



# San Joaquin Valley

## AIR POLLUTION CONTROL DISTRICT

FEB 13 2012

Ms. Sue Giampietro  
Golden State Vintners  
7409 W. Central Avenue  
Fresno, CA 93706

**Re: Notice of Preliminary Decision - ATC / Certificate of Conformity  
Facility # C-581  
Project # C-1113010**

Dear Ms. Giampietro:

Enclosed for your review and comment is the District's analysis of an application for Authorities to Construct for Golden State Vintners Fresno, CA. Golden State proposes to establish a Specific Limiting Condition on all wine fermentation and storage tanks at the facility and modify equipment descriptions to reflect as-built tank configurations.

After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the Authorities to Construct will be issued to the facility with Certificates of Conformity. Prior to operating with modifications authorized by the Authorities to Construct, the facility must submit an application to modify the Title V permit as an administrative amendment, in accordance with District Rule 2520, Section 11.5.

The public notice will be published approximately three days from the date of this letter. Please submit your written comments within the 30-day public comment period which begins on the date of publication of the public notice.

If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

**Seyed Sadredin**

Executive Director/Air Pollution Control Officer

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**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061  
[www.valleyair.org](http://www.valleyair.org)

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: (661) 392-5500 FAX: (661) 392-5585

Ms. Sue Giampietro  
Page 2

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "David Warner", with a long horizontal flourish extending to the right.

David Warner  
Director of Permit Services

Enclosures

c: Dennis Roberts, Permit Services



# San Joaquin Valley

## AIR POLLUTION CONTROL DISTRICT

**FEB 13 2012**

Gerardo C. Rios, Chief  
Permits Office  
Air Division  
U.S. EPA - Region IX  
75 Hawthorne St.  
San Francisco, CA 94105

**Re: Notice of Preliminary Decision - ATC / Certificate of Conformity  
Facility # C-581  
Project # C-1113010**

Dear Mr. Rios:

Enclosed for your review is the District's engineering evaluation of an application for Authorities to Construct for Golden State Vintners Fresno, CA, which has been issued a Title V permit. Golden State Vintners is requesting that Certificates of Conformity, with the procedural requirements of 40 CFR Part 70, be issued with this project. Golden State proposes to establish a Specific Limiting Condition on all wine fermentation and storage tanks at the facility and modify equipment descriptions to reflect as-built tank configurations.

Enclosed is the engineering evaluation of this application, along with the current Title V permit, and proposed Authorities to Construct # ATC #s C-581-4-2 through '111-2 with Certificates of Conformity. After demonstrating compliance with the Authority to Construct, the conditions will be incorporated into the facility's Title V permit through an administrative amendment.

Please submit your written comments on this project within the 45-day comment period that begins on the date you receive this letter. If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

**Seyed Sadredin**

Executive Director/Air Pollution Control Officer

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Mr. Gerardo C. Rios  
Page 2

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David Warner  
Director of Permit Services

Enclosures

c: Dennis Roberts, Permit Services



# San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT

FEB 13 2012

Mike Tollstrup, Chief  
Project Assessment Branch  
Air Resources Board  
P O Box 2815  
Sacramento, CA 95812-2815

Re: **Notice of Preliminary Decision - ATC / Certificate of Conformity**  
**Facility # C-581**  
**Project # C-1113010**

Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of an application for Authorities to Construct for Golden State Vintners Fresno, CA. Golden State proposes to establish a Specific Limiting Condition on all wine fermentation and storage tanks at the facility and modify equipment descriptions to reflect as-built tank configurations.

The public notice will be published approximately three days from the date of this letter. Please submit your written comments within the 30-day public comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Thank you for your cooperation in this matter.

Sincerely,

David Warner  
Director of Permit Services

Enclosures

c: Dennis Roberts, Permit Services

**Seyed Sadredin**

Executive Director/Air Pollution Control Officer

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**NOTICE OF PRELIMINARY DECISION  
FOR THE ISSUANCE OF AUTHORITY TO CONSTRUCT AND  
THE PROPOSED MINOR MODIFICATION OF FEDERALLY  
MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed issuance of Authority To Construct to Golden State Vintners for its winery in Fresno, California. Golden State proposes to establish a Specific Limiting Condition on all wine fermentation and storage tanks at the facility and modify equipment descriptions to reflect as-built tank configurations.

The analysis of the regulatory basis for these proposed actions, Project #C-1113010, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. Written comments on the proposed initial permit must be submitted within 30 days of the publication date of this notice to **DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CA 93726-0244.**

**San Joaquin Valley Air Pollution Control District**  
**Authority to Construct Application Review**  
Winery: Specific Limiting Condition

Facility Name: Golden State Vintners  
Mailing Address: 7409 W. Central Ave.  
Fresno, CA 93706  
Contact Person: Sue Giampietro  
Telephone: (559) 528-3033  
E-Mail: sue.giampietro@thewinegroup.com  
Application #s: C-581-4-2 through -111-2  
Project #: C-1113010  
Deemed Complete: November 28, 2011

Date: January 31, 2012  
Engineer: Dennis Roberts  
Lead Engineer: Martin Keast

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## **I. Proposal**

The primary business of Golden State Vintners is the production of table wines and related beverages. In order to increase operational flexibility, the facility proposes to establish a specific limiting condition (SLC) that limits annual wine fermentation and storage emissions from all wine tanks at their facility to the Pre-Project Potential to Emit of fermentation and storage capacities of the facility. Additionally, the facility has requested that the following modifications:

- Revise the permit descriptions of all tanks to indicate that all tanks are insulated.
- Revise the permit descriptions for tanks '-13-1 to '-15-1 to indicate that these tanks are used for fermentation only (no wine storage operation).
- Revise the permit descriptions of all tanks (other than '-13-1 to '-15-1) to indicate that the tanks may be used for either red/white wine fermentation or storage.

Golden State Vintners received their Title V Permit on July 8, 2010. This modification can be classified as a Title V minor modification pursuant to Rule 2520, Section 3.20, and can be processed with a Certificate of Conformity (COC). Since the facility has specifically requested that this project be processed in that manner, the 45-day EPA comment period will be satisfied prior to the issuance of the Authority to Construct. Golden State must apply to administratively amend their Title V permit.

Current Permits to Operate are attached in Appendix A.

## **II. Applicable Rules**

Rule 2201	New and Modified Stationary Source Review Rule (9/21/06)
Rule 2520	Federally Mandated Operating Permits (6/21/01)

Rule 4001           New Source Performance Standards (4/14/99)  
Rule 4002           National Emissions Standards for Hazardous Air Pollutants (5/20/04)  
Rule 4102           Nuisance (12/17/92)  
Rule 4694           Wine Fermentation and Storage Tanks (12/15/05)  
CH&SC 41700       Health Risk Assessment  
CH&SC 42301.6     School Notice  
Public Resources Code 21000-21177: California Environmental Quality Act (CEQA)  
California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387: CEQA  
Guidelines

### **III. Project Location**

The facility is located at 22004 Road 24 in Madera, CA. The equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

### **IV. Process Description**

Golden State produces both red and white table wines, as well as other specialty wine products, from the fermentation of grapes. During the "crush season," typically from late August to late November, both red and white grapes are received by truck and delivered to a crusher-stemmer which serves to crush the grapes and remove the stems. In the case of red wines, the resultant juice (termed "must" and containing the grape skins, pulp and seeds) is pumped to red wine fermentation tanks for fermentation, a batch process. The red wine fermentation tanks are specifically designed to ferment the must in contact with the skins and to allow the separation of the skins and seeds from the wine after fermentation. In the case of white wines, the must is sent to screens and presses for separation of grape skins and seeds prior to fermentation. After separation of the skins and seeds, the white must is transferred to a fermentation tank. White wine fermentation can be carried out in a tank without design provisions for solids separation since the skins and seeds have already been separated.

After transfer of the must (for red or white wine) to the fermentation tank, the must is inoculated with yeast which initiates the fermentation reactions. During fermentation, the yeast metabolizes the sugar in the grape juice, converting it to ethanol and carbon dioxide while releasing heat. Temperature is typically controlled by refrigeration, and is maintained at 45–65 °F for white wine fermentation and 70–95 °F for red wine fermentation. The sugar content of the fermentation mass is measured in °Brix (weight %) and is typically 22–26° for unfermented grape juice, dropping to 4° or less at the end of fermentation. Finished ethanol concentration is approximately 10 to 14 percent by volume. Batch fermentation requires 3-5 days per batch for red wine and 1-2 weeks per batch for white wine. VOCs are emitted during the fermentation process along with the CO<sub>2</sub>. The VOCs consist primarily of ethanol along with small quantities of other fermentation byproducts.

Following the completion of fermentation, white wine is transferred directly to storage tanks. Red wine is first directed to the presses for separation of solids and then routed to the storage tanks. All tanks in the winery typically operate as two separate emissions units: (1) a fermentation operation during which the tank is vented directly to the atmosphere to release the evolved CO<sub>2</sub> byproduct from the fermentation reaction; and (2) a storage operation during



which the tank is closed to minimize contact with air and refrigerated to preserve the wine. Post-fermentation operations such as cold stabilization, racking, and filtration are conducted in the tanks, resulting in a number of inter-tank transfers during the period between the end of fermentation and bottling or bulk shipment. Storage operations are conducted year-round. VOC emissions occur primarily as a result of the inter-tank transfers which are necessitated by the post fermentation operations.

## V. Equipment Listing

### Pre-Project Equipment Description:

The facility currently has 108 tanks with statistics as follows:

	Number of Tanks	Total Gallons
Red/White Wine Fermenters	51	6,560,883
White-Only Fermenters	108	21,696,883
Storage	104	21,661,807

See Appendix B for the pre-project equipment descriptions.

### Proposed Modification:

- Establish SLC for wine production operations (fermentation and storage) emissions from all wine tanks at the facility.
- Revise the permit descriptions of all storage tanks to indicate that all tanks are insulated.
- Revise the permit descriptions for tanks '-13-1 to '-15-1 to indicate that these tanks are used for fermentation only (no wine storage operation).
- Revise the permit descriptions of all tanks (other than '-13-1 to '-15-1) to indicate that the tanks may be used for either red/white wine fermentation or storage.

### Post Project Equipment Description:

See Appendix C.

## VI. Emission Control Technology Evaluation

VOCs (ethanol) are emitted from wine storage tanks as a result of both working losses (which occur when the liquid level in the tank changes) and breathing losses (expansion and contraction effects due to temperature variations). The proposed pressure/vacuum valve limits these emissions by requiring the maximum amount of variation in tank pressure before

allowing the tank to vent to the atmosphere or allowing air admission to the tank. When wine storage tanks are equipped with a pressure/vacuum relief valve and either insulated or located in a climate controlled building, breathing losses are considered to be negligible.

