



**US Army Corps
of Engineers** ®
Los Angeles District



COYOTE CREEK 2 LEVEE SYSTEM

LOS ANGELES COUNTY AND ORANGE COUNTY, CALIFORNIA

NLD ID # 3805010021

**PERIODIC INSPECTION REPORT NO 1
GENERALIZED EXECUTIVE SUMMARY
SEPTEMBER 2012**

**FINAL RATING: MINIMALLY ACCEPTABLE
FINAL RATING DATE: 19 SEPTEMBER 2012**

PERIODIC INSPECTION REPORT PREPARED BY:
U.S. ARMY CORPS OF ENGINEERS, LOS ANGELES DISTRICT

SUBMITTED: SEPTEMBER 2012
INSPECTED: 22 MARCH 2012

EXECUTIVE SUMMARY

This Executive Summary provides an introduction to the periodic inspection, an overview of the system, a summary of the major findings of the periodic inspection, and the overall rating for the system.

1.1 Scope and Purpose of Periodic Inspections

The purpose of this levee system periodic inspection is to verify proper operation and maintenance; evaluate operational adequacy and structural stability; identify features to monitor over time; and improve the ability to communicate the overall condition. This periodic inspection is intended to observe and report specific levee conditions and deficiencies in order to identify future investigative actions and recommend repairs as appropriate.

This assessment of the levee system general condition is based on observations of field conditions and available data at the time of inspection. Detailed investigation and analysis involving hydrologic design, topographic mapping, subsurface investigations, testing, and detailed computational evaluations is beyond the scope of this levee system inspection.

1.2 System Summary

The Coyote Creek channels are a unit of the Los Angeles County Drainage Area project. The Coyote Creek 2 Levee System is a section of Coyote Creek and is contained within the cities of Long Beach and Hawaiian Gardens in Los Angeles County, and cities of Cypress and Los Alamitos in Orange County, California. The levee system is a concrete-lined mainline levee and consists of the left embankment (looking downstream) of Coyote Creek for a total distance of approximately 7,789 feet (1.48 mi) between Moody Creek and Carbon Canyon Creek (see figure). The National Levee Database (NLD) leveed area covers 3.0 mi² of residential, commercial, industrial, and public improvements. This project was approved 18 August 1941 by Act of Congress, Public Law 228, Seventy-seventh Congress, first session, as set forth in House Doc. 838, 76th Congress, 3d Session. The Los Angeles County Department of Public Works performs operations and maintenance.

1.3 Summary of Significant Deficiencies Found

The Coyote Creek 2 Levee System was inspected on 22 March 2012. During the periodic inspection of the system, several deficiencies were noted for which remedial actions are required. Each item of concern observed during the site inspection was rated “Unacceptable”, “Minimally Acceptable”, or “Acceptable.” The following major deficiencies were noted during the periodic inspection of the project features:

- Levee Embankments
 - Noncompliant Vegetation Growth: Large tree with an estimated two foot diameter base within the right of way.
 - Encroachments: Encroachments within the channel right of way include a retaining wall adjacent the downstream side of the Wardlow Road Bridge.

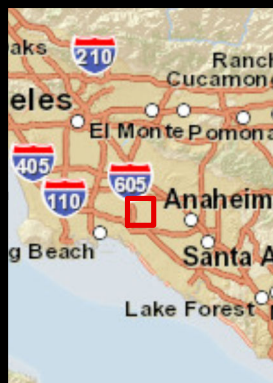
- Interior Drainage System
 - Vegetation and Obstructions: Sediment, vegetation, and debris obstructing the inlet of three interior drainage structures.
 - Culverts/ Discharge Pipes: The pipe condition has not been verified using television camera videotaping or visual inspection methods within the past five years.
- Flood Damage Reduction Channels
 - Tilting, Sliding or Settlement of Concrete Structures: Differential settlement/uplifting at the joint between the culvert headwall and the concrete side slope.

1.4 Overall Rating

The Levee Safety Out-Brief Meeting was held on 25 July 2012. An engineering determination has concluded that the observed deficiencies would not prevent the system from performing as intended during the next flood event. Therefore, the Levee Safety Officer, Los Angeles District, has determined the overall system rating to be “Minimally Acceptable (M).”

A “Minimally Acceptable” system rating is defined as: “One or more items are rated as Minimally Acceptable or one or more items are rated as Unacceptable and an engineering determination concludes that the Unacceptable items would not prevent the segment/ system from performing as intended during the next flood event.”

The local sponsor will be notified of the overall rating of the levee system by letter with instructions to correct the “Unacceptable” rated items as soon as possible, not to exceed two years, and to correct the “Minimally Acceptable” rated items so that they do not deteriorate further and become “Unacceptable.”



Legend

 Coyote Creek 2 Levee System

0 0.25 0.5 Miles

Source: National Levee Database

COYOTE CREEK 2 (CC2)
LEVEE SYSTEM

LOCATION MAP



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