Van Ness Avenue Well Field Project

City of Torrance

James Flannigan

Associate Engineer

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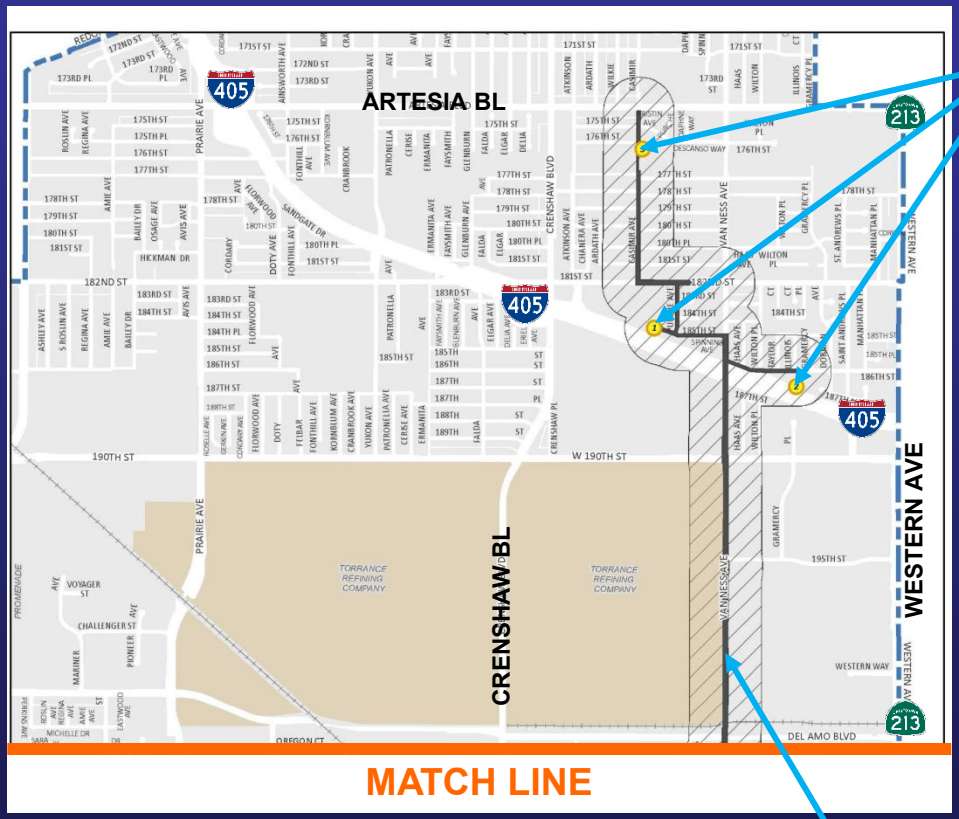
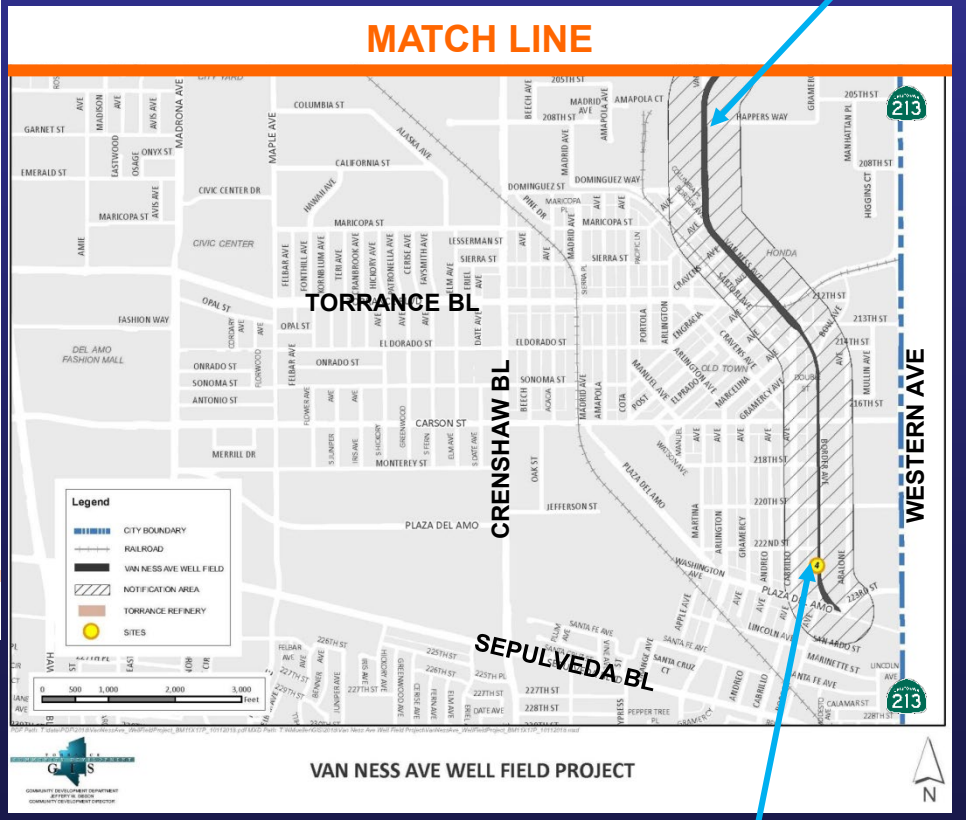
Van Ness Avenue Well Field Project



WELL SITES



Project Description

- This project includes the construction of 3 new groundwater wells, 4.0 miles of water transmission main and upgrades to existing booster pump station in Downtown Torrance.

Project Elements

- New local water supply
- Enables city to use stored groundwater
  - Conjunctive use (water banking)
- Will use existing reservoir and booster pump station shut down due to poor ground water quality

Project Details

- Funding:
  - Total Project Cost: $22,832,150
  - Matching Funds: $16,713,210
  - Funding Request: $ 6,118,940
  - Other Funding Sources:
    - State Revolving Fund Loan: $16,000,000
    - BOR Grant: $ 780,000
- City owned land and easements
- Pipe Specification Alternatives
  - Ductile Iron Pipe (DIP); or
  - Cement Mortar Lined & Coated (CML&C) Steel Pipe
- Pumping rights
  - Existing wells meet pumping rights 5,640 AFY
  - Project needed to pump water stored (11,200 AF) above 5,640 AFY
  - Total lease groundwater production of 9,000 AFY (50% potable water need)

Program Preferences

- This project provides the City the option of using 11,200 AF groundwater in storage above existing City groundwater rights (5,640 AFY) now and draw that water during a drought/emergency. City will be less dependent on MWD supply.
- Project makes it possible to lease groundwater rights for local production of 9,000 AFY (50% potable water use)
- Project uses existing reservoir and pump station in Downtown Torrance
- Will reduce State Water Project water deliveries from the ecological Bay-Delta region.
- Will reduce energy consumption required to pump State water to southern California

Project Benefits

- Currently City is receiving approx. from 90% MWD water and 10% locally produced ground water
- City's North Torrance Well Field Project can meet 5,640 AFY Adjudicated Ground Water Rights
- Van Ness Avenue Well Field Project will allow City to use 11,200 AF stored and lease water rights to pump 9,000 AFY
- With all wells in service, City will use up to 50% of MWD water and 50% of groundwater

Estimated Budget

Transmission Main & Contingency	$14,832,150
Construction Management	$1,000,000
Design-Build 3 Water Wells & Booster Pump Station Upgrades	$7,000,000
Total Cost	**$22,832,150**

