West Carson – Stormwater Improvement Project

Funding Program (Technical Resources Program)

Fiscal Year 2026-2027

Watershed Area: Dominguez Channel

Project Lead: Los Angeles County

Presenter Name: Anthony Vidal

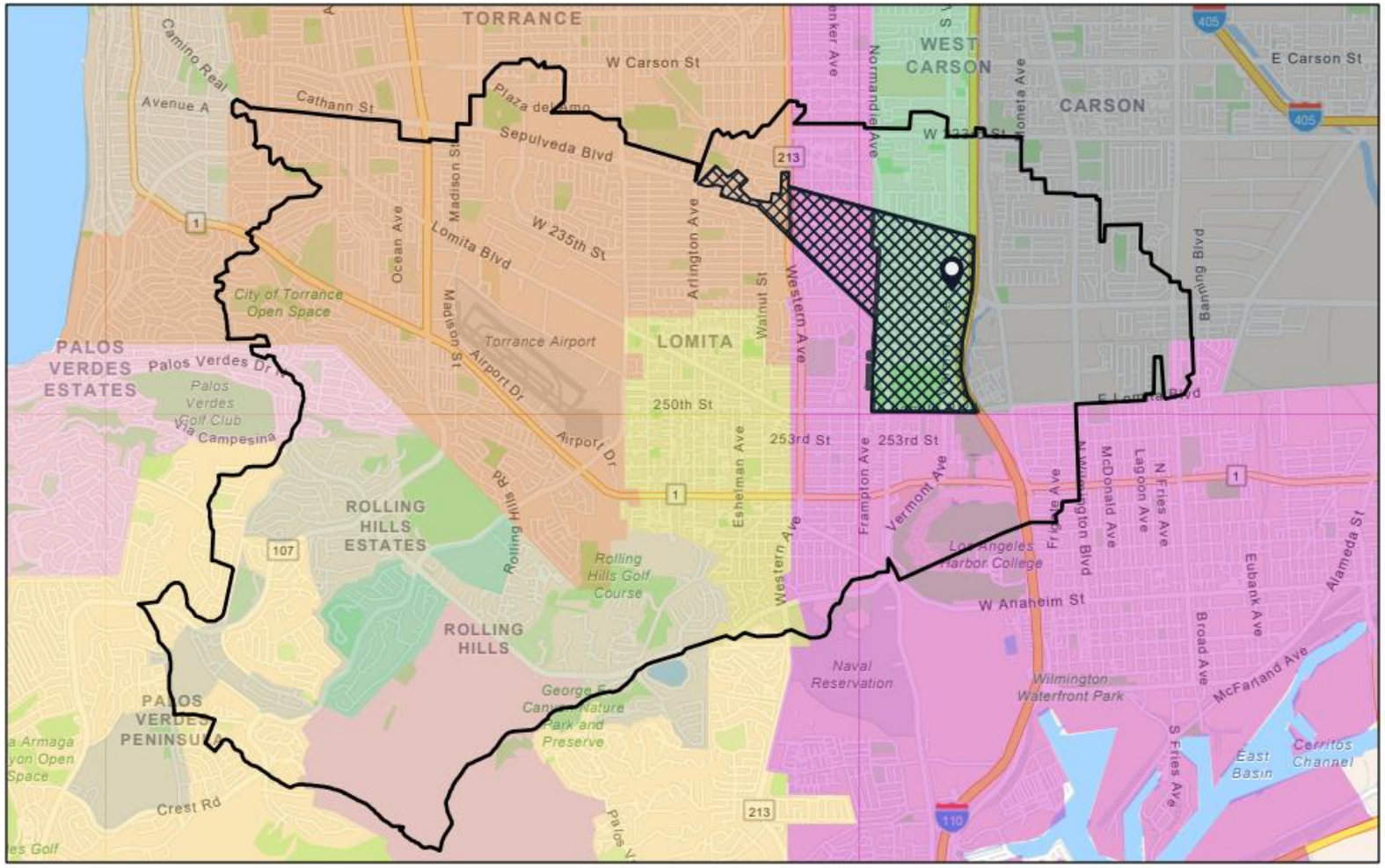
Project Overview

The project will assess the feasibility of various stormwater capture BMPs in the unincorporated community of West Carson

- Primary Objective: Improving water quality, enhancing local water supply reliability, and reducing flood risk
- Secondary Objectives: Environmental improvements through green infrastructure, which can enhance public spaces, air quality, climate resilience, and overall community well-being.
- Project Status: Planning Phase
- Total Funding Requested: $400,000

Project Location (1)

TRP West Carson GIP Map



10/2/2025

Project Tributary Area
MACHADO LAKE
City Jurisdiction
CO
LOS ANGELES
CARSON
LOMITA
TORRANCE
ROLLING HILLS
ROLLING HILLS ESTATES
RANCHO PALOS VERDES
PALOS VERDES ESTATES
REDONDO BEACH

1:70,166

0 0.5 1 2 mi

0 0.75 1.5 3 km

City of Torrance, County of Los Angeles, California State Parks, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS,