The temperature of the fermentation is controlled to maintain an average fermentation temperature not exceeding 95 °F which avoids higher temperatures that might be damaging to the yeast cells and reduces the potential for an out-of-control fermentation reaction in the tank. Temperature control serves to minimize VOC emissions relative to a tank without temperature control since the potential emissions increase with fermentation temperature.

## **VII. General Calculations**

### **A. Assumptions**

- Winery tanks generally consist of two emissions units; 1) a fermentation tank emissions unit and 2) a wine storage tank emissions unit.
- Post-project, combined annual storage and fermentation emissions (annual PE2) from existing tanks will be established as an SLC, set equal to the combined annual storage and fermentation emissions (PE1) from the existing tanks at the facility. Therefore PE2 = PE1 for this project.
- Daily Potential to Emit for both storage and fermentation operations will be calculated on a tank-by-tank basis as outlined in District FYI-114, *Estimating VOC Emissions from Wine Storage Tanks (attached in Appendix D)*. .
  - Daily breathing losses are assumed to be negligible from the storage operation since all existing storage tank emissions units are insulated and equipped with a pressure/vacuum relief valve.
  - Maximum ethanol content is 23.9 volume % per applicant.
- Annual Potential to Emit for VOC emissions from the fermentation and storage operation at the facility will be calculated per the District's FYI-296, *Calculation of the Potential to Emit for VOC Emissions from Wine Fermentation and Storage Operations (attached in Appendix E)*.
- Grape crushing capacity at this facility is 7,200 tons per day based on information provided by the applicant.
- Pressing capacity at this facility is 12,000 tons per day based on information provided by the applicant.
- For wine storage tanks with capacities  $\geq 200,000$  gallons, the tank daily throughput is the maximum nominal tank capacity stated in the equipment description per applicant.

- For wine storage tanks with capacities < 200,000 gallons, the tank daily throughput is twice the maximum nominal tank capacity stated in the equipment description per applicant.

## B. Emission Factors

The required emission factors for fermentation and storage operations are taken from District FYI-114, *Estimating VOC Emissions from Winery Tanks (SEE Appendix D)*:

### Red Wine Fermentation:

Daily: 3.46 lb-VOC/1000 gallons tank capacity  
Annual: 6.2 lb-VOC/1000 gallons annual throughput

### White Wine Fermentation

Daily: 1.62 lb-VOC/1000 gallons tank capacity  
Annual: 2.5 lb-VOC/1000 gallons annual throughput

### Wine Storage Working Losses @ 14% Ethanol

Daily: 0.252 lb-VOC/1000 gallons daily throughput  
Annual: 0.150 lb-VOC/1000 gallons annual throughput

### Wine Storage Working Losses @ 16% Ethanol

Daily: 0.280 lb-VOC/1000 gallons daily throughput  
Annual: 0.167 lb-VOC/1000 gallons annual throughput

### Wine Storage Working Losses @ 23.9% Ethanol (interpolated)

Daily: 0.410 lb-VOC/1000 gallons daily throughput  
Annual: 0.248 lb-VOC/1000 gallons annual throughput

## C. Calculations

### 1. Pre-Project Potential to Emit (PE1)

#### Existing Wine Tanks

- a. Daily PE1 for each wine fermentation tank emission unit in this project:

The daily PE1 for each fermentation tank emission unit is listed in Appendix F.

- b. Daily PE1 for each storage tank emission unit in this project:

The daily PE1 for each storage tank emission unit is listed in Appendix G.

- c. Annual PE1 for fermentation operations:

The combined Pre-Project Potential to Emit (all existing fermentation tanks) for this facility's wine fermentation operation is determined in the following sequence of calculations (see District FYI-296, *Calculation of the Potential to Emit for VOC Emissions from Wine Fermentation and Storage Operations (attached in Appendix E)*):

1. Potential fermentation emissions from the white wine production scenario are first determined:

White wine production capacity is determined as the lesser of the production capacities of either the crushing or pressing equipment or wine fermentation tanks at the facility:

$W_W$  = White wine production capacity (gallons per year as measured immediately after pressing) is the lesser of the following three calculations:

$$W1 = C \times D_w \times M \text{ (limited by crusher capacity)}$$

$$W2 = P \times D_w \times M \text{ (limited by pressing capacity)}$$

$$W3 = (V_{FW} \times D_w) / W_{FW} \text{ (limited by white fermenter volume)}$$

$$W4 = (V_T \times D_w) / R_{TW} \text{ (limited by overall tank processing)}$$

where,

C = grape crushing capacity = 7,200 tons/day

$D_w$  = days in a white wine crush season = 120 days

M = amount of grape juice produced per ton of grapes crushed = 200 gallons/ton

P = pressing capacity = 12,000 tons per day

$W_{FW}$  = White fermentation period = 10 days

$R_{TW}$  = Total winery retention time for white wine, 40 + 10 = 50 days

$V_{FW}$  = Total volume of white wine fermenters = 21,696,297 gallons

$V_T$  = Total Winery Storage Cooperage = 21,661,807 gallons

Potential white wine fermentation emissions are then determined by applying the white fermentation emission factor stated in FYI-114:

$$PE_{\text{whitefermentation}} = E_{fw} \times W_W$$

$E_{fw}$  = white wine emission factor = 2.5 lb-VOC/1000 gal

Performing the above calculations yields

$$W1 = 172.8 \text{ MG/year (million gals/year)}$$

$$W2 = 288.0 \text{ MG/year}$$

$$W3 = 247.3 \text{ MG/year}$$

$$W4 = 52.0 \text{ MG/year}$$

Selecting  $W_W = W4 = 52.0 \text{ MG/year}$  and applying the emission factor for white wine fermentation yields:

$$PE_{\text{whitefermentation}} = 130,000 \text{ lb-VOC/year}$$

Storage emissions are then calculated for white wine operation per District FYI-114:

$$PE_{\text{storage}} = E_s \times T \times W_W$$

Where:

$E_s$  = wine storage annual emission factor based on District FYI-114 = 0.167 lb-VOC/1000 gallons of wine transferred for 16% alcohol wine;

$T$  = Total post fermentation inter-tank transfers per batch of wine = 8

$W_W$  = maximum quantity of white wine the facility can produce = 52.0 million gallons per year

$$PE_{\text{storage}} = (0.167/1000) \times 8 \times 52,000,000 = 69,472 \text{ lb-VOC/year}$$

The facility's PE for white wine production is then taken as the sum of the fermentation and storage potentials for white wine:

$$PE_{\text{white}} = 130,000 + 69,472 = 199,472 \text{ lb-VOC/year}$$

2. Potential fermentation emissions from the red wine production scenario are then calculated:

Red wine production capacity is determined as the lesser of the production capacities of either the crushing, pressing or tankage.

$W_R$  = Red wine production capacity (gallons per year as measured immediately after pressing) and is the lesser of the following four calculations:

$$W1 = C \times D_r \times M \text{ (limited by crusher capacity)}$$

$$W2 = P \times D_r \times M \text{ (limited by pressing capacity)}$$

$$W3 = (V_{FR} \times F \times D_r) / R_{FR} \text{ (limited by red fermenter volume)}$$

$$W4 = (V_T \times D_r) / R_{TS} \text{ (limited by overall tank processing)}$$

where,

$C$  = grape crushing capacity = 7,200 tons/day

$D_r$  = days in a red wine crush season = 120 days

$F$  = Fill factor for red wine fermentation = 80%

$M$  = amount of grape juice produced per ton of grapes crushed = 200 gallons/ton

$P$  = pressing capacity = 12,000 tons per day

$R_{FR}$  = Red fermentation period = 5 days

$R_{TS}$  = Total winery retention time for red wine, 40 + 5 = 45 days

$V_{FR}$  = total volume of red wine fermenters = 6,560,883 gallons

$V_T$  = Total Winery Storage Cooperage = 21,661,807 gallons

Potential red wine fermentation emissions are then determined by applying the red fermentation emission factor stated above.

$$PE_{\text{redfermentation}} = E_{fr} \times W_R / 1,000$$

$E_{fr}$  = red wine emission factor = 6.2 lb-VOC/1000 gal (District Rule 4694)

Performing the above calculations yields

$W1 = 172.8$  MG/year (million gals/year)

$W2 = 288.0$  MG/year

$W3 = 126.0$  MG/year

$W4 = 57.8$  MG/year

Selecting  $W_R = W4 = 57.8$  MG/year and applying the emission factor for red wine fermentation yields:

$PE_{redfermentation} = 358,360$  lb-VOC/year

Storage emissions are then calculated for red wine operation per District FYI-114:

$PE_{storage} = E_s \times T \times W_R$

Where:

$E_s$  = wine storage annual emission factor based on District FYI-114 = 0.167 lb-VOC/1000 gallons of wine transferred for 16% alcohol wine;

$T$  = Total post fermentation inter-tank transfers per batch of wine = 8

$W_R$  = maximum quantity of red wine the facility can produce = 57.9 million gallons per year

$PE_{storage} = (0.167/1000) \times 8 \times 57,800,000 = 77,221$  lb-VOC/year

The facility's PE for red wine production is then taken as the sum of the fermentation and storage potentials for red wine:

$PE_{red} = 358,980 + 77,354 = 435,581$  lb-VOC/year

The PE for the facility is then established as the greater of either the PE for red wine production or the PE for white wine production.

**$PE1_{facility} = PE1_{red} (> PE1_{white}) = 435,581$  lb-VOC/year**

## 2. Post Project Potential to Emit (PE2)

- a. Daily PE2 for each fermentation tank emission unit:

For the existing fermentation tank emission units, daily PE2 = daily PE1.

- b. Daily PE2 for each storage tank emission unit:

For each existing storage tank emission unit, daily PE2 = daily PE1.

c. Annual PE2 for fermentation and storage operations:

This project establishes a Specific Limiting Condition (SLC) to limit the combined post project annual fermentation and storage emissions from the existing tanks to the Pre-Project Potential to Emit of the existing tanks.

Therefore,

$$PE2_{\text{facility}} = PE1_{\text{facility}} = 435,581 \text{ lb-VOC/year (SLC)}$$

**3. Pre-Project Stationary Source Potential to Emit (SSPE1)**

Pursuant to Section 4.9 of District Rule 2201, the Pre-Project Stationary Source Potential to Emit (SSPE1) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

This project only concerns VOC emissions. This facility acknowledges that its VOC emissions are already above the Offset and Major Source Thresholds for VOC emissions; therefore, SSPE1 calculations are not necessary.

**4. Post Project Stationary Source Potential to Emit (SSPE2)**

Pursuant to Section 4.10 of District Rule 2201, the Post Project Stationary Source Potential to Emit (SSPE2) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

This project only concerns VOC emissions. This facility acknowledges that its VOC emissions are already above the Offset and Major Source Thresholds for VOC emissions; therefore, SSPE2 calculations are not necessary.

**5. Major Source Determination**

This source is an existing Major Source for VOC emissions and will remain a Major Source for VOC. No change in other pollutants are proposed or expected as a result of this project.

