

Project Applicant Name: Alex Farassati

Las Virgenes Creek Restoration Project - Phase III

Presenter: Alex Farassati, Project
Manager

Alba Lemus, Associate Civil Engineer

Project Location

Phase III –
Project Location

1.5 mile of Creek From
Agoura Road to the end of
Lost Hills Road



Project Description

Key features of the project include:

- * Installation of rip rap for approximately 25 outlets;
- * Installation of BMP to treat stormwater at end of the pipes
- * Restoration and rehabilitation of areas along Las Virgenes Creek that were severely damaged by storms;
- * Bank stabilization and erosion control;
- * Building an extension of the Lower Natural Trail will also be built in order to expand public access to another area to view the creek in a natural environment;
- * Building cross walk on Lost Hills Road.

Project expected to be completed by June 30, 2027

Project Benefits

- * **Flood Protection** – Removal fish barriers and other obstructions, bank stabilization, and the restoration of riparian understory and will culminated in the creation of 27 acres of hydrodynamic creek bed that will mitigate the severity of major flood events.
- * **Restoration** – 1.5 mile project site, approximately 27 acres cleared of burned and broken trees.
- * **Bank Stabilization** – Over 400 linear feet almost 1.5 acres of bank stabilization through bio-engineering methods in one section alone.
- * **Water Quality** – Bank stabilization will reduce both sedimentation and the release nutrients from geological sources.

Project Benefits

Need for the Project:

- * As a result of the Woolsey Fire, many areas located in approximately 27 acre along Las Virgenes Creek have been severely burned and damaged, including areas enhanced and restored during the Las Virgenes Creek Restoration Project – Phase II.
- * Many of the existing trees located along the creek have been burned and many of the untouched, natural slopes along the creek have the potential to erode and fail during heavy rainfall.
- * These areas are in dire need of erosion prevention, bank stabilization and restoration of the natural vegetation and habitat.

CEQA & Permit Status

CEQA/Permit Document (List all per EIF)	Status	
CEQA	In Progress	
401 Water Quality Certification from the Regional Water Quality Control Board	In Progress	
Lake or Streambed Alteration Agreement (Section 1600)	In Progress	
Clean Water Act Section 404 Permit	In Progress	

Project Budget

Budget Category	Grant Request	Cost Share	Other Cost	Totals
A. Project Administration	\$0	\$300,000	\$0	\$300,000
B. Land Purchase/ Easement	\$0	\$0	\$0	\$0
C. Planning/Design Engineering/ Environmental Documentation	\$0	\$400,000	\$0	\$400,000
E. Construction/ Implementation	\$1,793,500	\$980,500	\$0	\$2,774,000
D. Monitoring /Performance	\$0	\$100,000	\$0	\$100,000
F. Education/ Outreach	\$6,500	\$19,500	\$0	\$26,000
Totals	\$1,800,000	\$1,800,000	\$0	\$3,600,000
Minimum Grant Amount Needed:	\$1,800,000			

Project Schedule

Budget Categories	Start Date	End Date
A. Project Administration	05/23/22	12/31/27
B. Land Purchase/Easement	N/A	N/A
C. Planning/Design/Engineering/Environmental Documentation	05/23/22	01/31/26
D. Construction/Implementation	02/01/26	06/30/27

Expected Challenges/Delays

- * City staff is expecting delays in obtaining permits for the project but is optimistic based on prior experiences with previous phases

Questions

- * Project Manager:

Alex Farassati

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- * Presenter:

