



**US Army Corps
of Engineers**
Honolulu District



KAWAINUI MARSH FLOOD CONTROL KAILUA, ISLAND OF OAHU

Project Location. Kawainui Marsh is located in Kailua on the windward coast of the island of Oahu.

Authorization. The project was authorized under Section 205 of the Flood Control Act of 1948, as amended.

Local Sponsor. The local sponsor is the Department of Public Works, City and County of Honolulu.

Completed Work. The existing flood control project was constructed by the Corps of Engineers in August 1966. It provides for a trapezoidal channel 9,470 feet long and 80 to 110 feet wide; an earth levee totaling 6,850 feet; a stub groin 50 feet long; a shore revetment 50 feet long; a silt basin 370 feet long; and, drainage outlets.

Present Status. In January 1988 the project was overtopped due to changed conditions in the marsh and the community of Coconut Grove sustained severe flood damages. The completed project consists of a combination earth levee raise and concrete floodwall. The floodwall has a maximum height of four feet and is 6,300 feet long extending from Kailua Road on the south to the Oneawa outlet channel on the north. The levee fills 1.8 acres of wetland fringe. The plan includes mitigation for wetland fill by creation of an equivalent amount of wetland on the marsh side of the levee. A construction contract to raise the levee was awarded in September 1994 and completed in June 1997. The total project cost was \$5,918,000 (federal: \$4,143,000; non-federal: \$1,775,000).

The project was last inspected in October 2001 jointly by the staff of the City and County of Honolulu and the U.S. Army Corps of Engineers. The facility was considered in acceptable condition without any detrimental conditions, which would affect its flood control function.