**6. Baseline Emissions (BE)**

The BE calculation (in lbs/year) is performed pollutant-by-pollutant for each unit within the project, to calculate the QNEC and if applicable, to determine the amount of offsets required.

Pursuant to Section 3.7 of District Rule 2201, BE = Pre-project Potential to Emit for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE), calculated pursuant to Section 3.22 of District Rule 2201.

The permit units in this project only emit VOC and therefore the BE determination is only required for this pollutant, as discussed in the following sections:

## **BE VOC**

### Units Located at a Non-Major Source

As shown in Section VII.C.5 above, the facility is a major source for VOC emissions.

### Highly-Utilized Emissions Units, located at a Major Source

Due to the nature of winery operations, excess tank capacity is installed at wineries such that the actual usage is always significantly less than the potential operation. Therefore, none of the tanks in this project are Highly-Utilized Emissions Units.

### Fully Offset Emissions Units, located at a Major Source

No permit units affected by this project are Fully Offset Emissions Units.

### Clean Emissions Unit, Located at a Major Source

Pursuant to Rule 2201, Section 3.12, a Clean Emissions Unit is defined as an emissions unit that is "equipped with an emissions control technology with a minimum control efficiency of at least 95% or is equipped with emission control technology that meets the requirements for achieved-in-practice BACT as accepted by the APCO during the five years immediately prior to the submission of the complete application.

All wine storage and fermentation tanks in this project meet the District's current achieved-in-practice BACT (see Appendices H and I for storage and fermentation tanks respectively). Therefore all emissions units are *Clean Emissions Units* pursuant to District Rule 2201 and, for the combined emissions storage and fermentation emissions of all tanks in this project,

### Clean Emissions Unit, Located at a Major Source

$\Sigma BE = \Sigma PE1 = 435,581 \text{ lb-VOC/year}$



## 7. SB 288 Major Modification

SB 288 Major Modification is defined in 40 CFR Part 51.165 as "any physical change in or change in the method of operation of a major stationary source that would result in a significant net emissions increase of any pollutant subject to regulation under the Act."

The *net emissions increase* is calculated as the increase in actual emissions resulting from the project. The post project actual emissions are conservatively assumed to be equal to the Post Project Potential to Emit. The calculated net emissions increase is significant if it exceeds the values in the following table:

Significance Threshold (lb/year)	
Pollutant	Threshold (lb/year)
VOC	50,000
NO <sub>x</sub>	50,000
PM <sub>10</sub>	30,000
SO <sub>x</sub>	80,000

This facility is a major stationary source for VOC which concedes that the Post Project Potential to Emit exceeds the pre-project baseline actual emissions by more than 50,000 lb/year for the emissions units in this project. Therefore, this project is an SB288 Major Modification.

## 8. Federal Major Modification

District Rule 2201, Section 3.17 states that Federal Major Modifications are the same as "Major Modification" as defined in 40 CFR 51.165 and part D of Title I of the CAA. The determination of Federal Major Modification is based on a two-step test. For the first step, only the emission *increases* are counted. Emission decreases may not cancel out the increases for this determination.

### Step 1

For existing emissions units, the increase in emissions is calculated as follows.

$$\text{Emission Increase} = \text{PAE} - \text{BAE} - \text{UBC}$$

Where: PAE = Projected Actual Emissions, and  
BAE = Baseline Actual Emissions  
UBC = Unused baseline capacity

If there is no increase in design capacity or potential to emit, the PAE is equal to the annual emission rate at which the unit is projected to emit in any one year, selected by the operator, within 5 years after the unit resumes normal operation. If detailed PAE are not provided, the PAE is equal to the PE2 for each permit unit.

The BAE is calculated based on historical emissions and operating records for any 24 month period, selected by the operator, within the previous 10 year period. The BAE must be adjusted to exclude any non-compliant operation emissions and emissions that

are no longer allowed due to lower applicable emission limits that were in effect when this application was deemed complete.

UBC: Since this project does not result in an increase in design capacity or potential to emit, and it does not impact the ability of the emission unit to operate at a higher utilization rate, the UBC is the portion of PAE that the emission units could have accommodated during the baseline period.

This project only involves VOC emissions and  $PAE = PE2$

As demonstrated by the calculations of VII.C.1,  $BAE + UBC = PE1$ ,

therefore,

Emission Increase =  $PE2 - PE1$

Since  $PE2 = PE1$  for this project,

Emission Increase = 0

Federal Major Modification Thresholds for Emission Increases			
Pollutant	Total Emissions Increases (lb/yr)**	Thresholds (lb/yr)	Federal Major Modification?
NO <sub>x</sub> *	0	0	No
VOC*	0	0	No
PM <sub>10</sub>	0	30,000	No
PM <sub>2.5</sub>	0	20,000	No
SO <sub>x</sub>	0	80,000	No

\*If there is any emission increases in NO<sub>x</sub> or VOC, this project is a Federal Major Modification and no further analysis is required.

Since none of the Federal Major Modification Thresholds are being surpassed with this project, this project does not constitute a Federal Major Modification and no further analysis is required.

## VIII. Compliance

### Rule 1070 Record keeping

This rule applies to any source operation, which emits or may emit air contaminants. The rule allows the District to perform inspections for the purpose of obtaining information necessary to determine whether air pollution sources are in compliance with applicable rules and regulations. The rule also allows the District to require record keeping, to make inspections and to conduct tests of air pollution sources.

Record keeping conditions for records required to verify compliance with NSR requirements will be placed on the ATCs under the authority of this rule.

## Rule 2201 New and Modified Stationary Source Review Rule

### A. Best Available Control Technology (BACT)

#### 1. BACT Applicability

BACT requirements are triggered on a pollutant-by-pollutant basis and on an emissions unit-by-emissions unit basis for the following\*:

- a. Any new emissions unit with a potential to emit exceeding two pounds per day,
- b. The relocation from one Stationary Source to another of an existing emissions unit with a potential to emit exceeding two pounds per day,
- c. Modifications to an existing emissions unit with a valid Permit to Operate resulting in an AIPE exceeding two pounds per day, and/or
- d. Any new or modified emissions unit, in a stationary source project, which results in a Major Modification.

\*Except for CO emissions from a new or modified emissions unit at a Stationary Source with an SSPE2 of less than 200,000 pounds per year of CO.

#### a. New emissions units – PE > 2 lb/day

There are no new emissions units are proposed by this project.

#### b. Relocation of emissions units – PE > 2 lb/day

There are no emissions units being relocated from one stationary source to another in this project.

#### c. Modification of emissions units – AIPE > 2 lb/day

$$\text{AIPE} = \text{PE2} - \text{HAPE}$$

Where,

AIPE = Adjusted Increase in Permitted Emissions, (lb/day)

PE2 = Post-Project Potential to Emit, (lb/day)

HAPE = Historically Adjusted Potential to Emit, (lb/day)

$$\text{HAPE} = \text{PE1} \times (\text{EF2}/\text{EF1})$$

Where,

PE1 = The emissions unit's Potential to Emit prior to modification or relocation, (lb/day)

EF2 = The emissions unit's permitted emission factor for the pollutant after modification or relocation. If EF2 is greater than EF1 then EF2/EF1 shall be set to 1

EF1 = The emissions unit's permitted emission factor for the pollutant before the modification or relocation

$$\text{AIPE} = \text{PE2} - (\text{PE1} \times (\text{EF2}/\text{EF1}))$$

All existing fermentation and storage tanks in this facility are modified by this project. For these emissions units, PE2 = PE1 and EF2 = EF1. Therefore, per the above equation, AIPE = 0 for all modified existing fermentation and storage emissions units in the project.

#### **d. Major Modification**

As discussed in Section VII.C.7 above, this project constitutes a Major Modification for VOC emissions; therefore BACT is triggered for VOC for all emissions units affected by this stationary source project.

### **2. BACT Guideline**

BACT Guideline 5.4.13, *Wine Storage Tanks*, applies to all wine storage tanks in this project. (See Appendix H)

BACT Guideline 5.4.14, *Wine Fermentation Tanks*, applies to all fermentation tanks in this project. (See Appendix I)

### **3. Top-Down BACT Analysis**

Per Permit Services Policies and Procedures for BACT, a Top-Down BACT analysis shall be performed as a part of the application review for each application subject to the BACT requirements pursuant to the District's NSR Rule.

#### Wine Storage Tanks

Pursuant to the attached Top-Down BACT Analysis (see Appendix H), BACT has been satisfied with the following:

VOC: Insulation or Equivalent, Pressure Vacuum Relief Valve (PVRV) set within 10% of the maximum allowable working pressure of the tank; "gas-tight" tank operation; and continuous storage temperature not exceeding 75 oF, achieved within 60 days of completion of fermentation.

The following conditions will be placed on the ATCs to ensure compliance with the requirements of BACT:

- *When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]*

- *When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]*
- *The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694, 5.2.2]*

### Fermentation Tanks

Pursuant to the attached Top-Down BACT Analysis (see Appendix I), BACT has been satisfied with the following:

VOC: Temperature-Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95 deg F

The following condition will be placed on the ATCs to ensure compliance with the requirements of BACT:

- *The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 °F, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]*

## **B. Offsets**

### **1. Offset Applicability**

Pursuant to Section 4.5.3, offset requirements shall be triggered on a pollutant by pollutant basis and shall be required if the Post Project Stationary Source Potential to Emit (SSPE2) equals to or exceeds the offset threshold levels in Table 4-1 of Rule 2201.

Facility emissions are already above the Offset and Major Source Thresholds for VOC emissions; therefore, offsets are triggered.

### **2. Quantity of Offsets Required**

As discussed above, the facility is an existing Major Source for VOC and the SSPE2 is greater than the offset thresholds; therefore offset calculations will be required for this project.

Per Sections 4.7.1 and 4.7.3, the quantity of offsets in pounds per year for VOC is calculated as follows for sources with an SSPE1 greater than the offset threshold levels before implementing the project being evaluated.

Offsets Required (lb/year) =  $(\Sigma[PE2 - BE] + ICCE) \times DOR$ , for all new or modified emissions units in the project,

Where,

PE2 = Post Project Potential to Emit, (lb/year)

BE = Baseline Emissions, (lb/year)

ICCE = Increase in Cargo Carrier Emissions, (lb/year)

DOR = Distance Offset Ratio, determined pursuant to Section 4.8

BE = Pre-project Potential to Emit for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, Located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE)

There are no increases in cargo carrier emissions due to this project. Therefore

Offsets Required (lb/year) =  $\Sigma[PE2 - BE] \times DOR = [\Sigma PE2 - \Sigma BE] \times DOR$

Per section VIII.C.6,  $\Sigma BE = 435,581$  lb-VOC/year

Per section VIII.C.2,  $\Sigma PE2 = 435,581$  lb-VOC/year

Offsets Required (lb/year) =  $[435,581 - 435,581] \times DOR$

=  $0$  lb-VOC/year  $\times DOR$

=  $0$  lb-VOC/year

## C. Public Notification

### 1. Applicability

Public noticing is required for:

- a. Any new Major Source, which is a new facility that is also a Major Source,
- b. Major Modifications,
- c. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any one pollutant,
- d. Any project which results in the offset thresholds being surpassed, and/or
- e. Any project with an SSPE of greater than 20,000 lb/year for any pollutant.

