

## **DRAFT**

Initial Watershed Plan Executive Summary Santa Clara River Watershed Area

August 2025





## Introduction to Watershed Planning

The Safe, Clean Water Program (SCW Program) was established to improve water quality, enhance local water supply, and deliver community investments that advance sustainability, equity, and climate resilience. As the nation's largest stormwater-focused program, the SCW Program supports multi-benefit Projects and Programs that improve water quality while delivering meaningful outcomes for communities across the Los Angeles region.

In July 2023, the Los Angeles County Board of Supervisors adopted a motion 1 to accelerate implementation of the SCW Program through a comprehensive Watershed Planning effort to identify areas in the region that provide opportunities for developing impactful water quality, water supply, and community enhancing multi-benefit Projects. This motion also established a new, dedicated team within Los Angeles County Public Works (Public Works), known as the SCW Program Watershed Planning Section, to lead Watershed Planning efforts and facilitate regional and watershed-based planning. Watershed Planning efforts identify opportunities and refine metrics, called Indicators and targets to support a range of interested parties—Public Works, the Regional Oversight Committee (ROC), the Watershed Area Steering Committees (WASCs), Scoring Committee (SC), Municipalities, Project and Program proponents, advocacy groups, schools and school districts, and others—in tracking SCW Program progress and making strategic investments in the most impactful multi-benefit Projects and Programs. A major milestone of Watershed Planning includes the delivery of nine Initial Watershed Plans, one for each SCW Program Watershed Area (WA), and a companion online Watershed Planning Tool (Planning Tool).

This SCW Program Initial Watershed Plan for the Santa Clara River (SCR) WA, and the <u>Planning Tool</u>, offer guidance to Public Works, the SCR WASC, Municipalities, and Project and Program proponents for the advancement of Projects and Programs that deliver multiple benefits to support progress toward achieving the 14 SCW Program Goals (Goals).

Developed through a collaborative and responsive phased engagement approach<sup>2</sup>, the Initial Watershed Plans incorporate engagement input from the SCW Program governance committees (i.e., the WASCs, ROC, and SC) and other interested parties (i.e., OurWaterLA, schools). The Initial Watershed Plans reflect governance committee

<sup>&</sup>lt;sup>1</sup>Board of Supervisors Motion of Jul 25, 2023, Item 23 Accelerating Implementation of the SCW Program.

<sup>&</sup>lt;sup>2</sup> The Initial Watershed Plan engagement process followed a "listen–confirm–advance" approach—listening to input from the WASC and ROC, confirming a shared understanding to ensure alignment, and using validated input to guide analyses and set priorities. See Chapter 1 and Appendix C for more information on engagement.

priorities and draw on their regional expertise. Initial Watershed Plans are not allpurpose watershed management plans; rather, they define what can be achieved within the scope and financial framework of the SCW Program. Key takeaways from this Initial Watershed Plan are listed below with supporting infographics to follow:

- Key WA characteristics, including challenges and potential to advance the 14 Goals,
- Summary of benefits by SCW Program Projects funded to date (baselines),
- Aspirational and quantitative SCW Program- and WA-wide targets for future outcomes that are rooted in the Goals,
- Strategies, actions, and opportunities to address WA Needs and local priorities to enhance the delivery of benefits provided by SCW Program Projects and Programs, and
- Next steps and recommendations for Adaptive Management for the continued advancement and improvement of the SCW Program.

The Initial Watershed Plans and Planning Tool support the acceleration of progress toward and tracking of Goals and clearly communicate governance committee direction and priorities. The following interested parties can use these resources as follows:



- Public Works, the ROC, the SC, and WASCs can use these resources to communicate priorities, assess Project benefits, and guide future Stormwater Investment Plans and funding decisions.
- Municipalities and Project, Program, Project Concept, and Scientific Study proponents can align Projects and Programs with strategies and WA and community priorities, identify opportunities, and select design features that address WA Needs. For Municipalities, these resources may support Municipal Annual Plans. Alignment with the Initial Watershed Plans is required when planning and applying for SCW Program funding.
- Community members, the regulatory community, and other interested parties can learn about Initial Watershed Plan outputs, explore local Project benefits, and advocate for priorities through the Community Strengths and Needs Assessment (CSNA) Survey.

