Napa County Department of Environmental Management

SITE EVALUATION REPORT

Please attach an 8.5" x 11" plot map showing the locations of all test pits triangulated from permanent landmarks or known property corners. The map must be drawn to scale and include a North arrow, surrounding geographic and topographic features, direction and % slope, distance to drainages, water bodies, potential areas for flooding, unstable landforms, existing or proposed roads, structures, utilities, domestic water supplies, wells, ponds, existing wastewater treatment systems and facilities.

Permit #: E08-00631

APN: 032-010-068-000

(County Use Only)
Reviewed by: Date:

PLEASE PRINT OR TYPE ALL INFORMATION

Property Owner Ed Fitts (Contact: Kelly Berryman)	☒ New Construction ☐ Addition ☐ Remodel ☐ Relocation ☐ Other:
Property Owner Mailing Address P.O. Box 513	☐ Residential - # of Bedrooms: ____ Design Flow: ____ gpd
City: Calistoga State: Ca. Zip: 94515	☒ Commercial – Type: Winery Sanitary Waste: 135 gpd Process Waste: 500 gpd
Site Address/Location 90 Long Ranch Road St. Helena, Ca 94574	☐ Other: Sanitary Waste: ____ gpd Process Waste: ____ gpd

Evaluation Conducted By:

Company Name Delta Consulting and Engineering	Evaluator's Name Andrew Simpson	Signature (Civil Engineer, R.E.H.S., Geologist, Soil Scientist)
Mailing Address: 1104 Adams Street Suite 203		Telephone Number (707) 963-8456
City: St. Helena State: Ca. Zip: 94574		Date Evaluation Conducted 11/5/08

Primary Area	Expansion Area Site evaluation E08-00672
Acceptable Soil Depth: 24 in. Test pit #'s: 1,2	Acceptable Soil Depth: 26 in. Test pit #'s: 5,6
Soil Application Rate (gal. /sq. ft. /day): 0.75	Soil Application Rate (gal. /sq. ft. /day): 0.5
System Type(s) Recommended: Geoflow	System Type(s) Recommended: Geoflow
Slope: 30 %. Distance to nearest water source: ____ ft.	Slope: 30 %. Distance to nearest water source: ____ ft.
Hydrometer test performed? No ☐ Yes ☒ (attach results)	Hydrometer test performed? No ☐ Yes ☒ (attach results)
Bulk Density test performed? No ☒ Yes ☐ (attach results)	Bulk Density test performed? No ☒ Yes ☐ (attach results)
Percolation test performed? No ☒ Yes ☐ (attach results)	Percolation test performed? No ☒ Yes ☐ (attach results)
Groundwater Monitoring Performed? No ☒ Yes ☐ (attach results)	Groundwater Monitoring Performed? No ☒ Yes ☐ (attach results)

Site constraints/Recommendations:

On 11/5/08, four pits were evaluated (pits #1-4), but due to a surveying error, two of the pits (#3 & 4) were inadvertently located on an adjoining parcel. Pits #3 & 4 are not included in this report. On 11/24/08, two additional pits were evaluated (#5 & 6) under permit No. E08-00672.
The pits shall be used for the domestic waste system disposal and reserve fields. The process waste shall be a surface drip system or a hold and haul system. A septic feasibility report for both the domestic and process waste systems shall be prepared and submitted separately.

Page____of____

Test Pit # 1

PLEASE PRINT OR TYPE ALL INFORMATION

Horizon Depth (Inches)	Boundary	%Rock	Texture	Structure	Consistence			Pores	Roots	Mottling
					Side Wall	Ped	Wet			
0-24"		<5	SCL	M/SB	SH	FRB	S	M/F-M	M/F-C	N/A
24" +	C		Refusal							

Test Pit # 2

Horizon Depth (Inches)	Boundary	%Rock	Texture	Structure	Consistence			Pores	Roots	Mottling
					Side Wall	Ped	Wet			
0-36"		<5	SCL	M/SB	SH	FRB	S	M/F-M	M/F-C	N/A
36"-48"	C		Very Hard							

Test Pit #

Horizon Depth (Inches)	Boundary	%Rock	Texture	Structure	Consistence			Pores	Roots	Mottling
					Side Wall	Ped	Wet			

Attach additional sheets as needed

H-125

Oakley Laboratory & Field Services
1645 Chapman Way • Santa Rosa , CA 95403 • Telephone 707-575-1075

November 17, 2008
Job No. 08-136.21

Delta Consulting & Engineering
1104 Adams Street, Suite 203
ST. Helena, Calif. 95574

Attention: Ms. Kristi Wagner

Re: Results of Soil Texture Analysis
By Bouyoucos Hydrometry Method

Client & Number: Lake Ridge Winery Residences, # H-125

The results of the soil texture analysis on sample received on November 12, 2008 are as follows:

Sample Location	11-5-08 #1
% Plus No. 10 (WT)	12.1
% Sand	49.0
% Clay	28.4
% Silt	22.6
Db g/cc	--

Sandy clay Loam

We are pleased to provide laboratory services for you and look forward to your continued work. If you have any questions, please call.

