Checklist of Voluntary Greenhouse Gas Emission Reduction Measures

An addendum to the Entitlement Application and a supplement for Initial Studies as required by CEQA

1		PROJECT NAME	Fantesca Winery			
[[•]		PROJECT ADDRESS	2920 Spring Mountain Road, St. Helena, CA 94574			
1	1000	APPLICANT	Duane and Susan Hoff			
	FOR	CONTACT INFO	duane@fastesca.com	(707)968-9229	0	
		CONTACTINFO	dualie@tastesca.com	(707)908-922	2	
1	Have you designed to	to U.S.G.B.C.™LEED™ or Built	It Green TM standards?	yes	no X	I don't know
•		es, please include a copy of their		<u> </u>	^	
2 Do you have an integrated design team?					X	
2						
3	SITE DESIGN					
	21 7				X	
		n encourage community gathering on existing disturbed areas?	ig and is it pedestrian triendly?	X	//	
	3.3 Landscape Desi	gn				
	3.31 native p 3.32 drought	lants? tolerant plants?			X X	
		Disease resistant planting?			X	
	3.34 Fire resi	istant planting?			X	
		restoring open space and/or hab harvesting rain water on site?	itat?		X	
		large trees to act as carbon sinks	?		X	
		ermeable paving materials for dri	ve access and walking surfaces?		X	
		ing lot include bicycle parking? -site wastewater disposal?			X	
	3.6 Do you have por	st-construction stormwater on sit	e detention/filtration methods designed?	X		ļ
			ural features, such as preserving existing trees or rock outcroppings?	X		
3.8 Does the project minimize the amount of site disturbance, such as minimizing grading and/or using the existing topography in the overall site design (such as cave design)?						
			ural cooling and passive solar aspects?	X		
4	ENERCY PRODUC	CTION & EFFICIENCY				
*					77	
	4.1 Does your facility use energy produced on site? If yes, please explain the size, location, and percentage of off-set:					
		include thermal mass within the	walls and/or floors? f the building after it is built to ensure it performs as designed?		X	
		for construction include:	the outloing after it is built to ensure it performs as designed:		X	
		ensity insulation above Title 24 st			X X	
	4.42 Zones id	or heating and cooling to provide Star TM or ultra energy efficient a	for maximum efficiency?		X	
	4.44 A "cool	" (lightly colored or reflective) o	r a permeable/living roof?		X	
		time-outs installed on lights (suc	h as the bathrooms)?	X		
	n yes, p	nease explain.				
5	WATER CONSER'	VATION				
	5.1 Does your lands	scape include high-efficiency irri	gation?		Х	
	5.2 Does your lands	scape use zero potable water irrig	ation?		X	
		in the vicinity to connect to the N ty use recycled water?	apa Sanitation reclaimed water?		X	
			lling dual pipes and/or purple lines?		Х	
	5.5 Will your plans	for construction include:				
5.51 a meter to track your water usage? 5.52 ultra water efficient fixtures and appliances?						
5.53 a continuous hot water distribution method, such as an on-demand pump?					X	
	5.54 a timer	to insure that the systems are run	only at night/early morning?	X	^	
				<u> </u>		

