

# Exhibit G



## **PJC & Associates, Inc.**

*Consulting Engineers & Geologists*

March 25, 2020

Job No. S1010.02

Glen Rice  
25 Quail Ridge Drive  
Napa, CA 94558

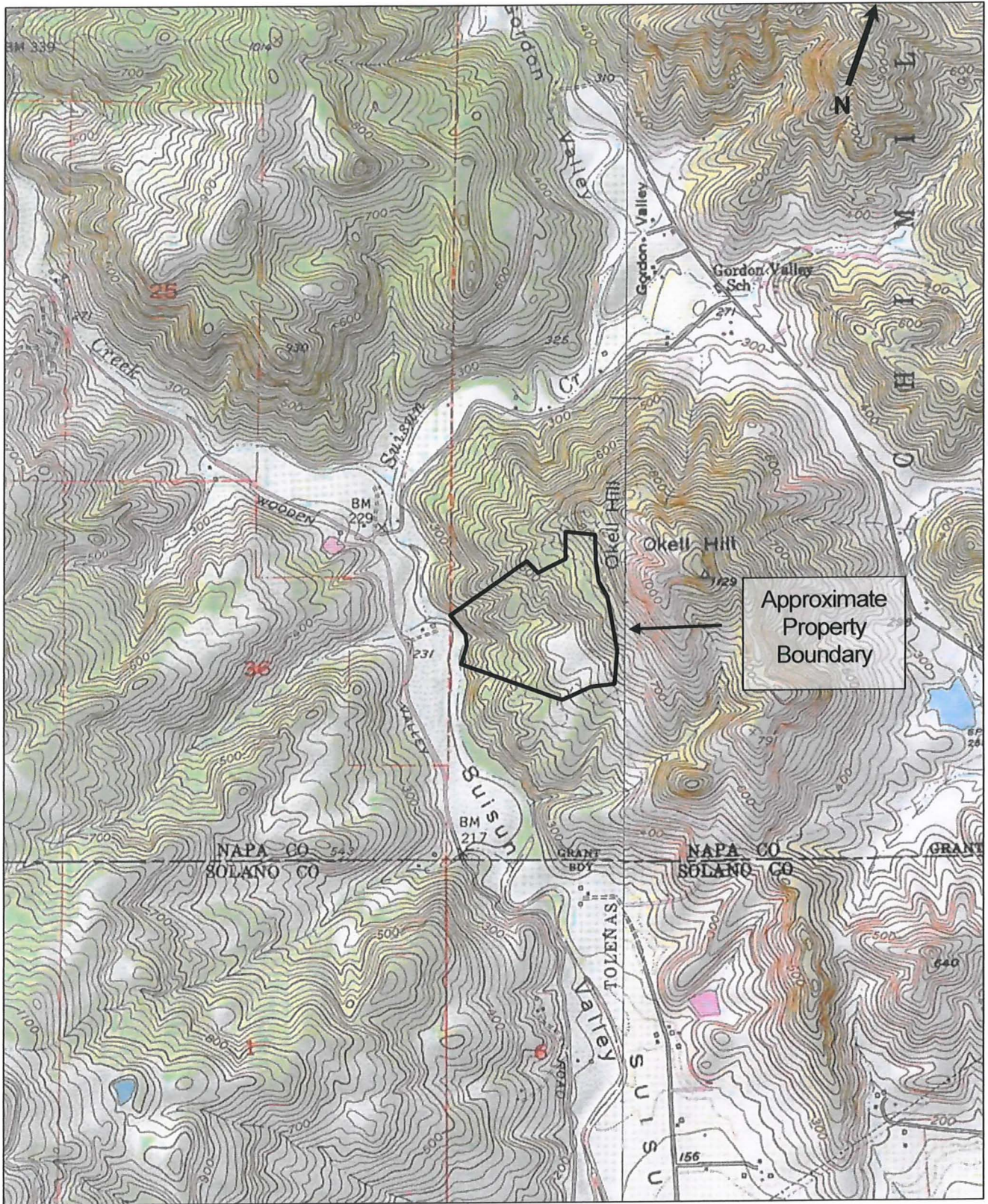
Subject:       Stability Report  
                  Proposed Vineyard Development  
                  25 Quail Ridge Drive  
                  Napa County, California