Estimated Schedule

- Transmission Main Construction Start Date : March 2022
- 3 Wells Design-Build Start Date: July 2022
- Construction Completion Date: December 2023

Other Considerations

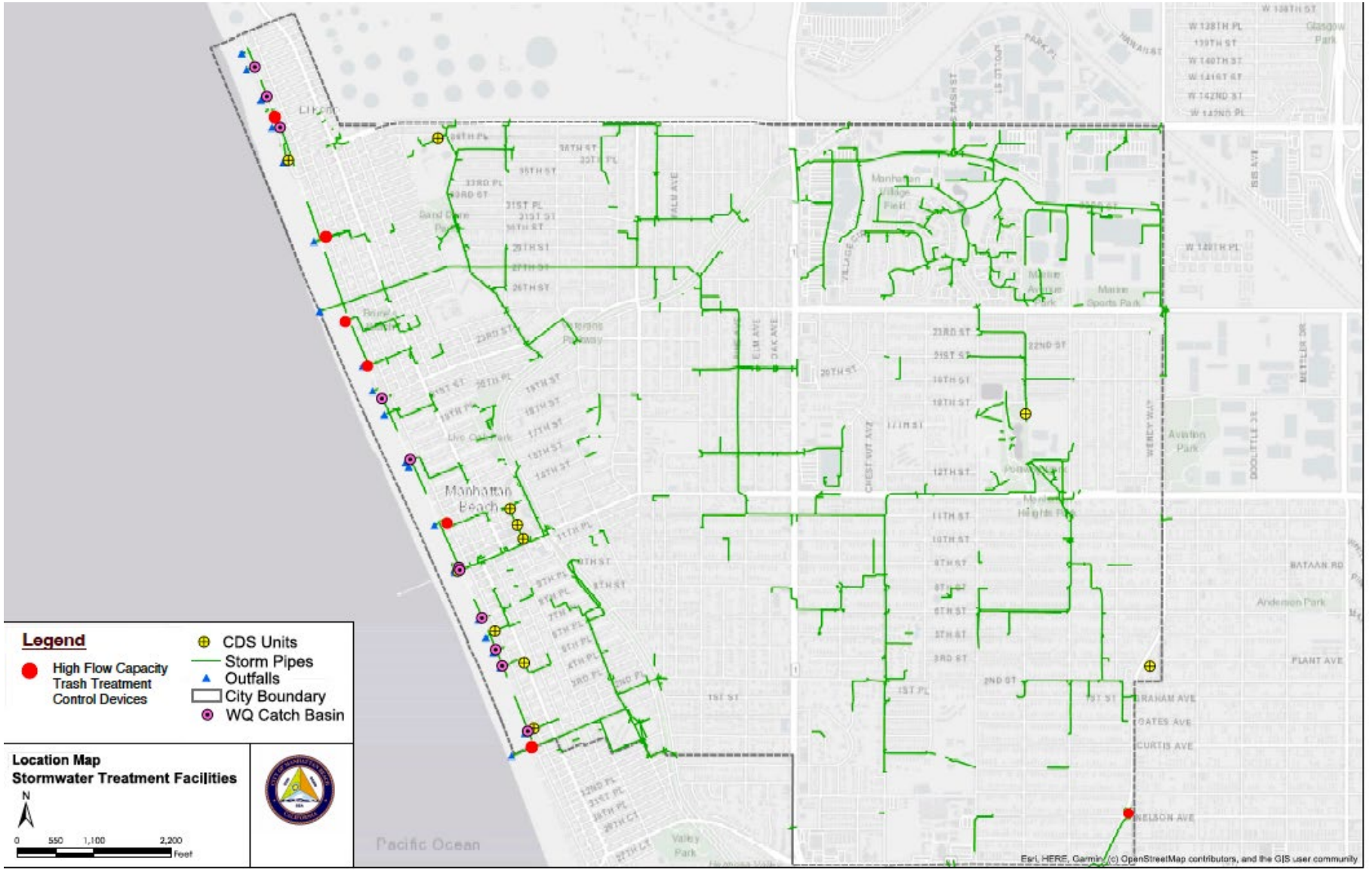
- Completed CEQA Documentation
- Sufficient funding to begin transmission main construction
- City has procedures in place for Design-Build Projects

Manhattan Beach Coastal Restoration and Resiliency Project

TIM BIRTHISEL, SR. CIVIL ENGINEER, CITY OF MANHATTAN BEACH & SUSAN ROBINSON, PROJECT MANAGER, MCGOWAN CONSULTING

Santa Monica Bay Coastal Hazards

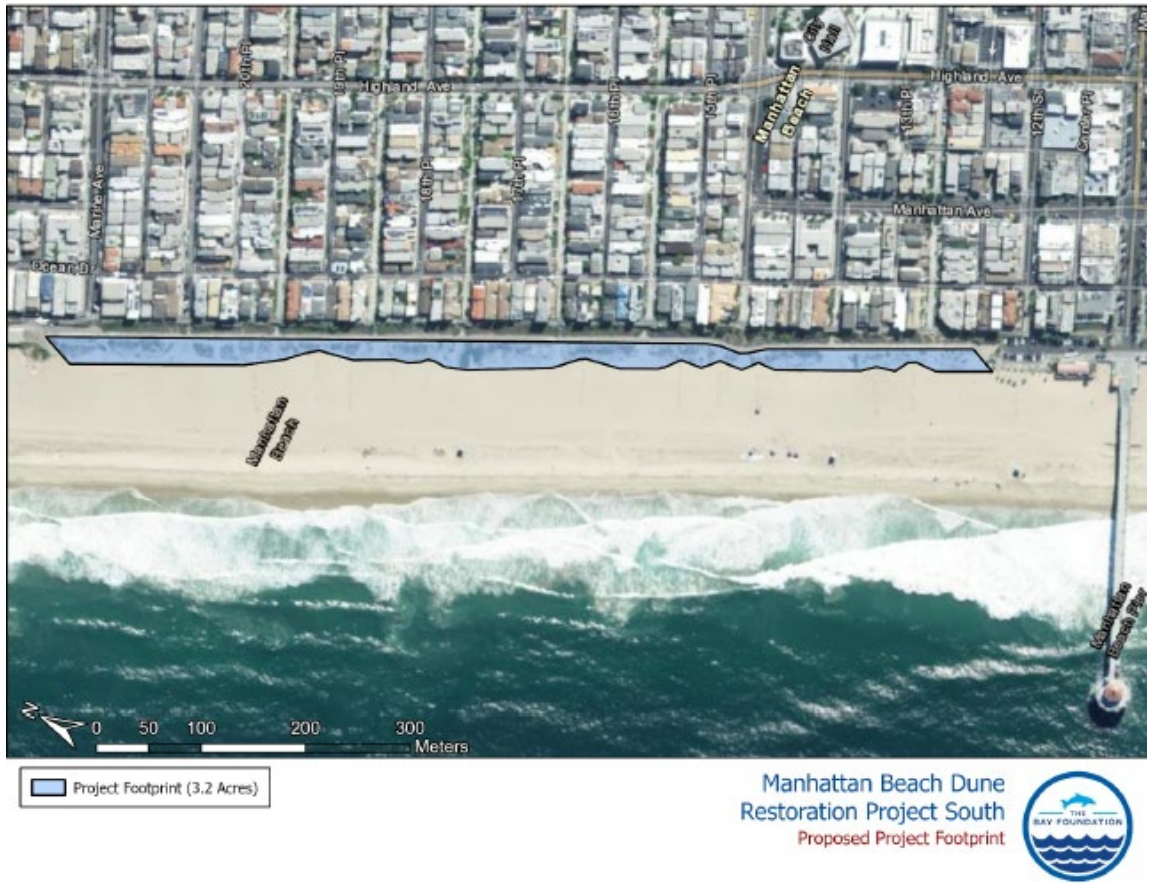
Project Description (Grey Infrastructure): Stormwater Treatment