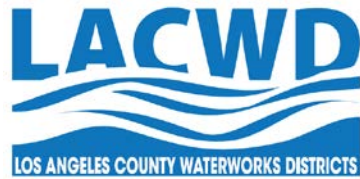
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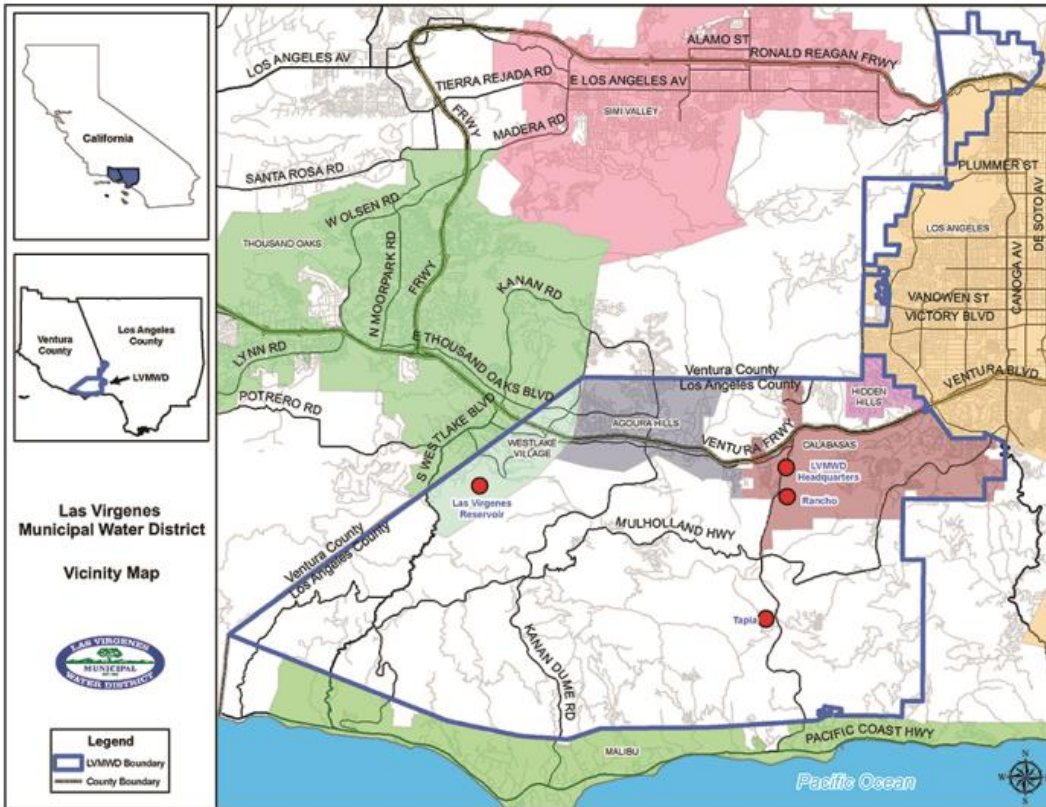
Drought Resiliency Water Conservation Program

**Presenter: Craig Jones - Interim Resource
Conservation Manager
Las Virgenes Municipal Water District**



Project Location

Las Virgenes Municipal Water District



Los Angeles County Waterworks District #29



Project Description



- * 3-Way Partnership
- * To implement a joint regional water conservation project that will conserve 19 million gallons per year (58 AF/Y)
- * Provides rebates, devices, and assistance to remove water wasting grass
- * Install efficient outdoor devices and low water use, climate appropriate plants
- * Project to be completed by December 31, 2026

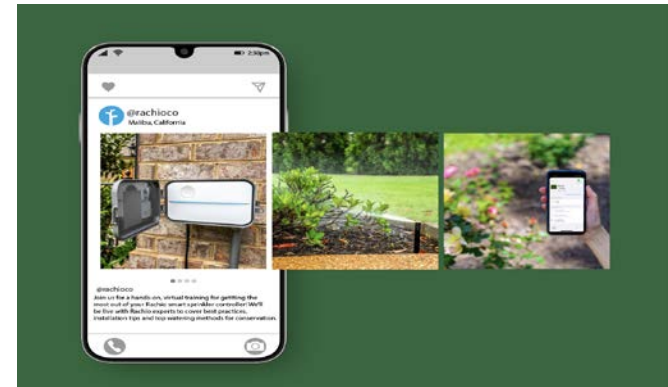
Project Benefits



- * Improves regional water self-reliance
- * Reduces reliance on imported water from the Sacramento Bay Delta System
- * Addresses critical water supply issues in the region
- * Conserves 19 million gallons per year (58 Acre-feet/yr.) of imported drinking water
- * Encourages regional approach – water users sharing watersheds
- * Drought Preparedness
- * Climate Resilience – strengthens partnerships with local water agencies, cities, and other stakeholders