				J		/ 1810 11	
6	MATERIAL RECYCLING						
	6.1 Are you using reclaimed materials?				X		
	If yes, what and where:						
	6.2 Are you using recycled construction materials – 6.21 finish materials?				X	T	
	6.22 aggregate/concrete road surfaces?				X		
	6.23 fly ash/slag in foundation?				X		
	6.3 Will your contractor be required to recycle and reuse construction materials as part of your contract?				X		
	6.4 Does your facility provide access to recycle –		!	X		1	
	6.41 Kitchen recycling center?			$\hat{\mathbf{x}}$		1	
	6.42 Recycling options at all trash cans?6.43 Do you compost green waste?				Х		
	6.44 Provide recycling options at special events?			Х			
7	NATURAL RESOURCES				V		
	7.1 Will you be using certified wood that is sustainably harvested in construction	ction?			X	 	
	7.2 Will you be using regional (within 500 miles) building materials?				X	 	
	7.3 Will you be using rapidly renewable materials, such as bamboo?	Commin =>0			X	 	
	7.4 Will you apply optimal value engineering (studs & rafters at 24" on center7.5 Have you considered the life-cycle of the materials you chose?	er traming)?			X		
8	INDOOR AIR QUALITY						
	8.1 Will you be using low or no emitting finish and construction materials in	doors –					
	8.11 Paint?				X		
	8.12 Adhesives and Sealants?				X		
	8.13 Flooring? 8.14 Framing systems?				X		
	8.15 Insulation?				X	ļ	
	8.2 Does the design allow for maximum ventilation?			V	X		
	8.3 Do you plan for a wood burning fireplace (US EPA Phase II certified)?			X	X	-	
	8.4 Does your design include dayling, such as skylights?			X			
				4			
9.	Are there any superior environmental/sustainable features of your project that	should be noted?		, ,			
10	What other studies or reports have you done as part of preparing this application	np?					
10	1. Phase One Water Report)U.:					
	Wastewater Feasibility Report				-		
3. Traffic Analysis							
	4.						
11	If your project involves an addition or modification to an existing building, are	you planning to improve energy	conservation of ex	isting sp	ace (such	as as	
	insulation, new windows, HVAC, etc.)? If yes, please describe:				X		
12	Once your facility is in operation, will you:						
	12.1 calculate your greenhouse gas emissions?					X	
	12.2 implement a GHG reduction plan?					X	
	12.3 have a written plan to reduce your vehicle miles traveled of your operation	ns and employee's commute?		37	<u> </u>	X	
13 Does your project provide for education of green/sustainable practices?						1	
14	If yes, please describe: Any comments, suggestions, or questions in regards to the County's efforts to	reduce greenhouse goses?					
14	Any comments, suggestions, or questions in regards to the County's efforts to	ionnoc Riccillionac Saaca (
		Form filled out by:	Donna B.	Oldfor	rd		
Plea	ise feel free to include additional sheets of paper as necessary.	1 offin finica out by			LUL		
	· · · · · · · · · · · · · · · · · · ·		Plans4Wine				

NOTE: This is an existing winery with no new construction proposed and no request for increase in production. The only addition of building area is a request for recognition for an existing outdoor crush pad that was installed by the previous owner, but appears to have not been recognized or calculated into the current winery use permit.



A Tradition of Stewardship A Commitment to Service Planning, Building & Environmental Services - Hillary Gitelman, Director 1195 Third Street, Napa, CA 94559 - (707) 253-4417 - www.countyofnapa.org

Project name & APN: APN 022-250-008

Project number if known: P13-0080

Contact person: Duane or Jusan Hoff Owners

Contact email & phone number: (チ6チ) 968-9229

Today's date: 07 -01 - 2013

Best Management Practices Checklist for Development Projects

Napa County General Plan Policy CON-65 (e) and Policy CON-67 (d) requires the consideration of Greenhouse Gas (GHG) emissions in the review of all discretionary projects and to promote and encourage "green building" design. The below Best Management Practices (BMPs) reduce GHG emissions through energy and water conservation, waste reduction, efficient transportation, and land conservation. The checklist included here should be consulted early in the project and be considered for inclusion in new development. It is not intended, and likely not possible for all projects to adhere to all of the BMPs. Rather, these BMPs provide a portfolio of options from which a project could chose the most appropriate, taking into consideration cost, co-benefits, schedule, and project specific requirements. Please check the box for all BMPs that your project proposes to include and include a separate narrative if your project has special circumstances.

Practices with Measurable GHG Reduction Potential

The following measures reduce GHG emissions and if needed can be calculated. They are placed in descending order based on the amount of emission reduction potential.

Already Plan Doing to Do

ID# BMP Name

□ **X**(

BMP-1 Generation of on-site renewable energy

If a project team designs with alternative energy in mind at the conceptual stage it can be integrated into the design. For instance, the roof can be oriented, sized, and engineered to accommodate photovoltaic (PV) panels. The applicant can easily determine the estimated electrical consumption based on the square footage, type of construction, and type of use by using the electric energy intensity calculator. A basic typical PV panel generates approximately 375 watts of electricity per square foot per hour. If you intend to do this BMP, please indicate the location of the proposed PV panels on the building elevations or the location of the ground mounted PV array on the site plan. Please indicate the total annual energy demand and the total annual kilowatt hours produced (multiply the size of the system by 1600 to get from kilowatt hours to annual kilowatt hours) and the potential percentage reduction of electrical consumption.

