

SACRAMENTO-SAN JOAQUIN DELTA ISLANDS & LEVEES, CA
CALFED LEVEE SYSTEM INTEGRITY PROGRAM
REQUEST FOR PROPOSALS
FOR DEVELOPMNT OF POTENTIAL INITIAL PROJECTS

PROJECT SUMMARY INFORMATION SHEET

Submitting Agency:

Reclamation District No.: 2065

Project Name:

Levee PL 84-99 Levee Improvement Project

Purpose of Project:

To bring levee up to PL 84-99 Standard for agricultural levees

Location of Project:

Reclamation District No. 2065 – Veale Tract, San Joaquin County

Problems Addressed By Project:

Improve factor of safety and levee performance by improving the District's levee to PL 84-99 Standards.

Opportunities:

To Reduce Flood Damages:

Reclamation District No. 2065, Veale Tract (RD 2065) operates and maintains approximately 5.7 miles of levee along Rock Slough which protect 1,298 acres of agricultural lands with a population of 4. This proposed levee improvement project would bring the levee up to the PL 84-99 standard (Base Level Protection). The PL 84-99 standard provides a 1 ½ feet of freeboard over the base flood elevation along with established minimum levee slopes to ensure structural stability.

Protect Water Supply/conveyance:

The project will increase the reliability of water supplies by reinforcing and protecting the levees that form the waterways that convey water to the State Water Project and the Central Valley Project together with maintaining water quality and protecting fish and wildlife.

Ecosystem Restoration:

The interior lands of the District provide many habitat values to native species as well as wintering and breeding habitat for migratory waterfowl. All of the waterways surrounding the District harbor native as well as

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threatened and endangered species. If fully implemented, the project would protect the island interior as well as maintain the channels for waterborne species.

Project Description:

The project would include undertaking selected subsurface geotechnical investigation along the District's levee system in order to assist in the development of improvement plans. It is anticipated that the geotechnical analysis would focus the District's efforts and help in determining the best configuration and design template for certain reaches of levee.

Project Scope:

The project would involve improving the levee to the PL 84-99 standard (Base Level Protection) by placing fill as recommended in the proposed geotechnical analysis.

Levee Miles to be improved: 5.7

Project Costs:

PL 84-99 Improvements	\$460,066 to \$1,133,906
Engineering, Design, & Inspection	\$ 46,006 to \$ 113,390

Willingness & Ability to Cost Share

At this time, RD 2065 has limited ability to Cost Share in a Federal Project. This is a critical matter, and needs to be resolved prior to RD 2065 committing to cost share. In the past, other Districts have provided land, easements and/or right of ways, while the State of California has picked up the balance of the cost share. In order for the RD 2065 to consider cost sharing in this project, other responsible agencies will also need to be identified and commit to cost sharing.

Point of Contact & Agency Affiliation

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Scoping & Screening Information

Project urgency

RD 2065 provides flood protection for very valuable farmland and Habitat valued at approximately \$5,192,000. There are 1,298 acres within the District. The lands within the District provide important habitat values for native species as well as migratory species.

Anticipated changes in magnitude, frequency or duration of flood flows:

Not Applicable.

How does project address flooding, ecosystem, water supply & quality?

See Answers in text above.

Who or what will benefit from the potential project?

See Answers in text above.

What is the likely federal, state & local agency support?

See paragraph above regarding "Willingness & Ability to Cost Share."

Are there obstacles that may delay development and implementation of project?

Available Cost Sharing.

Is your agency ready, willing and able to serve as non-federal sponsor?

See paragraph above regarding "Willingness & Ability to Cost Share."

Project Proposal to the U.S. Army Corps of Engineers
CALFED Levee System Integrity Program

February 2006

RD 2065

Project Name: Veale Tract PL-99 Levee Rehabilitation and Biotechnical Bank Stabilization Project

Purpose: The purpose of the project is to increase the level of protection of the lands and inhabitants of Veale Tract, Contra Costa County, to an acceptable standard and to rehabilitate three miles of waterside slope.

Location: The project is located on Veale Tract, Contra Costa County at the east end of Delta Road. (Plate 1). Veale Tract is protected on three sides by levees along Rock Slough, Werner Cut, and No Name Slough. These 5.7 miles of non-Project levees protect 1,300 acres. (Plate 2). However, because there is no back levee along the west side of Veale Tract, Veale Tract protects additional land, improvements, and inhabitants west of their formal boundary line.

