US Army Corps of Engineers ®
Los Angeles District

# RIO HONDO UPPER 1 LEVEE SYSTEM

## LOS ANGELES COUNTY, CALIFORNIA
## NLD SYSTEM ID # 3805010100

## PERIODIC INSPECTION REPORT NO. 1
## GENERALIZED EXECUTIVE SUMMARY

## FINAL SYSTEM RATING: MINIMALLY ACCEPTABLE
## FINAL RATING DATE: MARCH 10, 2014

SUBMITTED: FEBRUARY 2014
INSPECTED: FEBRUARY 28, 2012

# EXECUTIVE SUMMARY

This Executive Summary provides an introduction to the periodic inspection (PI), an overview of the Rio Hondo Upper 1 Levee 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 the Rio Hondo Upper 1 (RHU1) Levee System 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 the 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 levee system inspection.

## 1.2 System Summary

The RHU1 Levee System is located in the City of Rosemead, in the County of Los Angeles, California and is part of the Los Angeles County Drainage Area project (LACDA). The National Levee Database (NLD) depicts the RHU1 Levee System along the right (west) bank of the Rio Hondo Channel beginning downstream of Rubio Wash at Station 632+34 and ending at the Whittier Narrows Dam Flood Control Basin inlet at Station 590+00, for a total distance of approximately 4,234 feet (0.80 mi). The RHU1 Levee System provides flood risk reduction to residential, commercial, industrial, and public improvements to an area encompassing 490 acres (0.77 square miles).

The RHU1 Levee System is a trapezoidal channel with concrete paved bottom and riverside slopes and a subdrainage system below the invert. The RHU1 Levee System includes a bridge crossing and side-drainage structures.

The RHU1 Levee System was federally authorized under the general comprehensive plan for flood risk management (Flood Control Act of 22 June 1936, amended as of 18 October 1938) and subsequently constructed by the United States Army Corps of Engineers (USACE) between 1954 and 1957. It is operated and maintained by the USACE, Los Angeles District Operations Branch.

## 1.3 Summary of Major Deficiencies Found

The RHU1 Levee System was inspected on 28 February 2012. During the periodic inspection of the system, several deficiencies were noted for which remedial actions are required. The following features received an “Unacceptable” rating:

- Levee Embankments
  - Non-Compliant Vegetation Growth: Significant vegetation growth is located on landside slope, levee crown, and within vegetation free zone (VFZ).
  - Encroachments: Unauthorized/ unpermitted side drainage structures have been constructed through the levee.

- Interior Drainage System
  - Culverts/ Discharge Pipes: The condition of the pipes has not been verified.

### 1.4 Overall Rating

The Levee Safety Out-Brief Meeting was held on 9 August 2012. An engineering determination has concluded that the observed deficiencies would not prevent the system from performing as intended during the next significant runoff 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 significant runoff 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."

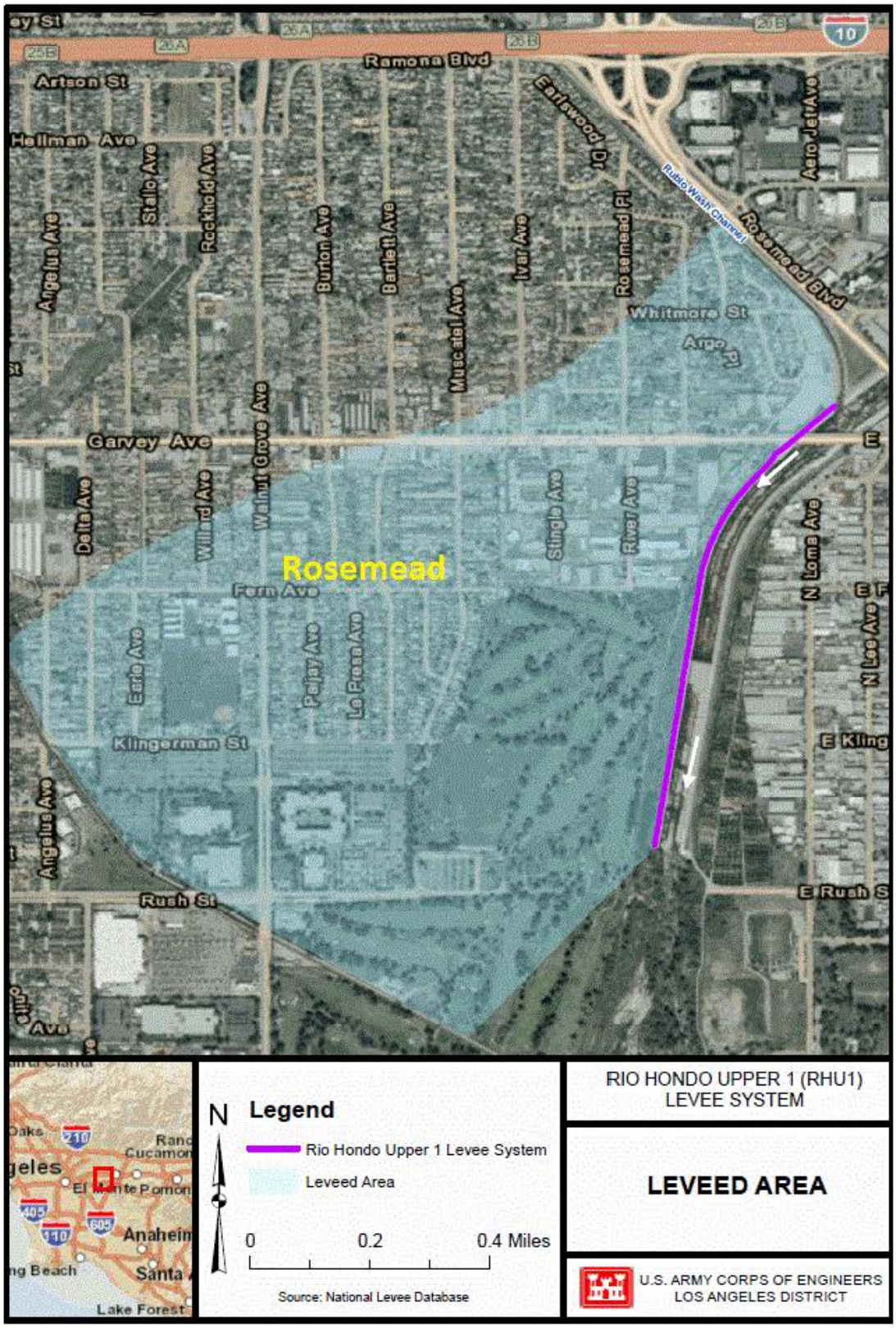


Figure 1: Rio Hondo Upper 1 Levee System