



HOLDREGE & KULL

CONSULTING ENGINEERS • GEOLOGISTS

Rec'd at Board 2-14-12
via Bob Laurie

Item 30
10-1327

February 14, 2012
Project No.: 70281-04

Chris Beauchamp
885 Old Mill Pond Road
Los Gatos, California, 95033
Phone: 408-353-2240

Reference: Proposed Sundance Subdivision

Starling Lane and Rattlesnake Bar Road, Pilot Hills, California
El Dorado County Assessor's Parcel No. 104-520-004, 005 & 006

Subject: Responses To The February 13, 2012 Letter Prepared By Bill Bennett Of The Pilot View Drive Zone of Benefit Advisory Committee

Dear Chris

In accordance with your request, Holdrege & Kull (H&K) prepared the following responses to the February 13, 2012 letter to the Eldorado County Board of Supervisors (EDCBS) prepared by Bill Bennett of the Pilot View Drive Zone of Benefit Advisory Committee (PVDZOBAC) regarding the proposed Sundance Subdivision. We have the following comments regarding the February 13, 2012 letter to EDCBS prepared by Bill Bennett:

- Although, we were unable to locate a copy of the referenced January 3, 2011 document addressed to EDC Supervisors with attached "Analysis of Groundwater Availability and Recharge in the Sundance Project Area" that we are assuming was also prepared by Bill Bennett of the PVDZOBAC, we believe that his conclusion is incorrect, because H&K determined that the longterm average groundwater recharge was more than adequate to support the proposed Sundance Subdivision water usage. The H&K groundwater recharge analysis took into account both below average and above average rainfall years and trends from the available rainfall station records that surround the site. The available rainfall records used for the analysis consisted of over 100 years of data. Mr. Bennett's conclusions which are based on an analysis only below average rainfall (drought years) is extremely conservative and misleading. In other words, his conclusions are unsupported by the entire available rainfall records and are just as inappropriate as if H&K analyzed only above average rainfall (very wet year) records to draw trends and conclusions
- The well database information used for preparation of Figures 1, 2 and 3 were not included with letter and therefore the conclusions presented by Mr. Bennett cannot be checked for accuracy and applicability to the analyses and conclusions

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Submitted by B. Laurie
2/14/12
at Board Hearing of # 30
10-1327.4D.1

presented. Estimating the elevation of the top of each well shown in Figure 1 from available United States Geological Survey (USGS) 7.5 Minute Quadrangle topographic contour maps that have 40 foot elevation contour lines can easily have an error of ± 40 feet for any identified point of elevation on the map. This source of error is far too great to have any valued meaning for the type of hydrogeologic analysis performed and the resulting conclusions presented by Mr. Bennett. The analysis also does not take into account the effects on the data of wells located in valley relative to ridge top areas, the different geologic formations that each well was drilled into, and the amount of over drilling of each well to provide a desired storage volume in each well.

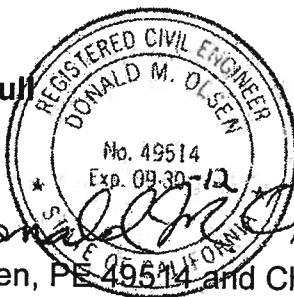
- For comparison purposes H&K evaluated the groundwater usage at the proposed Sundance Subdivision if it were planted with grapes as a commercial vineyard. Larry E. Williams of the University of California at Davis presented a paper entitled "Irrigation of Winegrapes in California," that was published in November/December 2001 edition Practical Winery & Vineyard Journal irrigation information that when applied to the proposed Sundance Subdivision property indicates that the water usage would be about 306,000 gallons per year per acre. The water usage by each 10 acre lot at the proposed Sundance Subdivision is about 24,440 gallons per year per acre. The water usage as a vineyard is about 12.5 times greater than the proposed domestic water usage by each 10 acre lot of the proposed Sundance Subdivision.
- The analytical procedures and the conclusions drawn by the Mr. Bennett do not comply with the standard-of-care required for hydrogeologic analyses performed by a professional engineer and/or geologist as defined by both the state of California Professional Engineers Act (Business and Professional Code §§ 6700-6799), and Geology And Geophysicists Act (Business and Professional Code §§ 7800-7887).

Closing Statement:

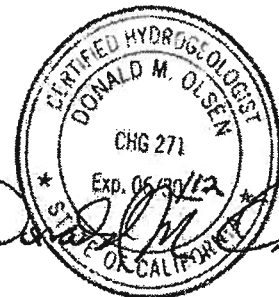
H&K appreciates this opportunity to provide hydrogeologic services for this important project. Please contact the undersigned below at 530-894-2487 if you have any questions or need additional information.

Sincerely,

Holdrege & Kull



Donald M. Olsen
Donald M. Olsen, PE 49514 and CHG 271
Principal



Donald M. Olsen

Copies To: Addressee (4 bound copies and 1 electronic copy)