ATTACHMENT A

RANCH2 FIRE
DESCRIPTION OF BURN AND POTENTIAL SEDIMENT IMPACT

Fire Name: Ranch2 Fire
Date of Fire: August 23, 2020
Burned Area: 4,237 Acres
Location: The Angeles National Forest area north of the City of Azusa and east of San Gabriel Canyon Road (Highway 39) within unincorporated Los Angeles County. The burned area boundary is shown in Attachment B.

Vegetation Types before Burn

Dense mixed chaparral and grass.

Fire History

Public Works' fire history records indicate that three significant historical fires burned within the perimeter of the Ranch2 Fire in the past. The latest fires were the Canyon 2 Fire in 1997 where 3,618 acres burned. The Stable Fire in 1980 burned 6,520 acres and the Canyon Inn Fire in 1968 burned 18,920 acres (Attachment B).

Summary of Potential Postfire Debris Flow Impacts

The Ranch2 Fire burn area is entirely located in Debris Production Area Zone 1 and subdivided into a total of 16 subarea watersheds. Each subarea of the Ranch2 Fire is subject to debris flows as shown in the Debris Flow Phase Map. The debris production volumes noted herein are those resulting from a moderate to severe storm event.

- During moderate to severe storm events, increased debris flows within Subareas 1 and 2 are anticipated to flow from the steep canyon's slope into the riverbed of the San Gabriel River.

- During moderate to severe storm events, increased debris flows below Subareas 3 and 4 are anticipated and may directly impact a few homes on Poppyglen Court. Additional debris flows may compromise access to Poppyglen Court.

- During moderate to severe storm events, increased debris flows within Subarea 5 are anticipated and deposit on an access road adjacent to Roberts Canyon.

- During moderate to severe storm events, increased debris flows within Subarea 6 are anticipated to flow from the large tributary of Roberts Canyon toward the bridge at Wildflower Way and into the riverbed of the San Gabriel River.

- During moderate to severe storm events, increased debris flows within Subarea 7 are anticipated to overflow the small conveyance and potentially impact residential properties on the north side of Mountain Laurel Way. As a result, the City of Azusa and Natural Resources Conservation Service have proposed k-rail placement along access road loop below the Subarea 7 is a part of mitigation efforts to protect the homes mentioned on Mountain Laurel Way.

- During moderate to severe storm events, increased debris flows within Subareas 8 through 11 may overflow both debris basins and existing concrete channel below the burned areas and impact residential structures along the north side of the Mountain Laurel Way and north side of Highwood Court. As a result, k-rail placement is also proposed along the access road loop below the Subareas 8 and 9 and along the channel embankment below Subareas 10 and 11.

- During moderate to severe storm events, increased debris flows within Subareas 12 through 15 may overflow the existing concrete channel below the burned canyons. Due to potential flooding and sediment deposition during significant storm events, the access road below the Subareas 12 through 15, including the cul-de-sac areas of the Highwood, Moonridge, and Boulder Ridge Courts, may experience some debris flows. As a result, contined k-rail placement along the existing concrete channel to the San Gabriel Riverbed is recommended.

- During moderate to severe storm events, increased debris flows within Subarea 16 are anticipated to flow directly into the riverbed of the San Gabriel River.

No Public Works maintained facilities are anticipated to be impacted by storm produced debris flows.

Evacuations

Evacuations of 26 potentially impacted properties in the Mountain Cove Community are within the City of Azusa and under its purview.

Engineering Advice

Public Works reviewed and surveyed potential impacts to 26 residences below the burned canyons and hillsides of the Mountain Cove Community in the City of Azusa. Postburn mudflow engineering advice was provided to all 26 residents.