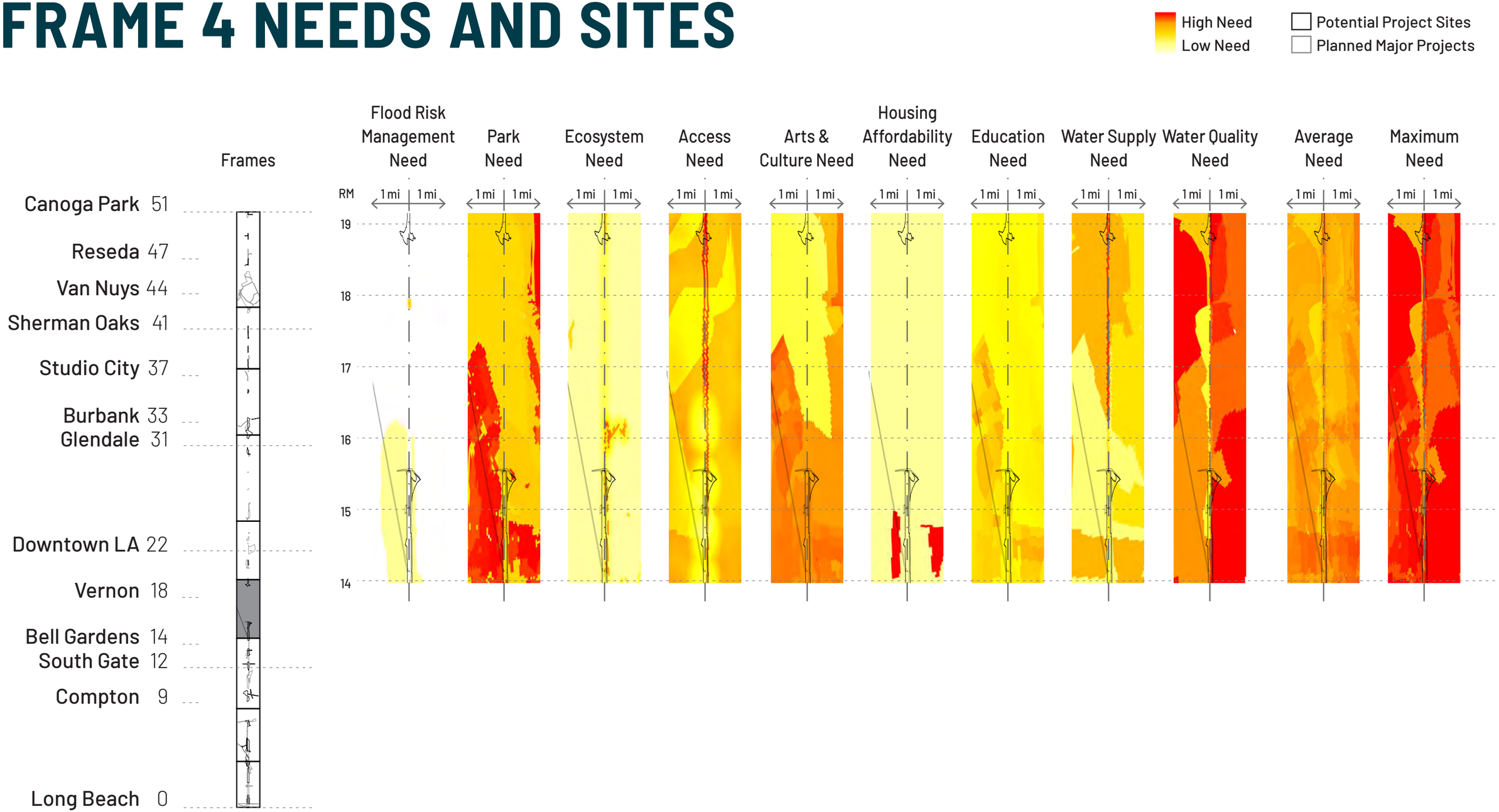
Source: OLIN, Geosyntec

FRAME 5 NEEDS AND SITES



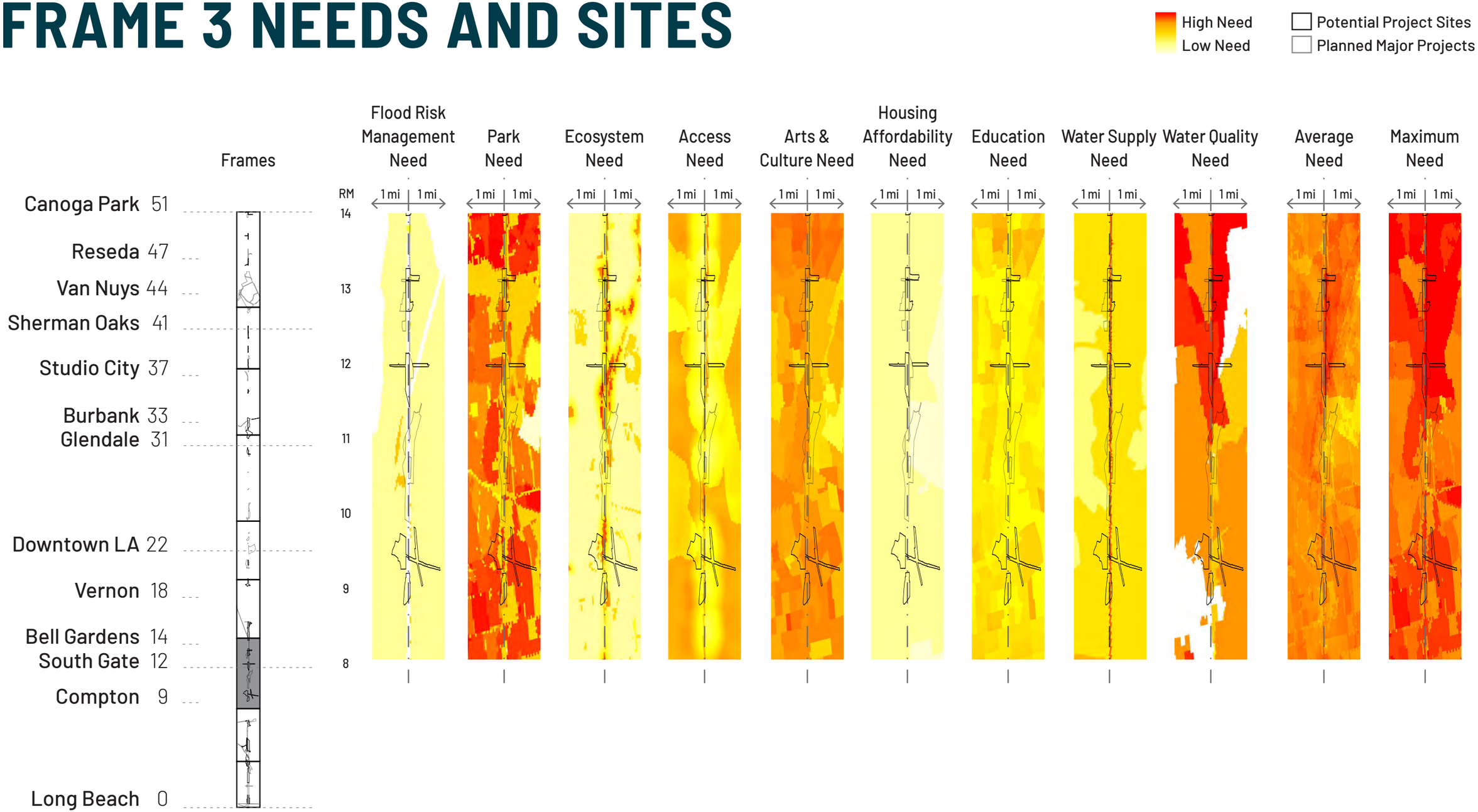
Source: OLIN, Geosyntec

FRAME 4 NEEDS AND SITES

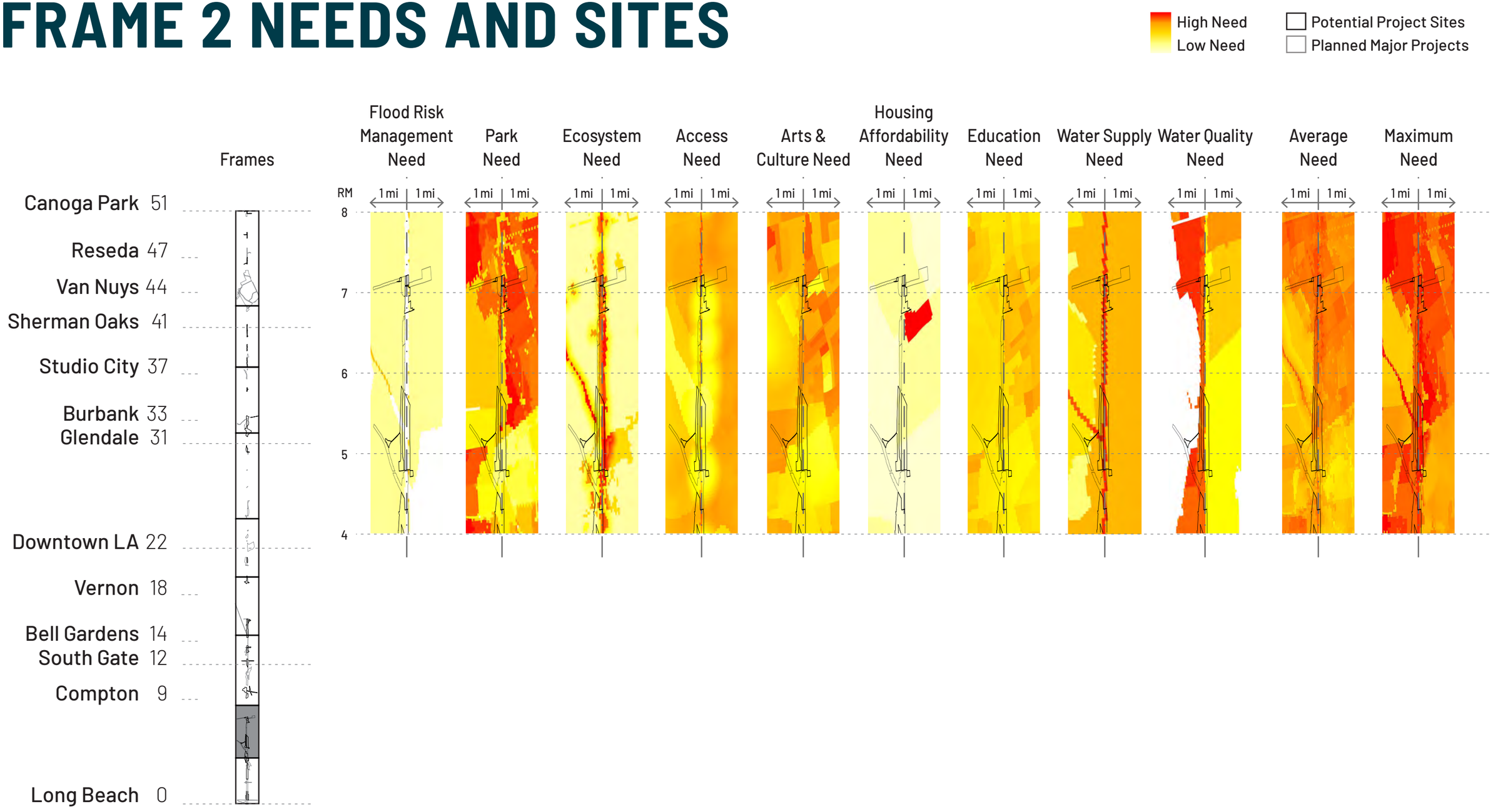


Source: OLIN, Geosyntec

FRAME 3 NEEDS AND SITES

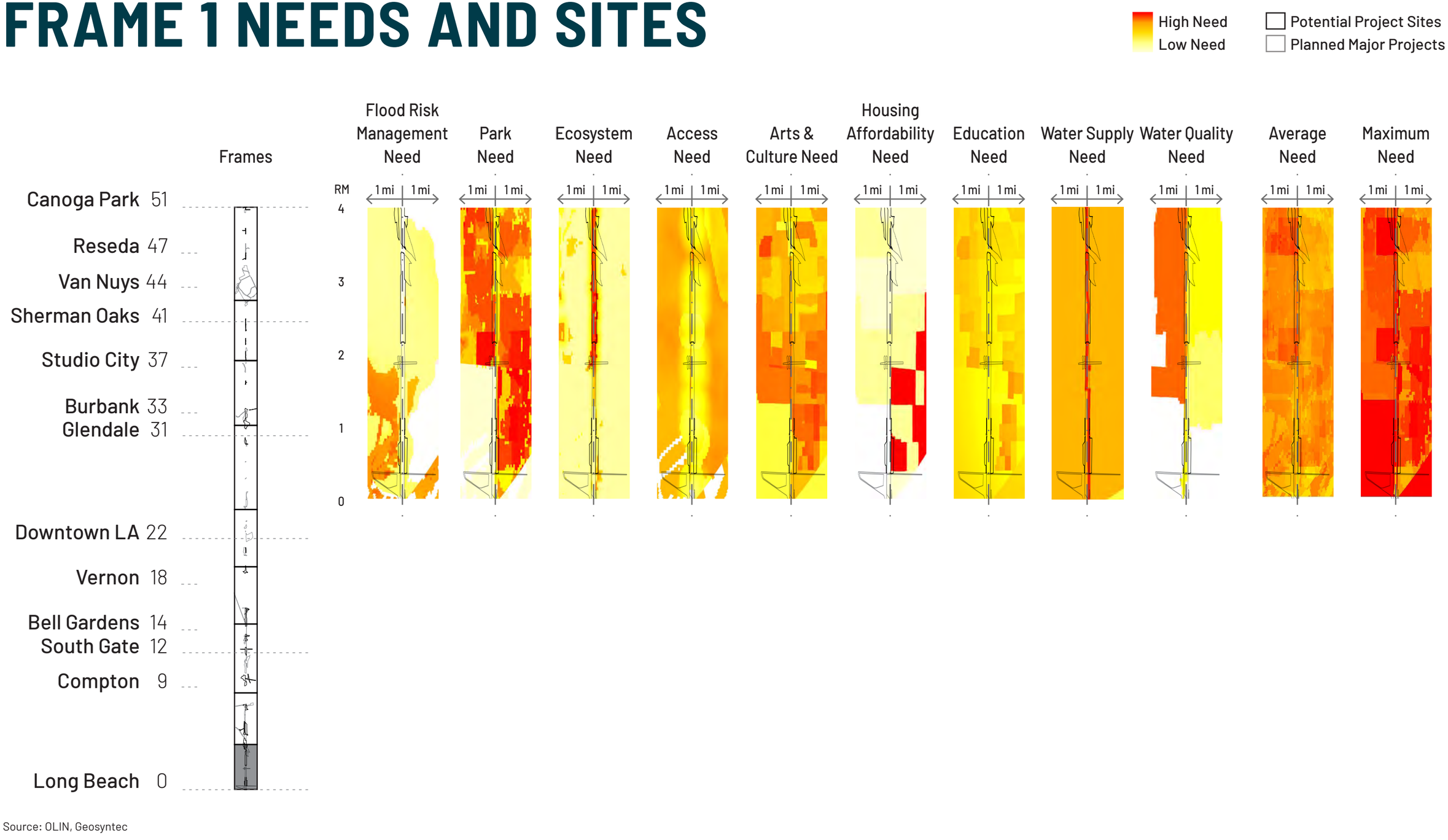


FRAME 2 NEEDS AND SITES



Source: OLIN, Geosyntec

FRAME 1 NEEDS AND SITES



Source: OLIN, Geosyntec

Supervisorial District 5

APPENDIX

PROJECTS: FRAME 9

RM 51

ECOSYSTEMS
ARTS & CULTURE
AFFORDABLE HOUSING
EDUCATION
WATER SUPPLY
WATER QUALITY

Canoga High School

River Origin Park

Canoga Park River Park

RM 48.9

FLOOD RISK

WATER SUPPLY

PARKS
ECOSYSTEMS
ARTS & CULTURE
EDUCATION

Pierce College Connector

Aliso Creek Confluence Park / Reseda River Loop

RM 46.8

FLOOD RISK
ACCESS

WATER SUPPLY

ECOSYSTEMS
ARTS & CULTURE
EDUCATION
WATER QUALITY

Reseda Expansion

Caballero Creek Confluence Park

Sepulveda Basin

50 49 47 44 42

FRAME 9
FRAME 8

Supervisorial District 3

Los Angeles

Santa Monica Mountains North Area (LAC)

Calabasas

ROSCOE BLVD
OXNARD ST
VENTURA FRWY
VENTURA BLVD
BURBANK BLVD
MULHOLLAND DR
MULHOLLAND HWY
SHERMAN WY
VICTORY BLVD
MAGNOLIA BLVD
MASON AV
WILBUR AV
WHITE OAK AV
BALBOA BLVD
HAYVENHURST AV
LOUISE AV
VALJEAN AV
WOODLEY AV
HASKELL AV
SAN DIEGO FRWY
RESEDA BLVD
CANOGA AV
TOPANGA CANYON BLVD
ROYAL HILLS DR
N SEPULVEDA BLVD
KESTER AV

- M, L, XL Potential Project Sites
- M, L, XL Planned Major Projects
- XS and S Projects
- Existing Access Points to Improve
- Existing Access Points
- RIO Zones (LARRMP)
- Habitat Restoration Zones (ARBOR Study)
- Opportunity Zones (LLARRP)
- Frames
- Supervisorial District Boundaries
- Municipal Boundaries

