



September 13, 2019

Humboldt County Planning Department
Attention: Keenan Hilton, Cannabis Planner
3015 H Street
Eureka, CA 95501

Keenan,

In response to your request on May 29, 2019 regarding the connectivity of the Kamino, LLC well to surface waters, I have reviewed existing information, including well completion reports, available bedrock and surficial geologic mapping, and aerial imagery for the Kamino LLC Property (APN 201-311-016) located at 604 California State Route 36.

The well is 160 feet deep. The stratigraphy at the site is composed of alluvium underlain by sandstone and shale bedrock of the Lower Carlotta unit of the Wildcat formation at a depth of approximately 84 feet. These two geologic units are separated by a slowly permeable blue clay layer. The well is constructed with a blank casing to 100 feet and slotted screen from 100 to 160.

The well is drawing groundwater from the sandstone bedrock 84 feet or more below the surface rather than from surface water or shallow groundwater perched within the alluvium. There does not appear to be any hydraulic connection between the shallow perched water and the deeper bedrock aquifer.

The well is approximately 2,200 feet from the active meander zone of the Van Duzen River. There are no surface water bodies near the well that are interconnected to the Van Duzen River.

Considering these factors, it is unlikely that withdrawal from the well will individually affect shallow groundwater elevations in the area, stream discharge within the Van Duzen River, or other characteristics of the Eel River Valley Groundwater Basin.

Regards

Jay Stallman, PG #8911



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