Together, the Initial Watershed Plans and Planning Tool launch an Adaptive Watershed Planning cycle that assesses progress and prompts adjustments to targets and strategies to address future priorities, as needed.

This figure is a visual table of contents which outlines the chapters of the SCR WA Initial Watershed Plan.

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#### Introduction

Provides SCW Program background, introduces Watershed Planning and its process, details Watershed Planning engagement, and highlights key supporting efforts, including SCW Program Scientific Studies and the Metrics and Monitoring Study.



(2)

#### **Watershed Area Characteristics**

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Summarizes Watershed Area characteristics to provide an overview of its potential and challenges in achieving SCW Program Goals. These characteristics inform tailored targets and strategies for the Watershed Area.

(3)

#### Baselines of Benefits Provided by Funded Projects (FY20-21 to FY 24-25)

Summarizes funded SCW Program Projects and estimates baselines and forecasts, providing a foundation for adaptive Watershed Planning.

Initial Watershed

## Quantifying Progress Toward SCW Program Goals

Introduces metrics for quantifying SCW Program Project benefits and sets initial targets for tracking progress toward SCW Program Goals.

Plan
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5 Strategies for Addressing Needs and Achieving Goals

Identifies Watershed Area Needs and outlines strategies, actions, and opportunities to address Watershed Area Needs and support achievement of SCW Program Goals. Composite opportunities—those that integrate strategies which support multiple SCW Program Goals—are also outlined to support streamlined, multi-benefit Project implementation.



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#### **Watershed Planning Tool**

Introduces the online Watershed Planning Tool that supports strategic decision-making and communicates SCW Program progress through an interactive map and dashboard.

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#### **Next Steps and Recommendations**

Outlines key Initial Watershed Plan limitations and data gaps and provides recommendations to advance Watershed Planning through Watershed Planning Tool updates and future Adaptive Watershed Plans.

A-J

#### **Appendices**

Provides definitions for key Watershed Planning terms, Indicators, and Performance Measures. Summarizes Watershed Planning engagement and the Community Strengths and Needs Assessment (CSNA). Summarizes analyses and data sources used to establish baselines, set targets, and identify opportunities. Features full-page opportunity maps for the Watershed Area, individual Municipalities, and Supervisorial Districts.

## Watershed Area Characteristics

The following WA characteristics offer insight into where there is potential to achieve Goals and where challenges persist. Understanding these WA-specific factors helps establish SCW Program targets and identification of meaningful strategies to support the long-term achievement of Goals.

See Chapter 2

The SCR WA includes one Municipality, Santa Clarita (14%), with the remaining WA falling across parts of Unincorporated Los Angeles County (86%). The WA spans approximately 307,000 acres beginning in the San Gabriel Mountains, flowing westerly toward the Oxnard plain before discharging to the Pacific Ocean in the Ventura Marina. Approximately 90% of the WA is open space, that features diverse riparian habitat and wildlife. However, there are regions of dense development in the SCR WA, particularly in areas such as the City of Santa Clarita. The SCR WA endures infrequent yet intense storms, which produce unpredictable and flashy flows. Improvements in stormwater management will be essential to protect water quality and maintain environmental and public health as the WA produces substantial runoff; 94,600 acre-feet per year (ac-ft/yr), which is anticipated to increase with development and climate change.



The following Municipalities are located within the SCR WA, with the Municipality covering the largest portion of the WA listed first.

