Project Greenhouse Gas Emissions and Reductions Summary

The Napa County Climate Action Plan requires that staff calculate the GHG emissions of all discretionary projects in the year 2020 assuming "business as usual" (BAU) conditions, and that applicants reduce those emissions by 38%. The required 38% reduction in GHG emissions can be achieved through a combination of state level policies and programs, County level policies and programs, on-site project level actions and contributions to a GHG reduction incentive fund. This sheet contains results of calculations completed to demonstrate that the project has achieved the required 38% reduction target in 2020.

Target Build-Out Year: 2020

Tamber Bey Vineyards

F. ADDITIONAL GHG REDUCTION OR MITIGATION REQUIRED

Balance of reductions needed to reach target (C-G)

Project Name:

40,000 ()		C 050 C 1: 1-
	action building, 688 s.f tasting	
and driveways; 4 FTE, 20	0 t&t/day, installation of a 33 l	kw solar system, one
electrical charging station	on.	
		(MT CO2e)
A. PROJECT'S BAU EMISSIONS IN 2020		262
	Energy	22
	Mobile	3
	Water & Wastewater	
	Solid Waste	
	Land use Change	
		ACCESSED TO THE COMPANY OF THE COMPA
B. PROJECT'S TARGET EMISSIONS REDUCT	IONS IN 2020	10
Target Emissions - 38% BAU Emissions	.0.13 2023	Service Control of the Control of th
rurget Emissions - 36% BAO Emissions		
C. GHG REDUCTIONS FROM STATE LEVEL P	DOCDAMS	1
GHG REDUCTIONS PROMISTATE LEVEL P		
	Energy	
	Mobile	TOD
	Other	TBD
	Land Use Change	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
D. GHG REDUCTIONS FROM LOCAL PROGR	AMS AND	1
PROJECT LEVEL ACTIONS	Energy	
	Mobile	
	Other	
otal Stock at 100 years (Reference): 0.00	Land Use Change	
. TOTAL GHG REDUCTIONS IDENTIFIED		2
State + Local + Project (D + E); Compar	re to Box C above	

73

PROJECT NAME



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

Tamber Bey Winery

PROJECT ADD			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PROJECT ADDRESS	ss 1251 Tubbs Lane, Calistoga CA 94515				
Riechers Spence & Assoc/Bruce Fe						e Fenton			
		tion of Stewar mitment to Se		CONTACT INFO	bfenton@rsacivil.o	co m (707)25	52-3301		
	n voni		. 1100		email	phone			
						ves no	I don't know		
1	Have y	you designe		B.C.™ LEED™ or Build It C		X	I GOIL KNOW		
2	De	chesse = 1		ase include a copy of their re	equired spreadsheets.	- I			
2	no Aor	u nave an ir	ntegrated de if yes, plea			L X L			
			, ss, pies						
2	CITE	DESIGN							
3	SITE E		design enc	ourage community gathering	g and is it pedestrian friendly?	X			
		-	_	cisting disturbed areas?	Comment of the commen	X			
	3.3	Landscape	e Design						
		3.31	native plan			e & Assoc/Bruce Fenton il.co m (707)252-3301 phone yes no I don't know X 7 X grading existing trees or rock outcroppings? X grading and/or using the existing X ar aspects? X ensure it performs as designed? X A A A A A A A A A A A A			
		3.32	_	erant plants?					
		3.33		ease resistant planting?					
		3.34		ant planting?	- Chatiday				
		3.35		storing open space and/or h		Assoc/Bruce o m (707)252- phone yes no X X X X X Ingand/or using the exis X Interpretation of the performs as design X X X X X X X X X X X X X			
		3.36 3.37	-	ervesting rain water on site? rge trees to act as carbon si					
		3.38		-	drive access and walking surfac	es?			
	3.4		• .	include bicycle parking?					
	3.5			vaste water disposal?					
	3.6	Do have p	ost-construc	ction stormwater on site det	tention/filration methods designe				
	3.7	Have you	designed in	harmony with existing natu	ral features, such as preserving	existing trees or rock	outcroppings?		
						X			
	3.8					ading and/or using the	existing		
	3.9			rall site design (such as cav	ve design)? itural cooling and passive solar a	Ispacte?			
	3.9	is the Stru	owie uesign	iou to take auvantage of ha	and passive solar a	X			
						and the same of the same of			
4				EFFICIENCY			NE PARTE SHIPE		
	4.1			energy produced on site?	entage of off-eat	X			
				the size, location, and perceron roof mounted solar pa					
	4.2			de thermal mass within the		X			
						sure it performs as des	igned?		
	4.4			nstruction include:	abandari 6				
		4.41	-	ity insulation above Title 24		X	_		
		4.42 4.43		heating and cooling to prov ar™ or_ultra energy efficier	ride for maximum efficiency?	X			
		4.43		ar ···· or uitra energy emicier ightly colored or reflective)					
		4.45		ne-outs installed on lights (s		X			
			ase explain:						
	1414	-D 00:10-	DVATIO						
5		ER CONSE	Colored to Act of Colored	include high-efficiency irrig	ation?		T ~		
	5.1 5.2	•		use zero potable water imig		→	 ^ 		
	5.2			,	pation? apa Sanitation reclaimed water?				
	5.4		-	recycled water?	,				
		5.41	•	•	stalling dual pipes and/or purple t				
	5.5	Will your	plans for co	nstruction include:					
		5.51		track your water usage?					
		5.52		r efficient fixtures and appli					
		5.53	a continuo	ous not water distribution me	ethod, such as an on-demand pu	umpy			
		5.54	a timer to	insure that the evetere are	run only at night/early morning?	, -	X		
		J. 04	waller to						