#### a. New Major Source

New Major Sources are new facilities, which are also Major Sources. Since this is not a new facility, public noticing is not required for this project for New Major Source purposes.

**b. Major Modification**

As demonstrated in VII.C.7, this project is a Major Modification; therefore, public noticing for Major Modification purposes is required.

**c. PE > 100 lb/day**

Applications which include a new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements. None of the new emission units included in this project have a daily PE exceeding 100 lb/day, hence public notice is not triggered under this category.

**d. Offset Threshold**

Since this project concerns only VOC emissions and this facility was a major source for VOC prior to this project (SSPE>50,000 lb-VOC/year), the offset threshold was not surpassed in this project; therefore public noticing is not required for offset purposes.

**e. SSIPE > 20,000 lb/year**

Public notification is required for any permitting action that results in a Stationary Source Increase in Permitted Emissions (SSIPE) of more than 20,000 lb/year of any affected pollutant. According to District policy, the SSIPE is calculated as the Post Project Stationary Source Potential to Emit (SSPE2) minus the Pre-Project Stationary Source Potential to Emit (SSPE1), i.e.  $SSIPE = SSPE2 - SSPE1$ . This project concerns only VOC emissions with no increases in annual emissions, as discussed in Section VII.C.2, hence public notice is not triggered under this category.

**2. Public Notice Action**

As discussed above, public noticing is required for this project since it is a Major Modification. Therefore, public notice documents will be submitted to the California Air Resources Board (CARB) and a public notice will be published in a local newspaper of general circulation prior to the issuance of the ATCs for this project.

**D. Daily Emission Limits (DELs)**

Daily Emissions Limitations (DELs) and other enforceable conditions are required by Section 3.15 to restrict a unit's maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. Per Sections 3.15.1 and 3.15.2, the DEL must be contained in the latest ATC and contained in or enforced by the latest PTO and enforceable, in a practicable manner, on a daily basis. DELs are also required to enforce the applicability of BACT.

For all fermentation emissions units, the DEL is stated in the form of an emission factor (lb-VOC/day-1000 gallon) and the capacity rating of the tank as listed on the permit.

These units are also subject to a separate annual emission limit (expressed in lb-VOC per year) in the form of a Specific Limiting Condition (SLC).

For all wine storage tank emissions units affected by this project, the DEL is stated in the form of a daily limit on tank throughput and a maximum ethanol content for wine stored in the tank. These units are also subject to a separate annual emission limits (expressed in lb-VOC per year) in the form of a Specific Limiting Condition (SLC).

**Proposed Rule 2201 (DEL) Conditions:**

Since all tanks are used for red wine fermentation and for wine storage:

- *The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201]*
- *The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]*
- *When this tank is used for wine storage and the tank capacity is  $\geq 200,000$  gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201]*
- *When this tank is used for wine storage and the tank capacity is  $< 200,000$  gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201]*
- *Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201]*
- *Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] N*
- *The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150$  lb-VOC/1000 gallons; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248$  lb-VOC/1000 gallons. [District Rule 2201] N*
- *Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] N*

**E. Compliance Assurance**

**1. Source Testing**

Pursuant to District Policy APR 1705, source testing is not required to demonstrate compliance with Rule 2201.



## 2. Monitoring

No monitoring is required to demonstrate compliance with Rule 2201.

## 3. Recordkeeping

Recordkeeping is required to demonstrate compliance with the offsets, public notification and daily emission limit requirements of Rule 2201. Recordkeeping is also required for winery tanks pursuant to District Rule 4694, *Wine Fermentation and Storage Tanks*. The following conditions will be placed on the permits:

- *For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694]*
- *The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]*
- *When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]*
- *When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]*
- *Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rule 1070 and 2201]*
- *Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201]*
- *All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] N*

## 4. Reporting

No reporting is required to demonstrate compliance with Rule 2201.

## **F. Ambient Air Quality Analysis**

Section 4.14.1 of this Rule requires that an ambient air quality analysis (AAQA) be conducted for the purpose of determining whether a new or modified Stationary Source will cause or make worse a violation of an air quality standard. However, since this project involves only VOC and no ambient air quality standard exists for VOC, an AAQA is not required for this project.

## **G. Compliance Certification**

The compliance certification is required for any project, which constitutes a New Major Source or a Federal Major Modification.

As demonstrated in previous sections of this evaluation, this project does not constitute a New Major Source nor is it a Federal Major Modification. Therefore compliance certification is not required.

## **H. Alternative Siting Analysis**

Alternative siting analysis is required for any project, which constitutes a New Major Source or a Federal Major Modification.

As demonstrated in previous sections of this evaluation, this project does not constitute a New Major Source nor is it a Federal Major Modification. Therefore an alternative siting an alternative siting analysis is not required.

## **Rule 2520 Federally Mandated Operating Permits**

This facility is subject to this Rule, and has received their Title V Operating Permit. The proposed modification is a Minor Modification to the Title V Permit pursuant to Section 3.20 of this rule:

In accordance with Rule 2520, 3.20, these modifications:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include:

- a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
  - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
  6. Do not seek to consolidate overlapping applicable requirements.

As discussed above, the facility has applied for a Certificate of Conformity (COC); therefore, the facility must apply to modify their Title V permit with an administrative amendment, prior to operating with the proposed modifications. Continued compliance with this rule is expected. The facility may construct/operate under the ATC upon submittal of the Title V administrative amendment/minor modification application.

#### **Rule 4001 New Source Performance Standards (NSPS)**

This rule incorporates NSPS from Part 60, Chapter 1, Title 40, Code of Federal Regulations (CFR); and applies to all new sources of air pollution and modifications of existing sources of air pollution listed in 40 CFR Part 60. However, no subparts of 40 CFR Part 60 apply to wine fermentation and storage tank operations.

#### **Rule 4002 National Emission Standards for Hazardous Air Pollutants (NESHAPs)**

This rule incorporates NESHAPs from Part 61, Chapter I, Subchapter C, Title 40, CFR and the NESHAPs from Part 63, Chapter I, Subchapter C, Title 40, CFR; and applies to all sources of hazardous air pollution listed in 40 CFR Part 61 or 40 CFR Part 63. However, no subparts of 40 CFR Part 61 or 40 CFR Part 63 apply to wine fermentation and storage tank operations.

#### **Rule 4102 Nuisance**

Rule 4102 states that no air contaminant shall be released into the atmosphere which causes a public nuisance. Public nuisance conditions are not expected as a result of the proposed operations provided the equipment is well maintained. Therefore, the following condition listed on the facility-wide requirements (permit '-0-1) ensures compliance:

- *{98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]*

#### **California Health & Safety Code 41700 (Health Risk Assessment)**

District Policy APR 1905 – Risk Management Policy for Permitting New and Modified Sources specifies that for an increase in hazardous air pollutants (HAP) associated with a proposed new source or modification, the District perform an analysis to determine the possible impact to the nearest resident or worksite.

Ethanol is not a HAP as defined by Section 44321 of the California Health and Safety Code. Therefore, there are no increases in HAP emissions associated with any emission units in this

project, therefore a health risk assessment is not necessary and no further risk analysis is required.

### **District Rule 4694 Wine Fermentation and Storage Tanks**

The purpose of this rule is to reduce emissions of volatile organic compounds (VOC) from the fermentation and bulk storage of wine, or achieve equivalent reductions from alternative emission sources. This rule is applicable to all facilities with fermentation emissions in excess of 10 tons-VOC/year. The storage tank provisions of this rule apply to all tanks with capacity in excess of 5,000 gallons.

Section 5.1 requires the winery operator achieve Required Annual Emissions Reductions (RAER) equal to at least 35% of the winery's Baseline Fermentation Emissions (BFE). Per the definition of RAER in Section 3.25 of the Rule, the RAER may be achieved by any combination of Fermentation Emission Reductions (FER), Certified Emission Reductions (CER) or District Obtained Emission Reductions (DOER) as established in the facility's District-approved Rule 4694 Compliance Plan, due every three years on December 1<sup>st</sup> beginning in 2006. The facility has submitted the required plan to the District and is currently satisfying the required emission reductions in the form of Certified Emission Reductions.

The following condition on the facility-wide permit (permit 0-1) ensures compliance:

- *This facility shall annually achieve the Required Annual Emission Reductions (RAER) as specified in the facility's APCO-approved Three-Year Compliance Plan for District Rule 4694. [District Rule 4694] N*

Section 5.2 places specific restrictions on wine storage tanks with 5,000 gallons or more in capacity when such tanks are not constructed of wood or concrete. Section 5.2.1 requires these tanks to be equipped and operated with a pressure-vacuum relief valve meeting all of the following requirements:

- The pressure-vacuum relief valve shall operate within 10% of the maximum allowable working pressure of the tank,
- The pressure-vacuum relief valve shall operate in accordance with the manufacturer's instructions, and
- The pressure-vacuum relief valve shall be permanently labeled with the operating pressure settings.
- The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21.

The following conditions will be placed on the permits for wine storage tanks  $\geq$  5,000 gallons in capacity to ensure compliance with the requirements of Section 5.2.1:

- *When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working*

*pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]*

- *When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]*

Section 5.2.2 requires that the temperature of the stored wine be maintained at or below 75° F.

The following condition will be placed on the permits for wine storage tanks ≥ 5,000 gallons in capacity to ensure compliance with the requirements of Section 5.2.2:

- *The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]*

Every three years, Section 6.1 and 6.2 require the facility to submit a Three-Year Compliance Plan and a Three-Year Compliance Plan Verification respectively. Section 6.3 requires that an Annual Compliance Plan Demonstration be submitted to the District no later than February 1 of each year to show compliance with the applicable requirements of the Rule. Section 6.4.3 requires that all monitoring be performed for any Certified Emission Reductions as identified in the facility's Three-Year Compliance Plan and that the records of all monitoring be maintained.

The following conditions on the facility-wide permit (permit 0-1) ensure compliance:

- *A Three-Year Compliance Plan that demonstrates compliance with the requirements of Section 5.1 of District Rule 4694 for each year of the applicable compliance period shall be submitted to the District by no later than December 1, 2006, and every three years thereafter on or before December 1. [District Rule 4694]*
- *A Three-Year Compliance Plan Verification that demonstrates that the Three-Year Compliance Plan elements are in effect shall be submitted to the District by no later than July 1, 2007, and every three years thereafter on or before July 1. [District Rule 4694]*
- *An Annual Compliance Plan Demonstration that shows compliance with the applicable requirements of this rule shall be submitted to the District by no later than February 1, 2008, and every year thereafter on or before February 1. [District Rule 4694]*
- *Operators using CER to mitigate fermentation emissions shall perform all monitoring and recordkeeping, as established in their approved Three-Year Compliance Plan, and shall maintain all records necessary to demonstrate compliance. [District Rule 4694]*

- *Operators using District Obtained Emission Reductions (DOER) shall submit payment of DOER and administrative fees to the District no later than March 1, of the first year in the applicable compliance period. [District Rule 4694]*

Section 6.4.1 requires that records be kept for each fermentation batch. The following condition will be placed on the permits for each fermentation tank to ensure compliance with the requirements of Section 6.4.1.