VERY HIGH NEED

HIGH NEED

NEED

Source: OLIN, Geosyntec

1/4 mi

N

APPENDIX

PROJECTS: FRAME 8

Supervisorial Basin

Hazeltine River Edge Park

Van Nuys Blvd

Hazeltine Avenue

West of Coldwater

LA River Natural Park

Tujunga Wash Confluence Park

Upstream from Tujunga Confluence

Colfax Avenue to Tujunga Boulevard, Ventura Boulevard to the River

101 Freeway Crossing

RM 39.4

WATER SUPPLY

ECOSYSTEMS
EDUCATION
WATER SUPPLY

RM 40.8

ACCESS

EDUCATION
WATER SUPPLY

ECOSYSTEMS

RM 38.2

FLOOD RISK

WATER SUPPLY

ECOSYSTEMS
ACCESS
EDUCATION
WATER QUALITY

VERY HIGH NEED

HIGH NEED

NEED

FRAME 9

FRAME 8

FRAME 8

FRAME 7

Supervisorial District 3

Supervisorial District 5

Burbank

Universal City (LAC)

Franklin Canyon (LAC)

Beverly Hills

Los Angeles

VANOWEN ST
VICTORY BLVD
OXNARD ST
BURBANK BLVD
CHANDLER BLVD
MAGNOLIA BLVD
RIVERSIDE DR
CAMARILLO ST
CAMARILLO PL
VENTURA BLVD
VALLEY VISTA BLVD
MOORPARK ST
W BURBANK BLVD
N PASS AV
CAHUENGA BLVD W
HAYVENHURST AV
WOODLEY AV
HASKELL AV
VANNUYS BLVD
KESTER AV
HAZELTINE AV
WOODMAN AV
FULTON AV
WHITSETT AV
VINELAND AV
CAHUENGA BLVD
LANKERSHIM BLVD
TUJUNGA AV
COLFAX AV
LAUREL CANYON BLVD
HOLLYWOOD FRWY
E CAHUENGA BLVD
FORMAN AV
N HOLLYWOOD WAY
PASS AV
LOUISE AV
BALBOA BLVD
N SEPULVEDA BLVD
SAN DIEGO FRWY
ROYAL HILLS DR
BEVERLY GLEN BLVD
N BEVERLY GLEN BLVD
S SEPULVEDA BLVD
BENEDICT CANYON DR
BEVERLY PARK CIR
COLDWATER CANYON DR

42
44
40
38
37

M, L, XL Potential Project Sites
M, L, XL Planned Major Projects
XS and S Projects
Existing Access Points to Improve
Existing Access Points

RIO Zones (LARRMP)
Habitat Restoration Zones (ARBOR Study)
Opportunity Zones (LLARRP)
Frames
Supervisorial District Boundaries
Municipal Boundaries