Problems: Veale Tract's current levee system has been rehabilitated and continues to be maintained at the FEMA Short-term Hazard Mitigation Plan minimum standards. These standards are only geometric in nature and do not specify the actual level of protection based on levee stability. The 2000 CALFED Levee Rehabilitation Study estimated that it would cost \$1.7 million to rehabilitate Veale Tract's levees to the PL-99 standards. In addition, the District levees need to have approximately three miles of waterside slope rehabilitated. It is estimated the waterside rehabilitation would cost \$2 million. Without financial assistance, the District cannot undertake this size project.

Opportunities: As stated above, the District's levees protect more acreage than is formally included within their legal boundaries. Therefore, rehabilitating their levees to the PL-99 standard is a good opportunity not only to protect the lands within Reclamation District No. 2065, but also lands, improvements, and inhabitants west of their legal boundary. The rehabilitation of the waterside slope presents an opportunity to utilize biotechnical bank stabilization techniques and enhance the local environmental values.

Project Description: The project would consist of design and construction of improvements to rehabilitate all 5.7 miles of Reclamation District No. 2065 to the PL-99 standards. Veale Tract is located on the western edge of the Sacramento San Joaquin Delta; and although suitable borrow material for this rehabilitation may not be available within its boundaries, it is certainly situated very close to areas to the west where borrow material will be available at a reasonable price. The bank stabilization portion would involve design and construction of bank stabilization consisting of a waterside vegetation berm along three miles of levee slope.

Statement of Willingness and Ability to Cost Share: Reclamation District No. 2065 has been an active participant in the Delta Levees Subventions Program for many years. In this regard, the District is comfortable with cost sharing with a governmental entity. However, the District's resources are limited and will be limited in what it can contribute.

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Scoping & Screening Information:

- In your opinion, what is the urgency for your proposed project? Is there an imminent threat to life, property, critical habitat, or other prominent resource?

Although the Veale Tract levee meets the minimum short-term standards of the Hazard Mitigation Plan, it does not meet any established level of protection. The urgency of the project consists of the fact that the 1990 census determined that four people live on Veale Tract. In addition, the eastern area of Contra Costa County would be protected, including dozens of homes.

- Would there be a change in the magnitude, frequency, or duration of flood flows in other areas of the levee system as a result of the potential project?

At this time, it is not known what level of protection the levees of Veale Tract provide. This project would determine that level and increase the level in accordance with PL-99 standards.

- What would the proposed project do to address flooding, ecosystem, water supply and quality, and other problems and needs locally and regionally?

As stated above, the project would provide additional benefits to the inhabitants and habitat located within the boundaries of Reclamation District No. 2065. In addition, it would provide protection for property improvements for inhabitants west of the current boundary. The north levee of Veale Tract, along Rock Slough provides conveyance to the Rock Slough intake operated by the Contra Costa Water District.

- Are there non-structural or other ways to address flooding, ecosystem, water supply and quality, and other problems in the potential project area; and if so, what are they?

At this time, there are no non-structural alternatives to address the increased level of protection that the levees provide.

- Who and/or what would benefit from the potential project?

The Project would benefit the lands within Veale Tract and any lands west of their boundary protected by their levees. These lands provide mostly agricultural benefits, which include

row crops. The levees protect Delta Road, which would benefit from the project, in addition to the inhabitants on the island who reside within the boundaries of Veale Tract.

- What is the likely Federal, State and local agency support?