Project Details

- * Outdoor Water Conservation Focused
 - \$2 - \$5 per ft² Turf Removal Rebate
 - Installation of Smart Sprinkler Timers
 - Site Survey Evaluations
 - Landscape Design Services
 - Low water-use plants and drip irrigation
 - Rain Barrels and Cisterns
 - Flow Monitoring Devices



CEQA & Permit Status

- * No CEQA Permit is needed for this water conservation program
- * City /County permits may be needed for the installation of larger water cisterns
- * Permits will be sought once sites have been identified
- * Collaboration with the Resource Conservation District of the Santa Monica Mountains (RCDSMM) and the Watershed Coordinator for the North Santa Monica Bay Watershed



Project Budget

Budget Category	Grant Request	Cost Share	Other Cost	Totals
A. Project Administration	\$60,000	\$16,000	\$0	\$76,000
B. Land Purchase/ Easement	N/A	N/A	N/A	N/A
C. Planning/Design Engineering/ Environmental Documentation	N/A	N/A	N/A	N/A
D. Construction/ Implementation	\$575,400	\$653,300	\$0	\$1,228,700
Totals	\$635,400	\$669,300	\$0	\$1,304,700
Minimum Grant Amount Needed:	\$635,400			

Project Schedule

Budget Categories	Start Date	End Date
A. Project Administration	03/01/2023	12/31/2026
B. Land Purchase/Easement	N/A	N/A
C. Planning/Design/Engineering/Environmental Documentation	N/A	N/A
D. Construction/Implementation	06/01/2023	06/30/2026

Expected Challenges/Delays



- * There are no project challenges or delays identified for this project
 - No CEQA is required
 - City permits will be acquired for cisterns
 - 51% Cost Share is secured
 - Project will adhere to the schedule
 - Project will be completed by December 31, 2026
 - If full grant is not awarded, project grant amount and project cost-share could be reduced, but would lower project water savings

Questions / Contacts

Las Virgenes Municipal Water District

Craig Jones, Interim Resource Conservation Manager

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West Basin Municipal Water District

Gus Meza, Sr. Water Policy & Resources Analyst

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Los Angeles County Public Works - Waterworks District #29

Terri Alex, Management Specialist I

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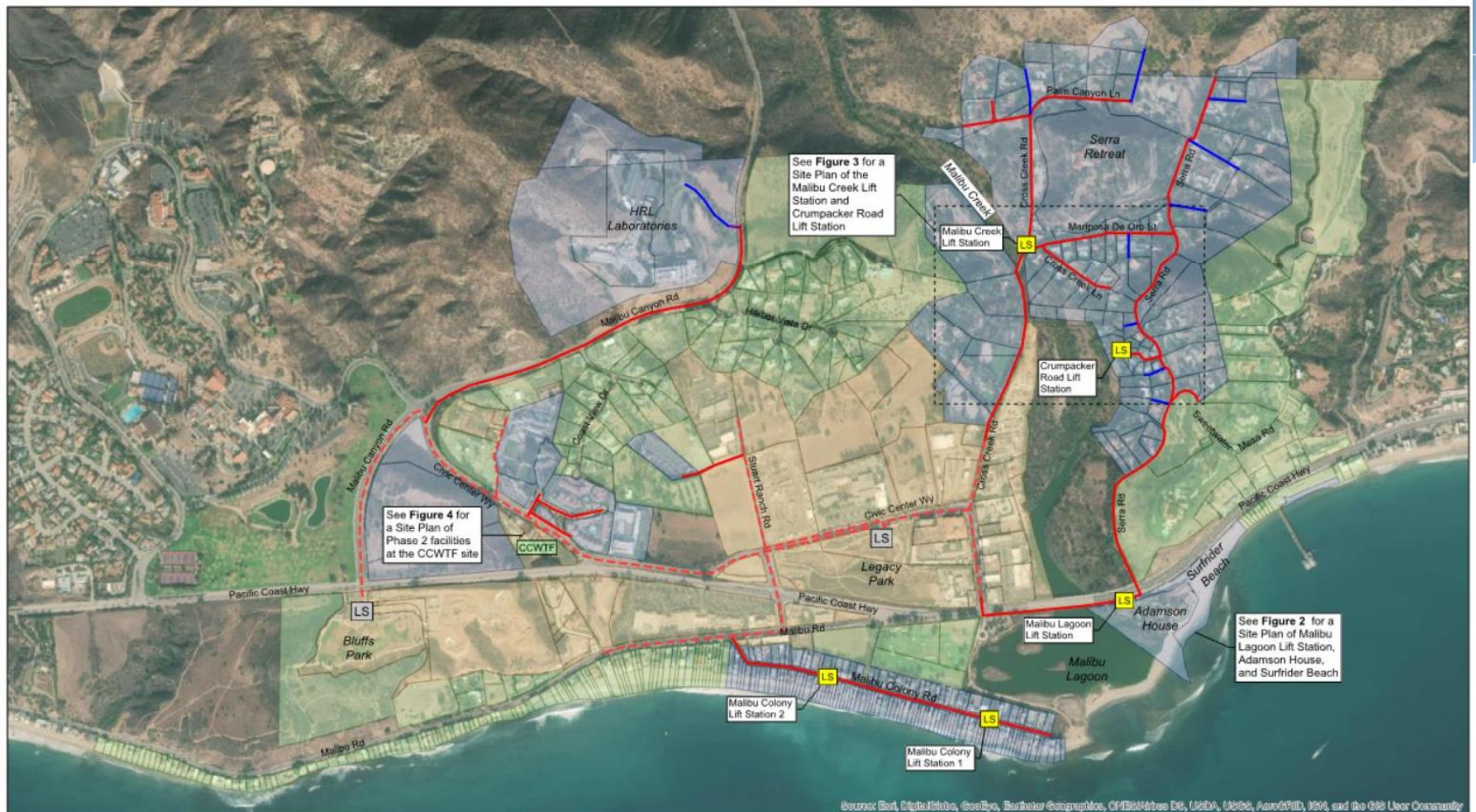
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City of Malibu