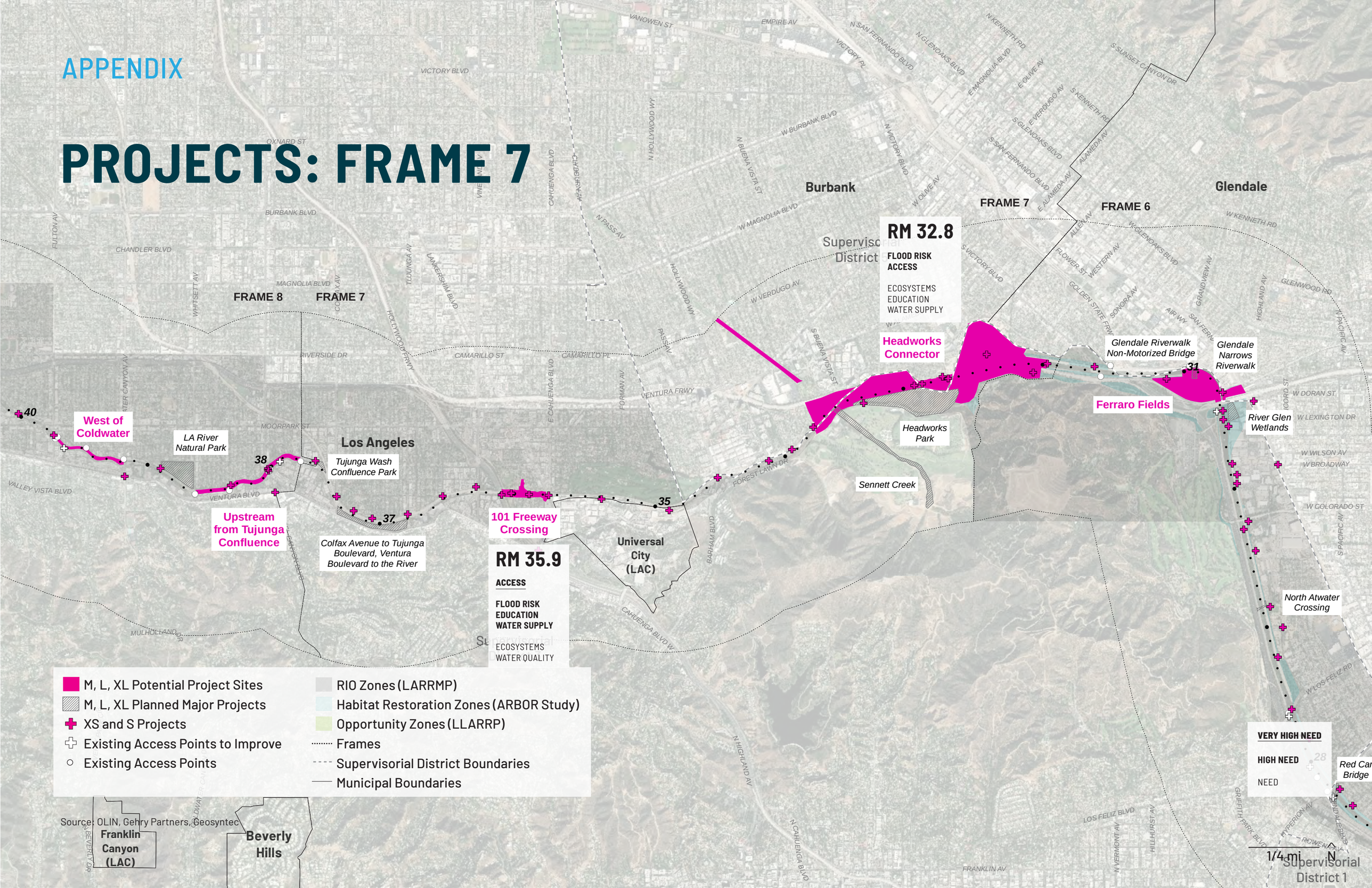
Source: OLIN, Gehry Partners, Geosyntec

1/4 mi

N

APPENDIX

PROJECTS: FRAME 7



APPENDIX

PROJECTS: FRAME 6

Headworks Connector

Glendale Riverwalk Non-Motorized Bridge

Glendale Narrows Riverwalk

Ferraro Fields

River Glen Wetlands

Headworks Park

Sennett Creek

RM 30.9

FLOOD RISK
ECOSYSTEMS

EDUCATION
WATER SUPPLY

North Atwater Crossing

Red Car Bridge

G1 Bowtie

G2 Taylor Yard

Taylor Yard Non-Motorized Bridge

Dorris Place Sanitation Yard

Arroyo Seco Confluence Park

Burbank

Universal City (LAC)

Glendale

Pasadena

Los Angeles

West Hollywood

Supervisorial District 5

Supervisorial District 3

Supervisorial District 2

Supervisorial District 1

- M, L, XL Potential Project Sites
- M, L, XL Planned Major Projects
- XS and S Projects
- Existing Access Points to Improve
- Existing Access Points
- RIO Zones (LARRMP)
- Habitat Restoration Zones (ARBOR Study)
- Opportunity Zones (LLARRP)
- Frames
- Supervisorial District Boundaries
- Municipal Boundaries

Source: OLIN, Gehry Partners, Geosyntec

VERY HIGH NEED

HIGH NEED

NEED

FRAME 6

FRAME 5

1/4 mi

N

APPENDIX

PROJECTS: FRAME 5

Supervisorial District 3

Supervisorial District 5

Los Angeles

Alhambra

Monterey Park

East Los Angeles (LAC)

Montebello

Vernon

Bandini Islands (LAC)

Commerce

FRAME 6

FRAME 5

FRAME 4

Dorris Place Sanitation Yard

Arroyo Seco Confluence Park

Bending the River

Main Street Terrace

Piggyback Yard

First Street to Sixth Street River Loop

6th Street Viaduct

Downtown Train Yard

East Washington Blvd

25

23

22

20

19

RM 21.6

ACCESS

AFFORDABLE HOUSING
WATER SUPPLY

PARKS
ECOSYSTEMS

RM 19.9

ACCESS
AFFORDABLE HOUSING

PARKS
ARTS & CULTURE
AFFORDABLE HOUSING
WATER QUALITY

VERY HIGH NEED

HIGH NEED

NEED

- M, L, XL Potential Project Sites
- M, L, XL Planned Major Projects
- XS and S Projects
- Existing Access Points to Improve
- Existing Access Points
- RIO Zones (LARRMP)
- Habitat Restoration Zones (ARBOR Study)
- Opportunity Zones (LLARRP)
- Frames
- Supervisorial District Boundaries
- Municipal Boundaries

Source: OLIN, Gehry Partners, Geosyntec

1/4 mi

N

APPENDIX

PROJECTS: FRAME 4

East Washington Blvd

Active Transportation Rail to River Corridor (Randolph Street)

Upper Segment Multi-use Easement and Atlantic Blvd Area

Maywood Park Bend

Cudahy River Park

Clara Street

RM 15.8

ECOSYSTEMS
ARTS & CULTURE

PARKS
AFFORDABLE HOUSING
WATER QUALITY

VERY HIGH NEED
HIGH NEED
NEED

- M, L, XL Potential Project Sites
- M, L, XL Planned Major Projects
- XS and S Projects
- Existing Access Points to Improve
- Existing Access Points
- RIO Zones (LARRMP)
- Habitat Restoration Zones (ARBOR Study)
- Opportunity Zones (LLARRP)
- Frames
- Supervisorial District Boundaries
- Municipal Boundaries

Source: OLIN, Gehry Partners, Geosyntec

1/4 mi N

APPENDIX

PROJECTS: FRAME 3

RM 14.1

ARTS & CULTURE
WATER QUALITY

FLOOD RISK
PARKS
ECOSYSTEMS
AFFORDABLE HOUSING
EDUCATION

RM 12.9

WATER SUPPLY

ECOSYSTEMS
AFFORDABLE HOUSING
WATER QUALITY

FLOOD RISK
PARKS
ARTS & CULTURE

RM 10.2

ECOSYSTEMS

ARTS & CULTURE
WATER SUPPLY

FLOOD RISK
PARKS
AFFORDABLE HOUSING
WATER QUALITY

RM 10.5

FLOOD RISK
PARKS
ACCESS
ARTS & CULTURE
AFFORDABLE HOUSING
WATER SUPPLY
WATER QUALITY

Clara Street
Cudahy River Park
South Gate North
South Gate Orchard
Rio Hondo Confluence
Dos Rios Park
SELA Cultural Center
E Rosecrans Ave.
Highway 105
Middle Segment Multi-use Easement and Crossover

14
13
12
11
9

Supervisorial District 1
Supervisorial District 2
Supervisorial District 4

FRAME 4
FRAME 3
FRAME 2

Walnut Park (LAC)
Huntington Park
Florence - Firestone (LAC)
Bell
Cudahy
Bell Gardens
Pico Rivera
Los Angeles
Willowbrook (LAC)
Downey
Santa Fe Springs
W Rancho Dominguez - Victoria (LAC)
Lynwood
Lynwood Island (LAC)
Compton
East Rancho Dominguez (LAC)
Paramount
Norwalk
Bellflower
Carson
Cerritos

- M, L, XL Potential Project Sites
- M, L, XL Planned Major Projects
- XS and S Projects
- Existing Access Points to Improve
- Existing Access Points
- RIO Zones (LARRMP)
- Habitat Restoration Zones (ARBOR Study)
- Opportunity Zones (LLARRP)
- Frames
- Supervisorial District Boundaries
- Municipal Boundaries

VERY HIGH NEED
HIGH NEED
NEED

Source: OLIN, Gehry Partners, Geosyntec

1/4 mi
N

APPENDIX

PROJECTS: FRAME 2

Middle Segment Multi-use Easement and Crossover

Connectivity Corridor

RM 8.1

ECOSYSTEMS
ACCESS
ARTS & CULTURE
WATER SUPPLY

FLOOD RISK
PARKS
AFFORDABLE HOUSING
EDUCATION
WATER QUALITY

Sutter Bend at Del Amo Blvd

RM 6.3

ECOSYSTEMS

FLOOD RISK
PARKS
ARTS & CULTURE
AFFORDABLE HOUSING
EDUCATION
WATER SUPPLY
WATER QUALITY

Compton Creek Confluence Area

W 47th St / Rancho Los Cerritos

RM 5.1

ECOSYSTEMS
WATER SUPPLY

FLOOD RISK
WATER QUALITY

Wrigley Heights River Park

W 28th St to 405 Fwy

- M, L, XL Potential Project Sites
- M, L, XL Planned Major Projects
- XS and S Projects
- Existing Access Points to Improve
- Existing Access Points
- RIO Zones (LARRMP)
- Habitat Restoration Zones (ARBOR Study)
- Opportunity Zones (LLARRP)
- Frames
- Supervisorial District Boundaries
- Municipal Boundaries

