

Checklist of Voluntary Greenhouse Gas Emission Reduction Measures



A Tradition of Stewardship
A Commitment to Service

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

| | |
|-----------------|--|
| PROJECT NAME | Seven Stones Winery Addition |
| PROJECT ADDRESS | 840 Meadowood Lane |
| APPLICANT | Charles Covell for Ron Wornick |
| CONTACT INFO | cc@covell-architect.com 707-968-9280 |
| | email phone |

| | yes | no | I don't know |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Have you designed to U.S.G.B.C.™ LEED™ or Build It Green™ standards? If yes, please include a copy of their required spreadsheets. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 Do you have an integrated design team? if yes, please list: <u>Owner, architect, structural engineer, winemaker, hvac designer-builder, general contractor, property manager.</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

3 SITE DESIGN

| | | | |
|---|-------------------------------------|-------------------------------------|--------------------------|
| 3.1 Does your design encourage community gathering and is it pedestrian friendly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.2 Are you building on existing disturbed areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.3 Landscape Design | | | |
| 3.31 native plants? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.32 drought tolerant plants? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.33 Pierce Disease resistant planting? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.34 Fire resistant planting? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.35 Are you restoring open space and/or habitat? | <input type="checkbox"/> | n/a | <input type="checkbox"/> |
| 3.36 Are you harvesting rain water on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3.37 planting large trees to act as carbon sinks? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.38 using permeable paving materials for drive access and walking surfaces? | <input type="checkbox"/> | n/a | <input type="checkbox"/> |
| 3.4 Does your parking lot include bicycle parking? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.5 Do you have on-site waste water disposal? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.6 Do have post-construction stormwater on site detention/filtration methods designed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.7 Have you designed in harmony with existing natural features, such as preserving existing trees or rock outcroppings? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.9 Is the structure designed to take advantage of natural cooling and passive solar aspects? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

4 ENERGY PRODUCTION & EFFICIENCY

| | | | |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 4.1 Does your facility use energy produced on site? If yes, please explain the size, location, and percentage of off-set: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.2 Does the design include thermal mass within the walls and/or floors? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.3 Do you intend to commission the performance of the building after it is built to ensure it performs as designed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.4 Will your plans for construction include: | | | |
| 4.41 High density insulation above Title 24 standards? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.42 Zones for heating and cooling to provide for maximum efficiency? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.43 Energy Star™ or ultra energy efficient appliances? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.44 A "cool" (lightly colored or reflective) or a permeable/living roof? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.45 Timers/time-outs installed on lights (such as the bathrooms)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If yes, please explain: _____ | | | |

5 WATER CONSERVATION

| | | | |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 5.1 Does your landscape include high-efficiency irrigation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.2 Does your landscape use zero potable water irrigation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.3 Is your project in the vicinity to connect to the Napa Sanitation reclaimed water? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5.4 Will your facility use recycled water? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5.41 If no, will you prepare for it by pre-installing dual pipes and/or purple lines? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5.5 Will your plans for construction include: | | | |
| 5.51 a meter to track your water usage? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.52 ultra water efficient fixtures and appliances? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5.53 a continuous hot water distribution method, such as an on-demand pump? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.54 a timer to insure that the systems are run only at night/early morning? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

yes no I don't know

6 MATERIAL RECYCLING

| | | | | |
|------|--|-------------------------------------|--------------------------|-------------------------------------|
| 6.1 | Are you using reclaimed materials? If yes, what and where: <u>stone, site walls; flyash in conc. flatwork</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.2 | Are you using recycled construction materials- | | | |
| 6.21 | finish materials? | | | <input checked="" type="checkbox"/> |
| 6.22 | aggregate/concrete road surfaces? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.23 | fly ash/slag in foundation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.3 | Will your contractor be required to recycle and reuse construction materials as part of your contract? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.4 | Does your facility provide access to recycle- | | | |
| 6.41 | Kitchen recycling center? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.42 | Recycling options at all trash cans? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.43 | Do you compost green waste? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.44 | Provide recycling options at special events? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 NATURAL RESOURCES

| | | | | |
|-----|--|-------------------------------------|--------------------------|--------------------------|
| 7.1 | Will you be using certified wood that is sustainably harvested in construction? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.2 | Will you be using regional (within 500 miles) building materials? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.3 | Will you be using rapidly renewable materials, such as bamboo? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.4 | Will you apply optimal value engineering (studs & rafters at 24" on center framing)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.5 | Have you considered the life-cycle of the materials you chose? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

8 INDOOR AIR QUALITY

| | | | | |
|------|---|-------------------------------------|-------------------------------------|--------------------------|
| 8.1 | Will you be using low or no emitting finish and construction materials indoors- | | | |
| 8.11 | Paint? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8.12 | Adhesives and Sealants? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8.13 | Flooring? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8.14 | Framing systems? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8.15 | Insulation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8.2 | Does the design allow for maximum ventilation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8.3 | Do you plan for a wood burning fireplace (US EPA Phase II certified)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8.4 | Does your design include dayling, such as skylights? ("daylighting"?) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

9 TRANSPORTATION DEMAND MANAGMENT

| | | | | |
|-----|---|-------------------------------------|--------------------------|-------------------------------------|
| 9.1 | After your project is complete, will you offer your employees incentives to carpool, bike, or use transit? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9.2 | After your project is complete, will you allow your employees to telecommute or have alternative work schedules? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9.3 | Does your project include design features that encourage alternatives modes of transportation, such as preferred parking for carpooling, ridesharing, electric vehicles? secured bicycle parking, safe bicycle access? loading zones for buses/large taxi services? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9.4 | How close is your facility to public transportation? <u>not close: in a rural location away from main highways, on a high hill</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

10 Are there any superior environmental/sustainable features of your project that should be noted?

entire property powered by a large solar array

11 What other studies or reports have you done as part of preparing this application?

- 1 traffic & parking
- 2 water availability
- 3 domestic and process waste water (septic)
- 4 CEQA

12 If your project involves an addition or modification to an existing building, are you planning to improve energy conservation of existing space (such as insulation, new windows, HVAC, etc.)?

| | | |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

If yes, please describe: Any walls or ceilings opened up and found to be lacking in insulation will be upgraded.

13 Once your facility is in operation, will you:

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 13.1 | calculate your greenhouse gas emissions? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13.2 | implement a GHG reduction plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13.3 | have a written plan to reduce your vehicle miles traveled of your operations and employee's commute? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

14 Does your project provide for education of green/sustainable practices?

| | | |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|-------------------------------------|

If yes, please describe: _____

15 Any comments, suggestions, or questions in regards to the County's efforts to reduce greenhouse gases?

Form filed out by: Charles Covell