PJC & Associates, Inc. (PJC) is pleased to submit this report which presents the results of our site stability evaluation for the proposed vineyard development located at 25 Quail Ridge Drive in Napa County, California. The approximate location of the project site is shown on the Site Location Map, Plate 1. According to field GPS measurements, the approximate southern portion of the project site (Block V) corresponds to latitudinal and longitudinal coordinates of 38.3235° north and 122.1304° west. The approximate northwest portion of the project site (Block W) corresponds to latitudinal and longitudinal coordinates of 38.3263° north and 122.1318° west. The approximate southwest portion of the project site (Block X) corresponds to latitudinal and longitudinal coordinates of 38.3234° north and 122.1322° west. The approximate center portion of the project site (Block Y) corresponds to latitudinal and longitudinal coordinates of 38.3249° north and 122.1293° west. Our services were completed in accordance with our agreement for geological services dated January 23, 2020, and your authorization to proceed with the work dated January 24, 2020. The purpose of our work was to perform a geologic reconnaissance of the vineyard blocks, review the project plans and applicable geologic references, and assess if adverse slope conditions are present that could impact the stability of the project site.

### 1. PROJECT DESCRIPTION

Based on information provided by you, and our review of the preliminary Vineyard Development – Erosion Control plans prepared by Acme Engineering, dated November 4, 2019, it is our understanding that the project will consist of planting new vineyard blocks at the property. The vineyard blocks are generally spread out across the existing property, will span across approximately 4.8 acres of hillside terrain, and will be divided into four blocks (Blocks V, W, X & Y). It is our understanding that the Napa County planning department is concerned with slope stability at or near the project site. The scope of our work on the project consisted of performing a qualitative slope stability analysis to provide an opinion on the stability of the proposed vineyard site, review our previous





SCALE: 1:24,000

REFERENCE: USGS MOUNT GEORGE, CALIFORNIA QUADRANGLE, DATED 2002.  
 REFERENCE: USGS FAIRFIELD NORTH, CALIFORNIA QUADRANGLE, DATED 1980.



PJC & Associates, Inc.  
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SITE LOCATION  
 PROPOSED VINEYARD DEVELOPMENT  
 25 QUAIL RIDGE DRIVE  
 NAPA COUNTY, CALIFORNIA

PLATE  
 1

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Date: 03/20

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geotechnical work performed at the site, and review a previous geologic report for the site prepared by Balance Geo, dated March, 2015. A site plan displaying the proposed project is presented on Plate 2.

## 2. SITE CONDITIONS

The property is located in eastern Napa County, in the foothills flanking Suisun Valley. The project site is located approximately one-half mile southeast of the intersection of Wooden Valley Cross Road and Quail Ridge Drive. The property is situated on the west facing hillsides of Okell Hill.

Terrain across the project site varies from gently to steeply sloping hillsides with isolated areas of topographic and ephemeral drainage swales. The drainage swales collect run-off from the nearby slopes and ultimately discharge into Suisun Creek, which is located adjacent to the western boundary of the parcel.

At the time of our field investigation, the parcel was occupied by existing vineyard blocks and vineyard access roads, three groundwater wells, two residences, and a reservoir. The remaining portions of the site were generally undeveloped and covered in native grasses and scattered native trees. Furthermore, the proposed vineyard blocks were undeveloped and covered in native grasses (Blocks W & Y), relatively sparse oak forest woodland (Block X), and an existing unimproved earthen access road covered in perineal grasses (Block V). The proposed vineyard blocks are in generally close proximity to the other existing vineyard blocks, of which there are 17, at the property. Slope gradients within the proposed vineyard blocks are generally less than 30 percent, with only isolated areas within the vineyards blocks greater than 30 percent, but less than 50 percent. However, Vineyard Block V has a maximum estimated gradient of 27 percent.

