

Olivehurst Drainage Study and Improvements

YC-03

I. Project Sponsor Contact Information

Lead Agency/Organization	Yuba County
Name of Primary Contact(s)	Michael Lee
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Project Partners/Collaborators	Olivehurst Public Utility District (OPUD) and Yuba County Water Agency (possible partner to fund local match if required).

II. General Project Information

Project Title	Olivehurst Drainage Study and Improvements
Project Total Budget	\$20,000,000
Project Funding Match	The Community of Olivehurst is designated as a disadvantaged community in the census data and may be eligible for the waiver for matching funds since the project will directly reduce the severity of flooding within the Community of Olivehurst. If local match is required then the amount would be \$5,000,000. Yuba County Water Agency may provide funding for the local match.
Project Funding Request	\$20,000,000 if no local match. \$15,000,000 with local match.
Can a detailed cost estimate be provided upon request?	No
Project Location:	The Community of Olivehurst
Latitude	39.0956° N
Longitude	121.5522° W
Could you provide a map of the project location including boundaries upon request?	Yes
Project Location Description:	The Community of Olivehurst north of McGowan Parkway, east of the Union Pacific Railroad, west of State Route 70, and south of the Horseman's Ditch (just north of Second Avenue).
County	Yuba
City/Community	Community of Olivehurst
Watershed/subwatershed	Yuba
Groundwater Basin	Yuba Groundwater Basin/South Yuba Sub-basin

Project Type	Planning Facility Construction Acquisitions
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III. Project Description

The project would update and implement the Lampman Drainage Study that was conducted in the 1970s. The drainage study determined the flow direction of surface runoff for streets within the Olivehurst Community. A drainage plan will be prepared from the study to identify the directional flows along streets within Olivehurst. The drainage plan will also determine where open roadside ditches are appropriate and where underground piping systems will be necessary. Additional right-of-way may need to be acquired to accommodate the drainage system.

The Project will be conducted in phases as follows:

Phase 1: Update and survey drainage patterns within Olivehurst to determine and verify the directional flows of surface runoff.

Phase 2: Design of the drainage system to collect and transport surface runoff.

Phase 3: Construct needed improvements to implement the drainage system.

IV. Project Rationale/Issues Statement

Flood Management, Water Quality Protection, and Climate Change Adaptation and GHG Emissions Reduction

Currently the Olivehurst area experiences localized flooding. Many streets lack proper drainage facilities (e.g. roadside ditches or curb and gutters) to drain surface runoff. This results in water ponding either along the roadway or on adjacent properties, affecting the use of these properties. Also, the localized flooding problems result in high infiltration rates into OPUD’s sewer system. Infiltrated runoff is processed through OPUD’s wastewater treatment plant, which increases the operational costs for OPUD by having to process the additional water. The implementation of this project would result in improved flood management for the Olivehurst Community and reduce energy use and operational costs for OPUD.

V. Goals/Objectives/Performance Metrics

Goals Addressed by the Project	Goal 2: Protect, restore and enhance water quality for water users and in support of healthy watersheds Goal 5: Protect public safety through integrated flood management Goal 6: Address climate vulnerabilities and reduce greenhouse gas
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	emissions Goal 7: Promote equitable distribution of resources to disadvantaged communities and tribes across the region
Objectives Addressed by Project	2.2 Minimize water quality impacts from flood, effluent discharge and wastewater spills; 5.1 Improve integrated flood management to increase flood protection and enhance regional and inter-regional collaboration; 6.1 Support efforts to reduce greenhouse gas emissions in the region, particularly those related to water management operations; 7.1 Support DAC project development/ implementation activities by providing ongoing outreach, proposal and funding development assistance and training.
What performance metrics will be used to demonstrate that objectives are being met? Wherever possible, provide a quantitative measurement reflecting successful project outcomes.	The reduction of flooding on properties within the Community of Olivehurst. The reduction of runoff infiltrating into the OPUD sewer system and reduced amounts of water being treated at their wastewater treatment plant.

VI. Resource Management Strategies

Improve Water Quality	
Urban Runoff Management	Project manages urban runoff.
Improve Flood Management	
Flood Risk Management	This project will improve flood management.

VII. Statewide Priorities

Climate Change Response Actions

- Adaptation to Climate Change: Water management system modifications that address anticipated climate
- Reduction of Greenhouse Gas (GHG) Emissions: Reduce energy consumption of water systems and uses
- Reduce Energy Consumption: Water system energy efficiency

Practice Integrated Flood Management

- Improved flood protection
- More sustainable flood and water management systems

Ensure Equitable Distribution of Benefits

- Develop multi-benefit projects with consideration of affected disadvantaged communities and vulnerable populations
- Contain projects that address safe drinking water and wastewater treatment needs of DACs

Climate Change Adaptation

The project will reduce the amount water that infiltrates into OPUD’s sewer system. This will reduce the amount of water that must be treated at OPUD’s wastewater treatment plant which, in turn, will reduce their operational costs and electrical usage. This will reduce GHG needed to produce the electrical energy.

GHG Emissions Reduction

GHG emissions reduction strategies will be developed and considered during the design stage of the project.

VIII. Project Status and Schedule

For Conceptual Projects Only: The Project is currently in the Conceptual Stage: **YES**

Note: If the project is in the conceptual stage only, do not fill out the following table.

Project Stage	Description of Activities in Each Project Stage	Planned/Actual Start Date	Planned/Actual Completion Date
Planning			
Design			
Environmental Documentation (CEQA/NEPA)			
Permitting			
Tribal Consultation (if not applicable, indicate by N/A)			
Construction/ Implementation			

IX. Project Technical Feasibility

a. List the water planning documents that specifically identify this project.	
b. List the adopted planning documents the proposed project is consistent with (e.g., General Plans, UWMPs, GWMPs, Water Master Plans, Habitat Conservation	

Plans, etc.)	
c. List technical reports and studies supporting the feasibility of this project.	OPUD did prepare a study showing areas of high infiltration rates of runoff into their system