

# EXHIBIT D-3

**GILPIN GEOSCIENCES, INC.**  
**Earthquake & Engineering Geology**

## MEMORANDUM

**To:** Matt Bueno, Jim Bushey, PPI Engineering, Inc.

**From:** Lou Gilpin, Gilpin Geosciences, Inc.

**Date:** July 30, 2020

**Project:** Erosion Control Plan  
V. Sattui Hibbard Ranch Vineyard,  
Henry Road  
Napa, California



**Project No.:** 91650.01

**Subject:** Landslide Investigation  
Vineyard Blocks 5 & 6C

---

This memorandum summarizes our response to the County comment regarding grading the landslide repairs outside of the proposed clearing limits for the new vineyard Blocks 5 and 6C at the V. Sattui Hibbard Ranch site.

As mapped in our report dated 23 August 2019 we show the three landslides in question extending beyond the clearing limits for the two blocks. Mitigation of the landslide deposits is accomplished by constructing an earth buttress of sufficient size to resist the driving force of the unstable landslide. In the case of the landslide 1541 in Block 5 and landslide 1351 in Block 6, the portion of the slide beyond the clearing limit is headscarp, or source area of the slope failure. This upper, steep portion is characterized by shallow slough and weathered bedrock which does not require removal and recompaction. Depending on what we encounter during excavation within the clearing limits, the final grading of the buttress can be conducted to accommodate any adverse drainage conditions that might remain.

The earth buttress construction for landslide 1121 in Block 6C will include more than enough volume of material to resist the driving force of the landslide deposits that extend beyond the clearing limits of the Block. As above, if we encounter adverse drainage conditions during final grading of the buttress we can grade the final slope to accommodate any drainage issues.

We trust this memorandum provides you with the information you require at this time. If you have any questions or need additional information regarding this memorandum, please call or email.