## 3. GEOLOGIC LITERATURE REVIEW

- a. Regional Geology. The site is located in the northern California Coast Ranges Geomorphic Province. This province consists of a belt of northwest trending mountain ranges and valleys extending from the Pacific Ocean eastward to the Great Valley physiographic province. The northwest trend reflects the predominant orientation of topographic and geologic features created in response to northwest oriented faulting and folding during the past 100 million years.
- b. Local Geology. According to a geologic map of the Mount George 7.5 Quadrangle, prepared by the California Geologic Survey (CGS), the site has been mapped to be underlain by bedrock units of the Great Valley Sequence. The Great Valley Sequence has been

characterized to consist of undifferentiated marine mudstone, shale, siltstone, sandstone and conglomerate, and ultramafic rocks from the late Jurassic to early Cretaceous period. A regional geologic map is presented on Plate 3. Outcrops of highly weathered shale and sandstone were observed on the relatively steeply sloping hillsides within Block X, and along the existing roadcuts in Block V. Furthermore, we also observed bedrock in the banks of the ephemeral drainage swale, located north of Block X. A discussion of our observations during our geologic reconnaissance is provided in the following section.

#### 4. GEOLOGIC RECONNAISSANCE

On February 7, 2020, a professional geologist of PJC visited the project site to perform a geologic reconnaissance and a qualitative stability evaluation of the proposed vineyard blocks. During our site reconnaissance, we observed that all proposed development areas appear to be relatively stable with no obvious indications of active landsliding, debris flows, or severe erosion. Additionally, no obvious signs of soil creep were observed. Minor sloughing was observed in areas of overly steep cut slopes along the earthen access road to become Block V, but was not perceived to be a serious geologic concern. As typical with hillside terrain in Napa County however, slopes exceeding 15 percent can be prone to shallow soil creep.

Though no signs of active landsliding were observed in or around the proposed vineyard blocks, the overall site is located within a mapped landslide (CGS, Landslide Inventory). Based on the geologic literature, the extent of the mapped landslide generally consists of the southwestern slopes of Okell Hill. During our previous geotechnical investigation and our geologic reconnaissance, we observed surficial features, in the form of possible scarps and benches, which are indicators of past movement and episodic slumps and slides. However, based on a review of the historical aerial photos and the geologic mapping in the area, these relatively large scale landslide features appear to be remnant features from an ancient series of deep-seated mass movements, which have likely reached a stable state of quasi-equilibrium. Additionally, the report prepared by Balance Geo, titled, "Landslide Hazard, Erosion, Sedimentation, Water Balance, and Biogenic GHG Emissions Assessment, in Support of Legacy Hillside Erosion Repair, Road Repair, Vineyard Erosion, and Sediment Control Plan," dated March, 2015, presents a more in depth discussion of the historical slope stability of Okell Hill, and also concludes that the site has reached a relatively equalized stability, which would not be threatened by the conversion of the existing terrain to vineyard development.

## 5. CONCLUSIONS

Based on our field observations, and previous work performed at the site, we judge that the proposed vineyard blocks appear to be suitable for planting as planned, from a geologic standpoint. Furthermore, based on the results of our evaluation and our experience with similar projects, we judge that there is a low possibility that the planned vineyard project might trigger slope movements or local shallow instabilities, during and following vineyard planting.

The mapped Okell Hill landslide, discussed at length in the aforementioned report prepared by Balance Geo, appears to be an ancient series of deep-seated mass movements, which have likely reached a stable state of quasi-equilibrium. Therefore, we judge that the relatively small increase in vineyard development, in the form of the four proposed vineyard blocks, would not likely pose a risk of triggering a reactivation of the ancient, large-scale Okell Hill Landslide. Furthermore, it is our understanding that a typical, three feet deep rip will be performed for the planting of the vineyards. We judge this depth to be acceptable, and should not likely pose a risk of destabilizing the existing slopes.