- *For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emissions reductions. The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694]*

Section 6.4.2 requires that weekly records be kept of wine volume and temperature in each storage tank. The following conditions will be placed on the permit for each storage tank to ensure compliance with the requirements of Section 6.4.2:

- *When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]*

Section 6.4 requires that records required by this rule be maintained, retained on-site for a minimum of five years, and made available to the APCO upon request. The following conditions will be placed on all permits to ensure compliance:

- *All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]*

### **California Health & Safety Code 42301.6 (School Notice)**

The District has verified that this site is not located within 1,000 feet of a school. Therefore, pursuant to California Health and Safety Code 42301.6, a school notice is not required.

### **California Environmental Quality Act (CEQA)**

The California Environmental Quality Act (CEQA) requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the orderly evaluation of projects and preparation of environmental documents. The San Joaquin Valley Unified Air Pollution Control District (District) adopted its *Environmental Review Guidelines* (ERG) in 2001. The basic purposes of CEQA are to:

- Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities.
- Identify the ways that environmental damage can be avoided or significantly reduced.

- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible.
- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

### **District CEQA Findings**

The District is the Lead Agency for this project because there is no other agency with broader statutory authority over this project. The District performed an Engineering Evaluation (this document) for the proposed project and determined that the activity will occur at an existing facility and the project involves negligible expansion of the existing use. Furthermore, the District determined that the activity will not have a significant effect on the environment. The District finds that the activity is categorically exempt from the provisions of CEQA pursuant to CEQA Guideline § 15031 (Existing Facilities), and finds that the project is exempt per the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment (CEQA Guidelines §15061(b)(3)).

### **IX. Recommendation**

Compliance with all applicable rules and regulations is expected. Pending a successful NSR Public Noticing period, issue Authorities to Construct C-581-4-2 through C-581-111-2 subject to the permit conditions on the attached draft Authorities to Construct in Appendix L.

### **X. Billing Information**

Billing information is listed in Appendix J.

### **Appendices**

- A: Current PTOs
- B: Pre-Project Equipment Descriptions
- C: Post-Project Equipment Descriptions
- D: District FYI-114, VOC Emission Factors for Wine Fermentation and Storage Tanks
- E: District FYI-296, Calculation of the Potential to Emit for VOC Emissions from Wine Fermentation and Storage Operations
- F: Daily PE1 for Fermentation Tank Emissions Units
- G: Daily PE1 for Storage Tank Emissions Units
- H: BACT Guideline 5.4.13 and Top-Down Analysis for Wine Storage Tanks
- I: BACT Guideline 5.4.14 for Wine Fermentation Tanks and Top-Down Analysis for Wine Fermentation Tanks
- J: Billing Information
- K: Facility-Wide Requirements
- L: Draft ATCs

## **APPENDIX A**

### **Current PTOs**



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-1-4

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

GASOLINE DISPENSING OPERATION WITH ONE 15,000 GALLON SPLIT (5,000 GALLON GASOLINE/10,000 GALLON DIESEL) FIREGUARD ABOVEGROUND STORAGE TANK SERVED BY TWO-POINT PHASE I VAPOR RECOVERY SYSTEM (G-70-162), AND 1 FUELING POINT WITH 1 GASOLINE DISPENSING NOZZLE SERVED BY INTEGRATED HIRT VCS 200 PHASE II VAPOR RECOVERY SYSTEM (G-70-139)

## PERMIT UNIT REQUIREMENTS

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1. The Phase I and Phase II vapor recovery systems shall be installed and maintained in accordance with the manufacturer specifications and the ARB Executive Orders specified in this permit, including applicable rules and regulations of the Division of Measurement Standards of the Department of Food and Agriculture, the Office of the State Fire Marshal of the Department of Forestry and Fire Protection, the Division of Occupational Safety and Health of the Department of Industrial Relations, and the Division of Water Quality of the State Water Resources Control Board that have been made conditions of the certification. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
2. This gasoline storage and dispensing equipment shall not be used in retail sales, where gasoline dispensed by the unit is subject to payment of California sales tax on gasoline sales. [District Rule 4622] Federally Enforceable Through Title V Permit
3. The storage container(s) shall be installed, maintained, and operated such that they are leak-free. [District Rule 4621] Federally Enforceable Through Title V Permit
4. The Phase I and Phase II vapor recovery systems and gasoline dispensing equipment shall be maintained without leaks as determined in accordance with the test method specified in this permit. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
5. A leak is defined as the dripping of VOC-containing liquid at a rate of more than three (3) drops per minute, or the detection of any gaseous or vapor emissions with a concentration of total organic compound greater than 10,000 ppmv, as methane, above background when measured in accordance with EPA Test Method 21. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
6. No gasoline delivery vessel shall be operated or be allowed to operate unless valid State of California decals are displayed on the cargo container, which attest to the vapor integrity of the container. [District Rule 4621] Federally Enforceable Through Title V Permit
7. No person shall operate any ARB certified Phase II vapor recovery system or any portion thereof that has a major defect or an equipment defect that is identified in any applicable ARB Executive Order until the following conditions have been met: 1) the defect has been repaired, replaced, or adjusted as necessary to correct the defect; 2) the District has been notified, and the District has reinspected the system or authorized the system for use (such authorization shall not include the authority to operate the equipment prior to the correction of the defective components); and 3) all major defects, after repair, are duly entered into the Operations and Maintenance (O&M) manual. [District Rule 4622] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
These terms and conditions are part of the Facility-wide Permit to Operate.

8. Upon identification of any major defects, the permittee shall tag "Out-of-Order" all dispensing equipment for which vapor recovery has been impaired. Tagged equipment shall be rendered inoperable and the tag(s) shall not be removed until the defective equipment has been repaired, replaced, or adjusted, as necessary. In the case of defects identified by the District, tagged equipment shall be rendered inoperable, and the tag shall not be removed until the District has been notified of the repairs, and the District has either reinspected the system or authorized the tagged equipment for use. [District Rule 4622] Federally Enforceable Through Title V Permit
9. The permittee shall implement a periodic maintenance inspection program for the certified Phase II vapor recovery system consistent with the requirements of this permit. The program shall be documented in an operation and maintenance (O&M) manual and shall at a minimum contain the following information: 1) copies of all vapor recovery performance tests; 2) all applicable ARB Executive Orders, Approval Letters, and District Permits; 3) the manufacturer's specifications and instructions for installation, operation, repair, and maintenance required pursuant to ARB Certification Procedure CP-201, and any additional instruction provided by the manufacturer; 4) system and/or component testing requirements, including test schedules and passing criteria for each of the standard tests required by this permit (the owner/operator may include any non-ARB required diagnostic and other tests as part of the testing requirements), and 5) additional O&M instructions, if any, that are designed to ensure compliance with the applicable rules, regulations, ARB Executive Orders, and District permit conditions, including replacement schedules for failure or wear prone components. [District Rule 4622] Federally Enforceable Through Title V Permit
10. The permittee shall conduct periodic maintenance inspections based on the greatest monthly throughput of gasoline dispensed by the facility in the previous year as follows: A) less than 2,500 gallons - one day per month; B) 2,500 to less than 25,000 gallons - one day per week; or C) 25,000 gallons or greater - five days per week. All inspections shall be documented within the O & M Manual. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
11. Periodic maintenance inspections of the Phase I vapor recovery system shall include, at a minimum, verification that 1) the fill caps and vapor caps are not missing, damaged, or loose; 2) the fill cap gasket and vapor cap gaskets are not missing or damaged; 3) the fill adapter and vapor adapter are securely attached to the risers; 4) where applicable, the spring-loaded submerged fill tube seals properly against the coaxial tubing; 5) the dry break (poppet-valve) is not missing or damaged; and 6) the submerged fill tube is not missing or damaged. [District Rule 4621] Federally Enforceable Through Title V Permit
12. Periodic maintenance inspections of the Phase II vapor recovery system shall include, at a minimum, verification that 1) the fueling instructions required by this permit are clearly displayed with the appropriate toll-free complaint phone number and toxic warning signs; 2) the following nozzle components are in place and in good condition as specified in ARB Executive Order as applicable: faceplate/facecone, bellows, latching device spring, vapor check valve, spout (proper diameter/vapor collection holes), insertion interlock mechanism, automatic shut-off mechanism, and hold open latch (unless prohibited by law or the local fire control authority); 3) the hoses are not torn, flattened or crimped; 4) the vapor path of the coaxial hoses associated with bellows equipped nozzles does not contain more than 100 ml of liquid if applicable; and 5) the vapor processing unit is functioning properly, for operations that are required to have or possess such a unit. [District Rule 4622] Federally Enforceable Through Title V Permit
13. In the event of a separation due to a drive off, the permittee shall, unless otherwise specified in the applicable ARB Executive Order, conduct a visual inspection of the affected equipment and either 1) perform qualified repairs on any damaged components and conduct applicable re-verification tests pursuant to the requirements of this permit, or 2) replace the affected nozzles, coaxial hoses, breakaway couplings, and any other damaged components with new or certified rebuilt components that are ARB certified. The activities shall be documented in accordance with the requirements of this permit before placing the affected equipment back in service. [District Rule 4622] Federally Enforceable Through Title V Permit
14. The gasoline throughput for this permit unit shall not exceed 657,000 gallons in any one calendar year. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The permittee shall conduct all periodic vapor recovery system performance tests specified in this permit, no more than 30 days before or after the required compliance testing date, unless otherwise required under the applicable ARB Executive Order. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