**Unincorporated County, Santa Clarita** 

Other key SCR WA characteristics include:

- Bacteria is the priority pollutant
- 7% of land cover consists of impervious surfaces
- 14% of the urban area is covered by tree canopy
- 44% of the SCR WA is Parks and open space
- 8% of the total population resides in a disadvantaged community (DAC)
- Spans three managed groundwater basin: Antelope Valley, Acton Valley and Santa River Valley Basins

This panel details key potential opportunities and challenges for delivering water quality (top). water supply (middle) and community (bottom) benefits.

### Potential & Challenges for Delivering Water Quality Benefits



Limited flood control in natural reaches and high pollutant loads from urban runoff contribute to water quality impairments, but there are opportunities for multi-benefit solutions that address both sources.

#### **Potential**

- Large areas of open space with permeable soils in the less developed areas of the WA can support a wide range of multi-benefit stormwater management Projects.
- The Santa Clara River remains in a near natural state which may increase feasibility for in-stream treatment.

#### Challenges

- Storm events in the SCR WA are infrequent but intense, resulting in large and unpredictable volumes of runoff over short periods of time. This requires a holistic approach for effective water quality management.
- Lack of lightly utilized open space for large regional Projects or nature-based surface features within the developed Watershed Area may require more numerous, smaller-scale distributed solutions.



#### **Potential & Challenges for Delivering Water Supply Benefits**



Impervious surfaces in developed areas limit natural infiltration, but the watershed's largely unlined river system offers potential to enhance groundwater recharge through stormwater capture and reuse.

#### **Potential**

- Dense concentrations of impervious surfaces within the developed areas of the Watershed Area produce substantial runoff for potential capture and
- The unlined Santa Clara River and its tributaries support natural infiltration and groundwater recharge, reducing the complexity of infrastructure needs.

#### Challenges

- The Santa Clara River ecosystem is highly dependent on the discharges from the local Water Reclamation Plant which has made expanding recycled water reuse difficult.
- · No existing major capture facilities within the Watershed Area, eliminating potential to increase water supply through enhancements to existing facilities.



#### **Potential & Challenges for Delivering Community Investment Benefits**



Historically underserved neighborhoods with limited green space and high environmental burdens present a strong need and opportunity for equitable, multi-benefit community investments.

- High park need and untreated areas present potential to deliver Projects that provide public health and Water Quality Benefits.
- Targeted investments can enhance vegetation, tree canopy, and environmental restoration—especially in Disadvantaged Communities, schools, and densely developed areas—advancing multi-benefit outcomes.

#### Challenges

- Limited existing green space and available land within built-out communities and potential difficulty obtaining ownership of rural open space may make developing new recreational areas challenging without property acquisition, which can be costprohibitive.
- · Addressing these needs equitably requires creative, data-driven planning and robust community engagement to ensure meaningful, multi-benefit outcomes.

## Baselines, Targets, and Watershed Area Needs

and set a foundation for adaptive, long-term Watershed Planning.

In the first five years of the SCW Program (FY20-21 to FY24-25), \$9 million in SCW Program funds have been invested in 5 Regional and Municipal Program

See Chapters 3, 4, and 5

Projects in the SCR WA. These Projects deliver multiple benefits to communities including improved water quality, increased drought resiliency, and improved public health. Together, these Projects and their benefits form the current benefit baselines