Provided the proper erosion control parameters are installed, as set forth in the erosion control plan prepared by Acme Engineering, we judge the proposed development will have a low impact on the nearby natural drainage courses and that off-site sediment transport due to on-site soil loss should be relatively low to negligible.

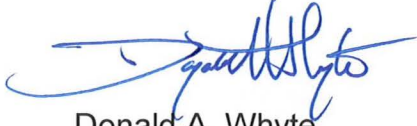
## 6. LIMITATIONS

This report has been prepared for the exclusive use of Glen Rice. Our services consist of professional opinions and conclusions developed in accordance with generally accepted geologic principles and practices. We provide no other warranty, either expressed or implied. Our conclusions are based on the information provided us regarding the proposed project, the results of our field reconnaissance, and professional judgment.

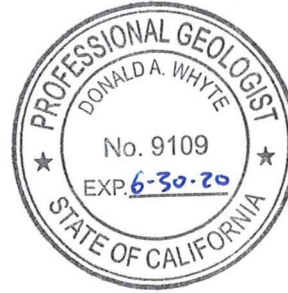
We trust that this is the information you require at this time. If you have any questions concerning the content of this report, please call.

Sincerely,

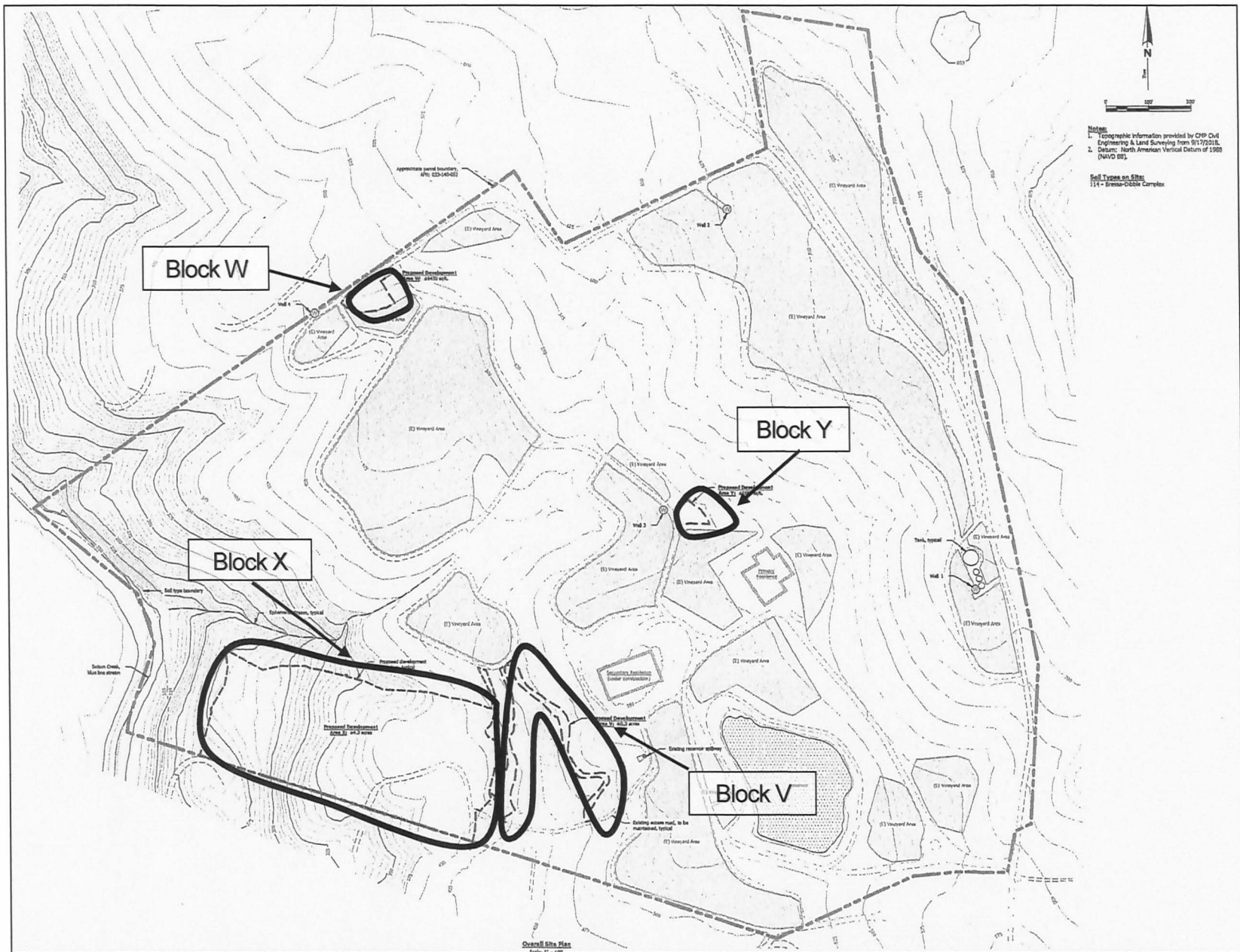
PJC & ASSOCIATES, INC.