VERY HIGH NEED
HIGH NEED
NEED

Source: OLIN, Gehry Partners, Geosyntec

1/4 mi N

APPENDIX

PROJECTS: FRAME 1

RM 3.7

ECOSYSTEMS

WATER SUPPLY

ARTS & CULTURE
AFFORDABLE HOUSING
EDUCATION

W 47th St / Rancho Los Cerritos

W 28th St to 405 Fwy

Wrigley Heights River Park

Willow Street

South of Willow Street

RM 1.7

FLOOD RISK
ARTS & CULTURE

PARKS
ECOSYSTEMS
AFFORDABLE HOUSING
WATER SUPPLY

Middle Long Beach

Long Beach Municipal Urban Stormwater Treatment

Shoemaker Bridge Replacement

FRAME 2

FRAME 1

- M, L, XL Potential Project Sites
- M, L, XL Planned Major Projects
- XS and S Projects
- Existing Access Points to Improve
- Existing Access Points
- RIO Zones (LARRMP)
- Habitat Restoration Zones (ARBOR Study)
- Opportunity Zones (LLARRP)
- Frames
- Supervisorial District Boundaries
- Municipal Boundaries

Source: OLIN, Gehry Partners, Geosyntec

VERY HIGH NEED

HIGH NEED

NEED

1/4 mi

N

XS, S PROJECTS INDEX

RM	Name	Approx. Location	Los Angeles River Revitalization Master Plan	Lower LA River Revitalization Plan	LA River Master Plan Update	Status
51	Project 2: Canoga Park High School Outdoor Classroom	Canoga Park High School	x			Conceptual
50.9	Project 4: Basset Street Riverside Street	Bassett St & Owensmouth Ave	x			Conceptual
50.85	Bassett St & Alabama Ave	See name			x	n/a
50.78	Project 5: Canoga Park Regional Gateway	Bassett St & Canoga Ave	x			Conceptual
50.76	Project 9: Canoga Avenue River Bridge	Bassett St & Canoga Ave	x			Conceptual
50.74	Project 7: Orange Line Underpass	Bassett St & Canoga Ave	x			Conceptual
50.49	Project 12: Variel Avenue Local Gateway	Bassett St & Variel Ave	x			TBD
50.48	Project 11: Variel Avenue Pocket Park	Bassett St & Variel Ave	x			TBD
50.24	De Soto Ave South	See name	Neighborhood gateway			TBD
49.44	Project 18: Acquisition of Property between Oso Avenue and Vanowen Street	Archwood St & Oso Ave	x			Conceptual
49.17	Project 20: Winnetka Avenue River Bridge	Winnetka Ave & LA River	x			Conceptual
48.7	Project 22: Acquisition of Property between Corbin Avenue and the River	Corbin Ave, north of Hamlin St	x			Conceptual
48.41	Shirley Ave & Kittridge St	See name			x	n/a
48.1	Project 24: Acquisition of Property at Tampa Avenue and the River	Tampa Ave, north of LA River	x			Conceptual
48.09	Project 23: Tampa Avenue and Victory Boulevard Enhanced Intersection	Victory Blvd & Tampa Ave	x			Conceptual
47.86	Project 27: Vanalden Avenue Local Gateway	Vanalden Ave & LA River	x			Complete or in Design/Planning
47.85	Vanalden Avenue Pocket Park	Vanalden Ave, north of LA River	x			Status TBD
47.51	Aliso Connector	See name			x	n/a
47.22	Project 33: Amigo Avenue Local Gateway	Amigo Ave & LA River	x			Status TBD
47.22	Project 32: Amigo Avenue Pocket Park	Amigo Ave, north of LA River	x			Status TBD
47.07	Project 39: Reseda Park Regional Gateway	Kittridge St & Reseda Blvd	x			Conceptual
47.07	Project 35: Reseda Boulevard River Bridge	Kittridge St & Reseda Blvd	x			Conceptual
46.84	Project 37: Reseda Park River Park Buffer	Etiwanda Ave at Reseda High School	x			Conceptual
46.78	Project 42: Etiwanda Avenue Pocket Park	Etiwanda Ave at Reseda Park and Rec Center	x			Conceptual
46.7	Project 40: Reseda High School Outdoor Classroom	Etiwanda Ave at Reseda High School	x			Conceptual
46.56	Project 43: Caballero Creek Non-Motorized Bridge	Caballero Creek Confluence	x			In Design
46.22	Zelzah Ave & Duncan St	See name			x	n/a
45.97	Project 44: White Oak Avenue and Victory Boulevard Enhanced Intersection	Victory Blvd & White Oak Ave	x			Conceptual

Source: OLIN, Gehry Partners, Geosyntec

XS, S PROJECTS INDEX

RM	Name	Approx. Location	Los Angeles River Revitalization Master Plan	Lower LA River Revitalization Plan	LA River Master Plan Update	Status
45.97	White Oak Ave & LA River	See name			x	n/a
45.59	Project 46: Encino Velodrome Wetlands Park	West of Sepulveda Basin	x			TBD
45.58	LA River Veteran Tribute Park	South of Victory Blvd, north of Sepulveda Basin	x			Complete or in Design/Planning
45.45	Project 48: Orange Line Bridge Non-Motorized Bridge	Southern Railroad and LA River, north of Sepulveda Basin	x			TBD
45.05	Project 51: Sepulveda Basin Regional Gateway	Victory Blvd & Balboa Blvd	x			TBD
44.99	West of Balboa Blvd	See name			x	n/a
44.85	Project 52: Sepulveda Basin (Birmingham School) Outdoor Classroom	Between Balboa Blvd & Bell Creek	x			TBD
44.5	Balboa & Encino Golf Course	See name			x	n/a
44.17	Sepulveda Basin Boating	South of Woodley Lakes Golf Course	x			Complete or in Design/Planning
44.11	Project 53: Sepulveda Basin River Park Buffer	Balboa & Encino Golf Course	x			TBD
43.85	Project 57: Sepulveda Basin Non-Motorized Bridge	West of Burbank Blvd, south of Woodley Ave	x			TBD
43.61	Project 54: Sepulveda Basin Wetlands	West of Burbank Blvd, south of Woodley Ave	x			TBD
43.32	Project 56: Hjelte to Dam Wetlands Park	Encino Creek Confluence	x			TBD
42.94	Project 58: Sepulveda Spillway Park	North of San Diego Fwy & Ventura Fwy Intersection	x			TBD
42.7	Project 59: 405 Underpass	San Diego Fwy & LA River	x			TBD
42.6	Project 63: Castle Family Park	Otsego St & Sepulveda Blvd	x			TBD
42.49	Project 61: Sepulveda Boulevard River Bridge	Valley Heart Dr & Sepulveda Blvd	x			TBD
42.22	Noble Ave	See name	Recommended underpass			TBD
41.92	Project 64: Kester Avenue under 101 Freeway Portal	Valley Heart Dr & Kester Ave	x			Conceptual
41.41	Van Nuys Boulevard River Bridge	Riverside Dr & Van Nuys Blvd	x			TBD
41.4	Van Nuys Boulevard under 101 Freeway Portal	Riverside Dr & Van Nuys Blvd	x			Conceptual
40.86	Project 74: 101 Underpass	Ventura Fwy & Hazeltine Ave	x			TBD
40.86	Project 71: Hazeltine Avenue under 101 Freeway Portal	Hazeltine Ave & LA River	x			TBD
40.8	Fashion Square River Park	NE of Ventura Fwy & Hazeltine Ave	x			Conceptual
40.33	Valleyheart Dr & Woodman Ave	See name			x	n/a
40.03	Valleyheart Dr & Sunnyslope Ave	See name			x	n/a
39.74	Project 77: Moorpark Street Local Gateway	Bloomfield St & Fulton Ave	x			Conceptual
39.17	Project 80: Ventura Boulevard and Coldwater Canyon Boulevard Enhanced Intersection	Ventura Blvd & Coldwater Canyon Ave	x			Conceptual

Source: OLIN, Gehry Partners, Geosyntec

XS, S PROJECTS INDEX

RM	Name	Approx. Location	Los Angeles River Revitalization Master Plan	Lower LA River Revitalization Plan	LA River Master Plan Update	Status
38.91	Bellaire Ave & Valleyheart Dr	See name			x	n/a
38.35	Project 83: Laurelgrove Avenue Pocket Park	Valleyheart Dr & Laurelgrove Ave	x			Conceptual
38.1	Project 92: Ventura Boulevard and Laurel Canyon Boulevard Enhanced Intersection	Ventura Blvd & Laurel Canyon Blvd	x			Conceptual
38.03	Project 88: Laurel Canyon Boulevard Underpass	Laurel Canyon Blvd & LA River	x			Conceptual
38.03	Project 86: Laurel Canyon Boulevard River Bridge	Laurel Canyon Blvd & LA River	x			Conceptual
37.67	Project 93: CBS Studios Underpass	Tujunga Wash Confluence at Studio City	x			TBD
37.39	Colfax Ave North	See name	Recommended underpass			TBD
37.2	Project 91: Colfax Avenue Outdoor Classroom	Kelsey St	x			Conceptual
37.06	Project 99: Beck Avenue Local Gateway	Beck Ave	x			Conceptual
36.79	Tujunga Ave North	See name	Recommended underpass			TBD
36.5	Dilling St & Fair Avenue	See name			x	n/a
36.27	Vineland Ave North	See name	Recommended bridge crossing requiring minor improvement			TBD
36.09	Project 100: 101 Freeway Underpass at Weddington Park	Hollywood Fwy & LA River	x			Conceptual
36.02	Project 101: Weddington Park Expansion with Non-Motorized Bridge	Tujunga Wash Confluence near South Weddington Park	x			Conceptual
35.9	Project 102: Weddington Park Regional Gateway	Brookview Dr & Caratwright Ave	x			Conceptual
35.82	Lankershim Boulevard and Cahuenga Boulevard Enhanced Intersection	Hollywood Fwy & Lankershim Blvd	x			Conceptual
35.76	Project 107: Lankershim Boulevard River Bridge	Lankershim Blvd & LA River	x			Conceptual
35.39	Universal Studios West	See name			x	n/a
34.9	Universal Studios	See name			x	n/a
34.49	Olive Ave North	See name	Recommended underpass			TBD
34.12	Warner Brothers Studio	See name	Recommended underpass			TBD
33.93	Valleyheart Dr	See name			x	n/a
33.71	Project 111: Bob Hope Drive Non-Motorized Bridge	Bob Hope Dr	x			Conceptual
33.3	Forest Lawn Cemetery	See name			x	n/a
32.92	Project 116: Spreading Grounds Regional Gateway	Ventura Fwy E & LA River	x			Conceptual
32.86	Project 119: 134 Freeway Underpass / Overpass at Spreading Grounds	Ventura Fwy W & LA River	x			Conceptual
32.71	Project 121: South Mariposa Street Pocket Park	Valleyheart Dr & Mariposa St	x			Conceptual

