

	RSA+ CONSULTING CIVIL ENGINEERS + SURVEYORS +		SERVING CALIFORNIA SINCE 1980		1515 FOURTH STREET NAPA, CALIFORNIA 94559 FAX 707 252.4966 OFFICE 707 252.3301
	HUGH LINN, PE, QSD, QSP PRINCIPAL + PRESIDENT hLinn@RSAcivil.com	RYAN GREGORY, PE PRINCIPAL + VICE PRESIDENT rGregory@RSAcivil.com	CHRISTOPHER TIBBITS, PE, LS PRINCIPAL + VICE PRESIDENT cTibbits@RSAcivil.com	RSAcivil.com	
707 252.3301 RSAcivil.com					

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 December 1, 2015

Donald Barrella
 Napa County Planning, Building, and Environmental Services
 1195 Third Street, Suite 201
 Napa, CA 94559

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APR 11 2017

Napa County Planning, Building
 & Environmental Services

RE: Anthem Winery – APN: 035-460-038-000
 Cave Spoils Placement

Dear Donald:

RSA+ has evaluated the placement of cave spoils, as proposed in the Use Permit Modification in relationship to runoff and erosion control performance standards call for in the Vineyard Erosion Control Plan, (VECP P12-00401). We examined potential changes in drainage patterns on the land, including whether the grading modifications and placement of cave spoils might accelerate runoff or lead to an increase in soil erosion.

Grading plans for the Use Permit Modification require minor modifications to the land surface. Plans were drawn with the intent that the original watershed boundary be maintained to insure that runoff discharge is not redirected. Cave spoil fill areas will result in minor changes to terrain, involving short slope lengths that will not increase the time of concentration for storm runoff to any measurable degree.

Grading Plans call for the field location to first be stripped of 2 feet of native soil cover. The cave spoils will then be keyed into the subgrade and compacted in lifts. Stockpiled native soils will be returned and placed on top of the cave spoils to the specified grade. The finished surface of the spoils will be lightly scarified prior to soil topping to prevent creation of an abrupt transition between compacted spoils and native topsoil. The returned native soil will then be lightly cat-walked to avoid compaction, so that vines and cover crops can take root.

The NRCS Napa County Soil Survey mapping indicates that native soils are 133 Fagan clay loams. These soils are clay loam and clay soil textures to the 24 inch depth that the profile will be stripped to. Given the relatively fine textures and moderate drainage characteristics of these soils, they are inherently fertile, exhibit good moisture holding capacity, and typically provide for rapid vegetative cover establishment.

The soil will be seeded with the VECP specified cover crop, fertilized, and then straw-mulched for initial erosion control. With these treatments, the modified land surface will meet the VECP Universal Soil Loss Equation cover requirements. We also expect that the County/ RCD yearly inspections will assist our Client in continuing to meet the erosion control standards and cover requirements called for in the VECP.

Please do not hesitate to contact me should you have any questions regarding the above.

Respectfully,

A handwritten signature in blue ink that reads "Phillip Blake". The signature is written in a cursive style with a large initial "P" and "B".

Phillip Blake, CPESC
Agricultural and Natural Resources Advisor

PB/sb