Oakley Laboratory and Field Services

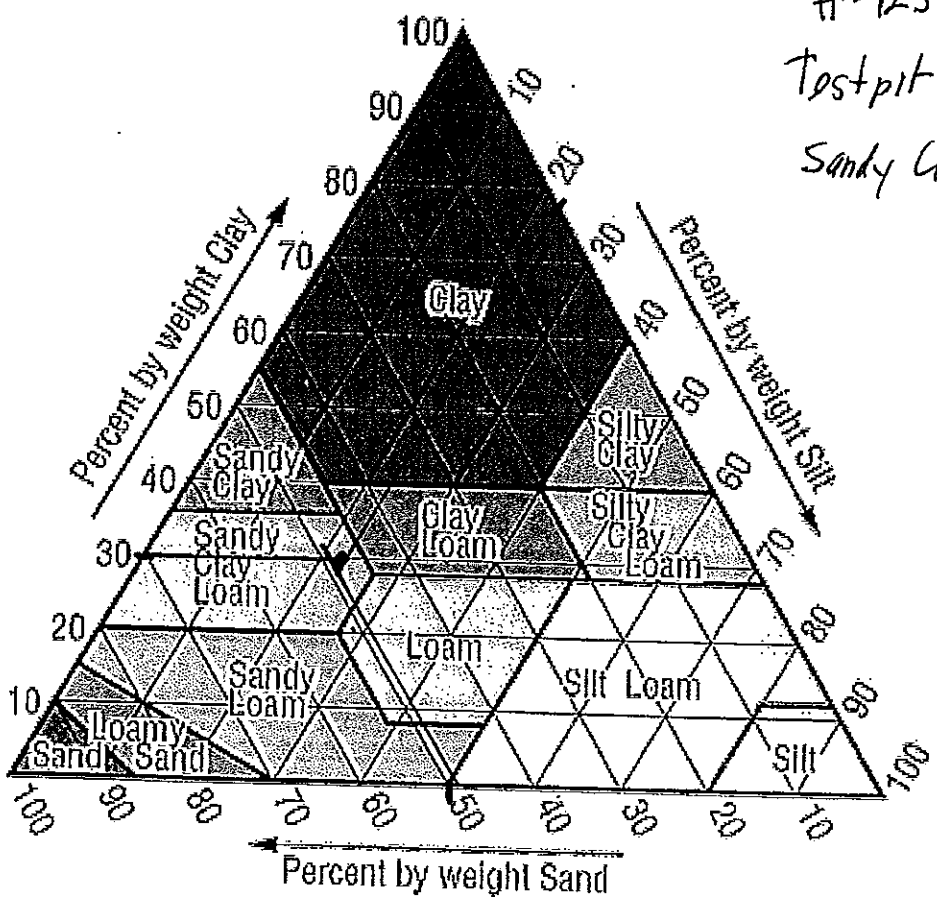
By: Wayne G. Oakley
Laboratory Director

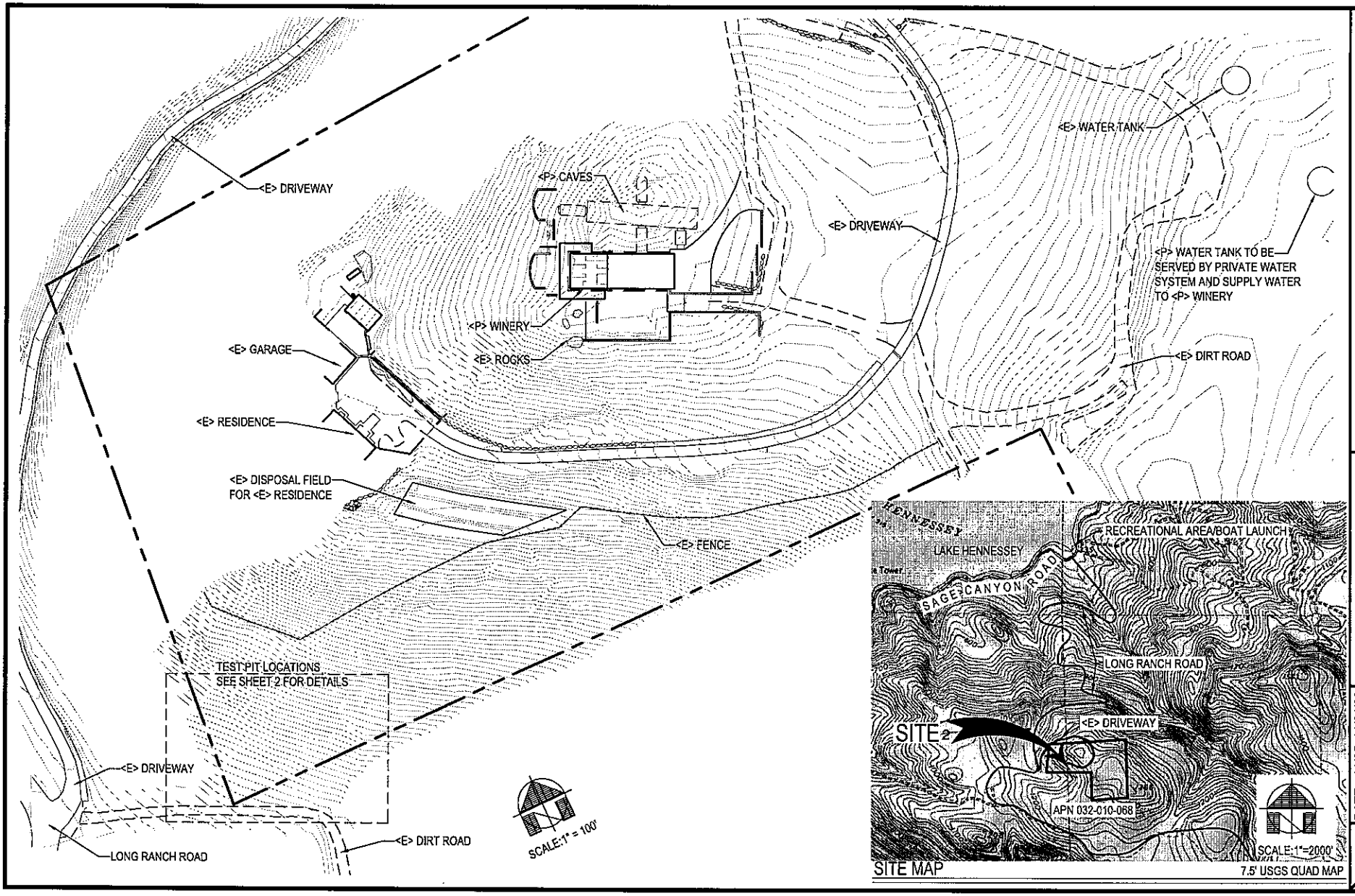
ABBREVIATIONS

Boundary	Texture	Structure	Consistence			Pores	Roots	Mottling
			Side Wall	Ped	Wet			
A=Abrupt <1" C=Clear 1"-2.5" G=Gradual 2.5"-5" D=Difuse >5"	S=Sand LS=Loamy Sand SL=Sandy Loam SCL=Sandy Clay Loam SC=Sandy Clay CL=Clay Loam L=Loam C=Clay SiC=Silty Clay SiCL=Silty Clay Loam SiL=Silt Loam Si=Silt	W=Weak M=Moderate S=Strong G=Granular Pl=Platy Pr=Prismatic C=Columnar AB=Angular Blocky SB=Subangular Blocky M=Massive SG=Single Grain C=Cemented	L=Loose S=Soft SH=Slightly Hard H=Hard VH=Very Hard ExH=Extremely Hard	L=Loose VFRB=Very Friable FRB=Friable F=Firm VF=Very Firm ExF=Extremely Firm	NS=NonSticky SS=Slightly Sticky S=Sticky VS=Very Sticky NP=NonPlastic SP=Slightly Plastic P=Plastic VP=Very Plastic	Quantity: F=Few C=Common M=Many Size: VF=Very Fine F=Fine M=Medium C=Coarse VC=Very Coarse	Quantity: F=Few C=Common M=Many Size: F=Fine M=Medium C=Coarse VC=Very Coarse ExC=Extremely Coarse	Quantity: F=Few C=Common M=Many Size: F=Fine M=Medium C=Coarse Contrast: Ft=Faint D=Distinct P=Prominent