Source: OLIN, Gehry Partners, Geosyntec

XS, S PROJECTS INDEX

RM	Name	Approx. Location	Los Angeles River Revitalization Master Plan	Lower LA River Revitalization Plan	LA River Master Plan Update	Status
32.68	Equestrian Bridge	Mariposa St & LA River	x			Existing
32.38	Burbank Equestrian Center	Los Angeles Equestrian Center at Griffith Park	x			Status TBD
32.06	Project 118: Griffith Park River Park Buffer	Between Ventura Fwy & Zoo Dr	x			Conceptual
31.97	Project 117: Burbank Western Channel Non-Motorized Bridge	Burbank Western Channel Confluence	x			Conceptual
31.64	Riverside Dr North	See name	Proposed Spreading Grounds Regional Gateway, difficult undercrossing			TBD
31.12	Ferraro Fields	See name			x	n/a
30.68	Project 133: River Glen Opportunity Area Outdoor Classroom	Verdugo Wash Confluence, north of Ventura Fwy	x			Conceptual
30.56	Project 127: Doran Street and San Fernando Road Enhanced Intersection	Ventura Fwy & San Fernando Rd	x			Conceptual
30.55	Project 132: River Glen Regional Gateway	Verdugo Wash Confluence, south of Ventura Fwy	x			Conceptual
30.49	Project 131: River Glen Non-Motorized Bridge	Verdugo Wash Confluence	x			Conceptual
30.44	Project 128: Verdugo Wash Non-Motorized Bridge	Atwater Village north of Sperry St	x			Conceptual
30.17	Project 137: Brazil Street Paseo	Brazil Street	x			Conceptual
30.09	Project 139: Acquisition of Property near Brazil Street and the River	Atwater Village between Brazil St and Electonics Pl	x			Conceptual
30.06	Project 135: Brazil Street and San Fernando Road Enhanced Intersection	Brazil St & San Fernando Rd	x			Conceptual
30.03	Electronics Street Paseo	Electronics Pl	x			Conceptual
29.76	Colorado St Fwy	See name	Neighborhood gateway, west end of Brazil Street Paseo			TBD
29.71	Project 142: Colorado Boulevard Non-Motorized Park	SE of Colorado St Fwy & Golden State Fwy Intersection	x			Conceptual
29.54	LAG Park	Glendale Water Reclamation Plant	x			Open to Public
29.13	Project 145: North Atwater Park (River Vista Expansion)	West of North Atwater Park	x			Open to Public
28.96	Equestrian Center	Rigali Ave	x			Status TBD
28.78	Rigali Ave	See name	Proposed Los Feliz Equetrian / Non-Motorized Bridge			TBD
28.39	Project 149: Los Feliz Boulevard River Bridge	Los Feliz Blvd & LA River	x			Conceptual
28.15	Project 150: Legion Lane Park	Legion Ln	x			Conceptual

Source: OLIN, Gehry Partners, Geosyntec

XS, S PROJECTS INDEX

RM	Name	Approx. Location	Los Angeles River Revitalization Master Plan	Lower LA River Revitalization Plan	LA River Master Plan Update	Status
27.71	Red Car Park	Ferncroft Rd & Glendale Blvd	x			Open to Public
27.57	Ferncroft Rd & Tyburn St	See name			x	n/a
27.13	Project 153: Silver Lake Boulevard Pocket Park	Silver Lake Blvd	x			Conceptual
27.06	Project 158: Fletcher Drive under 5 Freeway Portal	Golden State Fwy & Fletcher Dr	x			Conceptual
27.06	Fletcher Dr & Golden State Fwy	See name	Portal			TBD
26.94	Project 156: Fletcher Drive River Bridge	Fletcher Dr & LA River	x			Conceptual
26.87	Project 157: Fletcher Avenue and 2 Freeway On/Off Ramp Enhanced Intersection	Glendale Fwy & Fletcher Dr	x			Conceptual
26.58	Project 154: Fletcher Avenue and San Fernando Road Enhanced Intersection	Fletcher Dr & San Fernando Rd	x			Conceptual
26.51	Project 162: Edward Avenue and Railway Portal	El Rio de Los Angeles State Recreation Area	x			TBD
26.45	Project 161: Media Center Drive and Railway Portal	El Rio de Los Angeles State Recreation Area	x			TBD
26.45	Project 160: Edward Avenue Paseo	San Fernando Rd & Media Center Dr	x			Conceptual
26.42	Project 163: Media Center Drive Paseo	Media Center Dr	x			Conceptual
25.89	Project 168: Newell Street under 5 Freeway Portal	Newell St under Golden State Fwy	x			Conceptual
25.74	Project 172: Riverside Park	Between Landa St and Riverside Dr	x			Conceptual
25.72	Project 169: Blimp Street Paseo	Blimp St & Blake Ave	x			Conceptual
25.71	Project 167: Taylor Yard Outdoor Classroom	Perlita Ave, east of LA River	x			Complete or in Design/Planning
25.63	Project 166: Taylor Yard Regional Gateway	LA River near Blimp St	x			Complete or in Design/Planning
25.29	Project 174: Dorris Place Pocket Park	Dorris Pl & Crystal St	x			TBD
25.24	Project 176: Dorris Street Paseo	Dorris Pl & Crystal St	x			TBD
25.21	Project 175: Dorris Place Outdoor Classroom	Glover Pl & Crystal St	x			TBD
25.18	Project 178: San Fernando Road and Elm Street Enhanced Intersection	Elm St & San Fernando Rd	x			Conceptual
24.19	Project 183: Confluence Park	Figueroa St & San Fernando Rd	x			Open to Public
24.15	Project 181: Riverside Drive Underpass by 110 Freeway	Figueroa St & Santa Fe Railway	x			Conceptual
24.11	Project 182: Railroad Bridge Underpass/Overpass	Figueroa St & Santa Fe Railway	x			Conceptual
24.09	Project 184: 110 Freeway Underpass at Arroyo Seco	Pasadena Fwy & Ave 19	x			Conceptual
24	Project 186: Elysian Park Non-Motorized Bridge	Arroyo Seco Confluence	x			Conceptual
23.55	Project 198: Chinatown / Cornfield Opportunity Area Outdoor Classroom	Blake St & Santa Fe Railway	x			TBD
23.53	Project 190: Broadway Bridge Underpass	Broadway & LA River	x			TBD

Source: OLIN, Gehry Partners, Geosyntec

XS, S PROJECTS INDEX

RM	Name	Approx. Location	Los Angeles River Revitalization Master Plan	Lower LA River Revitalization Plan	LA River Master Plan Update	Status
23.53	Project 192: Broadway River Bridge	Broadway & LA River	x			TBD
23.52	Project 200: Chinatown / Cornfield Regional Gateway	Blake Street at Los Angeles State Historical Park	x			TBD
23.5	Project 194: Cornfields Non-Motorized Bridge	North of Spring St & LA River	x			TBD
23.41	Project 193: Los Angeles State Historic Park Portal	South of Spring St & LA River	x			Conceptual
23.23	Main St West	See name	Recommended underpass			TBD
23.22	Project 205: North Main Street under 5 Freeway Portal	Main St & Golden State Fwy	x			Conceptual
22.9	Project 209: Mission Yard River Park	North of Mission Rd	x			Complete or in Design/Planning
22.68	Project 208: Mission Yard River Loop	Lamar St	x			Complete or in Design/Planning
22.33	Project 210: East Side Soccer Fields Complex	Mission Rd & Cesar E Chavez Ave	x			Conceptual
22.11	Project 212: Commercial Street Pocket Park	Commercial St & Santa Fe Railroad	x			Conceptual
21.8	Project 215: First Street River Bridge	1st St & LA River	x			Conceptual
21.35	Project 218: Fourth Street River Bridge	4th St & LA River	x			Conceptual
21.17	Project 226: Downtown / Industrial Non-Motorized Bridge	North of 6th St & LA River	x			Conceptual
21.06	Project 228: Hollenbeck Park / Inex Street Paseo	6th St & Clarence St	x			Conceptual
21.01	Project 231: Industrial Street and Jesse Street Pocket Park	Jesse St & Mesquit St	x			Conceptual
20.99	Project 223: Downtown / Industrial Regional Gateway	Jesse St & LA River	x			Conceptual
20.79	Project 219: Downtown Industrial River Park	7th Pl & Mission Rd	x			Conceptual
20.75	Project 224: Downtown / Industrial Outdoor Classroom	Mission Rd	x			Conceptual
20.64	Project 232: Seventh Street River Park	Mission Rd	x			Conceptual
20.59	Project 235: Bay Street and Sacramento Street Pocket Park	Sacramento St & Santa Fe Railroad	x			Conceptual
20.58	Project 234: Sacramento Street and Railway Portal	Sacramento St & LA River	x			Conceptual
20.23	Olympic Blvd & Santa Fe Railway	See name			x	n/a
20.16	Project 236: Rio Vista Blufftop Park	Olympic Blvd & Rio Vista Ave	x			Conceptual
19.84	Project 239: Crown River Gateway and Ecological Park	West of Perrino Pl at LA River	x			Conceptual
19.43	26th St West of Soto St	See name			x	n/a
19.18	Soto St	See name		102 - Soto Street, opportunity to improve river crossing		TBD