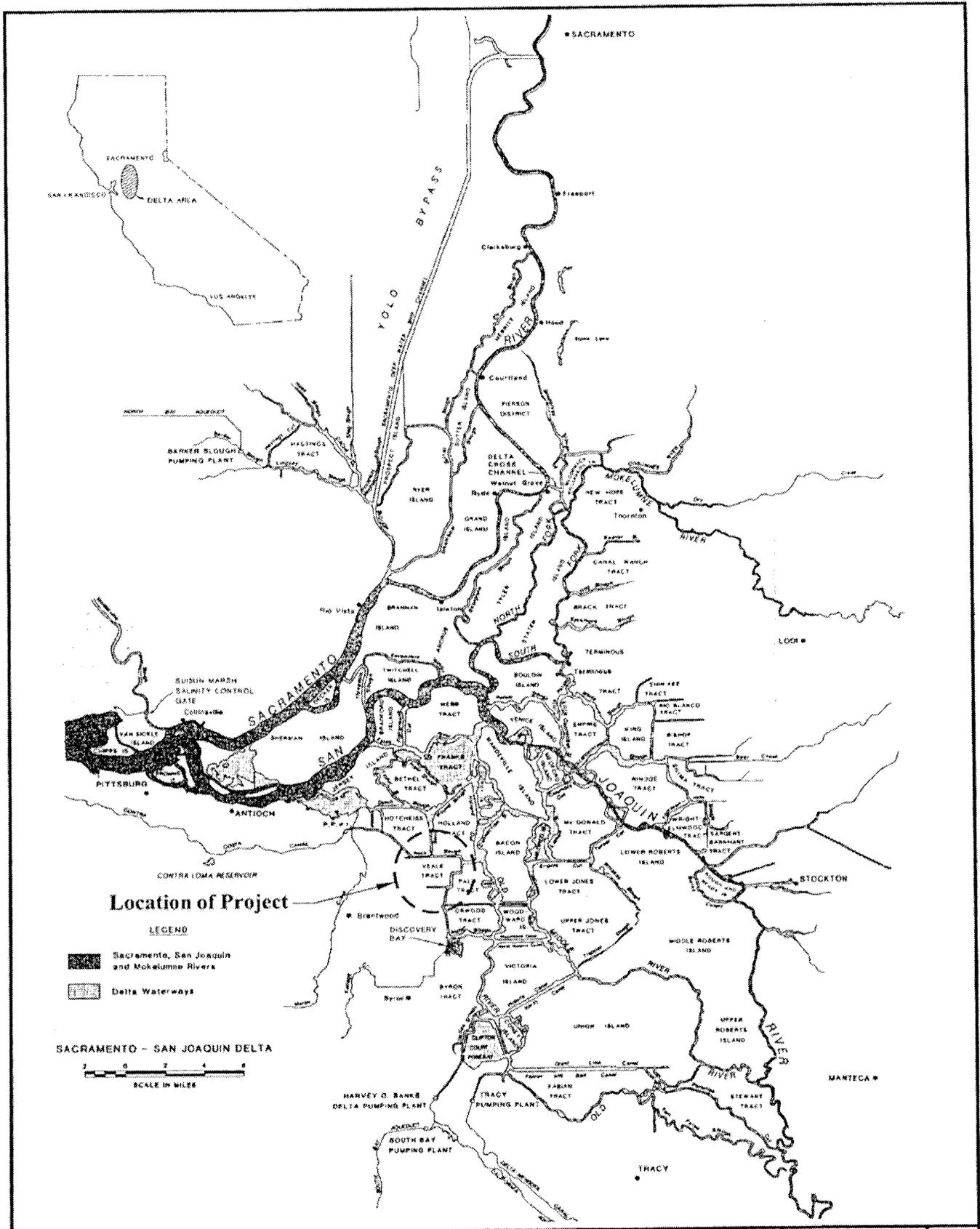
It is anticipated that State support would come from the Department of Water Resources Delta Levee Subventions Program. Local support would also come from the landowners and trustees who represent Reclamation District No. 2065, Veale Tract. The levees also provide conveyance for the Contra Costa Water District.

- Are there any known challenges or obstacles that may delay rapid development and implementation of your potential project?

At this time, there are no known challenges or obstacles that would delay rapid development and implementation of the project. At this time, it is unknown what their local cost share would be; and therefore, there may be some issues on the timing of their cost share participation.

- Is your agency ready, willing, and able to serve as a non-Federal sponsor for this potential project, and able to provide required cost-sharing and other assurances?

Reclamation District No. 2065 is willing to serve as the non-Federal sponsor for any potential projects on the island that would reduce the flood risk and protect the property and inhabitants of Veale Tract.



Location of Project

LEGEND

-  Sacramento, San Joaquin and Mokelumne Rivers
-  Delta Waterways

SACRAMENTO - SAN JOAQUIN DELTA
 0 2 4 6
 SCALE IN MILES

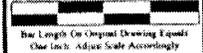


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Reclamation District No. 2065
 Veale Tract