Malibu Civic Center Water
Treatment Facility
(CCWTF)
Phase 2

Rob Duboux
Public Works Director
City of Malibu

Project Location



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNR/SATCOM, USDA, USGS, AeroGRID, IGN, and the GIS User Community

CCWTF Phase 2 - Overall Project Figure City of Malibu CCWTF Phase 2 Expansion Project	Legend Phase 1 Phase 2 Phase 3	Existing (Phase 1) --- Sewer and Recycled Water Pipelines [LS] Lift Station	Proposed (Phase 2) — Sewer (gravity or forcemain) and Recycled Water Pipelines — Sewer Laterals [LS] Lift Station	[CCWTF] Civic Center Wastewater Treatment Facility	Note: Future Phase 3 infrastructure are not shown. 0 250 500 1,000 Feet 	 Map Created: March 2020
		[Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNR/SATCOM, USDA, USGS, AeroGRID, IGN, and the GIS User Community]				

Project Background

- * Septic prohibition from the Regional Board and State Water Board
- * Regional Board and City MOU implementation schedule
- * Phase One – Completed in October 2018
- * Phases Two – Completion deadline November 2024*
- * Phase Three – If needed, to be completed by November 2028*

* Note – Phase Two and Three deadlines are currently being modified by the City and Regional Board

