

Dry Creek Levee Feasibility Study
RD817-02

I. Project Sponsor Contact Information

Lead Agency/Organization	Reclamation District 817
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II. General Project Information

Project Title	Dry Creek Levee Feasibility Study
Project Total Budget	\$797,000
Project Funding Match	TBD
Project Funding Request	TBD
Can a detailed cost estimate be provided upon request?	Yes
Project Location:	Dry Creek left bank levee in RD 2103
Latitude	39.01967
Longitude	-121.453942
Could you provide a map of the project location including boundaries upon request?	Yes
County	Yuba
City/Community	Wheatland
Watershed/subwatershed	Bear River/Dry Creek
Groundwater Basin	Yuba Groundwater Basin/South Yuba sub-basin
Project Type	Planning Study/Assessment

III. Project Description

In order to address flooding concerns for the City of Wheatland and surrounding agricultural lands, Reclamation Districts 2103 and 817 initiated a joint program (Program) to evaluate and repair the Bear River and Dry Creek levees to provide 200-year protection for the urbanizing area and repair the agricultural levees to meet the 1957 design. The Program is divided into three phases and includes Phase 1 – RD 2103 Bear River North Levee Rehabilitation Project (Completed 2010); Phase 2 – Evaluation

and Rehabilitation of RD 2103 Dry Creek South Levee; and Phase 3 – Evaluate and Rehabilitate Bear River and Dry Creek Levees in RD 817.

This project would complete a feasibility study for the Dry Creek levee as part of Phase 2 of the above described Program. The proposed study will include all of the civil, environmental, hydraulic, geotechnical and economic analysis required to evaluate alternatives consistent with California Code of Regulations, Title 23, Chapter 2.5.3, Section 499.4, *Feasibility Studies for the Yuba Feather Flood Protection Program*. All work will rely on existing data and information from previous efforts including the United States Army Corps of Engineers (USACE) Comprehensive Study, the USACE Lower Feather River Floodplain Mapping study, and the State of California Department of Water Resources (DWR) Non-Urban Levee Evaluation program. The Feasibility Study will seek to identify the most favorable mitigation strategies to achieve the goals of the RD 2103 and 817 Program consistent with the 2012 Central Valley Flood Protection Plan (CVFPP).

IV. Project Rationale/Issues Statement

The project addresses the following identified regional issues:

- Improving flood management;
- Enhancing Working Landscapes;
- Adapting to climate change.

V. Goals/Objectives/Performance Metrics

Goals Addressed by the Project	<p>Goal 4: The project enhances regional economic development by supporting agricultural opportunities to preserve working landscapes/agriculture.</p> <p>Goal 5: The project protects public safety by upgrading flood management infrastructure, promoting disaster preparedness and reducing the costs and difficulty of achieving regulatory compliance.</p> <p>Goal 6: The project addresses climate vulnerabilities by improving flood protection.</p>
Objectives Addressed by Project	<p>4.5 Protect and restore working landscapes, particularly ranch/ag lands, and the watershed benefits they provide;</p> <p>5.1 Improve integrated flood management to ensure emergency preparedness, increase flood protection and enhance regional and inter-regional collaboration;</p> <p>6.3 Increase system flexibility and resiliency to adapt to climate variability</p>

What performance metrics will be used to demonstrate that objectives are being met? Wherever possible, provide a quantitative measurement reflecting successful project outcomes.	Feasibility study would identify a cost effective measures to achieve goals and objectives.
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VI. Resource Management Strategies

Practice Natural Resources Stewardship	
Agricultural Lands Stewardship	Potentially
Improve Flood Management	
Flood Risk Management	Enhanced flood management to 200-year protection that would improve public safety and flood damage in extreme storm events.

VII. Statewide Priorities

Climate Change Response Actions

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

Practice Integrated Flood Management

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

Climate Change Adaptation

The project would mitigate for the effects of climate change by providing enhanced flood management to 200-year protection that would improve public safety and flood damage in extreme storm events.

GHG Emissions Reduction

This project is a feasibility study and therefore does not have a direct effect on GHG emissions. However, the feasibility study will consider and determine GHG emissions reduction strategies among project alternatives when making recommendations for project construction implementation that would occur subsequent to the completion of the feasibility study.

VIII. Project Status and Schedule

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

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.)	2012 Central Valley Flood Protection Plan (CVFPP).
c. List technical reports and studies supporting the feasibility of this project.	<ul style="list-style-type: none"> ▪ Army Corps of Engineers (USACE) Comprehensive Study, the USACE ▪ Lower Feather River Floodplain Mapping study ▪ State of California Department of Water Resources (DWR) Non-Urban Levee Evaluation program