	MATE	RIAL RECYCLING	yes	no	I don't know
		Are you using reclaimed materials?		Y	ACITE SERVICE
	0.1	If yes, what and where:			<u>+ </u>
	6.2	Are you using recycled construction materials-			
		6.21 finish materials?		X	
		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	f your contr	act?	
	6.4	Does your facility provide access to recycle-	Χ		
	0.4	6.41 Kitchen recycling center?	V		
		6.42 Recycling options at all trash cans?	-		_
		6.43 Do you compost green waste?	Ŷ		
		6.44 Provide recycling options at special events?	Ŷ		
- EII	NIATIE	24) BESOURCES	mes lummin		
		RAL RESOURCES Will you be using certified wood that is sustainably harvested in construction?	Х		
		Will you be using regional (within 500 miles) building materials?		Х	
	7.3	Will you be using rapidly renewable materials, such as bamboo?		X	
	7.4	Will you apply optimal value engineering (studs & rafters at 24" on center framing)?	Χ		
	7.5	Have you considered the life-cycle of the materials you chose?	Χ		
THE REAL PROPERTY.	MDOC	D AID OUALITY			0.00
MN		PR AIR QUALITY Will you be using low or no emitting finish and construction materials indoors-	St. Stephen		
	J. 1	8.11 Paint?	Y I		
		8.12 Adhesives and Sealants?	- 		
		8.13 Flooring?	Ŷ		
		8.14 Framing systems?	Ŷ		1
		8.15 Insulation?	X	*****	
	8.2	Does the design allow for maximum ventilation?			
	8.3	Do you plan for a wood burning fireplace (US EPA Phase II certified)?		Х	
	8.4	Does your design include dayling, such as skylights?	Χ		
	TDANIC	SPORTATION DEMAND MANAGMENTMENT			
		After your project is complete, will you offer your employees incentives to carpool, bi	ke oruseti	ransit?	
	•	, and your project to complete, this you allow your employees incontained to complete, as	X	Gride.	
	9.2	After your project is complete, will you allow your employees to telecommute or have	alternative	work sch	edules?
			X		
	9.3	Does your project include design features that encourage alternatives modes of trans	sportation, s	uch as	
		preferred parking for carpooling, ridesharing, electric vehicles?	Χ		
		secured bicycle parking, safe bicycle access?	X		
		loading zones for buses/large taxi services?			
	9.4	How close is your facility to public transportation? 1 mile			
,	Are the	ere any superior environmental/sustainable features of your project that should be not	ad?		
	A C uic	ere any superior environmentalisassamable readures or your project that should be not	eu r		
	\A/hat e	other studies or reports have you done as part of preparing this application?			
'	vviiai (1			
		2			
		3			
		4			
2	If your	project involves an addition or modification to an existing building, are you planning to	o improve e	eneray cor	servation of
	•	g space (such as insulation, new windows, HVAC, etc.)?	- IIIIpioro	X	
		please describe:			
3	Once y	our facility is in operation, will you:			
		13.1 calculate your greenhouse gas emissions?		X	ļ
		13.2 implement a GHG reduction plan?		LX.	1
		13.3 have a written plan to reduce your vehicle miles traveled of your operation	ns and em	ployee's co	ommute?
			L		X
1	Does v	our project provide for education of green/sustainable practices?	X		
		please describe:			
5	Any co	omments, suggestions, or questions in regards to the County's efforts to reduce green	house gase	s?	
		Form filed out by:			

Please feel free to include additional sheets of paper as necessary.

Data Requition of Operational Characteristics for Residential, Commercial, or Industrial Projects

The Napa County Climate Action Plan requires that staff calculate the GHG emissions of all discretionary projects assuming "business as usual" (BAU), and that applicants reduce those emissions by 38%. This checklist identifies the data needed to complete the required calculations and allows applicants to select the emissions reduction measures they wish to use. Applicants may retain consultants to prepare their own calculations if desired. Default calculations will be based on the URBEMIS and Bay Area Air Quality Management District's BGM model, as well as standard factors for vegetation removal and retention/replacement.