16. The permittee shall perform and pass a Dynamic Back Pressure Test using ARB TP-201.4 within 60 days after initial start-up and at least once every 12 months thereafter. [District Rule 4622] Federally Enforceable Through Title V Permit
17. The permittee shall perform the "Minimum Maintenance Requirements" for the Hirt VCS-200 from CARB Executive Order G-70-139, and shall record all maintenance activities in a maintenance log. [District Rule 4622] Federally Enforceable Through Title V Permit
18. A person conducting testing of, or repairs to, a certified vapor recovery system shall be in compliance with District Rule 1177 (Gasoline Dispensing Facility Tester Certification). [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
19. A person performing installation of, or maintenance on, a certified Phase I or Phase II vapor recovery system shall be certified by the ICC for Vapor Recovery System Installation and Repair, or work under the direct and personal supervision of an individual physically present at the work site who is certified. The ICC certification shall be renewed every 24 months. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
20. Proof of the ICC certification and all other certifications required by the Executive Order and installation and operation manual shall be made available onsite. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
21. The permittee shall notify the District at least 7 days prior to each performance test. The test results shall be submitted to the District no later than 30 days after the completion of each test. [District Rule 4621] Federally Enforceable Through Title V Permit
22. The permittee shall maintain a copy of all test results. The test results shall be dated and shall contain the name, address, and telephone number of the company responsible for system installation and testing. [District Rule 4622] Federally Enforceable Through Title V Permit
23. The permittee shall maintain on the premises a log of any repairs made to the certified Phase I or Phase II vapor recovery system. The repair log shall include the following: 1) date and time of each repair; 2) the name and applicable certification numbers of the person(s) who performed the repair, and if applicable, the name, address and phone number of the person's employer; 3) description of service performed; 4) each component that was repaired, serviced, or removed; 5) each component that was installed as replacement, if applicable; and 6) receipts or other documents for parts used in the repair and, if applicable, work orders which shall include the name and signature of the person responsible for performing the repairs. [District Rule 4622] Federally Enforceable Through Title V Permit
24. The O&M manual shall be kept at the dispensing operation and made available to any person who operates, inspects, maintains, repairs, or tests the equipment at the operation as well as to District personnel upon request. [District Rule 4622] Federally Enforceable Through Title V Permit
25. The permittee shall maintain monthly and annual gasoline throughput records. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
26. All records required by this permit shall be retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-2-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

130 HP CUMMINS MODEL #6BTA59F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP

## PERMIT UNIT REQUIREMENTS

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1. This engine shall be used exclusively for fire fighting purposes. [District Rule 4701] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [17 CCR 93115]
5. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rules 4701 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [17 CCR 93115]
8. If this engine is located on the grounds of a K-12 school, or if this engine is located within 500 feet of the property boundary of a K-12 school, the engine shall not be operated for non-emergency purposes, including maintenance and testing, between 7:30 a.m. and 3:30 p.m. on days when school is in session. [17 CCR 93115]
9. If this engine is located on the grounds of a K-12 school, the engine shall not be operated for non-emergency purposes, including maintenance and testing, whenever there is a school sponsored activity. [17 CCR 93115]
10. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4701 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-4-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

4,029 GALLON (POSTED 4,028 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F0002 WITH PRESSURE/VACUUM VALVE

## **PERMIT UNIT REQUIREMENTS**

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1. See Facility-wide requirements for conditions applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-5-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

3,438 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0004 WITH  
PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. See Facility-wide requirements for conditions applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-6-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

3,438 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0005 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. See Facility-wide requirements for conditions applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-7-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

8,151 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0008 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-8-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

22,413 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0021 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-9-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

20,243 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0022 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-10-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

20,243 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0023 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-11-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

20,243 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0024 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-12-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

20,243 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0025 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-13-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

13,000 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F00P1 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-14-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

13,000 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F00P2 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-15-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

13,000 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F00P3 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-16-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

13,000 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F00P4 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-17-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

18,890 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0181 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-18-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

18,890 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0182 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-19-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

18,890 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0183 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-20-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

18,890 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0184 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-21-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1001 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-22-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1002 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

---

1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-23-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1003 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-24-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1004 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-25-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1005 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

---

1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-26-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1006 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-27-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1011 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-28-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1012 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-29-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1013 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-30-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1014 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-31-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1015 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-32-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1016 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-33-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1017 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-34-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1018 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-35-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1022 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-36-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1023 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-37-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1024 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-38-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1025 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-39-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1026 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-40-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1027 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-41-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1028 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-42-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1029 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-43-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

200,326 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1991 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-44-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

200,487 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1992 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-45-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

200,487 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1993 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-46-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

200,487 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1994 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-47-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

216,191 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F2001 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-48-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

216,191 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F2002 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

---

1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-49-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

216,191 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F2003 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-50-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

216,191 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F2004 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-51-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F2010 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-52-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F2011 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-53-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F2012 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-54-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F2020 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-55-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F2021 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-56-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F2022 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-57-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3001 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-58-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3002 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-59-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3003 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-60-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3004 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-61-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3005 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-62-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3006 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-63-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3007 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-64-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3008 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-65-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3009 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-66-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3010 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-67-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3011 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-68-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3012 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-69-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3013 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-70-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3014 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-71-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3015 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-72-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3016 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-73-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3017 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-74-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3018 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-75-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3019 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-76-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3020 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-77-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3021 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-78-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3022 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-79-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3023 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-80-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3024 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-81-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3026 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-82-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3027 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-83-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3028 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-84-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3029 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-85-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3030 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-86-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3031 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-87-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3032 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-88-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3034 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-89-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3035 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-90-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3036 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-91-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3037 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-92-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3038 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-93-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3039 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-94-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3040 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-95-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3042 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-96-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3043 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-97-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3044 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-98-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3045 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-99-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE  
FERMENTATION/STORAGE TANK F3046 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-100-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE  
FERMENTATION/STORAGE TANK F9801 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-101-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9802 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-102-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9803 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-103-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9804 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-104-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9805 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-105-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9806 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-106-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE  
FERMENTATION/STORAGE TANK F9807 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-107-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9808 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-108-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9809 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-109-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9810 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-110-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9811 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-581-111-1

**EXPIRATION DATE:** 07/31/2015

**EQUIPMENT DESCRIPTION:**

98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE  
FERMENTATION/STORAGE TANK F9812 WITH PRESSURE/VACUUM VALVE

## PERMIT UNIT REQUIREMENTS

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1. When storing wine, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694, 5.2.1]
2. When this tank is used for storing wine, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rule 4694, 5.2.1]
3. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694, 5.2.2]
4. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions, and fermentation emission reductions. The information shall be recorded by the tank Permit To Operate number and by wine type, stated as either red wine or white wine. [District Rule 4694, 6.4.1]
5. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694, 6.4.2]

These terms and conditions are part of the Facility-wide Permit to Operate.



## **APPENDIX B**

### **Pre-Project Equipment Descriptions**

## Pre-Project Equipment Descriptions

C-1113010

C-581-	4	-1	4,029 GALLON (POSTED 4,028 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0002 WITH PRESSURE/VACUUM VALVE
C-581-	5	-1	3,438 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0004 WITH PRESSURE/VACUUM VALVE
C-581-	6	-1	3,438 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0005 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	7	-1	8,151 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0008 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	8	-1	22,413 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0021 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	9	-1	20,243 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0022 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	10	-1	20,243 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0023 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	11	-1	20,243 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0024 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	12	-1	20,243 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0025 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	13	-1	13,000 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F00P1 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	14	-1	13,000 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F00P2 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	15	-1	13,000 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F00P3 WITH PRESSURE/VACUUM VALVE AND INSULATION

- C-581- 16 -1 13,000 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F00P4 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 17 -1 18,890 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0181 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 18 -1 18,890 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0182 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 19 -1 18,890 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0183 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 20 -1 18,890 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0184 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 21 -1 105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1001 WITH PRESSURE/VACUUM VALVE
- C-581- 22 -1 105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1002 WITH PRESSURE/VACUUM VALVE
- C-581- 23 -1 105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1003 WITH PRESSURE/VACUUM VALVE
- C-581- 24 -1 105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1004 WITH PRESSURE/VACUUM VALVE
- C-581- 25 -1 105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1005 WITH PRESSURE/VACUUM VALVE
- C-581- 26 -1 105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1006 WITH PRESSURE/VACUUM VALVE
- C-581- 27 -1 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1011 WITH PRESSURE/VACUUM VALVE
- C-581- 28 -1 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1012 WITH PRESSURE/VACUUM VALVE

- C-581- 29 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1013 WITH  
PRESSURE/VACUUM VALVE
- C-581- 30 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1014 WITH  
PRESSURE/VACUUM VALVE
- C-581- 31 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1015 WITH  
PRESSURE/VACUUM VALVE
- C-581- 32 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1016 WITH  
PRESSURE/VACUUM VALVE
- C-581- 33 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1017 WITH  
PRESSURE/VACUUM VALVE
- C-581- 34 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1018 WITH  
PRESSURE/VACUUM VALVE
- C-581- 35 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1022 WITH  
PRESSURE/VACUUM VALVE
- C-581- 36 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1023 WITH  
PRESSURE/VACUUM VALVE
- C-581- 37 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1024 WITH  
PRESSURE/VACUUM VALVE
- C-581- 38 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1025 WITH  
PRESSURE/VACUUM VALVE

- C-581- 39 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1026 WITH  
PRESSURE/VACUUM VALVE
- C-581- 40 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1027 WITH  
PRESSURE/VACUUM VALVE
- C-581- 41 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1028 WITH  
PRESSURE/VACUUM VALVE
- C-581- 42 -1 105,690 GALLON (POSTED 106,241 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1029 WITH  
PRESSURE/VACUUM VALVE
- C-581- 43 -1 200,326 GALLON (POSTED 200,486 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1991 WITH  
PRESSURE/VACUUM VALVE
- C-581- 44 -1 200,326 GALLON (POSTED 200,486 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1992 WITH  
PRESSURE/VACUUM VALVE
- C-581- 45 -1 200,326 GALLON (POSTED 200,486 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1993 WITH  
PRESSURE/VACUUM VALVE
- C-581- 46 -1 200,326 GALLON (POSTED 200,486 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F1994 WITH  
PRESSURE/VACUUM VALVE
- C-581- 47 -1 216,191 GALLON STAINLESS STEEL ENCLOSED TOP  
WHITE WINE FERMENTATION/STORAGE TANK F2001  
WITH PRESSURE/VACUUM VALVE
- C-581- 48 -1 216,191 GALLON STAINLESS STEEL ENCLOSED TOP  
WHITE WINE FERMENTATION/STORAGE TANK F2002  
WITH PRESSURE/VACUUM VALVE
- C-581- 49 -1 216,191 GALLON STAINLESS STEEL ENCLOSED TOP  
WHITE WINE FERMENTATION/STORAGE TANK F2003  
WITH PRESSURE/VACUUM VALVE

C-581- 50 -1 216,191 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F2004 WITH PRESSURE/VACUUM VALVE

C-581- 51 -1 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F2010 WITH PRESSURE/VACUUM VALVE

C-581- 52 -1 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F2011 WITH PRESSURE/VACUUM VALVE

C-581- 53 -1 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F2012 WITH PRESSURE/VACUUM VALVE

C-581- 54 -1 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F2020 WITH PRESSURE/VACUUM VALVE

C-581- 55 -1 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F2021 WITH PRESSURE/VACUUM VALVE

C-581- 56 -1 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F2022 WITH PRESSURE/VACUUM VALVE

C-581- 57 -1 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3001 WITH PRESSURE/VACUUM VALVE

C-581- 58 -1 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3002 WITH PRESSURE/VACUUM VALVE

C-581- 59 -1 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3003 WITH PRESSURE/VACUUM VALVE