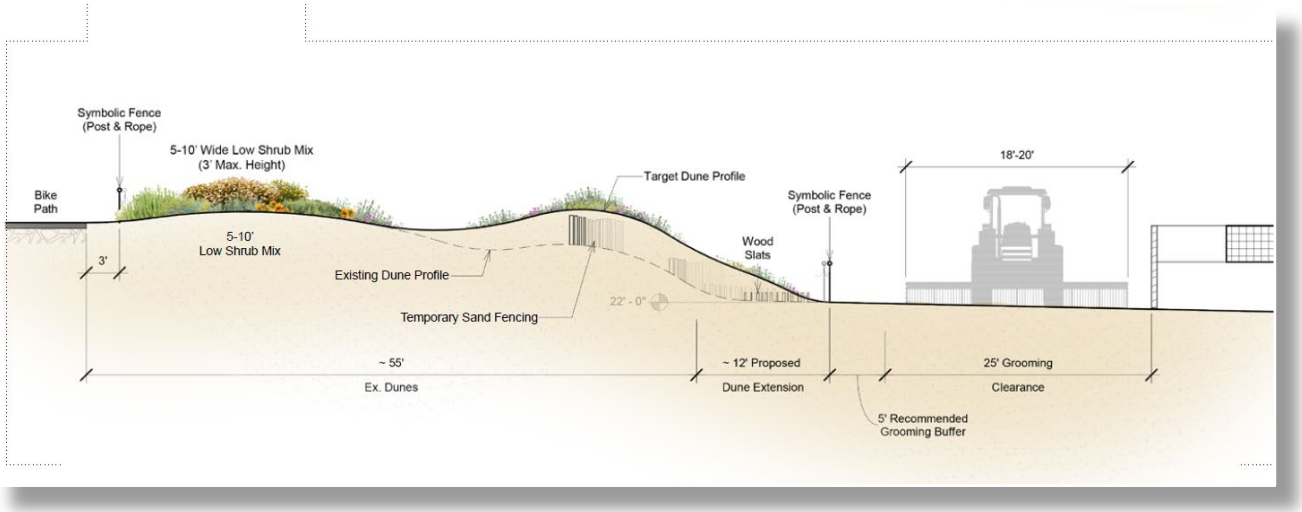


Full-capture Certified Devices

- Centralized High Flow Capacity Treatment Devices at strategic outfalls
- Distributed catch basin connector pipe screens & drop basket screens

Project Description (Green Nature-Based Infrastructure): Coastal Dune Habitat





Water Quality Benefits(Primary)

Address TMDL Waste Load Allocations & 303(d) Listed Impairments

- Trash/Debris (TMDL)
- Sediment-borne pollutants
  - DDT (TMDL)
  - PCBs (TMDL)
  - Indicator Bacteria (TMDL)
  - Mercury (303d Listed)
  - Arsenic (303d Listed)

Additional Pollutants

- Oil & Grease
- Metals (sediment-borne)
- Plastics/Microplastics

Habitat Restoration Benefits & Ecosystem Services (Secondary)

Build Resiliency Against Climate Change

- Foster Accretion/Retention of Sand
- Buffer from Storm Erosion
- Protect Vulnerable Coastal Assets

Support for Native Ecological Community

- Provide Habitat and Safe Harbor for Shorebirds and Coastal Wildlife

THE BAY FOUNDATION

RIOS

Additional Benefits & Connections

- Uses Multi-Faceted, Multi-Benefit Project Approach
- Supports City's Hazards Mitigation Plan
- Educates and Engages Community
- Increases Habitat Connectivity

Habitat Connectivity

- Extend Network of Native Coastal Dune Habitat
- Decrease Habitat Fragmentation
- Promotes Greater Biodiversity

Schedule and Budget

Estimated Completion Dates:

- March 2022: Planning and Feasibility Study
- June 2022: CEQA
- August 2022: Design
- December 2022: Permits
- August 2023: Construction
- June 2026: Monitoring

Overall Budget: $3 Million

- 50% match from Municipal Measure W and City Capital Improvement Funds + in-kind contributions
- 50% Prop 1 IRWM Implementation

Annual O&M:

- Municipal Safe Clean Water Funds (Measure W)

West Basin Municipal Water District

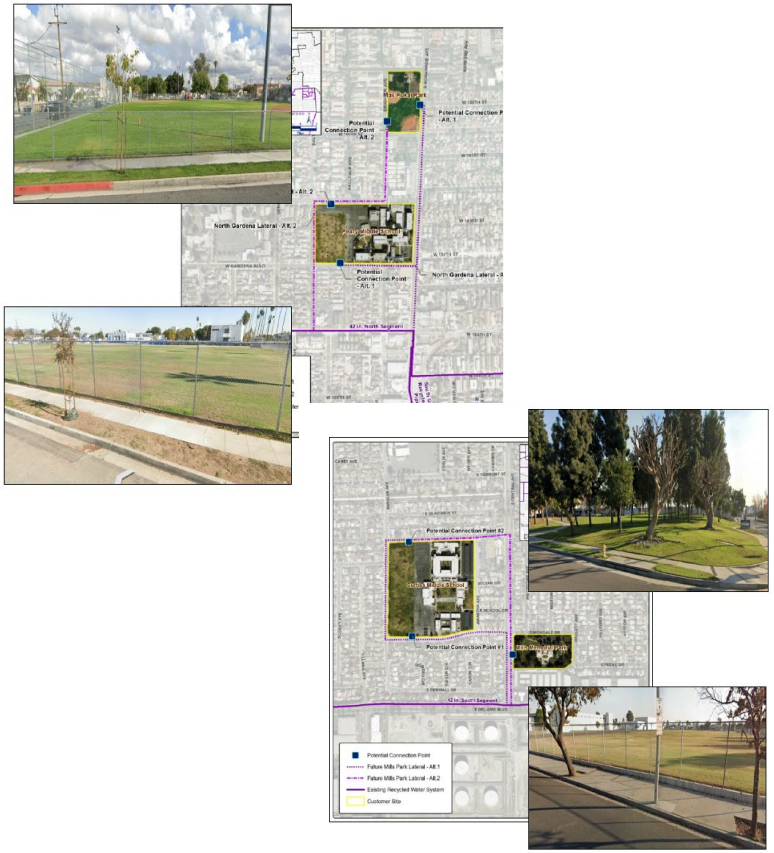
Harbor South Bay Water Recycling Project