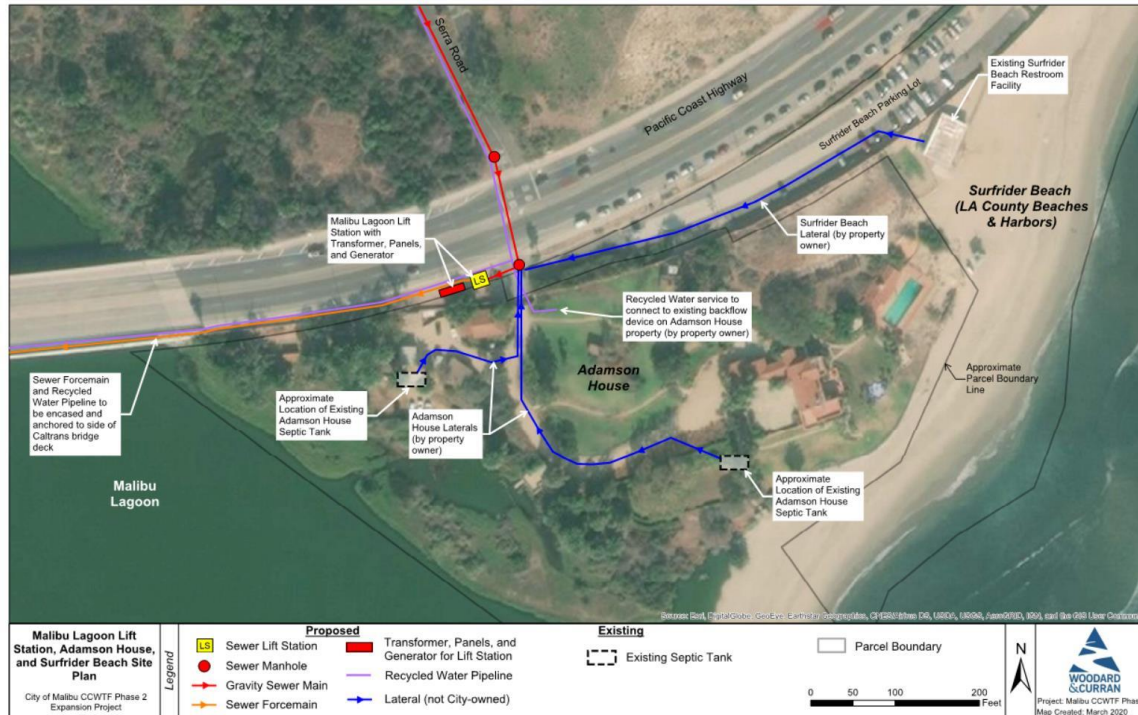
Project Description

- * Phase Two expansion of Malibu Civic Center Water Treatment Facility (CCWTF)
 - * Capacity expansion: 190,000 → 350,000 gal. wastewater/day
- * CCWTF produces recycled wastewater to over 450 homes, 57 commercial properties and City Parks
- * The discharge of treated effluent into the Malibu Valley Groundwater Basin
 - * Bolsters against saltwater intrusion from sea-level rise.
- * CCWTF continually meets nitrate effluent limit requirements set by Title 22 non-potable recycled water criteria

Project Description



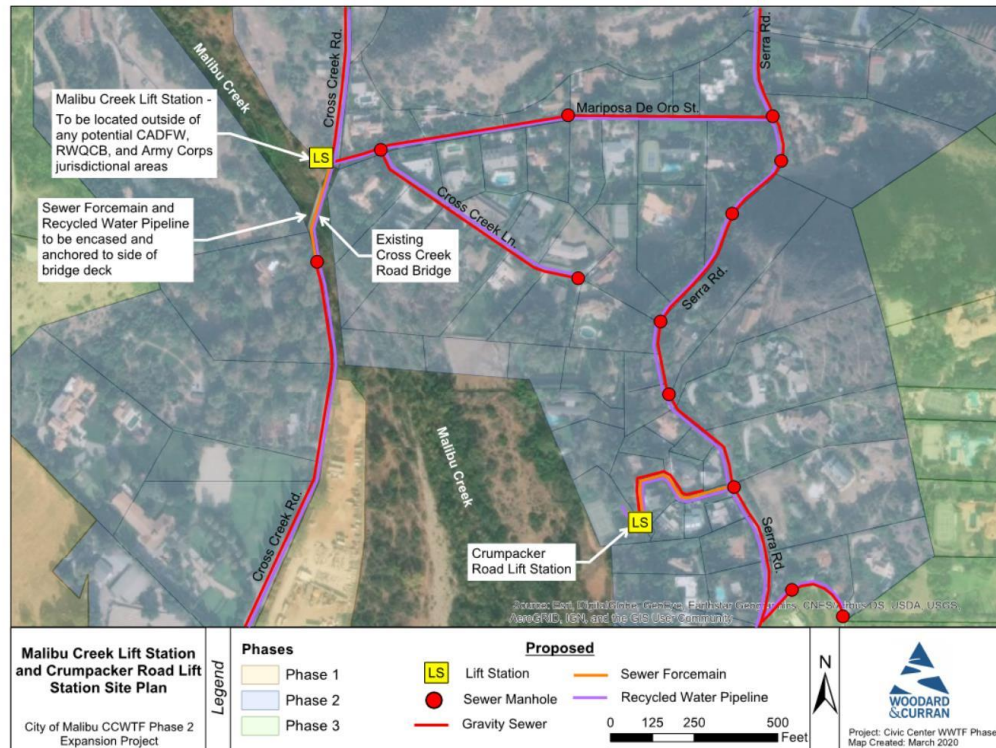
Figure 2: Malibu Lagoon Lift Station, Adamson House, and Surfrider Beach Site Plan