Source: OLIN, Gehry Partners, Geosyntec

XS, S PROJECTS INDEX

RM	Name	Approx. Location	Los Angeles River Revitalization Master Plan	Lower LA River Revitalization Plan	LA River Master Plan Update	Status
18.98	Bandini Blvd West	See name		103 - Bandini Boulevard, opportunity to improve crossing		TBD
18.86	Bandini Blvd, northeast of LA River	See name		103 - Bandini Boulevard, opportunity to improve crossing		TBD
18.34	Bandini Islands	See name			x	n/a
18.33	Vernon Ave & Union Pacific Railroad	See name			x	n/a
18.18	Downey Rd North	See name		104 - Downey Road, opportunity to improve crossing		TBD
18.02	Bandini Blvd, north of LA River	See name		121 - Bandini WQ / Riverside Park		TBD
17.87	Charter St & Santa Fe Railway	See name			x	n/a
17.43	Bandini Blvd, west of Atlantic Interchange	See name			x	n/a
17.18	District Blvd & Gifford Avenue	See name			x	n/a
15.31	Casitas Ave & Randolph St	See name			x	n/a
14.75	Southall Lane & River Dr	See name			x	n/a
14.51	Florence Ave, east of Long Beach Fwy	See name		Gateway		TBD
13.68	Fostoria St & Jaboneria Rd	See name		67 - Shull Park, separated from river by 710, potential for environmental remediation		TBD
13.53	Jaboneria Rd & Southern Pacific Railroad	See name	Trail access point			TBD
13.53	Long Beach Fwy & Southern Pacific Railroad	See name		145 - Greenway opportunity along Southern Pacific Transportation Railway		TBD
12.24	Blumont Rd	See name		Multi-use bridge with emergency access		TBD
11.54	Gardendale St at Hollydale Park	See name			x	n/a

Source: OLIN, Gehry Partners, Geosyntec

XS, S PROJECTS INDEX

RM	Name	Approx. Location	Los Angeles River Revitalization Master Plan	Lower LA River Revitalization Plan	LA River Master Plan Update	Status
10.7	Cloverlawn Dr	See name			x	n/a
10.35	De Bie Dr & Orane Ave	See name			x	n/a
10.07	Whitehall Way & LA River	See name			x	n/a
9.8	San Juan St at Ralph C. Dills Park	See name		64 - Compton Golf Course and Park, extend green area to school, add multi-use trail with access pts		TBD
9.38	Somerset Blvd at Long Beach Fwy	See name			x	n/a
9.15	Dominguez High School	See name		64 - Extend green area to include school, provide multi-use trail with access points at each street		TBD
8.89	Alondra Blvd & Long Beach Fwy	See name			x	n/a
8.53	71st St, west of Atlantic Pl	See name			x	n/a
8.25	68th St & Atlantic Ave	See name			x	n/a
7.84	Artesia Blvd at Long Beach Fwy	See name			x	n/a
7.5	63rd St & De Forest Ave	See name			x	n/a
7.46	Adams St & White Ave, at Coolidge Park	See name		22 - Gateway, Coolidge Park accessible only from neighborhood, walled toward freeway side		TBD
6.32	Market St	See name			x	n/a
5.55	48th St & Virginia Vista Ct	See name			x	n/a
5.12	Virginia Vista Ct	See name			x	n/a
4.57	NAME TBD	See name			x	n/a
4.18	Baker St	See name			x	n/a
3.36	Spring St & De Forest Ave	See name			x	n/a
2.73	25th St & De Forest Ave	See name		Multi-use path access point, low flow channel crossing		TBD

Source: OLIN, Gehry Partners, Geosyntec

XS, S PROJECTS INDEX

RM	Name	Approx. Location	Los Angeles River Revitalization Master Plan	Lower LA River Revitalization Plan	LA River Master Plan Update	Status
2.6	Burnett St & De Forest Ave	See name		Multi-use path access - vol 1 p. 99		TBD
2.49	23rd St & De Forest Ave	See name		Multi-use path access - vol 1 p. 99		TBD
2.36	Hill St West	See name		88 - Multi-use bridge to provide pedestrian / bike access over river and freeways		TBD
2.34	Hill St East	See name		88 - Multi-use bridge to provide pedestrian / bike access over river and freeways		TBD
2.23	21st St & De Forest Ave	See name		Multi-use path access - vol 1 p. 99		TBD
2.11	20th St & Long Beach Fwy	See name		Multi-use path access - vol 1 p. 99		TBD
1.98	19th St & De Forest Ave	See name		Multi-use path access - vol 1 p. 99		TBD
0.67	5th St & Long Beach Fwy	See name			x	n/a

Source: OLIN, Gehry Partners, Geosyntec

PLANNED MAJOR PROJECTS: M, L, XL

Planned Major Project: LARRMP

RM 51.1

River Origin Park

Frame 9

Los Angeles

M / 6.7 acres

Land Ownership:
97% Public (Non-County), 1% Privately Owned, 1% County Owned, 1% Unclassified

Congressional District: 30

Supervisor District: 3

Council District: 27

State Senate: 27

State Assembly: 3

Planned Major Project: LARRMP

RM 50.6

Canoga Park River Park

Frame 9

Los Angeles

M / 16.5 acres

Land Ownership:
40% Privately Owned, 22% County Owned, 21% Unclassified, 17% Public (Non-County)

Congressional District: 30

Supervisor District: 3

Council District: 3

State Senate: 27

State Assembly: 45

Planned Major Project: LARRMP

RM 47.4

Aliso Creek Confluence Park / Reseda River Loop

Frame 9

Los Angeles

M / 26.9 acres

Land Ownership:
66% County Owned, 21% Privately Owned, 13% Unclassified

Congressional District: 30

Supervisor District: 3

Council District: 3

State Senate: 27

State Assembly: 45

Planned Major Project: LARRMP

RM 46.5

Caballero Creek Confluence Park

Frame 9

Los Angeles

M / 1.5 acres

Land Ownership:
80% Public (Non-County), 20% County Owned

Congressional District: 30

Supervisor District: 3

Council District: 3

State Senate: 27

State Assembly: 45

Planned Major Project: LARRMP

RM 44

Sepulveda Basin

Frame 9

Los Angeles

XL / 1884.2 acres

Land Ownership:
100% Public (Non-County)

Congressional District: 30

Supervisor District: 3

Council District: 6

State Senate: 27

State Assembly: 45

Source: OLIN, Geosyntec, Gehry Partners

PLANNED MAJOR PROJECTS: M, L, XL

Planned Major Project: LARRMP

RM 41.2

Hazeltine River Edge Park

Frame 8

Los Angeles

M / 3.5 acres

Land Ownership:
51% Unclassified, 43% County Owned, 6% Privately Owned

Congressional District: 30

Supervisor District: 3

Council District: 4

State Senate: 18

State Assembly: 46

Planned Major Project: LARRMP

RM 40.9

Hazeltine Avenue

Frame 8

Los Angeles

M / 1.1 acres

Land Ownership:
91% Unclassified, 9% County Owned

Congressional District: 30

Supervisor District: 3

Council District: 4

State Senate: 18

State Assembly: 46

Planned Major Project

RM 38.8

LA River Natural Park

Frame 8

Los Angeles

M / 17.2 acres

Land Ownership:
94% Privately Owned, 6% Public (Non-County)

Congressional District: 30

Supervisor District: 3

Council District: 2

State Senate: 18

State Assembly: 46

Planned Major Project: LARRMP

RM 37.6

Tujunga Wash Confluence Park

Frame 7

Los Angeles

M / 1.4 acres

Land Ownership:
100% Privately Owned

Congressional District: 30

Supervisor District: 3

Council District: 2

State Senate: 18

State Assembly: 46

Planned Major Project: LARRMP

RM 37

Colfax Ave to Tujunga Blvd, Ventura Blvd to the River

Frame 7

Los Angeles

M / 13.1 acres

Land Ownership:
76% Privately Owned, 20% County Owned, 4% Unclassified

Congressional District: 30

Supervisor District: 3

Council District: 2

State Senate: 18

State Assembly: 46

Source: OLIN, Geosyntec, Gehry Partners

PLANNED MAJOR PROJECTS: M, L, XL

Planned Major Project

RM 33.5

Sennett Creek

Frame 7

Los Angeles

M / 20.8 acres

Land Ownership:
90% Privately Owned, 8% Public (Non-County), 2% Unclassified

Congressional District: 28

Supervisor District: 3

Council District: 4

State Senate: 25

State Assembly: 43

Planned Major Project: LARRMP

RM 33

Headworks Park

Frame 7

Los Angeles

L / 52.8 acres

Land Ownership:
83% Public (Non-County), 17% Unclassified

Congressional District: 28

Supervisor District: 3

Council District: 4

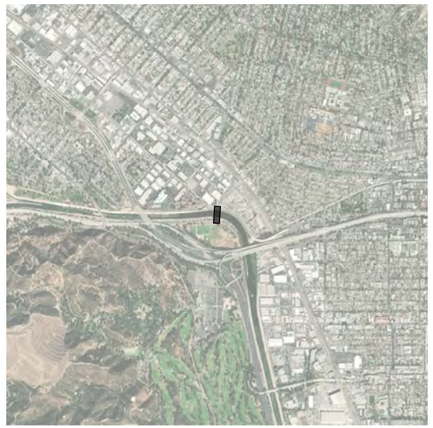
State Senate: 25

State Assembly: 43

Planned Major Project: LARRMP

RM 31

Glendale Riverwalk Non-Motorized Bridge



Frame 6

Los Angeles

M / 2.2 acres

Land Ownership:
82% Public (Non-County), 13% Unclassified, 5% County Owned

Congressional District: 28

Supervisor District: 3

Council District: 4

State Senate: 25

State Assembly: 43

Planned Major Project

RM 30.8

Glendale Narrows Riverwalk

Frame 6

Los Angeles

M / 2.1 acres

Land Ownership:
62% Public (Non-County), 29% County Owned, 5% Privately Owned, 4% Unclassified

Congressional District: 28

Supervisor District: 3,5

Council District: 4

State Senate: 25

State Assembly: 43

Planned Major Project: LARRMP, ARBOR Study

RM 30.5

River Glen Wetlands

Frame 6

Los Angeles

M / 4.6 acres

Land Ownership:
91% Privately Owned, 9% Unclassified

Congressional District: 28

Supervisor District: 3

Council District: 13

State Senate: 25

State Assembly: 43

Source: OLIN, Geosyntec, Gehry Partners

PLANNED MAJOR PROJECTS: M, L, XL

Planned Major Project

RM 29.1

North Atwater Crossing

Frame 6

Los Angeles

L / 0.7 acres

Land Ownership:
100% Public (Non-County)