E.J. Caldwell

Manager of Water Policy and Resource Development

Project Location

Harbor South Bay
Water Recycling Project

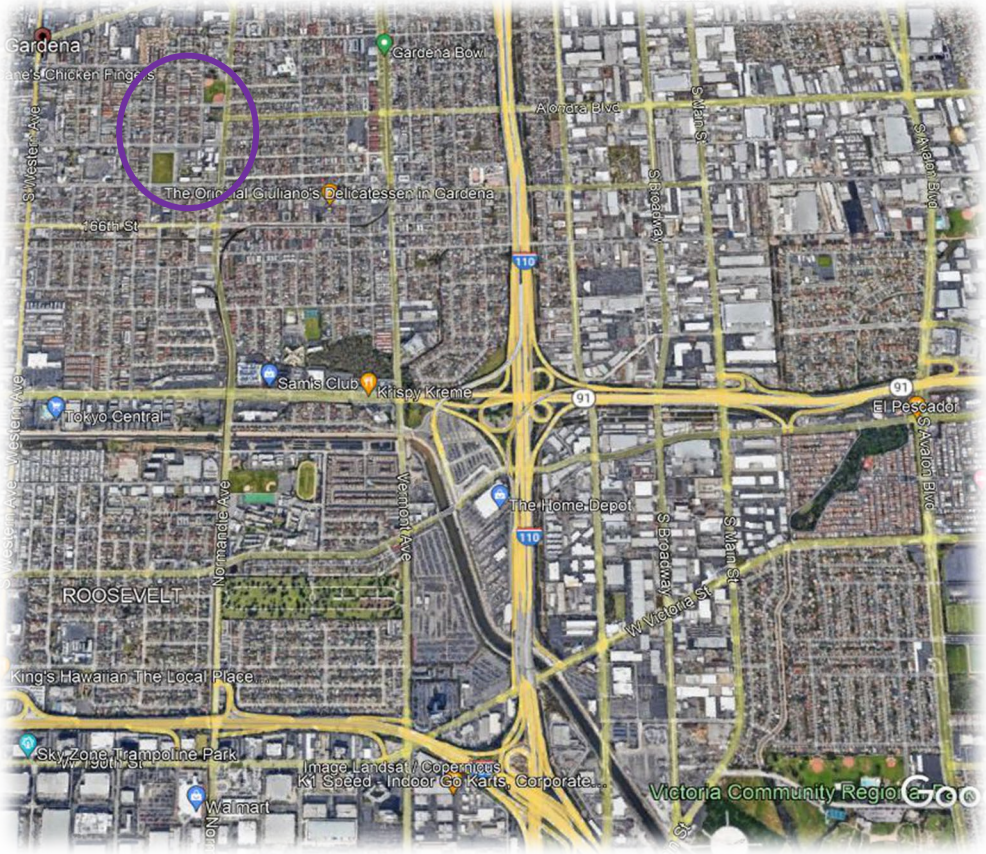


- Extending recycled water for public schools and parks located in the cities of Carson and Gardena
- Serving Disadvantaged Communities
- Combined total of 6,700 linear feet of Recycled Water Pipeline
- Requires two years to plan, design, and construct
- Recreational Facility Benefits:
  - Increases water supply reliability
  - Energy savings by reducing the need to transport imported drinking water supply
- Awarded $3.79 million in federal funding

Project Location

Gardena:

Peary Middle School and Mas Fukai Park

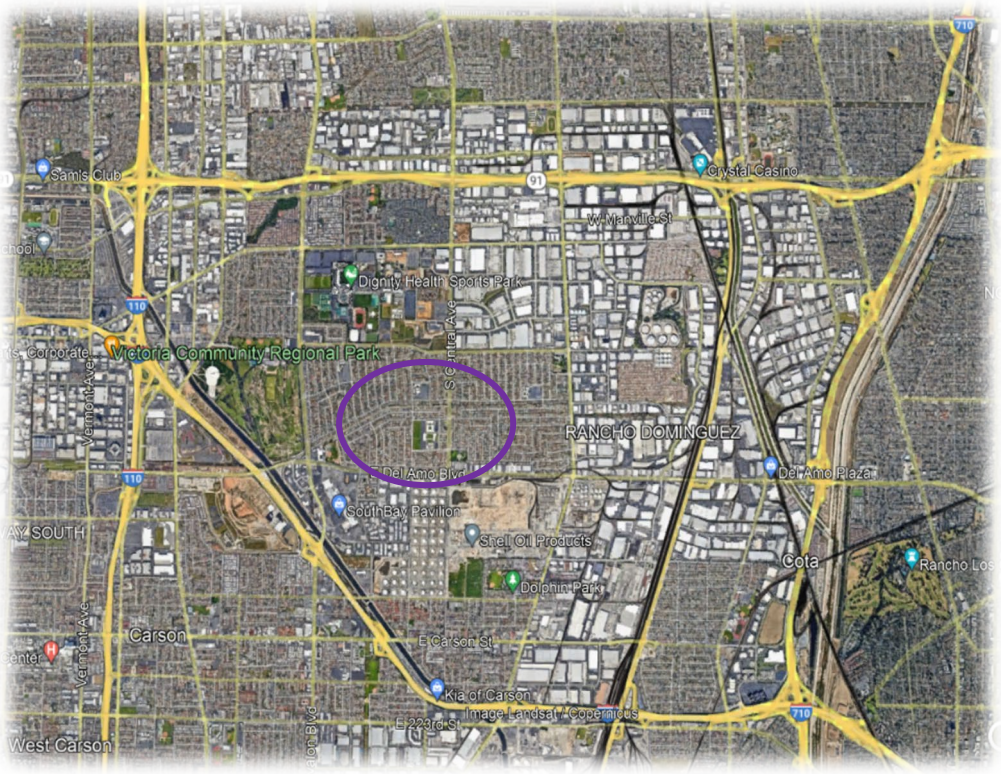


Park

School

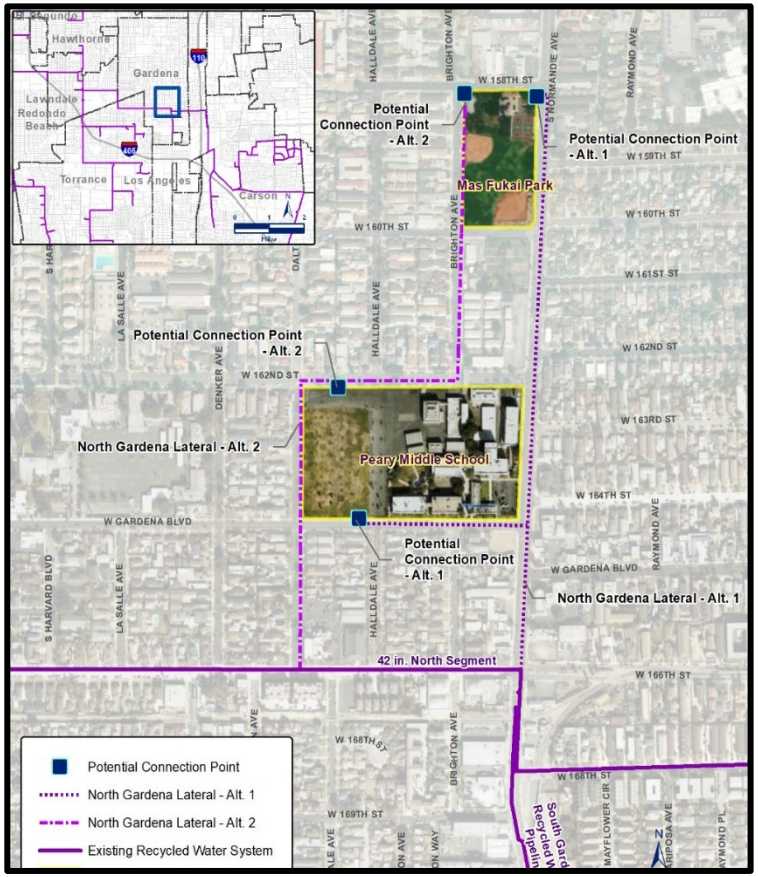
Project Location

Carson:
Mills Memorial Park and Curtiss Middle School



Project Description

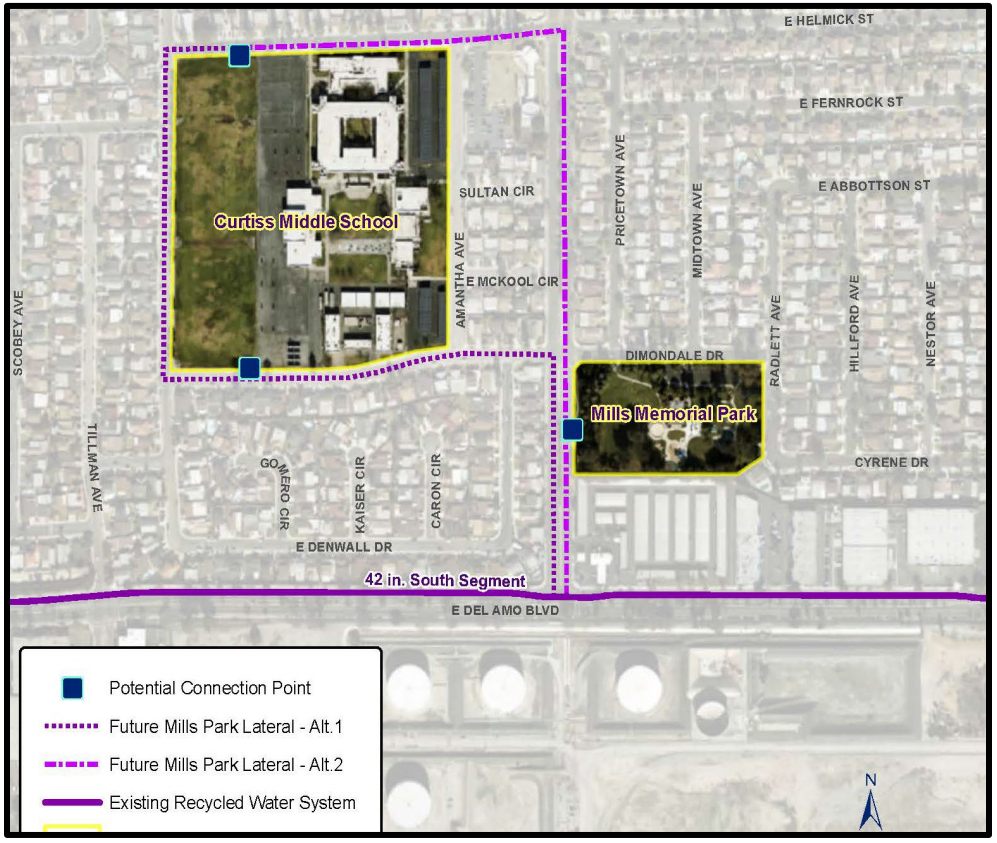
North Gardena **Recycled Water Lateral**



- Install 3,700 feet of new pipeline
- Deliver 24 acre-feet per year by April 2025
- Expand use of recycled water to irrigate green spaces serving a disadvantaged community
- Connect to existing 42-inch recycled water main that runs easterly along 166th Street to Normandie Avenue
- Recycled Water service to:
  - Peary Middle School
  - Mas Fukai Park

Project Description

Mills Park Recycled Water Lateral



- Install 3,000 feet of new pipeline
- Deliver 35 acre-feet per year by April 2025
- Expand use of recycled water to irrigate green spaces
- Connect to existing 42-inch recycled water main located at the intersection of Del Amo Boulevard and Central Avenue
- Recycled Water service to:
  - Mills Memorial Park – 3.6 acres
  - Curtiss Middle School – 8 acres

Project Benefits

Water Supply

- Increase Use of Recycled Water
- Drought response through regional coordination of self-reliance on supply

Open Space

- Expand Recreational Areas at Schools and Parks Serving Disadvantaged Areas

Leverage Funding

- Utilize Federal, State and Local Funds

CEQA & Permit Status

CEQA/Permit Document (List all per EIF)	Start Date	End Date
Supplemental Environmental Assessment / Subsequent Mitigated Negative Declaration	January 2024	July 2024
City of Carson Encroachment Permit	April 2024	July 2024
City of Gardena Encroachment Permit	April 2024	July 2024

Project Budget

Budget Category	Grant Request	Cost Share	Other Cost	Totals
A. Project Administration	$234,126	$379,000		$613,126
B. Land Purchase/ Easement	$0	$0		$0
C. Planning/Design Engineering/ Environmental Documentation	$295,395	$581,358		$876,753
D. Construction/ Implementation	$1,880,479	$2,829.641		$4,710,119
Totals	$2,410,000	$3,790,000		$6,200,000
Minimum Grant Amount Needed:	$2,410,000			

Project Schedule

Budget Categories	Start Date	End Date
A. Project Administration	January 2021	June 2025
B. Land Purchase/Easement	N/A	
C. Planning/Design/Engineering/Environmental Documentation	January 2021	July 2024
D. Construction/Implementation	August 2024	April 2025

Expected Challenges/Delays

* There are no expected challenges and/or delays:
  * Completing CEQA within 12 months – by July 2024
  * Acquiring Permits within 12 months – by July 2024
  * Acquiring 50% Cost Share – Funding awarded by USACOE
  * Adhere to Construction Schedule – no anticipated delays
  * Completing project by April 2025
  * Completing project, if full grant amount is not awarded by April 2025

Questions

West Basin Municipal Water District

E.J. Caldwell

Manager of Water Policy and Resource Development

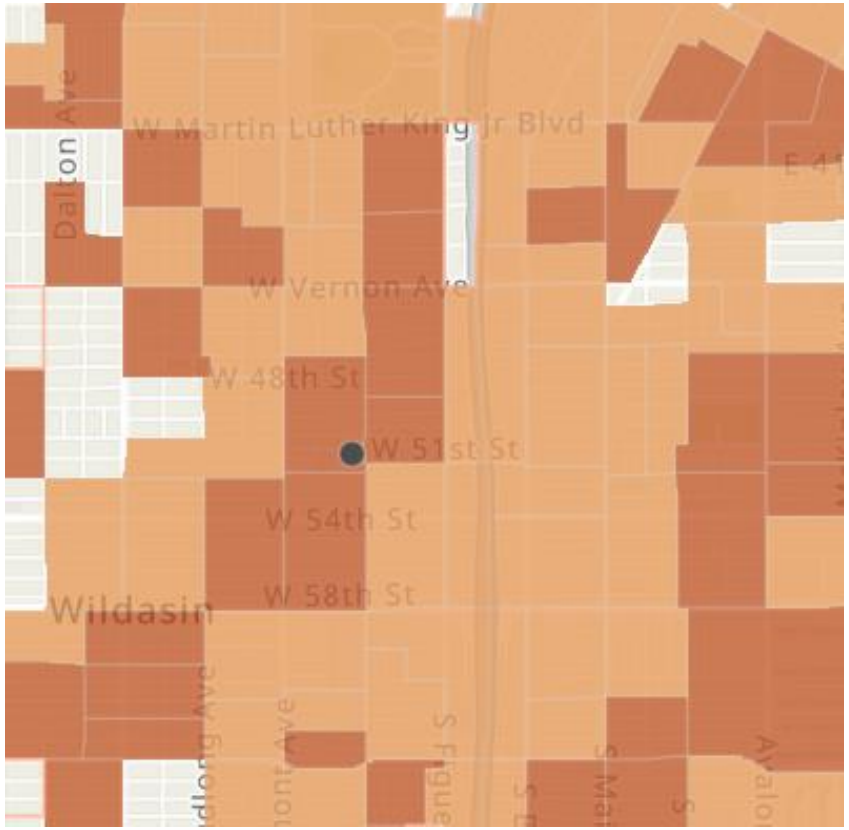
edwardc@westbasin.org

310-660-6286

LA Neighborhood Land Trust (LANT)

