

June 13, 2011

Approved 
Christopher Stone

TO Christopher Stone

FROM Patricia Wood
Facilities Section
Water Resources Division

**LEUCADIA FIRE
BURNED AREA REPORT**

Recommendation

No further action by Public Works is necessary

Background

Fire Name Leucadia Fire
Date of Fire May 5, 2011
Burned Area 2 Acres
Location The fire occurred on a ridgeline above Leucadia Road in La Habra Heights. Refer to Attachment A (Thomas Guide Page 678–D7)

Fire History

The Hacienda Fire in 1955 was the most recent significant fire in the same area. The 1,150 acre Hacienda Fire burned area overlapped 90 percent of the Leucadia Fire burned area

Summary of Potential Sediment Impact

On May 16, 2011, Water Resources Division (WRD) staff conducted a field reconnaissance of the burned area to determine if residential properties or Public Works maintained facilities were impacted by the flooding/debris flows during the storm. The burned area, which is located in Debris Production Area Zone 6, is subdivided into five subarea watersheds. Vegetation of the watershed prior to the burn was coastal sage scrub and scattered eucalyptus trees

There are no Public Works maintained facilities that could be impacted by storm produced debris flows from the burned watershed. Three residences below the burned slopes may be impacted by mudflow debris. WRD staff met with staff of the City of La Habra Heights and offered to provide engineering advice to the residents. The City of La Habra Heights has not yet responded.

Subarea 1

Subarea 1 (3 acres) forms a small canyon. It was 25 percent burned creating an adjusted debris potential (50-year frequency rainfall) of 150 cubic yards (cy). Below the canyon is a property with a garage-type metal structure that sits at the canyon mouth. During moderate to severe storm events, loose sediments and debris material from the burned hilltops may flow down the very steep slopes to the structure.

Subareas 2, 3, and 4

Subarea 2 (1 acre) was 40 percent burned creating an adjusted debris potential (50-year frequency rainfall) of 50 cy.

Subarea 3 (0.5 acre) was 40 percent burned creating an adjusted debris potential (50-year frequency rainfall) of 25 cy.

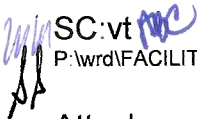
Subarea 4 (0.6 acre) was 17 percent burned creating an adjusted debris potential (50-year frequency rainfall) of 25 cy.

During moderate to severe storm events, loose sediment and debris material from the burned watershed subareas 2, 3, and 4 may flow directly from the hillsides into the low lying regions of the canyon and impact the residential property located below the burned hillsides.

Subarea 5

Subarea 5 (0.8 acre) was 13 percent burned creating an adjusted debris potential (50-year frequency rainfall) of 30 cy. During moderate to severe storm events, loose sediment and debris material from the burned area may flow down toward the rear of a residential property below the burned hillside.

If you have any questions regarding this report, please contact Hans Riedel at Extension 6300 or Mike Miranda at Extension 6164.

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