- C-581- 60 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3004 WITH  
PRESSURE/VACUUM VALVE
- C-581- 61 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3005 WITH  
PRESSURE/VACUUM VALVE
- C-581- 62 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3006 WITH  
PRESSURE/VACUUM VALVE
- C-581- 63 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3007 WITH  
PRESSURE/VACUUM VALVE
- C-581- 64 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3008 WITH  
PRESSURE/VACUUM VALVE
- C-581- 65 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3009 WITH  
PRESSURE/VACUUM VALVE
- C-581- 66 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3010 WITH  
PRESSURE/VACUUM VALVE
- C-581- 67 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3011 WITH  
PRESSURE/VACUUM VALVE
- C-581- 68 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3012 WITH  
PRESSURE/VACUUM VALVE
- C-581- 69 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3013 WITH  
PRESSURE/VACUUM VALVE

- C-581- 70 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3014 WITH  
PRESSURE/VACUUM VALVE
- C-581- 71 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3015 WITH  
PRESSURE/VACUUM VALVE
- C-581- 72 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3016 WITH  
PRESSURE/VACUUM VALVE
- C-581- 73 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3017 WITH  
PRESSURE/VACUUM VALVE
- C-581- 74 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3018 WITH  
PRESSURE/VACUUM VALVE
- C-581- 75 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3019 WITH  
PRESSURE/VACUUM VALVE
- C-581- 76 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3020 WITH  
PRESSURE/VACUUM VALVE
- C-581- 77 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3021 WITH  
PRESSURE/VACUUM VALVE
- C-581- 78 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3022 WITH  
PRESSURE/VACUUM VALVE
- C-581- 79 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3023 WITH  
PRESSURE/VACUUM VALVE



- C-581- 80 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3024 WITH  
PRESSURE/VACUUM VALVE
- C-581- 81 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3026 WITH  
PRESSURE/VACUUM VALVE
- C-581- 82 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3027 WITH  
PRESSURE/VACUUM VALVE
- C-581- 83 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3028 WITH  
PRESSURE/VACUUM VALVE
- C-581- 84 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3029 WITH  
PRESSURE/VACUUM VALVE
- C-581- 85 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3030 WITH  
PRESSURE/VACUUM VALVE
- C-581- 86 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3031 WITH  
PRESSURE/VACUUM VALVE
- C-581- 87 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3032 WITH  
PRESSURE/VACUUM VALVE
- C-581- 88 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3034 WITH  
PRESSURE/VACUUM VALVE
- C-581- 89 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3035 WITH  
PRESSURE/VACUUM VALVE

- C-581- 90 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3036 WITH  
PRESSURE/VACUUM VALVE
- C-581- 91 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3037 WITH  
PRESSURE/VACUUM VALVE
- C-581- 92 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3038 WITH  
PRESSURE/VACUUM VALVE
- C-581- 93 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3039 WITH  
PRESSURE/VACUUM VALVE
- C-581- 94 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3040 WITH  
PRESSURE/VACUUM VALVE
- C-581- 95 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3042 WITH  
PRESSURE/VACUUM VALVE
- C-581- 96 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3043 WITH  
PRESSURE/VACUUM VALVE
- C-581- 97 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3044 WITH  
PRESSURE/VACUUM VALVE
- C-581- 98 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3045 WITH  
PRESSURE/VACUUM VALVE
- C-581- 99 -1 348,949 GALLON (POSTED 348,928 GALLON)  
STAINLESS STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F3046 WITH  
PRESSURE/VACUUM VALVE

- C-581- 100 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9801 WITH  
PRESSURE/VACUUM VALVE
- C-581- 101 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9802 WITH  
PRESSURE/VACUUM VALVE
- C-581- 102 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9803 WITH  
PRESSURE/VACUUM VALVE
- C-581- 103 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9804 WITH  
PRESSURE/VACUUM VALVE
- C-581- 104 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9805 WITH  
PRESSURE/VACUUM VALVE
- C-581- 105 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9806 WITH  
PRESSURE/VACUUM VALVE
- C-581- 106 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9807 WITH  
PRESSURE/VACUUM VALVE
- C-581- 107 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9808 WITH  
PRESSURE/VACUUM VALVE
- C-581- 108 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9809 WITH  
PRESSURE/VACUUM VALVE
- C-581- 109 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9810 WITH  
PRESSURE/VACUUM VALVE

- C-581- 110 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9811 WITH  
PRESSURE/VACUUM VALVE
- C-581- 111 -1 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS  
STEEL ENCLOSED TOP WHITE WINE  
FERMENTATION/STORAGE TANK F9812 WITH  
PRESSURE/VACUUM VALVE

## **APPENDIX C**

### **Post-Project Equipment Descriptions**

## Post-Project Equipment Descriptions

C-1113010

C-581-	4	-2	4,029 GALLON (POSTED 4,028 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0002 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	5	-2	3,438 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0004 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	6	-2	3,438 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0005 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	7	-2	8,151 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0008 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	8	-2	22,413 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0021 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	9	-2	20,243 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0022 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	10	-2	20,243 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0023 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	11	-2	20,243 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0024 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	12	-2	20,243 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0025 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	13	-2	13,000 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION TANK F00P1
C-581-	14	-2	13,000 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION TANK F00P2
C-581-	15	-2	13,000 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION TANK F00P3

C-581-	16	-2	13,000 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION TANK F00P4
C-581-	17	-2	18,890 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0181 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	18	-2	18,890 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0182 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	19	-2	18,890 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0183 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	20	-2	18,890 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F0184 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	21	-2	105,690 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1001 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	22	-2	105,690 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1002 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	23	-2	105,690 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1003 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	24	-2	105,690 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1004 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	25	-2	105,690 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1005 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	26	-2	105,690 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1006 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	27	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1011 WITH PRESSURE/VACUUM VALVE
C-581-	28	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1012 WITH PRESSURE/VACUUM VALVE

C-581-	29	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1013 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	30	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1014 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	31	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1015 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	32	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1016 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	33	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1017 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	34	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1018 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	35	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1022 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	36	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1023 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	37	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1024 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	38	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1025 WITH PRESSURE/VACUUM VALVE AND INSULATION



C-581-	39	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1026 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	40	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1027 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	41	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1028 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	42	-2	105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1029 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	43	-2	200,326 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1991 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	44	-2	200,326 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1992 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	45	-2	200,326 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1993 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	46	-2	200,326 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F1994 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	47	-2	216,191 GALLON STAINLESS STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F2001 WITH PRESSURE/VACUUM VALVE AND INSULATION AND INSULATION
C-581-	48	-2	216,191 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F2002 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	49	-2	216,191 GALLON STAINLESS STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F2003 WITH PRESSURE/VACUUM VALVE AND INSULATION

C-581-	50	-2	216,191 GALLON STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F2004 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	51	-2	216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F2010 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	52	-2	216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F2011 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	53	-2	216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F2012 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	54	-2	216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F2020 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	55	-2	216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F2021 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	56	-2	216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F2022 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	57	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3001 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	58	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3002 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	59	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3003 WITH PRESSURE/VACUUM VALVE AND INSULATION

C-581-	60	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3004 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	61	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3005 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	62	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3006 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	63	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3007 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	64	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3008 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	65	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3009 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	66	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE F3010 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	67	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3011 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	68	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3012 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	69	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3013 WITH PRESSURE/VACUUM VALVE AND INSULATION

C-581-	70	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3014 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	71	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3015 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	72	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3016 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	73	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3017 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	74	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3018 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	75	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3019 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	76	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3020 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	77	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3021 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	78	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3022 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	79	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3023 WITH PRESSURE/VACUUM VALVE AND INSULATION

C-581-	80	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3024 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	81	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3026 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	82	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3027 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	83	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3028 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	84	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3029 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	85	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3030 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	86	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3031 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	87	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3032 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	88	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3034 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	89	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3035 WITH PRESSURE/VACUUM VALVE AND INSULATION

C-581-	90	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3036 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	91	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3037 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	92	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3038 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	93	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3039 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	94	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3040 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	95	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3042 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	96	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3043 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	97	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3044 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	98	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3045 WITH PRESSURE/VACUUM VALVE AND INSULATION
C-581-	99	-2	348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F3046 WITH PRESSURE/VACUUM VALVE AND INSULATION

- C-581- 100 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9801 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 101 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9802 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 102 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9803 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 103 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9804 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 104 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9805 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 105 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9806 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 106 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9807 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 107 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9808 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 108 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9809 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 109 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9810 WITH PRESSURE/VACUUM VALVE AND INSULATION

- C-581- 110 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9811 WITH PRESSURE/VACUUM VALVE AND INSULATION
- C-581- 111 -2 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL RED/WHITE WINE FERMENTATION/STORAGE TANK F9812 WITH PRESSURE/VACUUM VALVE AND INSULATION



## **APPENDIX D**

**District FYI-114**

**VOC Emission Factors for Wine Fermentation and Storage Tanks**

**SAN JOAQUIN VALLEY UNIFIED  
AIR POLLUTION CONTROL DISTRICT**

**DATE:** March 8, 2007 (Revised 09/14/09) (Revised 8/10/11)  
**TO:** Permit Services Staff  
**FROM:** Dennis Roberts  
**SUBJECT:** VOC Emission Factors for Wine Fermentation and Storage Tanks

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Winery tank operations generally consist of two separate emissions units; 1) fermentation and 2) storage of wine and spirits. Any particular tank may be permitted to perform one or both of these operations. The emissions from each emission unit are appropriately combined to yield the Potential to Emit for the tank (permit unit).

Emissions from fermentation operations are estimated using emission factors which have been developed based on a recognized fermentation model and are presented herein. For wine storage operations, emissions can be determined in general by modeling the storage tank operation using the EPA's Tanks 4.0 software (modeling procedures and an ethanol/water data base have been established as described in FYI-XXX, *Modeling Emissions from Wine Storage Tanks*). However, the majority of wine storage tanks located in the District are insulated storage tanks which do not have a requirement for refrigeration (ambient storage temperature). For this classification of tank the storage emission factor, as calculated by the Tanks 4.0 model, is a function of ethanol content only. For this case the tabular emission factors presented herein are applicable (note that storage tanks which are un-insulated and/or which have NSR limits on the tank operating temperature should be estimated by the emissions modeling per FYI-XXX).

### Wine Storage Tanks

Wine storage tanks perform two functions in the winery:

- Facilitation of post-fermentation processing operations such as racking, filtration, malolactic fermentation and bottling. In this role, the typical storage tank is filled and emptied several times per year with the wine being transferred from tank to tank. Many of these operations occur prior to chilling of the wine. Emissions from such operations are "working losses" which occur as a result of the displacement of the vapor space of the tank into the atmosphere during the filling operations. For insulated tanks (or tanks installed in a climate-controlled building), working losses are a function only of the ethanol content, the ambient temperature and the tank throughput.
- Static storage of wine between processing operations up to the final operation of bottling. In this operation, a common objective is to avoid oxidation of the wine by both minimizing the wine temperature and the exposure of the wine to air. In such cases, the wine may be maintained at a temperature below ambient, often in the range of 35-40 °F, however, since the tank cannot be always maintained at this temperature due to processing considerations, the lower temperatures are not an NSR condition on the permit. Also, the tanks are typically maintained at as high a liquid level as possible to minimize contact with oxygen. Emissions from static storage are

“breathing losses” which are the result of diurnal heating and cooling caused by the effect of daily variations in atmospheric conditions on the contents of the tank. For a well-insulated tank, equipped with a pressure/vacuum relief valve per the requirements of District Rule 4694, breathing losses are considered to be negligible since the insulation serves to maintain a relatively uniform temperature inside the tank while the pressure/vacuum valve serves to contain small internal variations, preventing escape of vapor to the atmosphere.

