



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



CUCAMONGA CREEK 5 LEVEE SYSTEM
SAN BERNARDINO AND RIVERSIDE COUNTIES,
CALIFORNIA
NLD SYSTEM ID # 3805010030

PERIODIC INSPECTION REPORT NO 1
GENERALIZED EXECUTIVE SUMMARY

FINAL SYSTEM RATING: MINIMALLY ACCEPTABLE
FINAL RATING DATE: MARCH 27, 2013

PERIODIC INSPECTION REPORT PREPARED BY TETRA TECH, INC.
FOR THE U.S. ARMY CORPS OF ENGINEERS, LOS ANGELES DISTRICT

SUBMITTED: FEBRUARY 2013
INSPECTED: APRIL 26, 2010

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 periodic inspection is to identify deficiencies that pose hazards to human life or property. The inspection is intended to identify the issues in order to facilitate future studies and associated repairs as appropriate.

This assessment of the general condition of Cucamonga Creek 5 Levee System is based on available data and visual inspections. Detailed investigation and analysis involving hydrologic design, topographic mapping, subsurface investigations, testing, and detailed computational evaluations is beyond the scope of this inspection.

1.2 System Summary

Cucamonga Creek 5 Levee System is located in the cities of Chino and Corona, in the counties of San Bernardino and Riverside respectively, in the State of California. Cucamonga Creek 5 Levee System runs along the left/east bank (looking downstream) of Cucamonga Creek, from Schleisman Road to approximately 760 feet downstream of Hellman Avenue, a total length of 6,085 feet. Cucamonga Creek 5 Levee System is part of a larger system commonly referred to as the Cucamonga Creek Channel. A location map is shown in Figure 1. The National Levee Database Number for Cucamonga Creek 5 Levee System is 3805010030. The San Bernardino County Flood Control District (SBCFCD) is the Local Sponsor for this system.

1.3 Summary of Major Deficiencies Found

Cucamonga Creek 5 Levee System was inspected on April 26, 2010. The Local Sponsor representative met with the inspection team and assisted with granting access along the length of the levee. During the inspection of Cucamonga Creek 5 Levee System, several deficiencies were noted for which remedial actions are required. The following main deficiencies were noted during the inspection of the project features:

- Levee Embankments
 - Vegetation growth (brush, tall grass, and trees with trunks greater than 2 inches in diameter) is present within the vegetation-free zone. The vegetation-free zone extends 15 feet outward from both the landward and riverward toes of the levee.
 - Depressions and rutting were encountered that were greater than 6 inches deep and could thus result in ponding.
 - Many of the subdrainage system manhole covers were missing on the channel invert near the toe of the riverward embankment. In addition, there are no maintenance records which indicate that the subdrainage system has been regularly cleaned.
- Interior Drainage System
 - A side-drain-junction structure outlet was completely filled in with sediment and vegetation.

- There are no records of the pipes having been television camera videotaped or visually inspected.
- Flood Damage Reduction Channels
 - At all the subdrain outlets the concrete was breaking and the reinforcing steel was exposed. In some locations the concrete embankment was beginning to be undermined.

1.4 Overall Rating

The Levee Safety Officer, Los Angeles District, has determined the overall system rating of Cucamonga Creek 5 Levee System to be “Minimally Acceptable.” A “Minimally Acceptable” system rating is defined as:

A Minimally Acceptable System is where 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, and to correct the “Minimally Acceptable” rated items within two years so that they do not deteriorate further and become “Unacceptable.”

CUCAMONGA CREEK 5 LEVEE SYSTEM
FINAL PERIODIC INSPECTION REPORT NO. 1

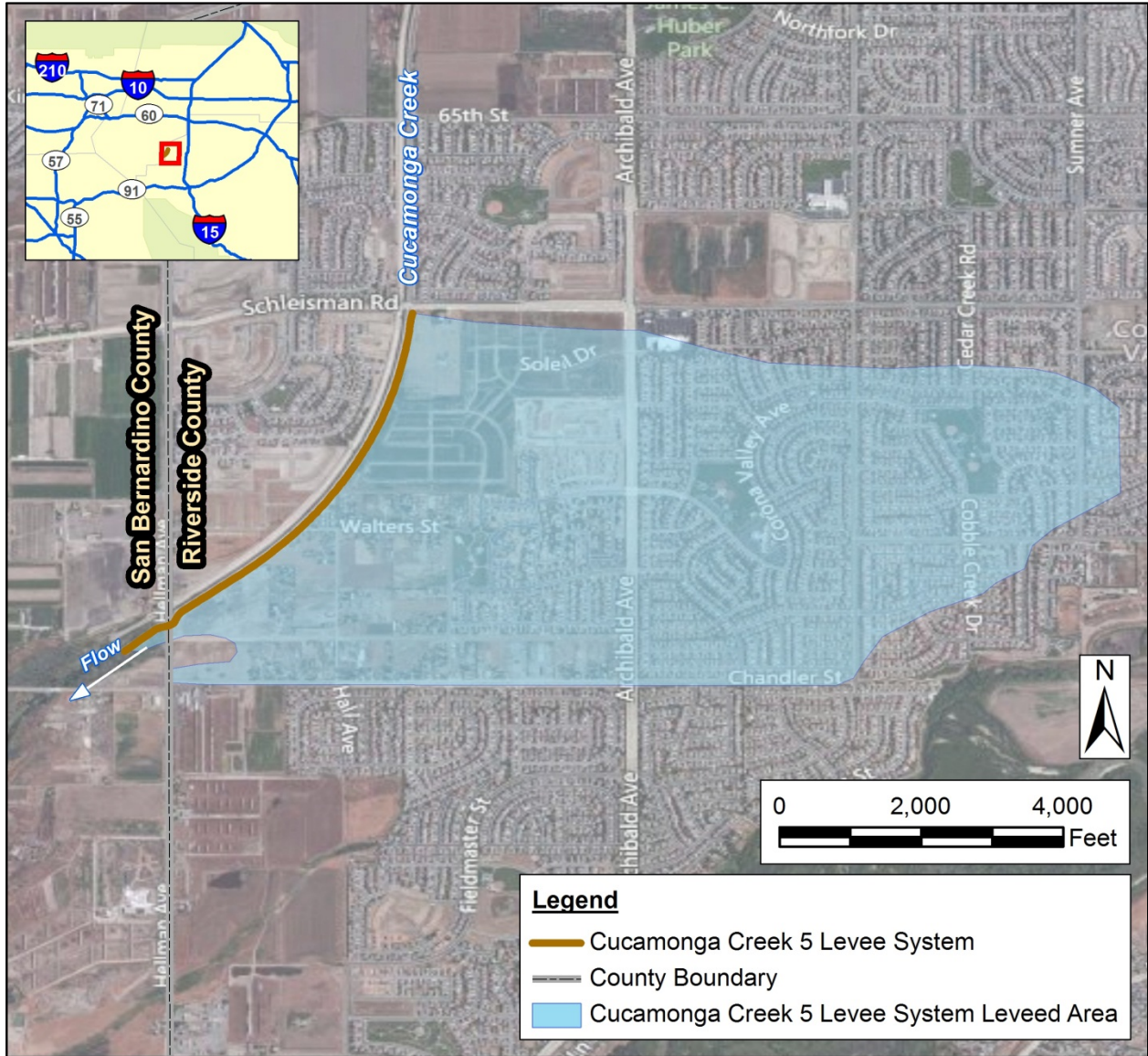


Figure 1. Cucamonga Creek 5 Levee System