Congressional District: 28

Supervisor District: 3

Council District: 4, 13

State Senate: 25

State Assembly: 43

Planned Major Project

RM 27.7

Red Car Bridge

Frame 6

Los Angeles

M / 0.9 acres

Land Ownership:
77% County Owned, 15% Unclassified, 8% Public (Non-County)

Congressional District: 28

Supervisor District: 3

Council District: 4, 13

State Senate: 25

State Assembly: 51

Planned Major Project: ARBOR Study

RM 26.2

G1 Bowtie

Frame 6

Los Angeles

M / 20.4 acres

Land Ownership:
93% Public (Non-County), 7% Privately Owned

Congressional District: 28

Supervisor District: 1

Council District: 1

State Senate: 24

State Assembly: 51

Planned Major Project: LARRMP, ARBOR Study

RM 25.6

G2 Taylor Yard

Frame 6

Los Angeles

L / 41.6 acres

Land Ownership:
100% Privately Owned

Congressional District: 28

Supervisor District: 1

Council District: 1

State Senate: 24

State Assembly: 51

Planned Major Project: LARRMP

RM 25.3

Dorris Place Sanitation Yard

Frame 6

Los Angeles

L / 7.5 acres

Land Ownership:
87% Public (Non-County), 12% Privately Owned, 1% Unclassified

Congressional District: 28

Supervisor District: 1

Council District: 13

State Senate: 24

State Assembly: 51

Source: OLIN, Geosyntec, Gehry Partners

PLANNED MAJOR PROJECTS: M, L, XL

Planned Major Project: LARRMP

RM 25.2

Taylor Yard Non-Motorized Bridge

Frame 6

Los Angeles

L / 0.9 acres

Land Ownership:
78% Public (Non-County), 22% Privately Owned

Congressional District: 28

Supervisor District: 1

Council District: 13

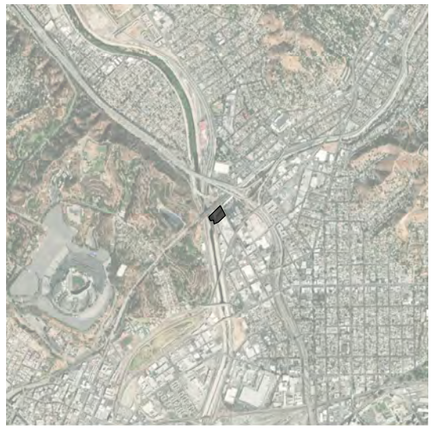
State Senate: 24

State Assembly: 51

Planned Major Project: LARRMP

RM 24.1

Arroyo Seco Gateway Confluence Park



Frame 5

Los Angeles

M / 3.5 acres

Land Ownership:
60% Public (Non-County), 23% Privately Owned, 17% Unclassified

Congressional District: 34

Supervisor District: 1

Council District: 1

State Senate: 24

State Assembly: 51

Planned Major Project: LARRMP

RM 23.5

Bending the River

Frame 5

Los Angeles

M / 21.7 acres

Land Ownership:
41% Public (Non-County), 27% Privately Owned, 21% County Owned, 11% Unclassified

Congressional District: 34

Supervisor District: 1

Council District: 1

State Senate: 24

State Assembly: 51

Planned Major Project: ARBOR Study

RM 23.2

Main Street Terrace

Frame 5

Los Angeles

L / 1.5 acres

Land Ownership:
100% Public (Non-County)

Congressional District: 34

Supervisor District: 1

Council District: 1

State Senate: 24

State Assembly: 51

Planned Major Project: LARRMP, ARBOR Study

RM 22.6

Piggyback Yard

Frame 5

Los Angeles

XL / 162.4 acres

Land Ownership:
97% Privately Owned, 2% Unclassified, 1% County Owned

Congressional District: 34

Supervisor District: 1

Council District: 14

State Senate: 24

State Assembly: 51

Source: OLIN, Geosyntec, Gehry Partners

PLANNED MAJOR PROJECTS: M, L, XL

Planned Major Project: LARRMP

RM 21.5

First Street to Sixth Street River Loop

Frame 5

Los Angeles

L / 63.5 acres

Land Ownership:
58% County Owned, 25% Privately Owned, 8% Public (Non-County), 9% Unclassified

Congressional District: 34

Supervisor District: 1

Council District: 14

State Senate: 24

State Assembly: 53

Planned Major Project: City of LA

RM 21.1

6th Street Viaduct

Frame 5

Los Angeles

M / 6.5 acres

Land Ownership:
37% Unclassified, 29% Privately Owned, 28% Public (Non-County), 6% County Owned

Congressional District: 35

Supervisor District: 1

Council District: 14

State Senate: 24

State Assembly: 53

Planned Major Project: LLARRP

RM 16.2

Upper Segment Multi-use Easement and Atlantic Blvd Area

Frame 4

Vernon, Bell

L / 61.4 acres

Land Ownership:
66% Public (Non-County), 14% Privately Owned, 14% Unclassified, 6% County Owned

Congressional District: 40

Supervisor District: 1

Council District: n/a

State Senate: 33

State Assembly: 53, 63

Planned Major Project: Metro

RM 15.3

Active Transportation Rail to River Corridor: Randolph Street

Frame 4

Bell, Maywood, Huntington Park, Vernon

L / 113.7 acres

Land Ownership:
54% Privately Owned, 44% Unclassified, 2% Public (Non-County)

Congressional District: 40

Supervisor District: 1

Council District: n/a

State Senate: 33

State Assembly: 53, 59, 63

Planned Major Project: LLARRP

RM 13.9

Cudahy River Park

Frame 3

Cudahy

M / 32 acres

Land Ownership:
51% Public (Non-County), 29% Privately Owned, 18% Unclassified, 2% County Owned

Congressional District: 40

Supervisor District: 1

Council District: n/a

State Senate: 33

State Assembly: 63

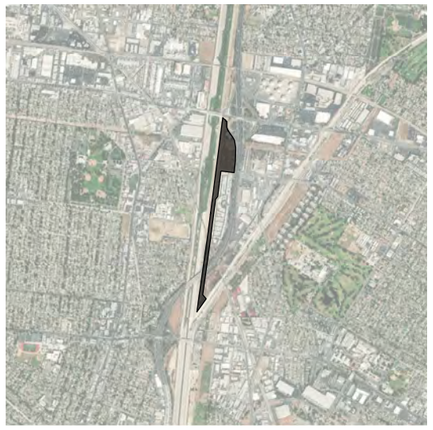
Source: OLIN, Geosyntec, Gehry Partners

PLANNED MAJOR PROJECTS: M, L, XL

Planned Major Project: LLARRP

RM 12.7

South Gate Orchard



Frame 3

South Gate

L / 27.8 acres

Land Ownership:
56% Public (Non-County), 29% Privately Owned, 10% County Owned, 5% Unclassified

Congressional District: 44

Supervisor District: 1

Council District: n/a

State Senate: 33

State Assembly: 63

Planned Major Project

RM 12

Dos Rios Park

Frame 3

South Gate

M / 6.9 acres

Land Ownership:
100% Privately Owned

Congressional District: 44

Supervisor District: 1

Council District: n/a

State Senate: 33

State Assembly: 63

Planned Major Project

RM 11.8

Rio Hondo Confluence

Frame 3

South Gate

XL / 164.6 acres

Land Ownership:
38% Privately Owned, 33% Public (Non-County), 16% County Owned, 13% Unclassified

Congressional District: 44

Supervisor District: 1, 2

Council District: n/a

State Senate: 33

State Assembly: 63

Planned Major Project

RM 11.7

SELA Cultural Center

Frame 3

South Gate

M / 10 acres

Land Ownership:
98% County Owned, 2% Unclassified

Congressional District: 44

Supervisor District: 1

Council District: n/a

State Senate: 33

State Assembly: 63

Planned Major Project: LLARRP

RM 7.2

Middle Segment Multi-use Easement and Crossover

Frame 2

Long Beach, Unincorporated

L / 148.1 acres

Land Ownership:
80% Privately Owned, 10% Public (Non-County), 6% County Owned, 4% Unclassified

Congressional District: 44

Supervisor District: 4

Council District: n/a

State Senate: 33, 35

State Assembly: 63, 64

Source: OLIN, Geosyntec, Gehry Partners

PLANNED MAJOR PROJECTS: M, L, XL

Planned Major Project: LLARRP

RM 5.5

Compton Creek Confluence Area

Frame 2

Long Beach

L / 87.9 acres

Land Ownership:
52% County Owned, 44% Privately Owned, 4% Unclassified

Congressional District: 44, 47

Supervisor District: 2, 4

Council District: n/a

State Senate: 33, 35

State Assembly: 64

Planned Major Project: LLARRP

RM 4.4

Wrigley Heights River Park

Frame 2

Long Beach

L / 63.7 acres

Land Ownership:
60% Privately Owned, 25% County Owned, 10% Unclassified, 5% Public (Non-County)

Congressional District: 44, 47

Supervisor District: 4

Council District: n/a

State Senate: 33

State Assembly: 70

Planned Major Project: LLARRP

RM 2.9

Willow Street

Frame 1

Long Beach

M / 11.8 acres

Land Ownership:
98% Unclassified, 1% Public (Non-County), 1% Privately Owned

Congressional District: 47

Supervisor District: 4

Council District: n/a

State Senate: 33, 35

State Assembly: 70

Planned Major Project: LLARRP

RM 1.6

South of Willow Street

Frame 1

Long Beach

XL / 258.7 acres

Land Ownership:
62% County Owned, 26% Unclassified, 12% Privately Owned

Congressional District: 47

Supervisor District: 4

Council District: n/a

State Senate: 33, 35

State Assembly: 70

Planned Major Project: City of Long Beach

RM 0.9

Long Beach Municipal Urban Stormwater Treatment

Frame 1

Long Beach

M / 8.2 acres

Land Ownership:
68% Public (Non-County), 12% County Owned, 11% Privately Owned, 9% Unclassified

