

Planning, Building & Environmental Services - Hillary Gitelman, Director 1195 Third Street, Napa, CA 94559 - (707) 253-4417 - www.countyofnapa.org

			Project name & APN: Swan Vincyards 26-180-040	
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-	91,	2004	Contact person: Randy Dunn 707-965-3642	
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<b>Best</b>	Ma	nager	nent Practices Checklist for Development Projects	
emissio Best Ma efficien be cons	ns in ti anager It trans sidered BMPs. <del>I</del>	he review nent Prac portation I for inclu Rather, th	l'an Policy CON-65 (e) and Policy CON-67 (d) requires the consideration of Greenhouse Gas (GHG) of all discretionary projects and to promote and encourage "green building" design. The below ctices (BMPs) reduce GHG emissions through energy and water conservation, waste reduction, n, and land conservation. The checklist included here should be consulted early in the project and sion in new development. It is not intended, and likely not possible for all projects to adhere to all nese BMPs provide a portfolio of options from which a project could chose the most appropriate, on cost, co-benefits, schedule, and project specific requirements. Please check the box for all BMPs	
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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.

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ם י	8 <b>MP-3</b>	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.				
	вмр-4	Alternative fuel and electrical vehicles in fleet  The magnitude of GHG reductions achieved through implementation of this measure varies depending on the analysis year, equipment, and fuel type replaced.  Number of total vehicles  Typical annual fuel consumption or VMT  Number of alternative fuel vehicles  Type of fuel/vehicle(s)  Potential annual fuel or VMT savings				
0	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).				
	BMP-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				

		See description below under BMP-5.
	BMP-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.
¥	BMP-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 incondescent bulb and lasting 8-12 times longer. Typical payback from the initial purchase is about 18 months.
G.	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.
	BMP-11	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 lackers for employees, showers, and for visitor's items such as directional signs and information on biking in Napa. Be creative!
0	BMP-12	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.
		BMP-10  BMP-11

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0	72	8MP-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.
-	<b>*</b>	8MP-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%.
			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
	×	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.
友	٥	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.

	0	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 soiled paper and other compostable - see http://www.naparecycling.com/foodcomposting for more details.
0	Ø.	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.
		8MP-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.
0	٥	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.
0		8MP-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.

<b>№</b> BMP-23			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 saves energy because the ground is a consistent temperature and it reduces the amount of heating and cooling required. On the same concept, a building that is oriented to have southern exposure for winter warmth and shading for summer cooling with an east-west cross breeze will naturally heat, cool, and ventilate the structure without using energy. Please check this box if your design includes a cave or exceptional site design that takes into consideration the natural topography and sitting. Be prepared to explain your approach and estimated energy savings.			
a	Ø	BMP-24	mechanical equip <b>m</b> ei	of earth disturband nt. This BMP is for c ea proposing develo	e reduces the amount of CO2 released from the soll and project design that either proposes a project within an pment that follows the natural contours of the land, and	
0	0	BMP-25	Will this project be BMP-26 (a) BMP-26 (b) BMP-26 (c)	e designed and bu	ift so that it could qualify for LEED?  LEED™ Silver (check box BMP-26 and this one)  LEED™ Gold (check box BMP-26, BMP-26 (a), and this box)  LEED™ Platinum (check all 4 boxes)	
	F	ractio	es with Un-	Measured	GHG Reduction Potential	
					e a Certified Green Business/Winery?	
	_		As part of the Bay Art free, voluntary progr going above and bey	ea Green Business i am that allows bus ond business as ust information check o	Program, the Napa County Green Business Program is a inesses to demonstrate the care for the environment by all and implementing environmentally friendly business at the Napa County Green Business and Winery Program	
	0	ВМР-27	Napa Green is a volu- vintners and growers quality of the region,	ntary, comprehens s develop farm-spec or create production	e a Certified "Napa Green"?  ve, "best practices" program for vineyards. Napa Valley  ific plans tailored to protect and enhance the ecological  on facility programs that reduce energy and water use,  easure either you are certified or you are in the process	
٥	X	BMP-28		iterials in the marke	t that are made from recycled content. By ticking this sumer products in your construction and your o <u>ngoing</u>	

		BMP-29	<b>Local food production</b> 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 vegetables.
0		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.
<del>-</del>	板	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.
×	₩		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.
		BMP-33	Are you participating in any of the above BMPS at a 'Parent' or outside location?
			Comments and Suggestions on this form?
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## Sources:

- 1. Napa County Bicycle Plan, NCTPA, December 2011
- 2. California Air Pallution Control Officers Associate (CAPCOA). January 2008. CEQA and Climate Change
- 3. Napa County General Plan, June 2008.
- 4. California Office of the Attorney General. 2010. Addressing Climate Change at at the Project Level available at http://ag.ca.gove/global worming/pdf/GW\_mitigation\_measures.pdf
- 5. U.S. Green Building Council (2009). LEED 2009 for New Construction and Major Renovations Rating System. Washington, DC: United States Green Building Council, Inc.
- California Energy Commission (2008). Title 24, Part 6, of the California Code of Regulations: California's Energy Efficiency Standards for Residential and Nanresidential Buildings. Sacramento, CA: California Energy Commission.
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- 9. Compact Fluorescent Light Bulbs". Energy Star. Retrieved 2013-05-01.
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