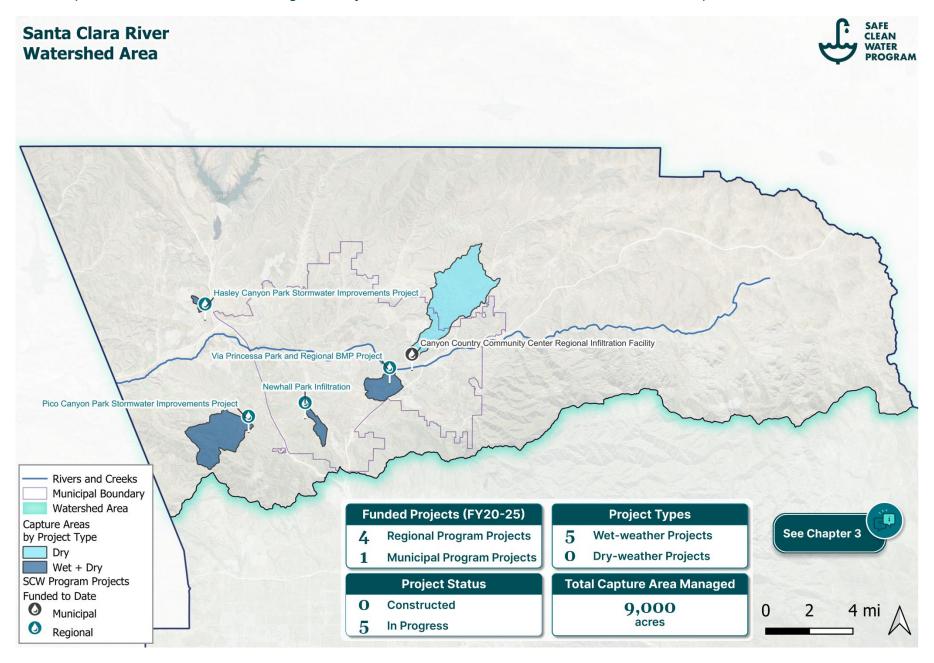
To track progress toward the achievement of Goals, the Initial Watershed Plans use metrics called Indicators and Performance Measures (PMs). Indicators are metrics used to sum Project benefits and enable progress tracking across *large spatial scales, such as* the SCW Program region or per WA. Indicators are supported by a set of PMs which quantify and track benefits at the *Project scale*. Indicators and PMs are anchored in the 14 Goals and organized into nine Planning Themes to allow for efficient WA and SCW Program-wide summaries.

Each Indicator aligns with a Goal, and each Indicator has SCW Program and WA targets that aim to advance progress toward that Goal. Targets are aspirational, calibrated to the scope of the SCW Program, and tailored to each WA based on its unique characteristics. Targets are based on relevant SCW Program Ordinance requirements, WA characteristics, other existing countywide efforts, and data-informed assessments such as the benefit baselines and forecasts developed through the Initial Watershed Plans. Where targets from other countywide efforts (e.g., the County Water Plan) exist for a given Indicator, they guide target setting. The SCW Program target then reflects the Program's potential contribution to these broader regional objectives.

The Initial Watershed Plans also set interim targets to monitor and guide progress. If progress falls short of the targets by the set interim dates, targets and strategies may be reassessed and adjusted to ensure continued progress toward achieving Goals. For each Indicator, its benefit baseline (current progress) is summarized and a target (aspirational outcome) is established, which also defines its 'WA Need' which represents the progress remaining to meet the target.