Project Description



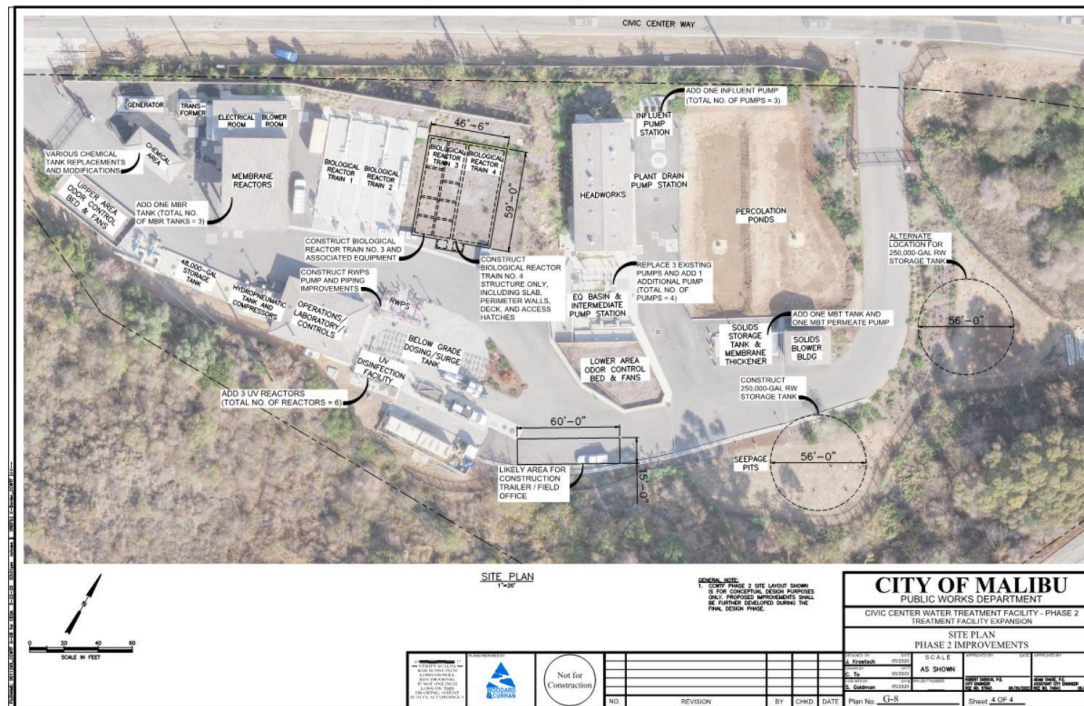
Figure 3: Malibu Creek Lift Station and Crumpacker Road Lift Station Site Plan



Project Description



Figure 4: CCWTF Phase 2 Improvements Site Plan



Project Benefits

Maximizing feasible opportunities to use recycled water will reduce the need to inject highly treated wastewater into lower aquifers of the Civic Center groundwater, which will reduce potential impacts to nearby natural resources.