Donald A. Whyte  
Professional Geologist  
PG 9109, California



daw:sms



REFERENCE: OVERALL SITE PLAN, PREPARED BY ACME ENGINEERING, DATED NOVEMBER 4, 2019

VINEYARD LAYOUT PLAN  
 STABILITY EVALUATION  
 25 QUAIL RIDGE DRIVE  
 NAPA COUNTY, CALIFORNIA

Proj. No:  
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 PJC

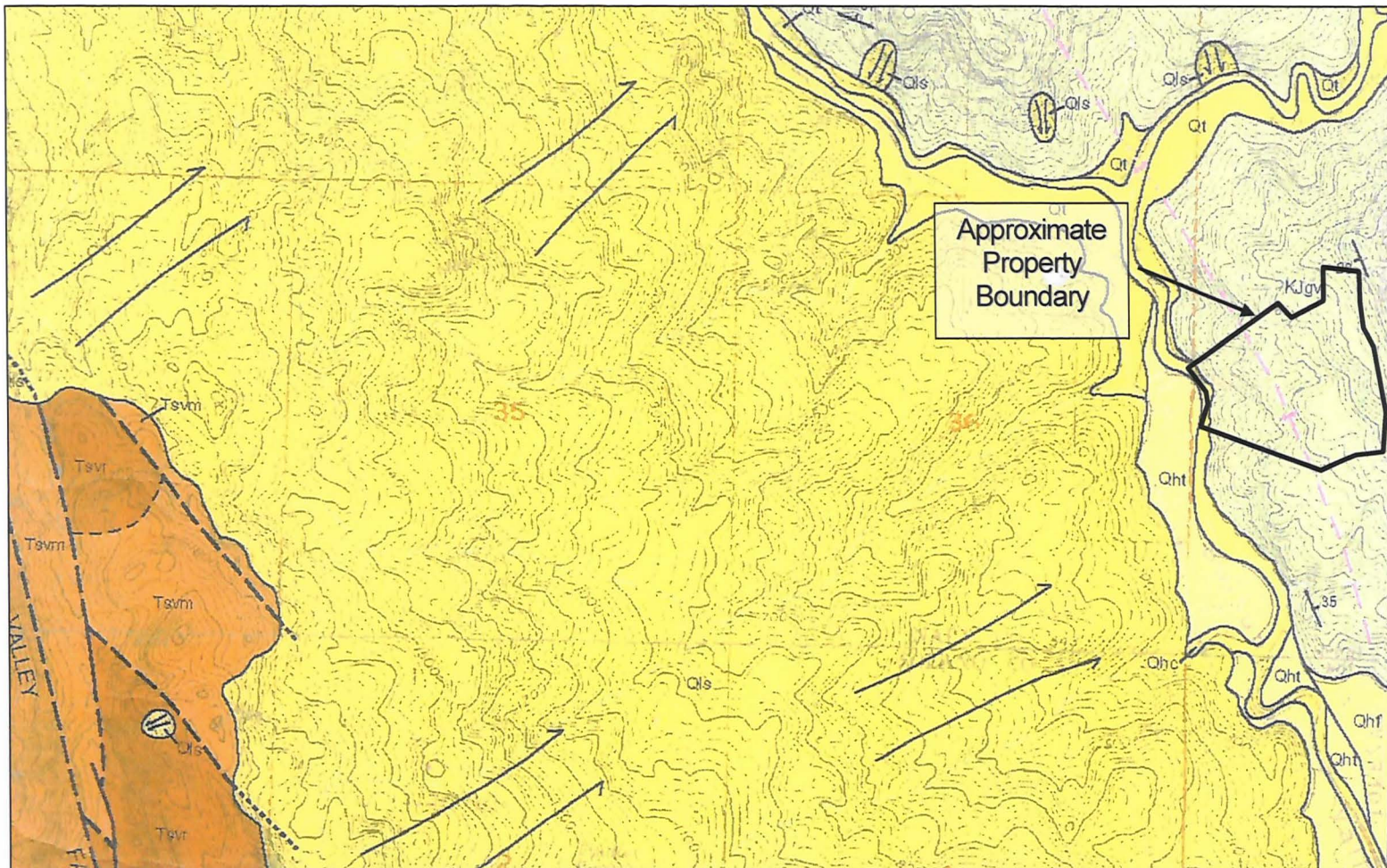


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PLATE

2





\*reference: Geologic Map of the Sonoma 7.5-Minute Quadrangle, Sonoma and Napa Counties, California, by David L. Wagner, Kevin B. Clahan, Carolyn E. Randolph-Loar, and Janet M. Snowers, 2007.

SCALE 1:24,000

### STUDY AREA EXPLANATION

- Qht- Holocene Stream Terrace deposits
- Qhf- Holocene Alluvial Fan deposits
- Qt- Pleistocene to Holocene Stream Terrace deposits
- Qls- Holocene and Pleistocene Landslide deposits
- KJgv- Early Cretaceous-Late Jurassic Great Valley Sequence

### SYMBOL EXPLANATION

- · · · · · Geologic Contact; solid—known location; dashed—approximate location; dotted—concealed
- · · · · · Fault; solid—known location; dashed—approximate location; dotted—concealed
- ↘<sup>23</sup> Strike and Dip of Bedding Plane

**GEOLOGIC MAP**  
**PROPOSED VINEYARD DEVELOPMENT**  
**25 QUAIL RIDGE DRIVE**  
**NAPA COUNTY, CALIFORNIA**

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PLATE