U.S.D.A. SOIL CLASSIFICATION TRIANGLE

H-12S
Testpit #1, 11-5-08
Sandy Clay loam





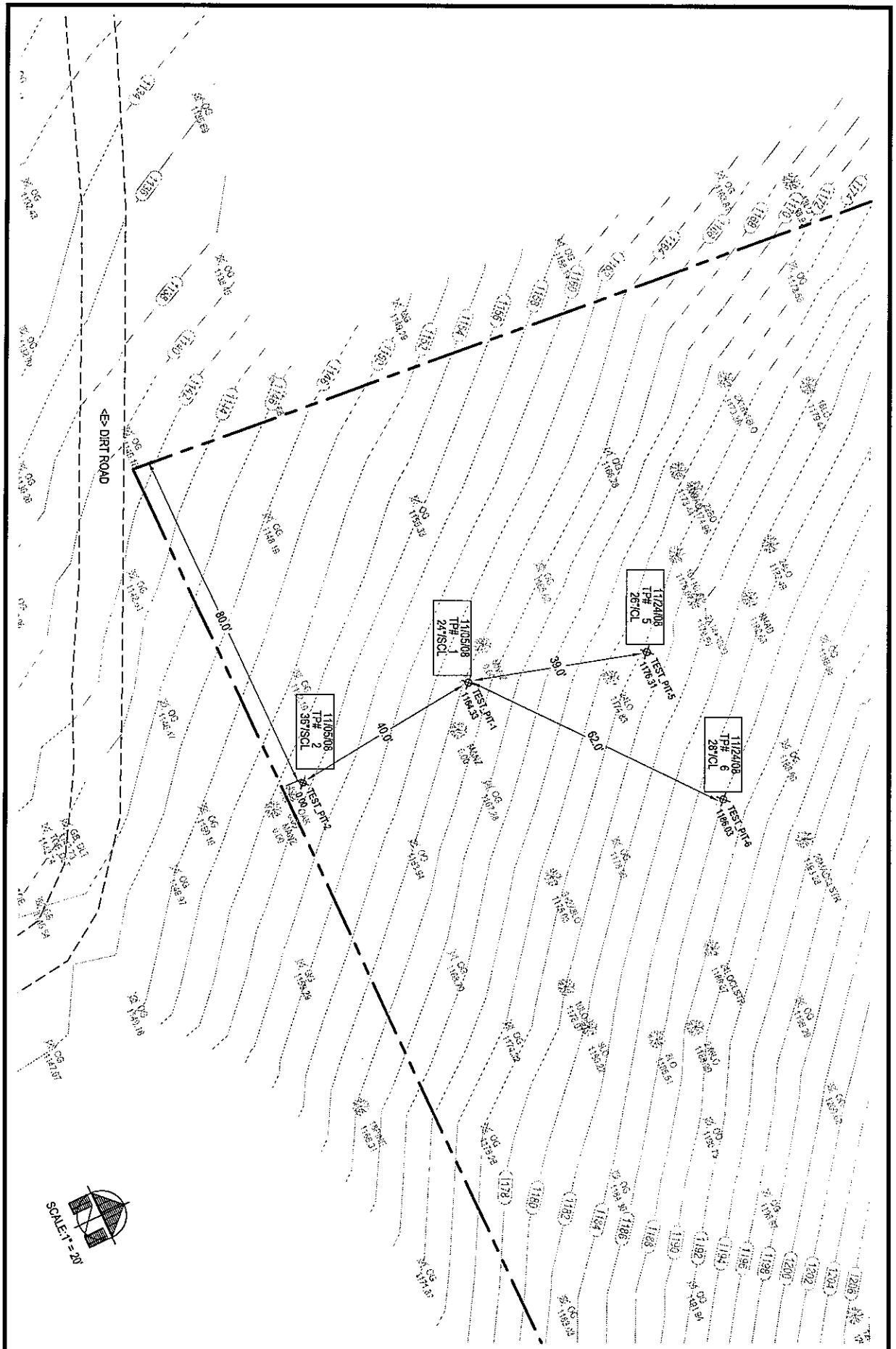
LAKE RIDGE WINERY
SITE PLAN

NAPA CALIFORNIA

DELTA CONSULTING & ENGINEERING
OF ST. HELENA
1104 ADAMS STREET, SUITE 203 - ST. HELENA, CALIFORNIA 94574
707-963-8456 + 707-963-8528 FAX

DATE: 11/05, 11/24/08
SCALE: AS NOTED
APN: 032-010-068

1 OF 2



2 OF 2	DATE: 11/05, 11/24/08 SCALE: AS NOTED APN: 032-010-068	**DELTA CONSULTING & ENGINEERING** OF ST. HELENA 1104 ADAMS STREET, SUITE 203 • ST. HELENA, CALIFORNIA 94574 707-963-8456 • 707-963-8528 FAX	LAKE RIDGE WINERY TEST PITS LOCATIONS NAPA CALIFORNIA