- Water Quality
 - Improved water quality in Malibu Creek/Lagoon and Santa Monica Bay
 - Treatment Technologies
 - Membrane bioreactor
 - Ultra-violet facility
- Supplies Recycled Water
 - Can produce up to 350,000 gallons per day of recycled water
 - Reduces the reliance on potable water for irrigation

CEQA & Permit Status

CEQA/Permit Document (List all per EIF)	End Date
Final Environmental Impact Report with Addendum No. 1	02/2021
SCAQMD - Rule 403 Fugitive Dust; Odor Control System; Stand-by Generator	02/2021
USFWS/NOAA - Endangered Species Act Compliance	02/2021
LARWQCB - National Pollutant Discharge Elimination System Construction; Discharges of Groundwater from Construction Dewatering to Surface Water; Discharges of Low Threat Hydrostatic Test Water to Surface Waters	08/2021

Other Permits - Status

Other Required Permits	End Date
Caltrans – Encroachment Permit	11/2020
City of Malibu Coastal Development Permit	02/2021
LA County/LADPW/City of Malibu - Encroachment Permits	05/2023
City of Malibu – Building Permit	05/2023

Project Schedule

Budget Categories	Start Date	End Date
Planning		02/2022
Feasibility Study		01/2021
Environmental Assessment/EIS/EIRS		01/2021
Pre-Project Monitoring		07/2022
Design		02/2022
Environmental Permits (a)		02/2021
Building/Other Permits (b)		05/2023
Construction/Implementation	09/2023	06/2025
Post Project Monitoring	06/2026	06/2027

Budget Category	IRWM Grant Request	SRF Funding	Other Grants	Totals
Planning/Design/Environmental Review/Permits	\$0	\$3,920,000	Seeking additional grant opportunities	\$3,920,000
Construction/Implementation	\$2,500,000	\$51,500,000		\$54,000,000
Construction/Project Management	\$0	\$5,000,000		\$5,000,000
Other (Civic Center Assessment District Formation)	\$0	\$80,000		\$80,000
Total	\$2,500,000	\$60,500,000		\$63,000,000

Expected Challenges/Delays

- * Coordinating each home's private lateral connection prior to the Regional Board's MOU deadline
- * Creating a cultural resource monitoring plan
- * Obtaining the required easements on private roadways

Questions

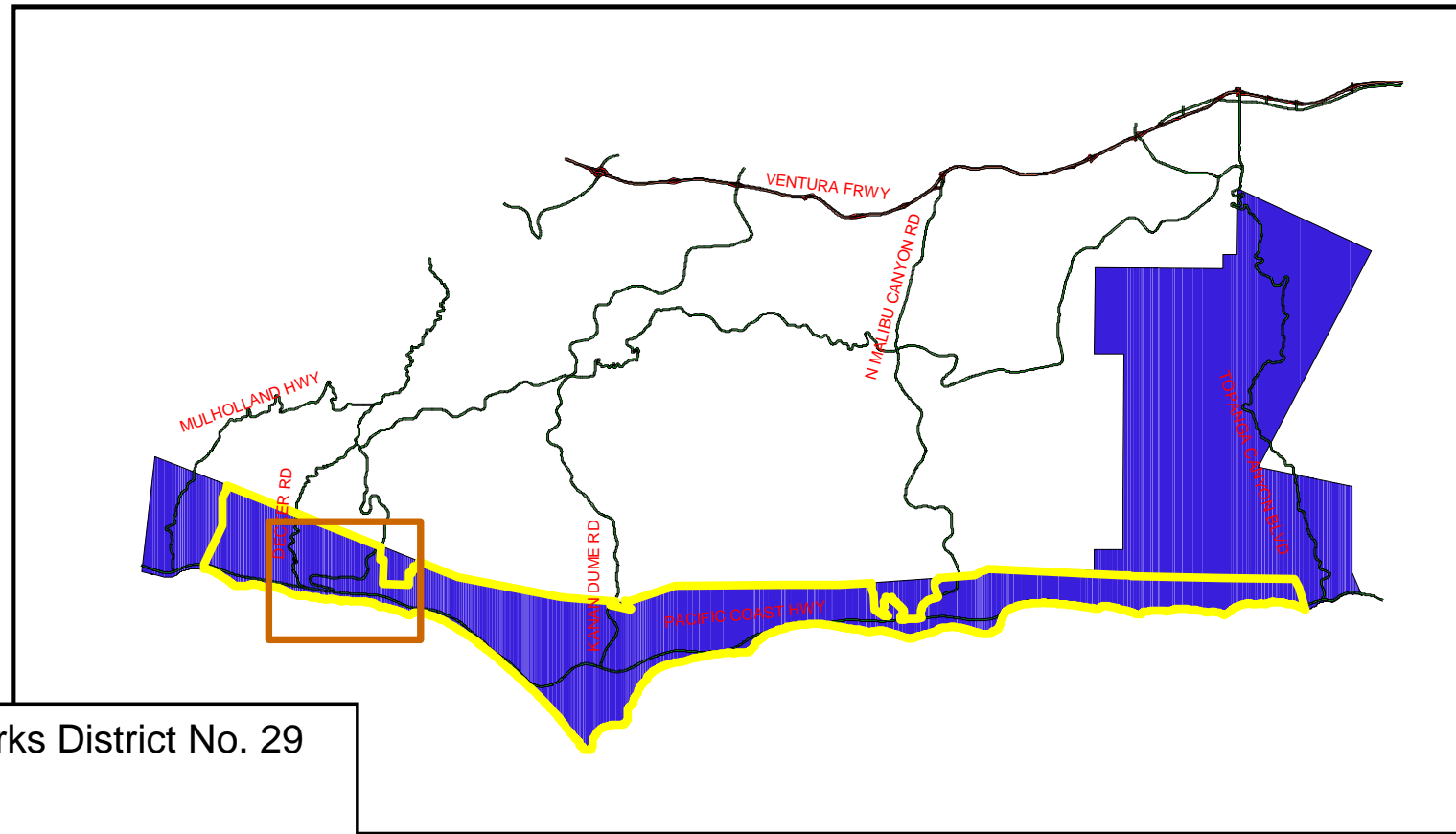
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- * Troy Spayd
 - * Assistant Public Works Director, City of Malibu
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Los Angeles County Waterworks District 29