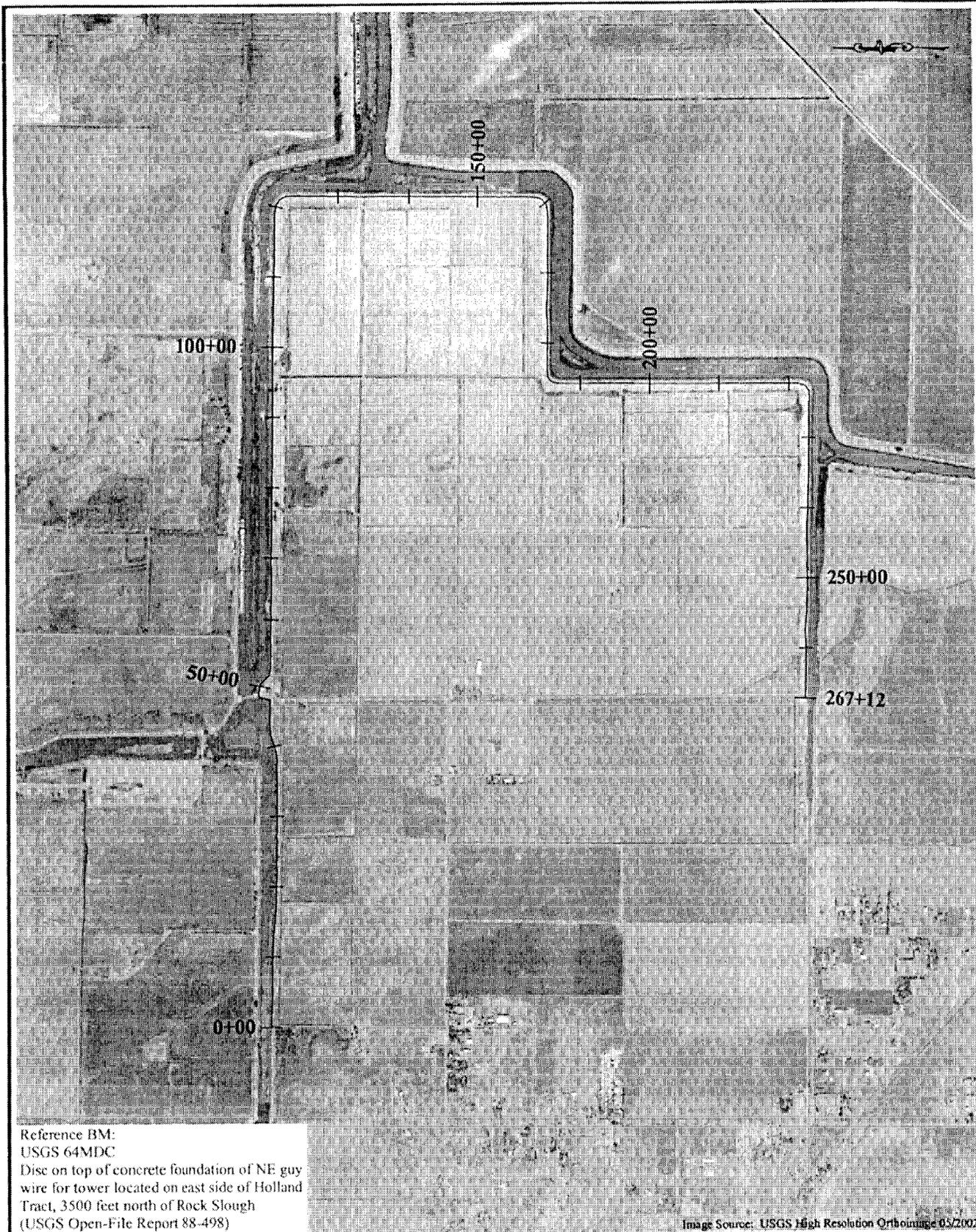
VICINITY MAP

SCALE:	1" = 1 mile
JOB NUMBER:	456-10
DRAWN BY:	TDR
DATE:	June 2007



Bar Length On Original Drawing Equals One Inch. Adjust Scale Accordingly.

SHEET
 1
 OF
 9
 SHEETS



Reference BM:
 USGS 64MDC
 Disc on top of concrete foundation of NE guy
 wire for tower located on east side of Holland
 Tract, 3500 feet north of Rock Slough
 (USGS Open-File Report 88-498)

Image Source: USGS High Resolution Orthoimage 05/2002



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Reclamation District No. 2065 - Veale Tract

DISTRICT AERIAL MAP

SCALE	1" = 200'	SHEET 1 OF 1 SHEETS
FBI NUMBER	4506.1	
DRAWN BY	SFF	
DATE	September 2005	
<small>File: J:\msh\05\050905\050905.dwg One Inch Adjust Scale Accounting</small>		