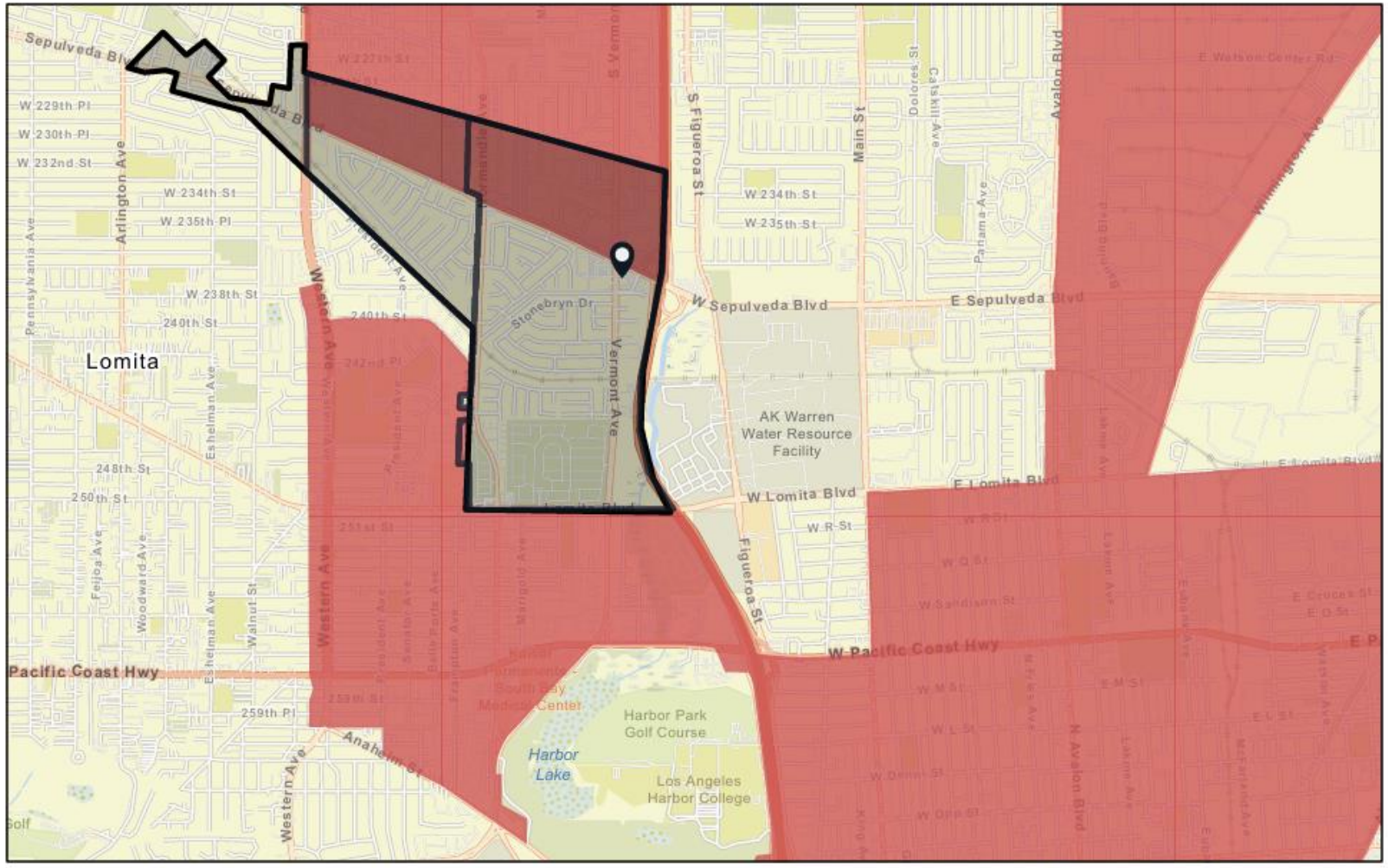
- Located in the Machado Lake sub-watershed area of DC Watershed
- Downstream waterbody
  - Machado Lake
- The drainage area falls within 3 municipalities
  - County (West Carson)
  - City of LA
  - Torrance
- Drainage Area - 745 acres
- WASC – South Santa Monica Bay

Project Location (2)

- Opportunities:
  - Stormwater capture and use
  - Road improvements with green infrastructure

Disadvantaged Communities

West Carson GIP DAC MAP



- The project area is located within Disadvantaged Communities (shown in red)