Emergency Source of Water
Supply Connection
(Las Virgenes Connection)

Eduardo Maguino
Civil Engineer

Project Location



LA County Waterworks District No. 29
City of Malibu

Project Location



Project Description

- * Construct 6,400 feet of new 12-in dia. steel waterline & pressure reducing station to connect with Las Virgenes Municipal Water District.
 - * 2019 MOU agreement
- * Project completion 6/24/2026
- * Provide a water source to promote emergency preparedness, disaster response and improve water supply reliability for existing customers
- * Will support integration of separate water systems

Project Benefits

- * LVMWD will provide the District emergency water upon activation of interconnection
 - * Amount of water will be measured through metering device
- * Enhance the Districts water system resiliency that has no secondary source of water supply
- * Improve LVMWD water quality through flushing operations upon activation of interconnection
- * Statewide Priorities:
 - * Encourage regional approaches among water users
 - * Climate Resilience

CEQA & Permit Status

CEQA/Permit Document (List all per EIF)	Start Date	End Date
Coastal Development Permit	9/29/2021	6/12/2023
City of Malibu Encroachment Permit	12/27/2023	5/21/2024
Approved CEQA (Final Environmental Impact Report)	5/4/2021	5/4/2021

Project Schedule

Budget Categories	Start Date	End Date
A. Project Administration	1/26/2016	4/2/2019
B. Land Purchase/Easement	N/A	N/A
C. Planning/Design/Engineering/Environmental Documentation *	4/2/2019	6/12/2023
D. Construction/Implementation	8/15/2024	6/3/2025

*Planning/Design/Engineering 100% Completed

Project Budget

Budget Category	Grant Request	Cost Share	Other Cost	Totals
A. Project Administration				
B. Land Purchase/ Easement				
C. Planning/Design Engineering/ Environmental Documentation			\$1,800,000	\$1,800,000
D. Construction/ Implementation	\$2,400,000	50%	\$2,400,000	\$4,800,000
Totals	\$2,400,000		\$4,200,000	\$6,600,000
Minimum Grant Amount Needed:	\$1,500,000			

Expected Challenges/Delays

- * Expected challenges and/or delays with
 - * Acquiring Permits within 12 months: working on obtaining Coastal Development Permit from both City of Malibu and LA County Regional Planning
 - * Acquiring 50% Cost Share: no issues expected
 - * Adhering to Construction Schedule: no issues foreseen
 - * Completing project by December 31, 2027: no issues foreseen
 - * Completing project, if full grant amount is not awarded: no issues expected

Questions

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