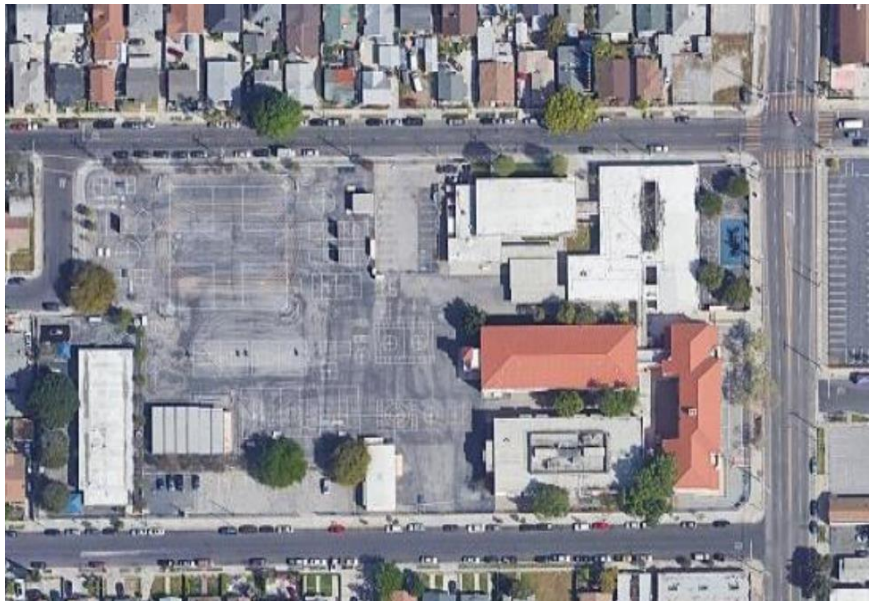
2. Healthy Pocket Parks and Schools: 52nd Street Elementary

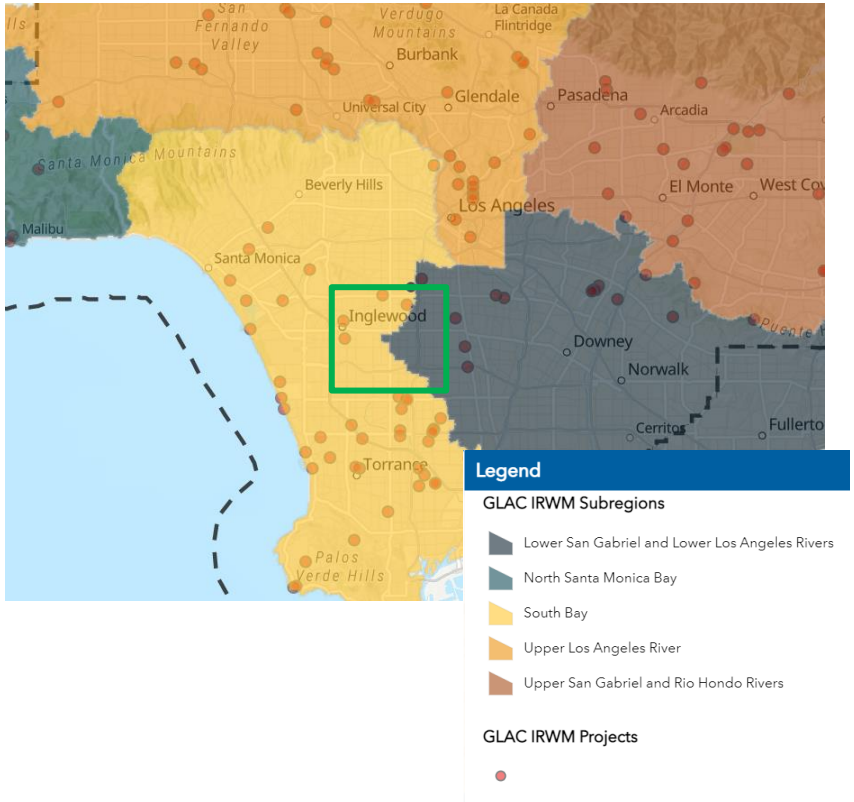
Project Location



Project Location

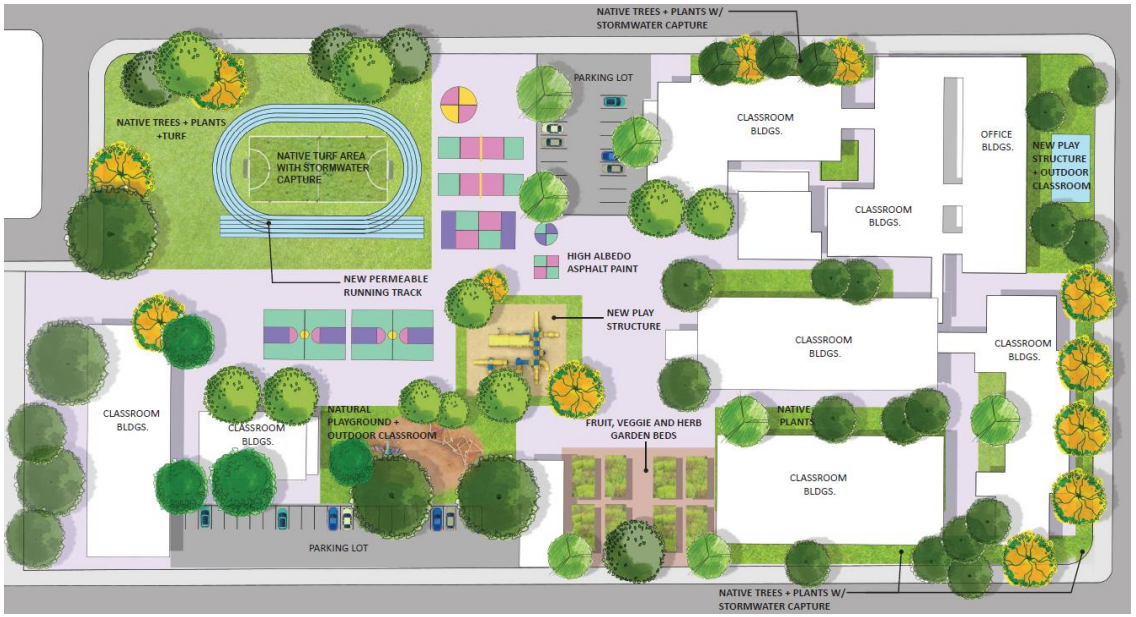
Address: 816 W 51st St, Los Angeles, CA 90037





Project Description

* Transform an asphalt schoolyard in South LA to a multi-benefit green schoolyard
* Estimated project completion date – December, 2024



Project Benefits

- **Regional benefits:**
  - Climate Adaptation – reduced heat threat to students, heat island effect for community
  - Habitat, Open Space, and Recreation
    - Planting trees, installing over 20,000 square feet of new native vegetation and green infrastructure swales
    - Outdoor classroom, new 20,000 square foot native turf field with a permeable running track, seating areas, and edible school garden
  - Water Supply
  - Water Quality
- **Statewide Priorities**
  - Drought Preparedness
  - Use and Reuse Water More Efficiently
  - Climate Change Response Actions
  - Expand Environmental Stewardship
  - Protect Surface Water and Natural Resources
  - Ensure Equitable Distribution of Benefits

CEQA & Permit Status

CEQA/Permit Document (List all per EIF)	Start Date	End Date
The project qualifies for a Notice of Exemption, filed by LAUSD	April 2023	April 2023
LAUSD/State of California Division of the State Architect (DSA) Review	November 2023	January 2024