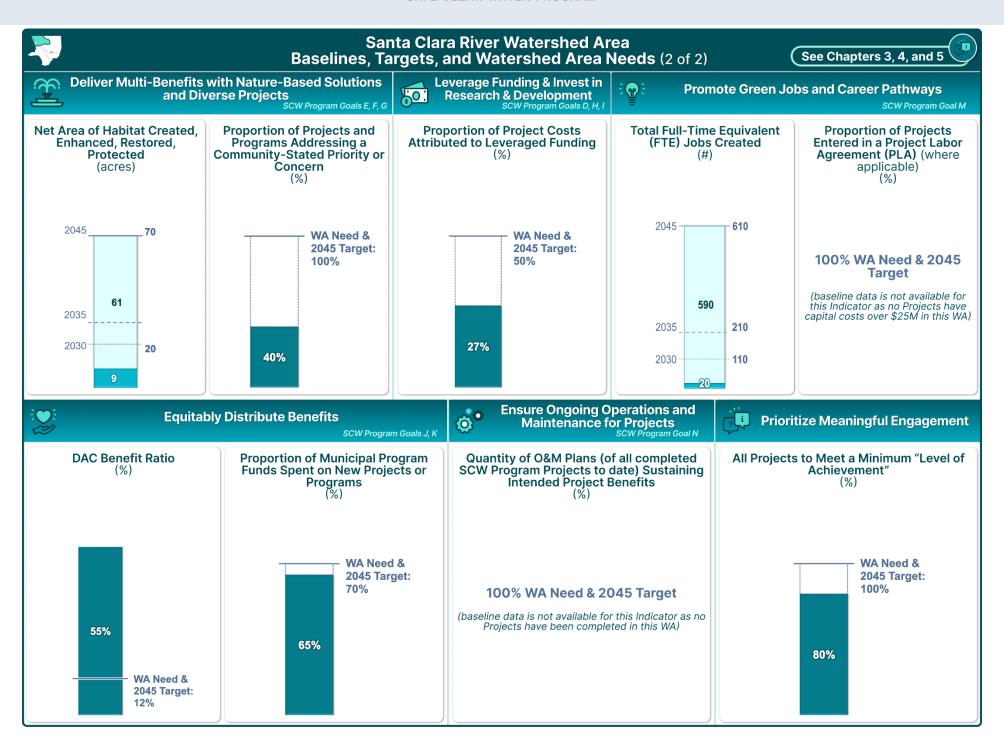
By establishing baselines, targets, and WA Needs, this Initial Watershed Plan supports SCW Program implementation by promoting data-driven planning, informed decision-making, and transparent progress tracking to ensure that the SCR WA continues to make measurable progress toward Goals.

This map summarizes the 5 SCW Program Projects funded to date in the SCR WA and their capture areas.



Indicators, their baselines, interim targets, final targets, and WA Needs are shown below (1 of 2) and are continued on the next page (2 of 2). For magnitude-based Indicators, bar charts display two interim targets and a final target. The dark blue bar represents the current (2025) baseline, while the light blue portion shows the WA Need. Percentage-based Indicators do not include interim targets; instead, the final target is considered perpetual; these Indicators reflect cumulative progress rather than linear gains, meaning values may rise or fall over time. To demonstrate sustained progress, WA Needs for percentage-based Indicators are set equal to their targets, which should be achieved and maintained. Baselines, targets, and WA Needs are discussed in Chapters 3, 4, and 5, respectively, of the Initial Watershed Plan. Methods and inputs are available in Appendix H.





## Strategies to Address Needs and Achieve Goals

This Initial Watershed Plan establishes strategies, actions, and opportunities for addressing WA Needs and achieving Goals. Following the strategies offers a pathway to alignment with the Initial Watershed Plans—a requirement for planning and applying to the SCW Program.



WA Needs summarize *why* strategies are needed, while strategies describe *how* to strategically address those WA Needs and achieve Goals through multi-benefit Projects and Programs. Each strategy is supported by specific actions that describe *what* general types of activities (Projects, Programs, or Scientific Studies that could be implemented to support a strategy. Strategies and actions are supported by opportunities which are mapping layers or references that describe *where* there is the greatest opportunity to implement strategies and actions. Rather than identifying specific Project sites, opportunities highlight areas where Water Quality Benefits, Water Supply Benefits, or Community Investment Benefits are most needed.

Strategies, actions, and opportunities are tailored to the SCR WA's characteristics. A key emphasis is on advancing multi-benefit Projects that pair water quality improvements with water supply and community enhancements, while balancing long-term goals with near-term Regional Program funding limitations. For example, SCR WA strategies promote Projects that enhance existing green spaces to incorporate water reuse and groundwater infiltration features and which create, restore, and protect habitat to tackle invasive specific and promote wildfire and climate-ready communities.

