

Approved *Christopher Stone*
Christopher Stone

September 19, 2017

TO: Christopher Stone

FROM: Patricia Wood
Facilities Section *PK*

**BROOK FIRE
BURNED AREA REPORT**

The Brook Fire started on May 22, 2017, and was contained on the same day. The fire burned 12 acres within the City of Thousand Oaks in Ventura County, and potential debris flows from the burned area during storms may impact the residences located within the City of Westlake Village in the County of Los Angeles. This report focuses on potential mudflow impacts to County-owned/maintained facilities and to residences below the burned area.

Summary of Potential Sediment Impact

In May 2017, Water Resources Division (WRD) staff conducted a field reconnaissance of the burned area to determine, which residences and/or County-owned/maintained facilities are potentially impacted by flooding/debris flows during storm events.

The Brook Fire burned area is within the City of Thousand Oaks and is tributary to the City of Westlake Village. The burn area was divided into eight subarea watersheds across Debris Production Area Zone 6 (see Attachment A for the Burned Area Map). During storm events, debris flows from the burned area may impact:

- Homes located on Kirsten Lee Drive, Montview Court, and Wellbrook Drive.
- Debris basins inlets and storm drains are under the purview of and maintained by the City of Westlake Village: Montview Court Debris Basin, Kirsten Lee Drive Regulating Inlet, and the downstream storm drains connecting to Private Drain 1729 (PD 1729).
- PD1729, maintained by the County, are in close proximity and could be adversely impacted.

Detailed descriptions of potential sediment impacts are contained in Attachment B.

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Debris Flow Phase Map and Debris Flow Forecasts

The Debris Flow Phase Map for the Brook Fire is provided as Attachment C. The Phase Map (for Phases 1, 2, and 3) identifies the critical locations of potential debris flow hazards below the burned area for varying storm magnitudes. Debris Flow Phase Maps are prepared when potential debris flows pose a moderate to severe threat to residences, roadways, flood protection facilities, or other public infrastructure. WRD will prepare and post debris flow potential forecasts on Public Works' website for each forecasted significant storm event throughout the storm season for the next 4 to 5 years of burned area recovery. The approved Burned Area Report, Burned Area Map, Debris Flow Phase Map, and all future debris flow potential forecasts will be posted on the Internet at <http://www.dpw.lacounty.gov/wrd/fire>.

Outreach

On May 30, 2017, the City of Westlake Village requested Public Works provide postfire engineering advice to its residents below the burned area. WRD staff provided engineering advice to a total of nine homes in the City of Westlake Village. For those residents who were not home at the time of the visit, WRD staff left a debris flow information packet with a contact telephone number in clear view at their door. A list of residences visited for engineering advice is provided in Attachment D. WRD provided to the City and Los Angeles County Fire Department copies of the advice given to the residents.

Attachments

- Attachment A: Burned Area Map
- Attachment B: Description of Burn and Potential Debris Impacts
- Attachment C: Debris Flow Phase Map
- Attachment D: List of Residences Visited for Engineering Advice

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



MM:vt

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Attach.

cc: Disaster Services (Doudar, Eazell)
Flood Maintenance (Swanson)

BROOK FIRE DESCRIPTION OF BURN AND POTENTIAL DEBRIS IMPACTS

Fire Name: Brook Fire
 Date of Fire: May 22, 2017
 Burned Area: 12 acres
 Location: The Brook Fire occurred within the City of Thousand Oaks in Ventura County, but potential debris flows from the burned area may impact the residents of the City of Westlake Village within the boundaries of the Los Angeles County Flood Control District (District). The burned area boundary is delineated in Attachment A (Thomas Guide page 557 – A7).

Vegetation Type Before Burn

Light brush and primarily sagebrush scrub.

Fire History

Water Resources Division's fire history records indicate that there were two significant fires that previously occurred in the same area as the Brook Fire. The 1984 Westlake Fire burned approximately 228 acres and overlaps approximately 95 percent of the Brook Fire area. The 1988 Westlake Fire burned approximately 122 acres and overlaps 100 percent of the Brook Fire area.

Summary of Potential Postfire Debris Flow Impacts

The Brook Fire burned approximately 12 acres across the borderline between the City of Westlake Village and the City of Thousand Oaks. The burn area is divided into eight subarea watersheds across one Debris Production Area Zone 6 (DPA 6). Water Resources Division staff offered/provided engineering advice to all properties identified as potentially impacted by postfire debris flows in or below Subareas 1 through 8. The debris volumes noted herein are those resulting from a moderate to severe storm event.

The Montview Court Debris Basin and Kirsten Lee Drive Regulating Inlet are in the fire area vicinity. The facilities are under the purview of and maintained by the City of Westlake Village.

The following public/community facilities are potentially impacted by postfire debris flows:

Montview Court Debris Basin – The watershed of Subarea 8 drains to Montview Court Debris Basin. During moderate to severe storms, the watershed could produce an adjusted debris volume potential of 140 cubic yards. The potential debris flow impacts from the burned area are minimal because the fire burned less than 10 percent of the total watershed that is tributary to the Montview Debris Basin.

Kirsten Lee Drive Regulating Inlet – The watershed of Subarea 1 drains to the Kirsten Lee Drive Regulating Inlet (maintained by the City of Westlake Village), which outlets to Private Drain 1729, maintained by Flood Maintenance Division. During moderate to severe storms, the watershed could produce an adjusted debris volume potential of 340 cubic yards. Therefore, debris flows may plug the inlet and overflow onto private access driveway. Flood Maintenance Division has established routines to monitor and clear plugged drains as needed. The monitoring is anticipated to continue for the next four to five years until the watershed has significantly recovered from the burn.

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