Contact Information:

Name of project: Tamber Bey Vineyards

Project address & APN: 017-160-010

Project contact name: Jeff Redding

Project contact e/mail: jreddingaicp@comcast.net

Project contact phone: (707) 255-7375

Part A: Business As Usual (BAU)

1. Input for new construction or operations (or change in land use type)

Land Use Type	# of units	Footage Fo	Square	M RESIDENCE OF THE PARTY OF THE	Total Daily Vehicle Trips		Population	
				Mon-Fri	Sat & Sun	# of visitors	# of employees	
Dwelling unit		Salar Sign						
Warehouse								
Wine Production			18101	9	8		1	
Tasting Room			688	12	14	20	2	
Retail								
Office								
Other (please explain): Converted from existing use		18789						
	Total		18789	21	22	20	3	

Refer to Table 3-1 of the BAAAQMD CEQA Guildinelines (2011) for other precurser screening levels

2. Site Development

	Acres removed	Acres planted
Vegetation type		
Coniferous Forest	0	
Oak Woodland	0	
Riparian Woodland	0	
Shrub	0	
Vineyard	0	
Other (See note 1)	0	35,000
Already Developed area (i.e. asphalt)	0	
Total acres of land	0	

New Site Improvements	Amount	Unit
Caves	0	Square feet
Grading	0	Square feet
Roads	3,530	Square feet
Parking	0	Square feet
Hardscape (anything paved)	2,720	Square feet
Landscape	35,000	Square feet
Total square footage of site improvements	6,250	
Size of new or expanded wastewater lagoons	0	Square feet
Amount of new or increased use of groundwater	141,000	Gallons per year

Selected plantings areas established to receive recycled water - See RSA water balance

art B: Emission Reduction Measure

		amount	unit	yes	no
peratio	ons	- 11 - 22/0/6			
1	If the project is a winery is your existing winery a Napa Certified Green Winery?				
2	If you are a new winery, have you applied to be a Napa Certified Green Winery?				X
3	Do you intend to recycle more than what the local landfill provides, if so what percentage of reduction. Explain: On site composting of organic nutrients		15%	х	
obile \	/ehicle Trips				
4	Does the facility have alternative fuel vehicles in fleet, such as electrical vehicles or alternative				X
	If yes, what percentage of fleet? Does your project have bicycle access and		%		
5	parking?			X	
6	Does the employer have a employee transportation demand management plan with		%		X
7	Does the employer sponsor a van/pool shuttle for visitors? If yes, what percentage of visitation will		%		X
8	Is the project requesting a parking reduction, if yes what percentage?		%		X
1	Does the parking lot provide a charging station for electrical vehicles? If yes, how many?				X
nergy l	Jse and Generation				
2	Has the facility already installed renewable energy on-site since 2005?				X
	If yes, how much?	1	KW hrs.		
3	Does the proposal include installation of renewable energy on-site?			X	
	If yes, how much?		33 KW (2	2,000 sf solar	oanels)
uilding	and Construction	- 14-4-0-1-W-1-W-1-W-1-W-1-W-1-W-1-W-1-W-1-W-1			.0.000
4	Do you intend to build to Cal Green* Tier 2 standards?			TBD	

				COMPANY OF THE PARTY	
	Do you intend to build to Cal Green* Tier 3 standards?				х
5					
	Do you have areas such as a cave, or natural				
6	cooling, passive solar that will exceed 2005 Title			THE REST	X
	24 standards? Explain:			A STATE OF THE PARTY OF THE PAR	CHARE EN
	If so, how many square feet?		Sq. Ft.		
	What is the percent reduction of 2005		TELEF STEWN		
	Title 24 standards for that portion?		%		
7	If the project is a winery, does it propose any				
	If so, ho many annual kilowat hours saved?			THE STATE OF THE S	
			KW hrs.		
te Dev	elopment				
8	Does the project intend to restore degraded	hal Walley			X
J	habitat?		OI DESCRIPTION		^
	If so, how many acres?		acres	1861 ·	The Party of the P
	Does the landscape plan include the planting of		STORY TO SERVICE	A. S. S.	The state of
9	more than 6 shade trees within 40 feet of the				X
	southside or 60 feet of the westside?	0.00		N. S. C. S. C.	
	If so, how many trees?		trees		
	Will the project replace more than a 2:1 ratio of	TYS TO SEE			NE ITAM
10	trees on site, and if so how many additional?		troop		X
			trees		
	What specie?		ST PARTY NAMED IN		
ater &	Wastewater				
11	Does the project connect to a munipical water				X
	source?			E Note State	^
12	Will the project rely on an onsite well?			X	THE WAY
13	How many gallons of water per day is dedicated				
13	to domestic water use?	450	g/day		
14	How many gallons of water per day is dedicated	200	1	ALICEY AND A	
	to landscape? Will the project connect to municipal sanitary	800	g/day		
15					X
-	sewer system?				
16	Will the project connect to municipal reclaimed water?				X
16	Will the project have an on-site septic system?			Х	
17	If so, how big are the				
	proposed lagoons?	3 6 1 6 2	sq. ft.		
	Will the project have it's own treatment system?				
18	If so, explain: Mound for septic and aerated			X	Carl NV
10	treatment unit on benefecial water reuse for		N STEEL BURNE	^	
	winery process waste				The State of
M. BY	Other, Please explain:				E AVE CH
					THE WAY
					A STATE
					NE BINE