Strategies are designed to be implemented synergistically to maximize co-benefits in addition to Water Quality Benefits. While each strategy can support individual Goals on its own, they are most effective when enacted together, creating synergies that address multiple Goals simultaneously. To support this integrated approach, the Initial Watershed Plans identify composite opportunities, which highlight areas where a Project or Program could support two or more Goals in addition to water quality improvement. Composite opportunities serve as a strategic foundation for prioritizing investments that combine multiple strategies to deliver multi-benefit Projects and Programs that address multiple Goals.

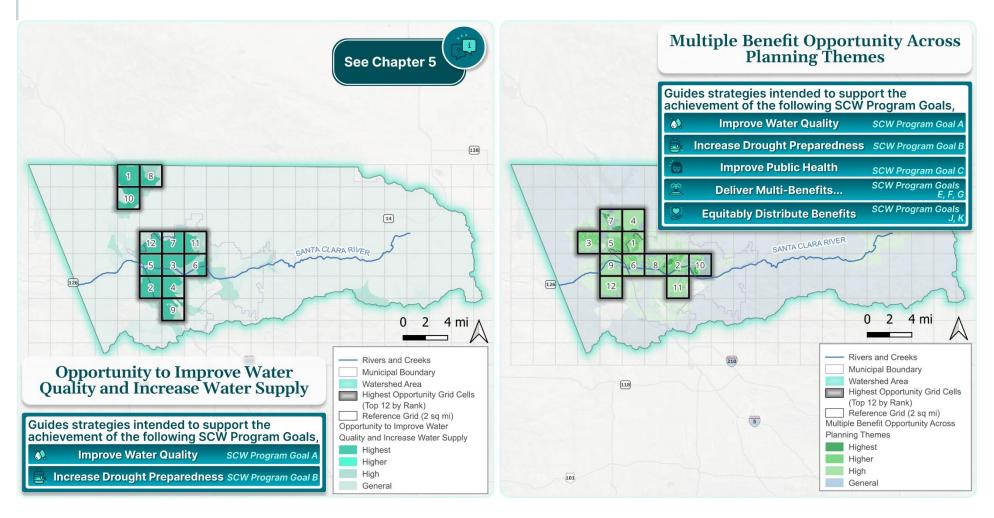
Strategies, actions, and opportunities to address WA Needs are detailed in Chapter 5 of the Initial Watershed Plan, Appendices I and J, and the Planning Tool.

This panel shows strategies developed within each Planning Theme to support strategic decision making in the SCR WA and facilitate efficient progress toward Goals. Actions and opportunities for each strategy can be found in Section 5.2.1 of the Initial Watershed Plan.