Futures construction will recognize energy! Owners may add salar panels in future

BMP-2 Preservation of developable open space in a conservation easement

Please indicate the amount and location of developable land (i.e.: under 30% slope and not in creek setbacks or environmentally sensitive areas for vineyards) conserved in a permanent easement to prohibit future development.

No conservation areas. Parcel is in natural habitat except for winery development area and existing vineyerds.

DRAFT 25/2013

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¥		BMP-3	Habitat restoration or new vegetation (e.g. planting of additional trees over 1/2 acre)	
			Napa County is famous for its land stewardship and preservation. Restoring areas within the creek setback reduces erosion potential while planting areas that are currently hardscape (such as doing a bio-retention swale rather than underground storm drains) reduces storm water and helps the groundwater recharge. Planting trees can also increase the annual uptake of CO2e and add the County's carbon stock. Natural areas left undisturbed. No new construction in this major mad.	
۵		BMP-4	Alternative fuel and electrical vehicles in fleet \(\) \(\	
			Type of fuel/vehicle(s) Potential annual fuel or VMT savings	
	₩.	BMP-5	Exceed Title 24 energy efficiency standards: Build to CALGREEN Tier 2 The California Building Code update effective January 1, 2011 has new mandatory green building	
			measures for all new construction and has been labeled CALGREEN. CALGREEN provides two voluntary higher levels labeled CALGREEN Tier I and CALGREEN Tier II. Each tier adds a further set of green building measures that go above and beyond the mandatory measures of the Code. In both tiers, buildings will use less energy than the current Title 24 California Energy Code. Tier I buildings achieve at least a 15% improvement and Tier 2 buildings are to achieve a 30% improvement. Both tiers require additional non-energy prerequisites, as well as a certain number of elective measures in each green building category (energy efficiency, water efficiency, resource conservation, indoor air quality and community).	
			proposed.	
	K	ВМР-6	Vehicle Miles Traveled (VMT) reduction plan Selecting this BMP states that the business operations intend to implement a VMT reduction plan reducing annual VMTs by at least 15%. Tick box(es) for what your Transportation Demand Management Plan will/does include: employee incentives employee carpool or vanpool priority parking for efficient transporation (hybrid vehicles, carpools, etc.) bike riding incentives bus transportation for large marketing events Other:	
			Estimated annual VMT	
			Potential annual VMT saved % Change	

	*	BMP-7	Exceed Title 24 energy efficiency standards: Build to CALGREEN Tier 1 See description below under BMP-5. No construction proposed.
0	Y \$1.	ВМР-8	Solar hot water heating Solar water heating systems include storage tanks and solar collectors. There are two types of solar water heating systems: active, which have circulating pumps and controls, and passive, which don't. Both of them would still require additional heating to bring them to the temperature necessary for domestic purposes. They are commonly used to heat swimming pools.
			Owners may install solar panels in future.
		ВМР-9	Energy conserving lighting Lighting is approximately 25% of typical electrical consumption. This BMP recommends installing or replacing existing light bulbs with energy-efficient compact fluorescent (CF) bulbs or Light Emitting Diode (LED) for your most-used lights. Although they cost more initially, they save money in the long run by using only 1/4 the energy of an ordinary incandescent bulb and lasting 8-12 times longer. Typical payback from the initial purchase is about 18 months. Energy - Taving light bulbs used and time?
	K	ВМР-10	Energy Star Roof/Living Roof/Cool Roof Most roofs are dark-colored. In the heat of the full sun, the surface of a black roof can reach temperatures of 158 to 194 °F. Cool roofs, on the other hand, offer both immediate and long-term benefits including reduced building heat-gain and savings of up to 15% the annual air-conditioning energy use of a single-story building. A cool roof and a green roof are different in that the green roof provides living material to act as a both heat sink and thermal mass on the roof which provides both winter warming and summer cooling. A green (living) roof also reduces storm water runoff. No New Construction Proposed.
	¥.		Bicycle Incentives Napa County Zoning Ordinance requires 1 bicycle rack per 20 parking spaces (§18.110.040). Incentives that go beyond this requirement can include on-site lockers for employees, showers, and for visitor's items such as directional signs and information on biking in Napa. Be creative! Frature plans although location and site
			Bicycle route improvements Refer to the Napa County Bicycle Plan (NCPTA, December 2011) and note on the site plan the nearest bike routes. Please note proximity, access, and connection to existing and proposed bike lanes (Class I: Completely separated right-of-way; Class II: Striped bike lane; Class III: Signed Bike Routes). Indicate bike accessibility to project and any proposed improvements as part of the project on the site plan or describe below.