Project Budget

Budget Category	Grant Request	Cost Share	Other Cost	Totals
A. Project Administration	$81,000	-	$119,000	$200,000
B. Land Purchase/ Easement	n/a	-		n/a
C. Planning/Design Engineering/ Environmental Documentation	$117,000	-	$183,075	$300,075
D. Construction/ Implementation	$702,000	-	$1,097,925	$1,799,925
Totals	$900,000	-	1,400,000	$2,300,000
Minimum Grant Amount Needed:	$900,000			

Project Schedule

Budget Categories	Start Date	End Date
A. Project Administration	July 2022	May 2025
B. Land Purchase/Easement	n/a	n/a
C. Planning/Design/Engineering/Environmental Documentation	July 2022	January 2024
D. Construction/Implementation	February 2024	August 2024

Expected Challenges/Delays

* Limited/reduced pre- and post-project monitoring if full grant amount is not awarded
* Construction during the school year may be limited to minimize disruption to students throughout the day

Questions

LA Neighborhood Land Trust (LANLT)
Contact: Tori Kjer, Executive Director
Tkjer@lanlt.org
310-909-3891

Stantec
Emily Huang, Urban Designer
Emily.huang@stantec.com
213-269-4237

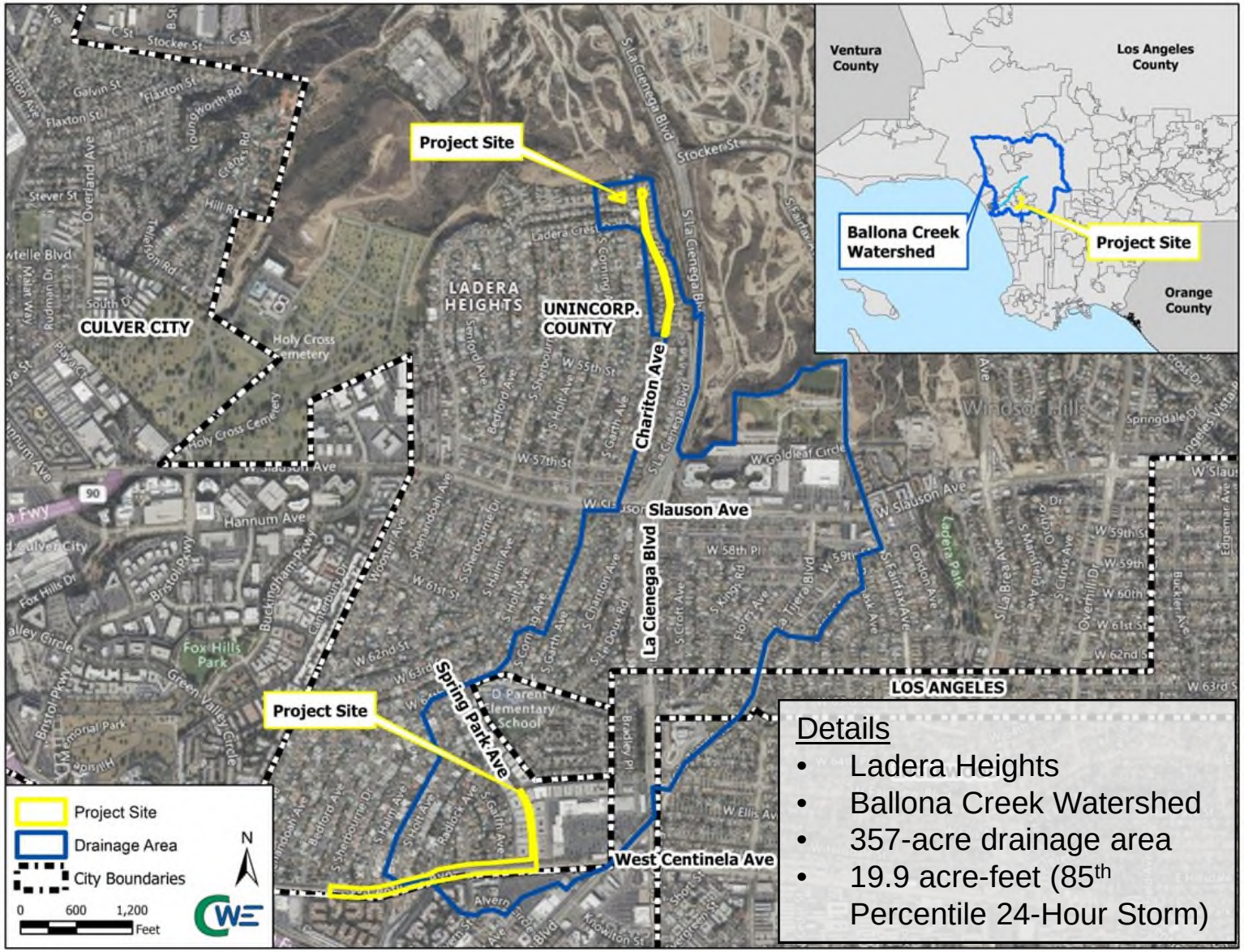
Los Angeles County Public Works

Ladera Heights-West Centinela Green Improvement Project

Josafat Flores, P.E.

