Enhancing Biodiversity and Water Quality in Los Angeles: Expanding Application of the Greenway Concept



Team Members: Danielle Hoekstra, Cassandra Kays, Cortney Kleczka, Daniela Lopez, Alé Pulido, Lynsea May Southwick, Claire Villegas

Client: Westwood Greenway Inc.

Advisor: Edith de Guzman





Urbanization in Los Angeles



Impacts:



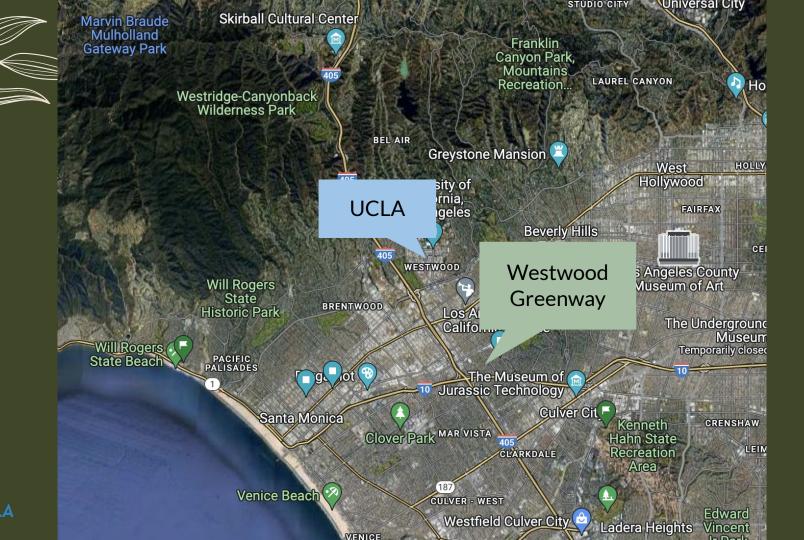
Water Quality

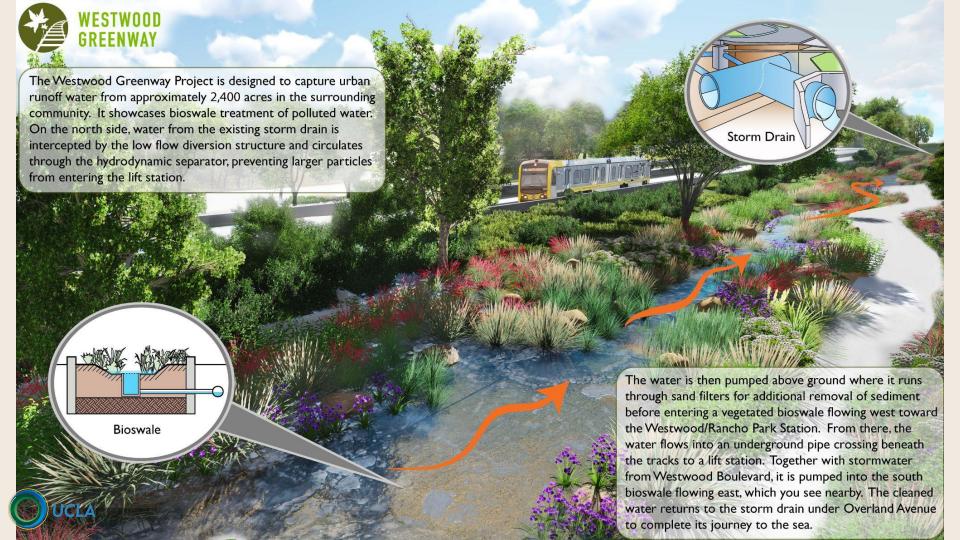


Biodiversity









Research objectives

Quantify impacts on water quality and biodiversity

Identify modes
to apply the
Greenway
concept across
Los Angeles

Increase visibility of the Greenway concept







2022

Biodiversity at the Westwood Neighborhood Greenway



Advisor: Edith de Guzman

UCLA IOES Westwood Greenway Practicum Team: Cassandra Kays, Claire Villegas, Cortney Kleczka, Daniela Lopez, Danielle Hoekstra, Alé Pulido, and Lynsea May Southwick