Project Background

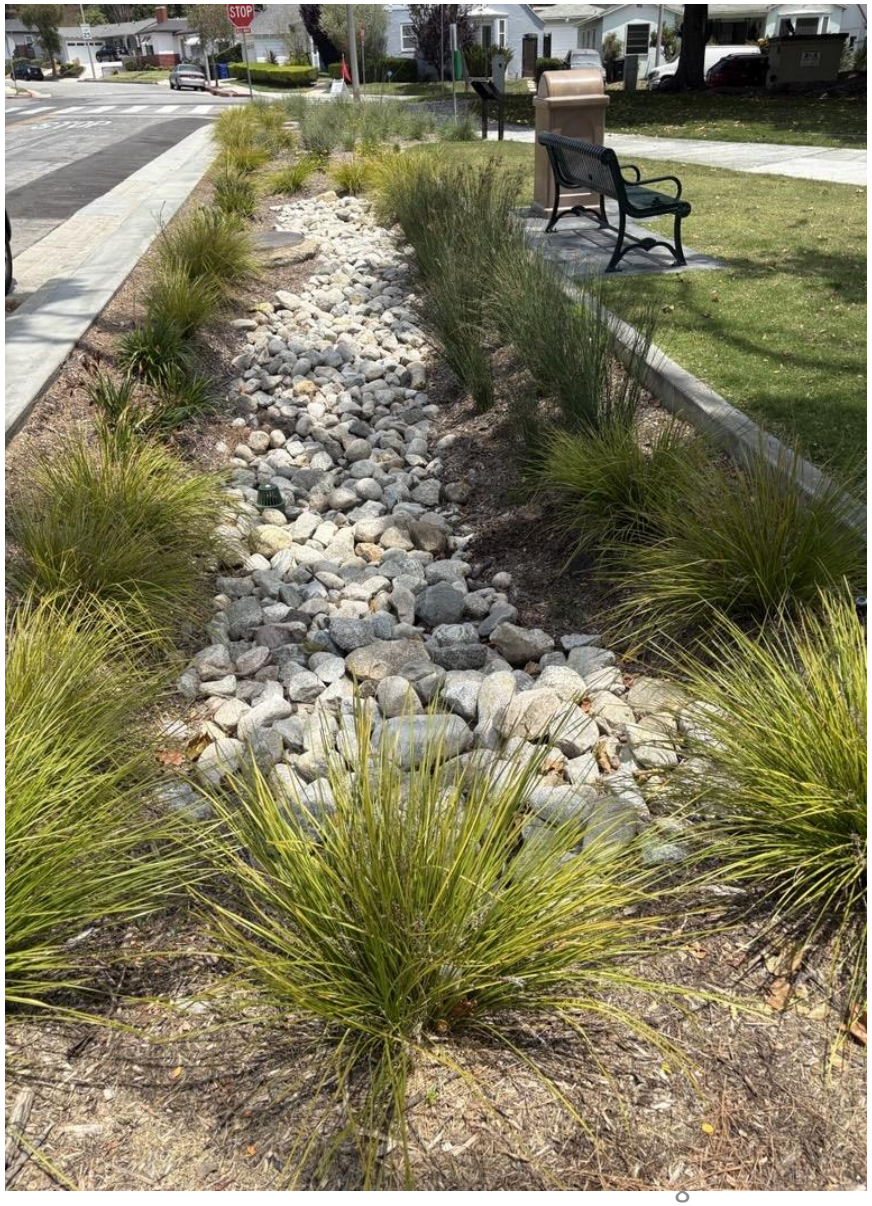
- The project is part of the Green Street Opportunities identified in the approved Dominguez Channel WMP.
- The feasibility analysis will help determine appropriate BMPs that can be implemented within the West Carson community
- The proposed project will explore multiple benefits that can be potentially attained.
    - Water quality improvement
    - Augmenting local water supply
    - Local flood risk mitigation
    - Environmental and community improvements through green infrastructure
    - Recreational and Educational opportunities

Stormwater management

Partners

- In addition to the County, the project will benefit the Cities of LA and Torrance
- We will coordinate with all applicable municipalities and agencies
- Local community support for project will be pursued
- Coordination with and approval from the Flood Control District will be pursued
- Vector control will be taken into consideration in the project design

Project Details



Funding Request

Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	$400,000	Planning Phase	Feasibility study completion
2	TBD	Design	Design of recommended implementation
3	TBD	Implementation	Construction based on design
4	TBD	O&M/Monitoring	Perform maintenance and monitor effectiveness
TOTAL			

Water Quality & Water Supply Benefits

- The project will seek to treat both wet and dry weather runoff.
- Project will help reduce TMDL pollutants - nutrients, toxic pollutants, trash, and bacteria.
- The project will explore local stormwater reuse through infiltration with drywells and bioswales.
- Potential groundwater augmentation or diversion to sewer will be explored.

Water Quality

Community Investment Benefits and Nature Based Solutions

- Community Investment Benefits
  - Potential local flood management
  - Reduce heat island effect
  - Increase shade and number of trees

- Nature-Based Solutions
  - Potential nature-based solutions
    - Native vegetated bioswales
    - Trees
    - Drought tolerant landscaping
    - Permeable pavement

ENVIRONMENTAL BENEFITS

Leveraging Funds and Community Support

- Leveraging Funds
  - Following the completion of the feasibility study, we will pursue various funding sources:
    - County capital projects
    - State and local grants

- Community Support
  - The county always works with the community and seeks community support for all our projects
  - We will conduct multiple community outreaches during the feasibility study and design phases of the project

Questions?

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