Congressional District: 47

Supervisor District: 4

Council District: n/a

State Senate: 33

State Assembly: 70

Source: OLIN, Geosyntec, Gehry Partners

PLANNED MAJOR PROJECTS: M, L, XL

Planned Major Project: LLARRP

RM 0.7

Shoemaker Bridge Replacement

Frame 1

Long Beach

XL / 179.9 acres

Land Ownership:
54% Unclassified, 26% Public (Non-County), 11% County Owned, 9% Privately Owned

Congressional District: 47

Supervisor District: 4

Council District: n/a

State Senate: 33

State Assembly: 70

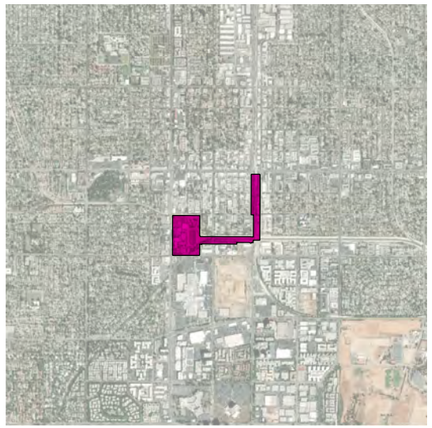
Source: OLIN, Geosyntec, Gehry Partners

M, L, XL SITE-BASED PROJECTS

LARMP Proposed Project

RM 51

Canoga High School



Frame 9

Los Angeles

L / 44.4 acres

Land Ownership:
56% Public (Non-County), 41% County, 3% Unclassified

Congressional District: 30

Supervisor District: 3

Council District: 3

State Senate: 27

State Assembly: 45

LARMP Proposed Project

RM 48.9

Pierce College Connector

Frame 9

Los Angeles

M / 13.9 acres

Land Ownership:
86% County, 10% Public (Non-County), 4% Private, 0% Unclassified

Congressional District: 30

Supervisor District: 3

Council District: 3

State Senate: 27

State Assembly: 45

LARMP Proposed Project

RM 46.8

Reseda Expansion

Frame 9

Los Angeles

L / 19 acres

Land Ownership:
87% County, 13% Unclassified

Congressional District: 30

Supervisor District: 3

Council District: 3

State Senate: 27

State Assembly: 45

LARMP Proposed Project

RM 40.8

Van Nuys Blvd

Frame 8

Los Angeles

M / 19.6 acres

Land Ownership:
57% County, 41% Unclassified, 2% Private

Congressional District: 30

Supervisor District: 3

Council District: 4

State Senate: 10

State Assembly: 46

LARMP Proposed Project

RM 39.4

West of Coldwater

Frame 8

Los Angeles

M / 7.6 acres

Land Ownership:
94% County, 6% Unclassified

Congressional District: 30

Supervisor District: 3

Council District: 2

State Senate: 10

State Assembly: 46

Sources: OLIN, Gehry Partners, Geosyntec

M, L, XL SITE-BASED PROJECTS

LARMP Proposed Project

RM 38.2

Upstream from Tujunga Confluence

Frame 8

Los Angeles

M / 15.7 acres

Land Ownership:
81% County, 19% Unclassified

Congressional District: 30

Supervisor District: 3

Council District: 2

State Senate: 10

State Assembly: 46

LARMP Proposed Project

RM 35.9

101 Freeway Crossing

Frame 7

Los Angeles

M / 11.5 acres

Land Ownership:
60% County, 22% Unclassified, 18% Private

Congressional District: 30

Supervisor District: 3

Council District: 2

State Senate: 10

State Assembly: 46

LARMP Proposed Project

RM 32.8

Headworks Connector

Frame 7

Los Angeles

XL / 225.7 acres

Land Ownership:
68% Public (Non-County), 30% Unclassified, 1% Private, 1% County

Congressional District: 28, 30

Supervisor District: 3, 5

Council District: 4

State Senate: 25

State Assembly: 43

LARMP Proposed Project

RM 30.9

Ferraro Fields

Frame 6

Los Angeles

L / 52.2 acres

Land Ownership:
77% Public (Non-County), 14% Unclassified, 9% County

Congressional District: 28

Supervisor District: 3, 5

Council District: 4

State Senate: 25

State Assembly: 43

LARMP Proposed Project

RM 21.6

Downtown Train Yard

Frame 5

Los Angeles

M / 15.1 acres

Land Ownership:
80% Public (Non-County), 20% County

Congressional District: 34

Supervisor District: 1

Council District: 14

State Senate: 24

State Assembly: 53

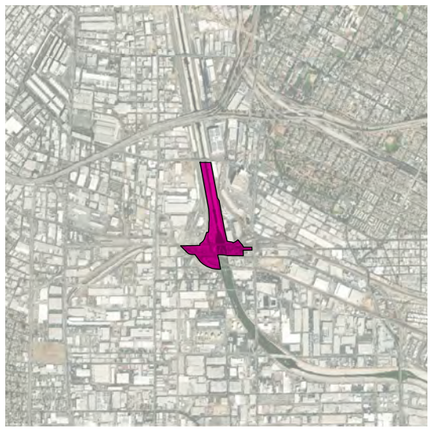
Sources: OLIN, Gehry Partners, Geosyntec

M, L, XL SITE-BASED PROJECTS

LARMP Proposed Project

RM 19.9

East Washington Blvd



Frame 5

Los Angeles

L / 45.6 acres

Land Ownership:
63% Public (Non-County), 20% Private, 12% Unclassified, 5% County

Congressional District: 34

Supervisor District: 1

Council District: 14

State Senate: 24

State Assembly: 53

LARMP Proposed Project

RM 15.8

Maywood Park Bend

Frame 4

Maywood

L / 126.7 acres

Land Ownership:
72% County, 11% Public (Non-County), 9% Private, 8% Unclassified

Congressional District: 40

Supervisor District: 1

Council District: n/a

State Senate: 33

State Assembly: 53, 63

LARMP Proposed Project

RM 14.1

Clara Street

Frame 3

Cudahy

L / 54.7 acres

Land Ownership:
60% County, 23% Public (Non-County), 10% Unclassified, 7% Private

Congressional District: 40

Supervisor District: 1

Council District: n/a

State Senate: 33

State Assembly: 63

LARMP Proposed Project

RM 12.9

Firestone Blvd

Frame 3

South Gate

L / 56 acres

Land Ownership:
52% County, 26% Public (Non-County), 16% County, 6% Unclassified

Congressional District: 44

Supervisor District: 1

Council District: n/a

State Senate: 33

State Assembly: 63

LARMP Proposed Project

RM 10.5

Highway 105

Frame 3

Paramount

L / 105.9 acres

Land Ownership:
54% Unclassified, 20% Private, 16% Public (Non-County), 10% County

Congressional District: 40, 44

Supervisor District: 4

Council District: n/a

State Senate: 33

State Assembly: 63

Sources: OLIN, Gehry Partners, Geosyntec

M, L, XL SITE-BASED PROJECTS

LARMP Proposed Project

RM 10.2

E Rosecrans Ave

Frame 3

Paramount

M / 34.4 acres

Land Ownership:
42% Private, 38% County, 20% Unclassified

Congressional District: 40

Supervisor District: 4

Council District: n/a

State Senate: 33

State Assembly: 63

LARMP Proposed Project

RM 8.1

Connectivity Corridor

Frame 2

Long Beach

M / 39.7 acres

Land Ownership:
58% County, 33% Private, 5% Public (Non-County), 4% Unclassified

Congressional District: 44

Supervisor District: 4

Council District: n/a

State Senate: 33, 35

State Assembly: 63, 64

LARMP Proposed Project

RM 6.3

Sutter Bend at Del Amo Blvd

Frame 2

Long Beach

L / 141 acres

Land Ownership:
64% County, 30% Unclassified, 4% Private, 2% Public (Non-County)

Congressional District: 44

Supervisor District: 2, 4

Council District: n/a

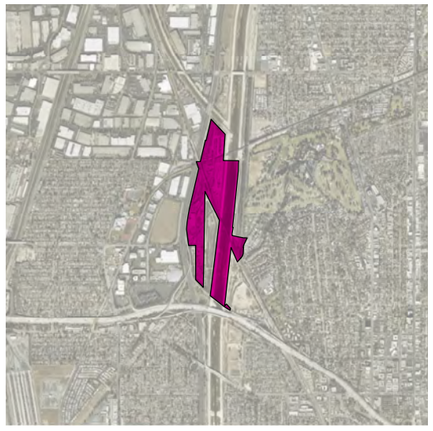
State Senate: 33, 35

State Assembly: 64

LARMP Proposed Project

RM 5.1

W 47th St / Rancho Los Cerritos



Frame 2

Long Beach

L / 117.8 acres

Land Ownership:
62% County, 35% Private, 2% Unclassified, 1% Public (Non-County)

Congressional District: 44, 47

Supervisor District: 4

Council District: n/a

State Senate: 33

State Assembly: 70

LARMP Proposed Project

RM 3.7

W 28th St to 405 Freeway

Frame 1

Long Beach

L / 97.4 acres

Land Ownership:
97% County, 3% Unclassified

Congressional District: 47

Supervisor District: 4

Council District: n/a

State Senate: 33, 35

State Assembly: 70

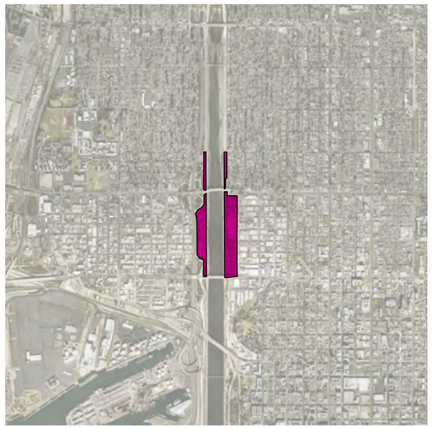
Sources: OLIN, Gehry Partners, Geosyntec

M, L, XL SITE-BASED PROJECTS

LARMP Proposed Project

RM 1.7

Middle Long Beach



Frame 1

Long Beach

M / 39.9 acres

Land Ownership:
40% Private, 28% County, 22% Unclassified, 10% Public (Non-County)

Congressional District: 47

Supervisor District: 4

Council District: n/a

State Senate: 33

State Assembly: 70

Sources: OLIN, Gehry Partners, Geosyntec