	Santa Clara River Watershed Area Strategies
(A)	Improve Water Quality SCW Program Goal
111	Prioritize high performance Projects and Programs in areas with the highest pollutant loads
12	Improve water quality and mitigate post-fire runoff through targeted Nature-Based Solutions
Ď	Increase Drought Preparedness SCW Program Goal
21	Link MS4 compliance and water supply planning to maximize stormwater capture for water quality and water supply*
22	Maximize stormwater runoff capture and management for water supply
28	Enhance local water supply through groundwater recharge, diversion to sanitary sewer, and onsite reuse
	Improve Public Health SCW Program Goal
<b>31</b>	Evaluate open space and large lot potential, particularly on school campuses*
82	Implement Projects at schools that align school district priorities and SCW Program Goals**
33	Create, enhance, and restore park and green space, especially in high-need communities
84	Help communities most affected by extreme heat mitigate and adapt to the effects of climate change
<b></b>	Deliver Multi-Benefits with Nature-Based Solutions & Diverse Projects SCW Program Goals E, F,
431	Acknowledge, where feasible, other capital improvement programs that can contribute to regional outcomes*
42	Enhance existing green spaces to improve water quality through runoff capture and infiltration**
43	Prioritize river-adjacent Projects that remove invasive species and support ecosystem functions**
44	Deliver nature-based, multi-benefit Projects and Programs that improve water quality while addressing community priorities and concerns
45	Advance fire-adapted communities by implementing multi-benefit Projects that employ Nature-Based Solutions to reduce wildfire risk and enhance ecosystem resilience
<b>60:</b>	Leverage Funding & Invest in Research & Development SCW Program Goals D, H
51	Bolster SCW Program and regional coordination to support identification and communication of alternative funding sources and opportunities
51 52	
52	Bolster the Scientific Study Program through enhanced review, coordination, and dissemination of results  Equitably Distribute Benefits SCW Program Goals J,  Consider historic land use disparities and environmental justice metrics across the SCW Program area*
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5.2 61 6.2 7.1 7.2 7.3 8.1 8.2 8.3 8.4 9.1	Equitably Distribute Benefits ScW Program Goals J, Consider historic land use disparities and environmental justice metrics across the SCW Program area* Advance equity and prioritize new investments particularly in communities not currently served by a SCW Program Project or Program  Promote Green Jobs and Career Pathways SCW Program Goal Prioritize smaller Projects for which construction and maintenance jobs are more likely to come from a local labor force Invest in research and Programs that promote permanent career pathways Coordinate job placement and partner with workforce training and pre-apprenticeship programs  Ensure Ongoing Operations & Maintenance for Projects SCW Program Goal Maintain a skilled, local workforce to ensure quality construction and comprehensive operation & maintenance Ensure sufficient resources are set aside for Project O&M and monitoring Promote wildfire resilience through fire-resilient O&M protocols for Projects Integrate post-construction monitoring data into O&M plans  Prioritize Meaningful Engagement Promote meaningful and sustained outreach and engagement through regional coordination and expertise Develop and bolster existing resources and support for Project and Program-specific engagement

<sup>\*</sup>SCW Program-wide Priority Strategy based on engagement
Note: While some strategies may not explicitly reference water quality, in accordance with the SCW Program Implementation Ordinance, all SCW Program Projects and Programs are required to include a Water Quality Benefit.

A series of maps are included in the Initial Watershed Plans and Planning Tool to encourage SCW Program Projects that provide multiple benefits. This panel shows composite opportunities; the left map shows opportunities where Projects could deliver both Water Quality and Water Supply Benefits and the right map shows opportunities for Projects to deliver those benefits plus others such as Community Investment Benefits. While these maps highlight areas with the highest potential, other areas not highlighted may still offer valuable opportunities. Composite opportunities are detailed in Section 5.2.1.10 and Appendix I of the Initial Watershed Plans. Full-page maps and guidance on using these mapping layers in the Planning Tool are available in Appendix J.



# Next Steps and Recommendations for Watershed Planning

In early 2026, each of the nine Initial Watershed Plans will be adopted by the Los Angeles County Flood Control District Chief Engineer to serve as SCW Program guidance documents and support future decision-making by the Regional, Municipal and District Programs. The next step for Public Works, the ROC, WASCs, Municipalities, and Project and Program proponents is the use of the Initial Watershed Plans and Planning Tool to assist the advancement of Projects and Programs that align with strategies to address WA Needs and support achievement of Goals.

Near-term next steps for Watershed Planning include addressing key planning gaps through engagement, data collection, new guidance and guidelines, Scientific Studies, and updates to the SCW Program Portal. These updates will also integrate Initial Watershed Plan outputs—such as Indicators and Performance Measures—into reporting and related guidance and guidelines.

As the SCW Program progresses, it is essential to continuously refine and enhance Initial Watershed Plan outputs to ensure they remain effective and relevant. This Initial Watershed Plan outlines recommendations for Watershed Planning to apply an Adaptive Management approach to assess Initial Watershed Plan effectiveness and SCW Program progress, and adjust outputs such as targets, strategies, and opportunities to ensure they remain responsive to changing conditions and priorities. In the long term, Adaptive Watershed Plans may be developed, as needed, to incorporate new planning elements and reflect ongoing progress, emerging priorities, and evolving WA conditions.

This figure outlines next steps and illustrates the long-term approach to continual Watershed Planning and SCW Program progress.