Associate Civil Engineer

Project Location



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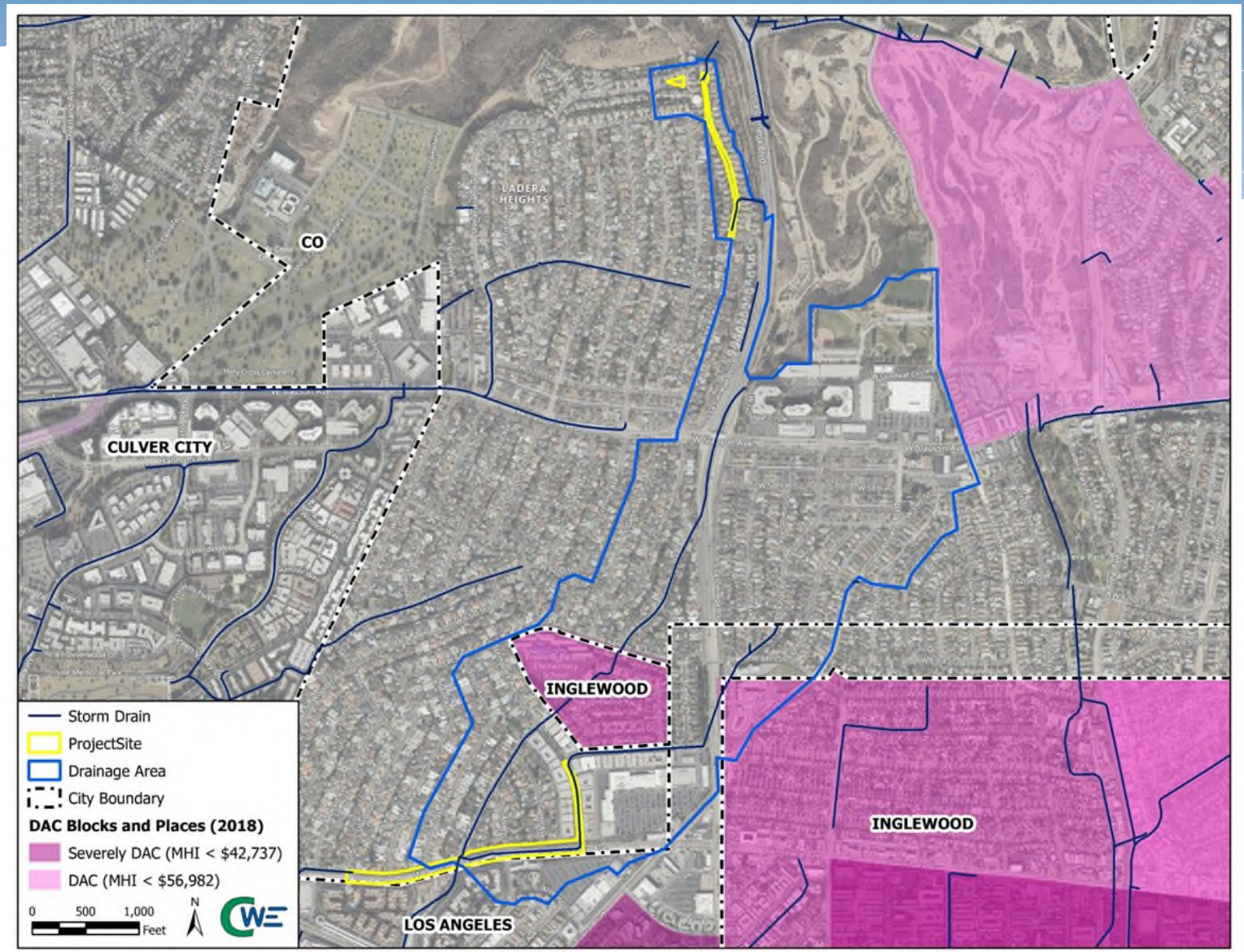
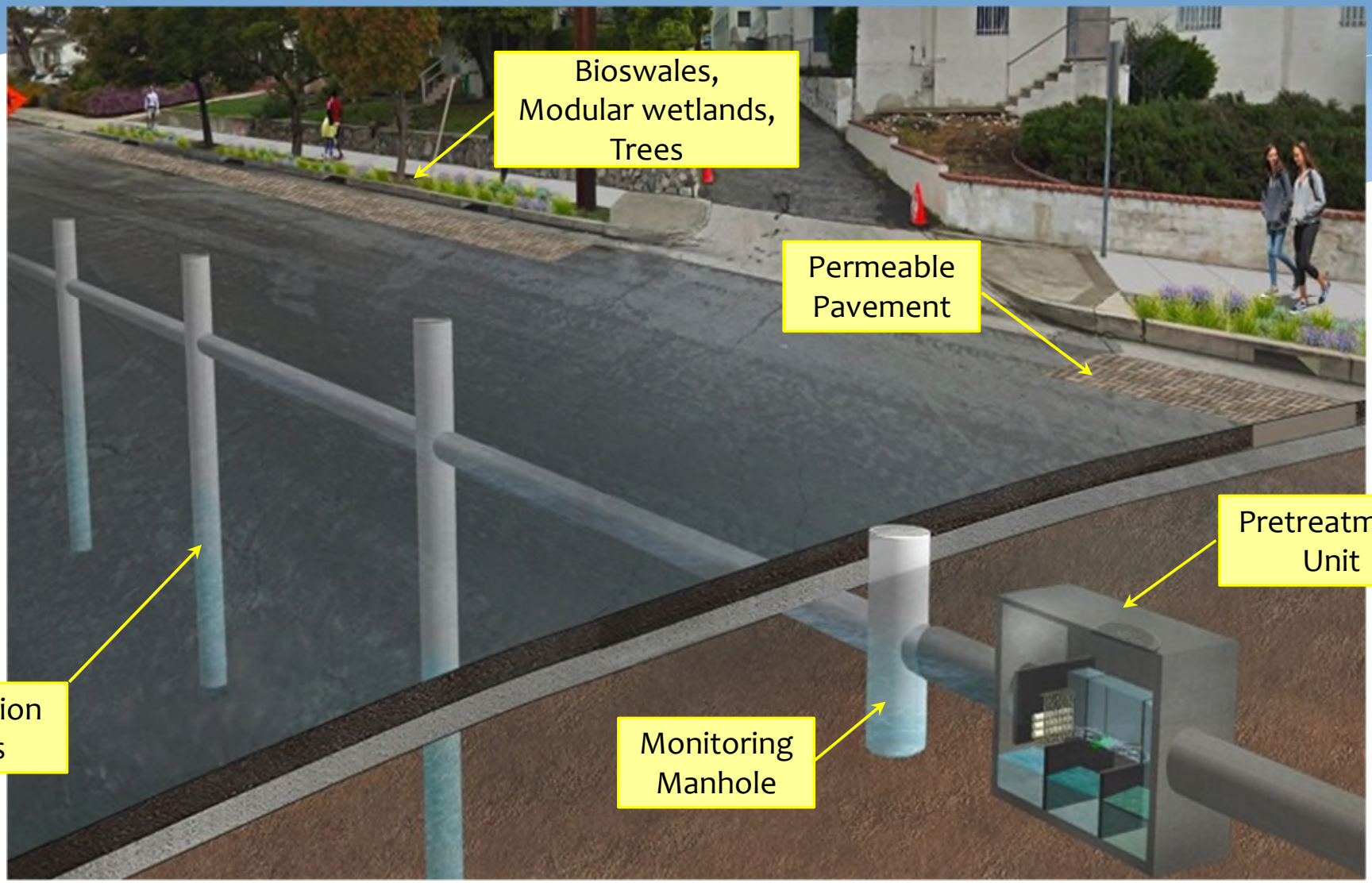


Project Description



* Estimated Project Completion Date: March 2026

Project Benefits

Water Quality Benefits

- Remove up to 70% of metals
- Provide full capture of trash

Water Supply Benefits

- Recharge to the West Coast Basin (potential)
- Captures 135+ acre-ft of water per year

Flood Control Benefits

- Provide new drainage infrastructure
- Reduce localized flooding and enhance downstream storm drain capacity

Open Space Benefits

- Native and/or drought tolerant landscaping
- Improved aesthetic due to modular wetland, bioswales, and new trees

CEQA & Permit Status

CEQA/Permit Document (List all per EIF)	Start Date	End Date
Program Environmental Impact Report (Program EIR)	5/26/2015	N/A
Addendum to Program EIR	1/1/2023	3/30/2024*

*: Anticipating filing in March 2024 or by the grant agreement required date

Project Budget

Budget Category	Grant Request	Cost Share	Other Cost	Totals
A. Project Administration	N/A	N/A	N/A	N/A
B. Land Purchase/ Easement	N/A	N/A	N/A	N/A
C. Planning/Design Engineering/ Environmental Documentation	$1,000,000	$1,000,000	$6,000,000	$8,000,000
D. Construction/ Implementation	$1,500,000	$1,500,000	$17,000,000	$20,000,000
Totals	**$2,500,000**	**$2,500,000**	**$23,000,000**	**$28,000,000**

Anticipate applying for SCWP funding for construction costs in Round 5 (July 2023).

Project Schedule

Budget Categories	Start Date	End Date
A. Project Administration	6/27/2016	8/31/2025
B. Land Purchase/Easement	N/A	N/A
C. Planning/Design/Engineering/Environmental Documentation	6/27/2016	3/30/2024
D. Construction/Implementation	12/1/2024	3/31/2026

Expected Challenges/Delays

Potential challenges and/or delays:

- Finding funding
  - County is applying for grant funding and will use available resources to make up the difference
- Traffic-related construction impacts
  - Working with the community early on to spread the word
- O&M challenges related to training County staff/team
  - Conversations are happening early on in preparation

Questions

Contact:

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Associate Civil Engineer
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(626) 300-4621