

RECLAMATION DISTRICT NO. 830

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U. S. Army Corps of Engineers
Planning Division
1325 J Street
Sacramento, California 95814

January 31, 2006

Attention: Mr. Ronald S. Ganzfried

Project Information
Jersey Island
Public Law 108-361

Dear Mr. Ganzfried:

Reclamation District 830 (District) intends to participate in projects with the U.S. Army Corps of Engineers consistent with the CALFED Bay-Delta Authorization Act (Public Law 108-361). The District has jurisdiction over the levees surrounding Jersey Island. Jersey Island is located in the west side of the Delta. A vicinity map showing the location of Jersey Island is attached. A second map showing Reclamation District 830 stationing around the levee on Jersey Island is also attached.

Jersey Island has about 16 miles of levee that protect approximately 3,500 acres of land from flooding. Most of Jersey Island is below sea level and would be permanently inundated and become tidal if a levee breached. The levee protects the land existing habitat, wildlife, high voltage electric transmission lines, a high pressure 42" PG&E natural gas main and several existing residences on Jersey Island. The levee also provides protection for the water quality within the Delta. Much of the drinking water for the State of California flows through the Delta and much of the water used by agriculture interests passes through the Delta. A failure of the levee on Jersey Island would lead to inundation of the island. Also, because of Jersey's western location in the Delta, a breach of the levee would likely pull saltwater into the Delta and mix with the freshwater. Water deliveries to the 22 million Californians and 7 million acres of farm land that depend on the Delta would then be disrupted if the saltwater were pulled further upstream into the Delta.

In short, maintaining the integrity of the levees is of great benefit for the local landowner, the habitat on the island and the water users of California.

The District submits the following projects for consideration under the CALFED program.

1. Waterside Erosion Protection

The waterside slopes need larger and more rock riprap to protect them from wind and boat/ship generated waves. The north and portions of the east and west sides of the island have large expanses of water which expose those areas to large wind generated waves. The waves can beat on the levee for many hours at a time and can ultimately lead to severe erosion and weakening of the levee. During the recent storms in the Delta (December 31, 2005 through January 2, 2006), the high water and high winds severely damaged areas of the levee riprap and began to remove portions of the levee crest. It is now apparent that the existing riprap is not sufficient to protect the levee against design level wind and wave events. The riprap needs to be improved by placing larger size riprap and providing more continuous coverage on the waterside slopes. The District plans to place ¼-ton or larger riprap in the areas with larger fetches of water and 200 pound or larger pieces on the remainder of the levee.

The District estimates that \$4,000,000 to \$5,000,000 is needed to placed the appropriate riprap on the levee.

2. Blind Point

The levee at Blind Point (Reclamation District Station 560+00) is located adjacent to the Port of Stockton Deepwater Ship Channel. The waterside slope has shown evidence of erosion. In 2002, The district placed 600 tons of riprap in the water to protect the slope. The District has been monitoring the area by periodically performed bathymetric (under water) surveys and by monitoring a slope inclinometer. The levee is at risk of further erosion and the District is concerned about the safety and reliability of this section of levee. Two potential schemes for Blind Point include (1) Placing a large quantity of riprap on the levee slope and at the levee toe to protect and better stabilize the levee and (2) Building a setback levee on the landside to protect the island should the outer levee fail.

The District has not performed detailed studies of these options. The District estimates that costs would be in the range of \$1,000,000 to \$2,000,000.

3. Levee Rehabilitation

The 16-mile levee system needs rehabilitation to improve its flood protection and reliability. The District has upgraded about 4 miles of levee and needs to upgrade the remaining 12 miles. The upgrade plans for the District have included raising the levee crest 2 feet above the 100-year flood, providing at least an 18-foot wide crest and placing a wide toe berm to buttress the landside slope. Much of the levee crest (75%) is covered with at least 6 inches of aggregate base as an all weather surfacing and the remaining 25% will be completed soon.

Based on previous on island work the District estimates that upgrades to the levee will cost about \$700,000 to \$1,000,000 per mile of levee.

Closure

The primary landowner on Jersey Island is the Ironhouse Sanitary District (ISD). The District has a good working relationship with ISD and the District can expect full support from the landowner. The District is prepared to cost share on the project. A separate letter of the District's intent to cost share is attached.

The District looks forward to participating in this program. The contacts for the District are myself and/or Dennis Nunn. We may be reached at (925) 625-2279. Should you have any questions or need further explanation please do not hesitate to call.