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## APPENDIX REFERENCES

1. USGS Mount George California Quadrangle 7.5-Minute Topographic Map, photorevised 2002.
2. Geologic Map of the Mt. George 7.5-Minute Quadrangle, Napa and Solano Counties, California, by Stephen P. Bezore, Janet M. Sowers, and Robert C. Witter, 2004.
3. Historic Aerials by NETR Online.” Nationwide Environmental Title Research, LLC, 2019, <https://www.historicaerials.com/>.
4. California Department of Conservation, Landslide Inventory, <http://maps.conservation.ca.gov/cgs/lsl/>
5. Report titled, “Design Level Geotechnical Investigation, Proposed Rice Residence, 25 Quail Ridge Drive, Napa, California,” prepared by PJC & Associates, Inc., dated January 20, 2015.
6. Report titled, “Landslide Hazard, Erosion, Sedimentation, Water Balance, and Biogenic GHG Emissions Assessment, in Support of Legacy Hillside Erosion Repair, Road Repair, Vineyard Erosion, and Sediment Control Plan: Quantum Limit Vineyards Conversion Project, #P14-00356-ECPA, Napa County, CA,” prepared by Balance Geo, dated March, 2015
7. Preliminary Vineyard Development – Erosion Control plans, Sheets 1 through 5, prepared by Acme Engineering, dated November 4, 2019.