X L	BMP-13	Connection to recycled water
		Recycled water has been further treated and disinfected to provide a non-potable (non-drinking
		water) water supply. Using recycled water for irrigation in place of potable or groundwater helps
		conserve water resources.
		Winery partially treats and re-uses
		water for irrigation surposes.
) ' '
K	BMP-14	Install Water Efficient fixtures
-		WaterSense, a partnership program by the U.S. Environmental Protection Agency administers the
		review of products and services that have earned the WaterSense label. Products have been
		certified to be at least 20 percent more efficient without sacrificing performance. By checking this
		box you intend to install water efficient fixtures or fixtures that conserve water by 20%.
		Water faucets and showerhead are water
		conserving as are toilets.
		3'
K	BMP-15	Low-impact development (LID)
		LID is an approach to land development (or re-development) that works with nature to manage
		storm water as close to its source as possible. LID employs principles such as preserving and
		recreating natural landscape features, minimizing effective imperviousness to create functional
		and appealing site drainage that treat storm water as a resource rather than a waste product.
		There are many practices that have been used to adhere to these principles such as bioretention
		facilities, rain gardens, vegetated rooftops, rain barrels, and permeable pavements. By
		implementing LID principles and practices, water can be managed in a way that reduces the
		impact of built areas and promotes the natural movement of water within an ecosystem or
		watershed. Please indicate on the site or landscape plan how your project is designed in this
		See civil Engineering Dlans. Winery
		development area compact and well-drained.
K	BMP-16	Water efficient landscape
		If your project is a residential development proposing in excess of 5,000 sq. ft. or a commercial
		development proposing in excess of 2,500 sq. ft. The project will be required to comply with the
		Water Efficient Landscape Ordinance (WELO).
		Please check the box if you will be complying with WELO or If your project is smaller than the
		minimum requirement and you are still proposing drought tolerant, zeroscape, native plantings,
		zoned irrigation or other water efficient landscape.
		Other than winery development area + vineyard:
		site is left in natural landscape.
X	BMP-17	Recycle 75% of all waste
		Did you know that the County of Napa will provide recycling collectors for the interior of your
		business at no additional charge? With single stream recycling it is really easy and convenient to
		meet this goal. To qualify for this BMP, your business will have to be aggressive, proactive and
		purchase with this goal in mind.
		Winery recyles.

X.	BMP-18 Compost 75% food and garden material The Napa County food composting program is for any business large or small that generates food scraps and compostable, including restaurants, hotels, wineries, assisted living facilities, grocery stores, schools, manufacturers, cafeterias, coffee shops, etc. All food scraps (including meat & dairy) as well as solled paper and other compostable - see http://www.naparecycling.com/foodcomposting for more details. Winery reuses Pamele.
K	BMP-19 Implement a sustainable purchasing and shipping programs Environmentally Preferable Purchasing (EPP) or Sustainable Purchasing refers to the procurement of products and services that have a reduced effect on human health and the environment when compared with competing products or services that serve the same purpose. By selecting this BMP, you agree to have an EPP on file for your employees to abide by. Recycling of materials suitable for same
K	BMP-20 Planting of shade trees within 40 feet of the south side of the building elevation Well-placed trees can help keep your building cool in summer. If you choose a deciduous tree after the leaves drop in autumn, sunlight will warm your building through south and west-facing windows during the colder months. Well-designed landscaping can reduce cooling costs by 20%. Trees deliver more than energy and cost savings; they are important carbon sinks. Select varieties that require minimal care and water, and can withstand local weather extremes. Fruit or nut trees that produce in your area are great choices, providing you with local food as well as shade. Please use the site or landscape plan to indicate where trees are proposed and which species you are using. May Mature shade trees are dead protected.
	BMP-21 Electrical Vehicle Charging Station(s) As plug-in hybrid electric vehicles (EV) and battery electric vehicle ownership is expanding, there is a growing need for widely distributed accessible charging stations. Please indicate on the site plan where the station will be. No electric cars of charging stations for same at this time.
	BMP-22 Public Transit Accessibility Refer to http://www.ridethevine.com/vine and indicate on the site plan the closest bus stop/route. Please indicate if the site is accessed by transit or by a local shuttle. Provide an explanation of any incentives for visitors and employees to use public transit. Incentives can include bus passes, informational hand outs, construction of a bus shelter, transportation from bus stop, etc. A publication of a bus shelter, transportation from bus stop, etc. A publication of a bus shelter, transportation from bus stop, etc.