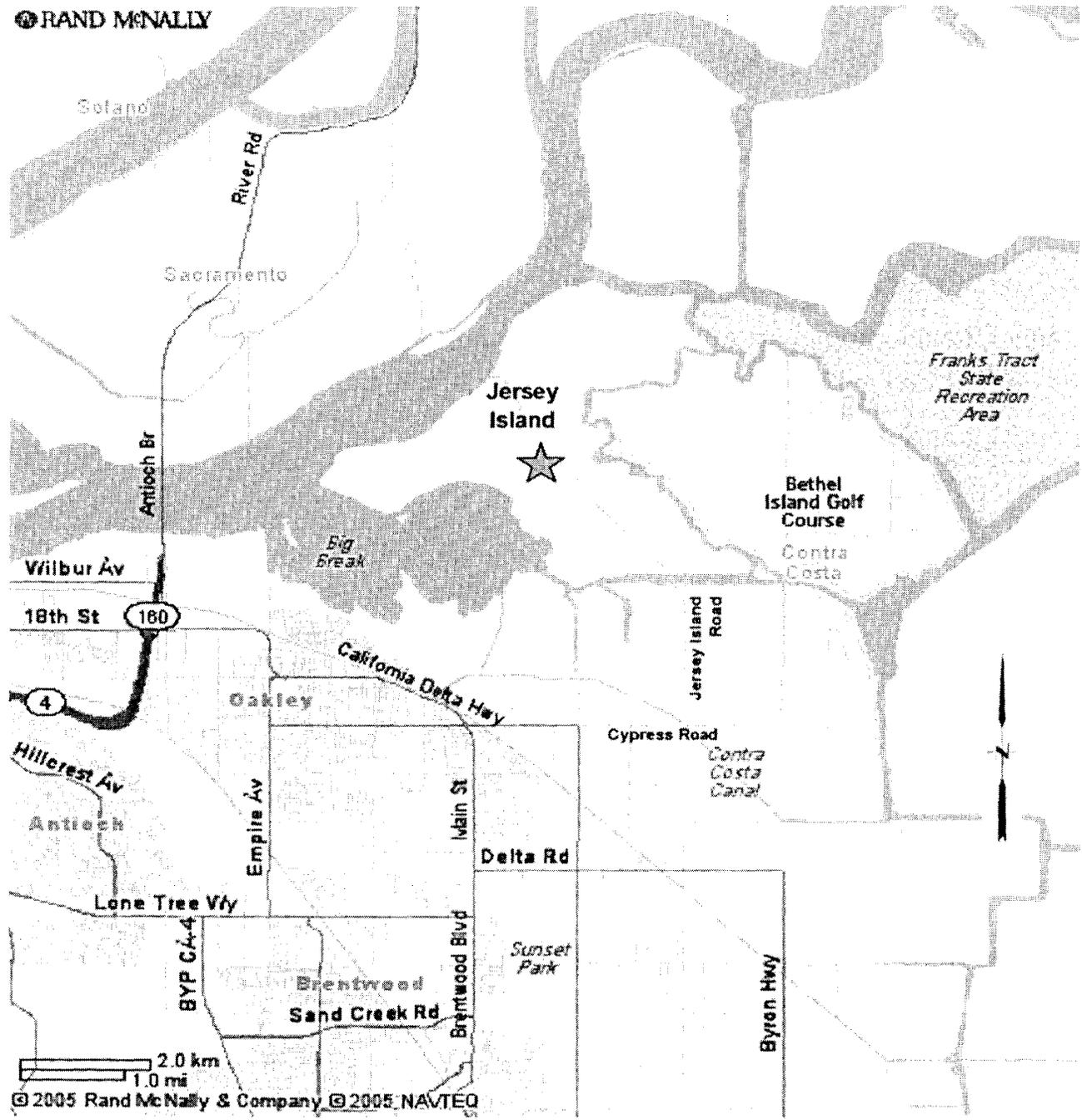
Sincerely,



Thomas Williams
President
Reclamation District No. 830

Cc: Dennis Nunn, RD 830
Marc Haefke, RD830
Lenny Byer, ISD
Kevin Tillis, Hultgren-Tillis Engineers
Nate Hershey, Milani and Associates

RAND McNALLY



Base Map: The Thomas Guide On-Line Map 2005

Not to Scale

Jersey Island
Contra Costa County, California

Vicinity Map

Hultgren - Tillis Engineers

Project No. 494.10

Plate No. 1

SHERMAN
ISLAND

400+00

300+00

200+00

JERSEY ISLAND

BETHEL ISLAND

600+00

700+00

100+00

800+00

0+00



Scale 1"=3000'

