

Marysville Ring Levee Project

MLD-01

I. Project Sponsor Contact Information

Lead Agency/Organization	Marysville Levee District
Name of Primary Contact(s)	Tom Engler, MBK Engineers
Mailing Address	1771 Tribute Road, Suite A Sacramento, CA 95815
Email Address	engler@mbkengineers.com
Phone	916-456-4400
Project Partners/Collaborators	Central Valley Flood Protection Board (CVFPB), United States Army Corps of Engineers (USACE), Yuba County Water Agency

II. General Project Information

Project Title	Marysville Ring Levee Project
Project Total Budget	\$90.4 million
Project Funding Match	Federal Government= 65% Local = 30%
Project Funding Request	Maximum state funding request would be 70% of total project
Can a detailed cost estimate be provided upon request?	Yes
Project Location:	Ring Levee protecting the City of Marysville
Latitude	39.146178
Longitude	-121.591408
Could you provide a map of the project location including boundaries upon request?	Yes
County	Yuba
City/Community	Marysville
Watershed/subwatershed	Feather and Yuba Rivers including Jack Slough
Groundwater Basin	Yuba Groundwater Basin
Project Type	Design/Construction

III. Project Description

The Marysville Ring Levee (MRL) element was included as a separable element of the 1998 Feasibility Study for the Yuba River Basin Project. As authorized, the Marysville Ring Levee element comprises improvements, including construction of slurry walls and berms to the ring levee that protects the City of Marysville from flooding from the Yuba River, the Feather River, and Jack Slough. The MRL project

includes four distinct “phases” and several are broken down into smaller “stages.” A contract was awarded to Raito Inc. of San Leandro in August 2010 with \$12 million of American Recovery and Reinvestment Act funding. Construction was completed in 2012, upgrading the levee’s fragile northeast reach by installing a seepage cutoff wall to depths over 100 feet.

Design and planning are underway on phases 2, 3 and 4 of the project. Several stages for phases 2 and 3 could be ready for construction by 2014 or 2015. The likely next phase will be to strengthen the levee adjacent to Highway 70 and the Catholic cemetery using a stability berm. Work is slated to begin as early as April 2014. Design work also continues on the remaining phases.

IV. Project Rationale/Issues Statement

The City of Marysville is protected by a 7.6-mile ring levee (MRL) that reduces flood risk to 12,000 people; and an estimated 3,731 structures including Rideout Memorial, which provides the only level-3 trauma services to more than 100,000 people in the Yuba-Sutter Area. The MRL also reduces flood risk to State Highways 20 and 70 and Union Pacific Railroad, critical statewide transportation routes. Marysville was completely surrounded by floodwaters as recently as 1997.

The MRL project will meet the state’s requirement of 200 year-level flood risk for urban areas (1-in-200 flood risk in any given year). The project will surpass that criteria making Marysville one of the lowest at-risk cities in the Central Valley. The Central Valley Flood Protection Board and Marysville Levee District are partners with the Army Corps of Engineers on project construction. The Marysville Levee District maintains the levees and is the local non-federal sponsor, and YCWA provides financial, policy and technical assistance.

Specifically, the project addresses the following regional issues:

Flood Management

- Improve integrated flood management to ensure better emergency preparedness
- Increase flood protection
- Create multi-stakeholder collaboration for flood management to achieve multiple economic, public safety, and ecological benefits

Climate Change

Respond to projected climate change impacts on water supply reliability, water quality, public safety and watershed health and develop regional and inter-regional adaptive management strategies.

V. Goals/Objectives/Performance Metrics

Goals Addressed by the Project	The project addresses the following Plan Goals: Goal 5: Protect public safety through emergency and drought preparedness
--------------------------------	--

	and integrated flood management Goal 6: Address climate vulnerabilities and reduce greenhouse gas emissions
Objectives Addressed by Project	The project addresses the following Plan Objectives: 5.1 Improve integrated flood management to ensure emergency preparedness, increase flood protection and enhance regional and inter-regional collaboration 5.2 Support regional and inter-regional collaboration to improve drought and emergency preparedness 6.3 Increase system flexibility and resiliency to adapt to climate variability
What performance metrics will be used to demonstrate that objectives are being met? Wherever possible, provide a quantitative measurement reflecting successful project outcomes.	<ul style="list-style-type: none"> ▪ Increased flood protection ▪ Decreased flood insurance premiums ▪ Decreased flood risk

VI. Resource Management Strategies

Practice Natural Resources Stewardship	
Economic Incentives (Loans, grants, and water pricing)	Includes State and Federal cost share to leverage local investments.
Improve Flood Management	
Flood Risk Management	Increases flood protection from less than 100- year protection to greater than 250-year protection upon project completion.

VII. Statewide Priorities

Climate Change Response Actions

- Adaptation to Climate Change: Water management system modifications that address anticipated climate

Practice Integrated Flood Management

- Better emergency preparedness and response
- Improved flood protection

Ensure Equitable Distribution of Benefits

- Develop multi-benefit projects with consideration of affected disadvantaged communities and vulnerable populations

Climate Change Adaptation

The project design uses conservative hydrologic and hydraulic assumptions and maintains the excess levee freeboard. These conservative design assumptions provide for increased project resiliency that will accommodate the potential for increased flood flows from climate change.

GHG Emissions Reduction

Construction-related activities comply with the requirements of the Feather River Air Quality Management District, whose standards exceed many other air quality districts’ in the state.

Additionally, all disturbed areas during construction will be re-vegetated with California native grasses promoting carbon sequestration.

VIII. Project Status and Schedule

Project Stage	Description of Activities in Each Project Stage	Planned/Actual Start Date	Planned/Actual Completion Date
Planning		2010	2010
Design		2010	2015
Environmental Documentation (CEQA/NEPA)		2010	2015
Permitting		2010	2015
Tribal Consultation (if not applicable, indicate by N/A)		2010	Ongoing
Construction/ Implementation		2010	2016

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.	Yuba River Basin, California, Marysville Ring Levee Engineering Documentation Report (HDR.USACE, April 12, 2010)
If you are an Urban Water Supplier:	
1. Have you completed an Urban Water Management Plan and submitted to DWR?	N/A
2. Are you in compliance with AB1420?	N/A
3. Do you comply with the water meter requirements (CWC Section 525)?	N/A
If you are an Agricultural Water Supplier:	
1. Have you completed and submitted an AWMP?	N/A
If the project is related to groundwater:	
1. Has GWMP been completed and submitted for the subject basin?	YCWA Groundwater Management Plan