			Site Design that is oriented and designed to optimize conditions for natural heating, cooling, and day lighting of interior spaces, and to maximize winter sun exposure; such as a cave.				
			The amount of energy a cave saves is dependent on the type of soil, the microclimate, and the user's request for temperature control. Inherently a cave or a building burned into the ground				
					ent temperature and it reduces the amount of		
			= :		ncept, a building that is oriented to have southern		
					summer cooling with an east-west cross breeze will		
					re without using energy. Please check this box if		
					e design that takes into consideration the natural		
			topography and sitting. Be prepared to explain your approach and estimated energy savings.				
			Wine cons	s used -	for all barrel storage		
			3.00				
K.		BMP-24	Limit the amount of gra	ading and tree ren	noval		
			Limiting the amount of ea	orth disturbance red	uces the amount of CO2 released from the soil and		
			mechanical equipment. The	his BMP is for a proj	ect design that either proposes a project within an		
					nt that follows the natural contours of the land, and		
			that doesn't require subst	antial grading or tre	e removal.		
			No earthu	orivan	spased except for		
			rediannent	- of sher	Hogment of access	. `	
			road, right	next to	newlentry gate (proposed	7)	
		BMP-25		signed and built so	that it could qualify for LEPD?		
			BMP-26 (a)		LEED™ Silver (check box BMP-26 and this one)		
			BMP-26 (b)		LEED™ Gold (check box BMP-26, BMP-26 (a), and this box)		
	<u>^</u>		BMP-26 (c)		LEED™ Platinum (check all 4 boxes)		
NI	A.		BMP-26 (c)		LEED™ Platinum (check all 4 boxes)		
M	A		BMP-26 (c)	easured GH	LEED™ Platinum (check all 4 boxes) IG Reduction Potential		
<u> </u>	A		BMP-26 (c) Ces with Un-Mo Are you, or do you inte	easured GH	LEED™ Platinum (check all 4 boxes) IG Reduction Potential ertified Green Business/Winery?		
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K_	BMP-29	Local food production There are many intrinsic benefits of locally grown food, for instance reducing the transportation emissions, employing full time farm workers, and improving local access to fresh fruits and
		Owners grow grapes and produce on-site.
K.	BMP-30	Education to staff and visitors on sustainable practices This BMP can be performed in many ways. One way is to simply put up signs reminding employees to do simple things such as keeping the thermostat at a consistent temperature or turning the lights off after you leave a room. If the project proposes alternative energy or sustainable winegrowing, this BMP could include explaining those business practices to staff and visitors. The place of existing winess.
Ø.	BMP-31	Use 70-80% cover crop Cover crops reduce erosion and the amount of tilling which is required, which releases carbon into the environment.
K I	BMP-32	Retain biomass removed via pruning and thinning by chipping the material and reusing it rather than burning on-site By selecting this BMP, you agree not to burn the material pruned on site.
0	BMP-33	Are you participating in any of the above BMPS at a 'Parent' or outside location? No. All donc on-site.
		Comments and Suggestions on this form? Form is more relevant to a new winery of one where new construction is taking place. This use permit mod is exclusively for amending the vinery use permit (winery Marketing Plan) and improvements to existing parking area realignment of road approach to vocally proposed winery entry gate.

Sources:

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