Habitat quality: 4/5

Increase in species density and volunteer natives







Narrow Leaf Milkweed (Asclepias Fascicularis)

California Poppy (Eschscholzia californica)

Hummingbird Sage (Salvia spathacea)

Habitat variety: 4.5/5

High variety of volunteer natives



commendations



Elderberry (Sambucus nigra)



Western Chokecherry (Prunus virginiana)



Edge effects: 3.75/5

Impact of Metro traffic and local pets









Offsite connectivity: 4/5

Culverts between north and south side, stream connectivity, holes in fence







Fiery Skipper (Hyphila phyleus)



Western Lady Beetle (Cycloneda polita)



Gulf Fritillary (Dione vanillae)



Song Sparrow (Melospiza melodia)



Allen's Hummingbird (Selasphorus sasin)



Cabbage White (*Physa rapae*)



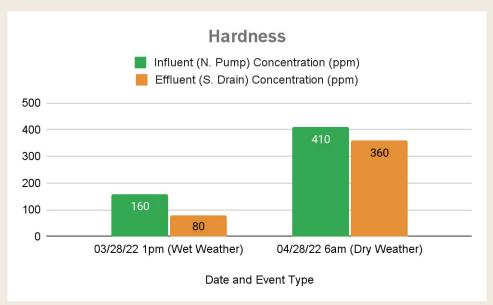
Mourning Cloak (Nymphalis antiopa)

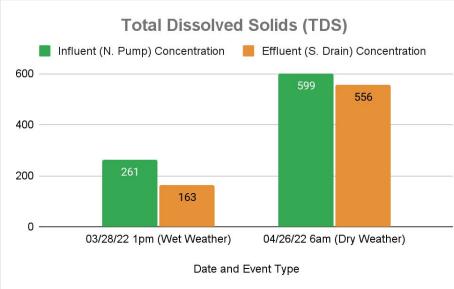


Coyote (Canis latrans)



Water Quality: Hardness & TDS







LA COUNTY'S

Safe Clean Water Program

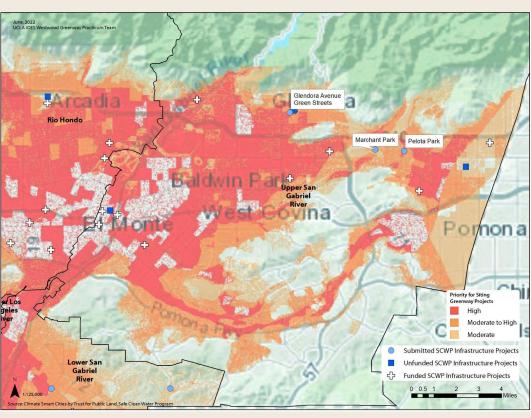




Focused on projects that capture, clean, and recycle stormwater

Upper Sa Gabriel June 2022 UCLA IOES Westwood Greenway Practicum Team La Crescenta Green Improvement Project Winery Canyon Channel and Descanso Gardens Stormwater Capture Burbank Jackson Elementary School Campus Greening and Stormwater Quality Improvement Project **Upper Los** Angeles Rio Hondo Echo Park Lake Rehabilitation Operation and Maintenance Central Santa Monica Bay Priority for Siting **Greenway Projects** Moderate to High **Lower Los** Angeles Submitted SCWP Infrastructure Projects River Unfunded SCWP Infrastructure Projects Watts Civic Funded SCWP Infrastructure Projects Center Serenity Gabriel Source: Climate Smart Cities by Tryst for Public Land, Safe Clean Water Program

Upper San Gabriel



Upper LA River







Earth Day Weeding Party



Join us at the greenway April 23, 2022 from 1-2 pm

Engagement Plan

Goals

Resources

Partnerships

Future content







Thank you! Questions?

Danielle Hoekstra
dhoekstral8@gmail.com
Claire Villegas
clairevillegas@g.ucla.edu
Lynsea Southwick
l.southwick232@gmail.com

https://westwoodgreenway.org/