Table 1 presents emission factors for wine and spirits storage in ambient temperature tanks (non-refrigerated), equipped with insulation and/or located in a climate-controlled building. The tabular values have been developed using the District’s emissions modeling procedure for wine and spirits tanks (see FYI-XXX). As shown, different emission factors are presented for tanks located in the three different regions of the District based upon higher ambient temperatures in the southern part of the Central Valley. All factors represent working losses only since breathing losses are considered negligible as discussed above. Emission factors for concentrations not listed in Table 1 should be interpolated from the table.

**Table 1: Emission Factors for Wine and Spirits Storage Tanks by Region in the San Joaquin Valley  
lb-VOC per 1,000 gallons of throughput**

Applicability:	1. Vertical Fixed-Roof tank, insulated or located in climate-controlled building 2. Ambient temperature storage					
	Southern Region		Central Region		Northern Region	
Vol %	Annual	Daily	Annual	Daily	Annual	Daily
2	0.017	0.029	0.016	0.027	0.015	0.024
4	0.037	0.062	0.035	0.057	0.033	0.051
6	0.059	0.099	0.055	0.092	0.052	0.081
8	0.084	0.141	0.078	0.130	0.074	0.116
10	0.111	0.187	0.104	0.173	0.098	0.154
12	0.141	0.239	0.132	0.221	0.124	0.196
14	0.161	0.273	0.150	0.252	0.142	0.223
16	0.180	0.302	0.167	0.280	0.158	0.248
18	0.199	0.334	0.186	0.310	0.175	0.275
20	0.220	0.368	0.205	0.341	0.194	0.303
22	0.243	0.404	0.226	0.375	0.213	0.333
24	0.267	0.443	0.249	0.412	0.235	0.366
26	0.283	0.470	0.264	0.436	0.250	0.388
28	0.298	0.494	0.278	0.458	0.262	0.408
30	0.313	0.518	0.292	0.481	0.276	0.428
32	0.329	0.544	0.308	0.506	0.290	0.450
34	0.346	0.572	0.324	0.531	0.306	0.473
36	0.365	0.600	0.341	0.559	0.322	0.498
38	0.377	0.620	0.353	0.577	0.333	0.514
40	0.389	0.640	0.364	0.595	0.344	0.530
42	0.403	0.660	0.376	0.614	0.356	0.546
44	0.416	0.681	0.390	0.634	0.368	0.565
46	0.431	0.703	0.403	0.655	0.381	0.584
48	0.445	0.724	0.416	0.674	0.394	0.602
50	0.455	0.738	0.426	0.688	0.403	0.615
52	0.465	0.754	0.436	0.703	0.412	0.628
54	0.476	0.770	0.446	0.718	0.422	0.642
56	0.488	0.788	0.457	0.734	0.433	0.657
58	0.500	0.805	0.469	0.751	0.444	0.673
60	0.509	0.818	0.477	0.764	0.452	0.684
62	0.517	0.832	0.485	0.777	0.459	0.695
64	0.527	0.847	0.494	0.790	0.467	0.708
66	0.536	0.863	0.503	0.805	0.476	0.721
68	0.546	0.879	0.512	0.820	0.485	0.735
70	0.556	0.896	0.521	0.836	0.494	0.748
72	0.567	0.914	0.531	0.853	0.503	0.763
74	0.578	0.933	0.542	0.871	0.513	0.779
76	0.590	0.954	0.553	0.890	0.524	0.796
78	0.604	0.976	0.565	0.910	0.535	0.814
80	0.618	1.000	0.580	0.932	0.548	0.833
82	0.634	1.025	0.593	0.955	0.562	0.855
84	0.650	1.052	0.609	0.981	0.577	0.877
86	0.669	1.083	0.627	1.010	0.594	0.903
88	0.692	1.120	0.648	1.044	0.613	0.934
90	0.716	1.161	0.671	1.082	0.635	0.967
92	0.743	1.206	0.696	1.124	0.659	1.004
94	0.778	1.261	0.728	1.175	0.689	1.050
96	0.830	1.339	0.773	1.249	0.737	1.118
98	0.879	1.409	0.824	1.315	0.781	1.179
100	0.945	1.534	0.880	1.437	0.832	1.278

For purposes of calculating actual annual emissions, the annual data in Table 1 have been curve-fitted based on an equation of the form  $E_f = ap^2 + bp + c$ , where  $p$  = vol% ethanol. The constants for the equation are as follows:

<b>Constants for Emission Factor Correlation</b>			
$E_f = ap^2 + bp + c$			
$p$ = volume percentage ethanol			
<b>Southern Region</b>			
Concentration Range	a	b	c
0 to 24%	0	-5.2083E-5	0.012375
>24 to 66%	0.023852	0.011318	0
>66% to 92%	1.68831	-1.91333	1.06815
>92% to 100%	10.5357	-17.7036	8.11229
<b>Central Region</b>			
Concentration Range	a	b	c
0 to 24%	0	-5.2083E-5	0.011625
>24 to 66%	0.021334	0.01589	0
>66% to 92%	1.60589	-1.83207	1.016774
>92% to 100%	9.64286	-16.1943	7.43214
<b>Northern Region</b>			
Concentration Range	a	b	c
0 to 24%	0	-4.5139E-5	0.010880
>24 to 66%	0.019146	0.010029	0
>66% to 92%	1.52535	-1.74484	0.967767
>92% to 100%	6.78571	-10.83857	4.88549

The mathematical correlation for concentrations up to 24% provides a slightly conservative estimate of the emission factor relative to the data in Table 1 based on smoothing the impact of the linear interpolation process employed in development of the ethanol/water data base used for modeling wine tank emissions in EPA Tanks 4.0. Mathematical correlations for concentrations greater than 24% are based on a least square analysis of the data in Table 1.

Use of Table I and correlations to estimate emissions insulated wine storage tank subject to ambient temperature is demonstrated by the following examples:

**Example 1 (wine storage tank with daily and annual throughput limits and maximum ethanol content)** – estimate the potential to emit for an insulated 100,000 gallon nominal capacity steel storage tank to store wine with maximum concentration of 14 vol% ethanol. Maximum daily throughput is one tank turn or 100,000 gallons/day. Maximum annual throughput will be 600,000 gallons per year. The tank will be installed in a facility located in the Southern Region.

For a storage tank located in the Southern Region and handling up to 14% ethanol, the annual emission factor is 0.161 lb-VOC/1000 gallons throughput and the daily emission factor is 0.273 lb-VOC/1000 gallons throughput.

$$\text{Daily PE} = 100,000 \text{ gallons/day} \times 0.273 \text{ lb-VOC/1000 gallons} = 27.3 \text{ lb-VOC/day}$$

$$\text{Annual PE} = 600,000 \text{ gallons/year} \times 0.161 \text{ lb-VOC/1000 gallons} = 97 \text{ lb-VOC/year}$$

DEL conditions for this example would be:

- *Ethanol content of wine in this tank shall not exceed 14.0 percent by volume. [District Rule 2201]*
- *Tank throughput shall not exceed either of the following limits: 100,000 gallons in any one day or 600,000 gallons per year. [District Rule 2201]*

Example 2 (wine and spirits storage tank subject to a daily throughput limit and an SLC limit on annual emissions) – estimate the potential to emit for an insulated 100,000 gallon nominal capacity steel storage tank to store spirits with maximum concentration of 80 vol% ethanol. Maximum allowed annual emissions for the tanks in the SLC are 10,000 lb/year. Maximum daily throughput is one tank turn or 100,000 gallons/day. The tank will be installed in a facility located in the Northern Region.

For a storage tank located in the Northern Region and handling up to 80% ethanol, the daily emission factor is 0.833 lb-VOC/1000 gallons throughput. Since the annual emissions are constrained by the SLC, an annual emission factor is not needed for the PE calculation but will be placed on the permit for purposes of demonstrating annual compliance on an ongoing basis. Since the ethanol concentration can vary from 0% to 80%, two separate correlation equations are required to cover the potential range:

$$\text{For concentration } p = 0 - 24\%: \quad E_f = ap^2 + bp + c$$

$$\begin{aligned} a &= -5.2083E-5 \\ b &= 0.012375 \\ c &= 0 \end{aligned}$$

$$\text{For concentration } p = 24\% < p < 66\%: \quad E_f = ap^2 + bp + c$$

$$\begin{aligned} a &= 0.023852 \\ b &= 0.011318 \\ c &= 0 \end{aligned}$$

$$\text{For concentration } p = 66\% < p < 80\%: \quad E_f = ap^2 + bp + c$$

$$\begin{aligned} a &= 1.52535 \\ b &= -1.74484 \\ c &= 0.967767 \end{aligned}$$

Daily PE = 100,000 gallons/day x 0.883 lb-VOC/1000 gallons = 88.3 lb-VOC/day

DEL conditions for this example would be:

- *Ethanol content of wine or spirits in this tank shall not exceed 80.0 percent by volume. [District Rule 2201]*
- *Tank throughput shall not exceed 100,000 gallons in any one day. [District Rule 2201]*
- *Combined annual VOC emissions from all wine storage operations under permit units X-XXXX-XXX through X-XXXX-XXX shall not exceed 10,000 pounds per year. [District Rule 2201]*
- *Combined annual VOC emissions from wine storage operations under permit units X-XXXX-XXX through X-XXXX-XXX shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]*
- *The annual VOC wine storage emission factor for each wine or spirits ethanol content shall be calculated using the following equation:  $EF = a * P^2 + b * P + c$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. For concentrations up to and including 24 volume %,  $a = -5.2083E-5$ ,  $b = 0.012375$  and  $c = 0$ . For concentrations greater than 24 volume % up to and including 66 volume%,  $a = 0.023852$ ,  $b = 0.011318$  and  $c = 0$ . For concentrations greater than 66 volume % up to and including 80 volume %,  $a = 1.52535$ ,  $b = -1.74484$  and  $c = 0.967767$ . [District Rule 2201]*

## **Wine Fermentation Tanks**

During the wine fermentation process, sugar in the grape juice reacts with yeast to form alcohol (ethanol) and carbon dioxide (CO<sub>2</sub>) gas. Ethanol is emitted into the atmosphere through evaporation. According to Williams and Boulton<sup>1</sup>, the only important mechanism for ethanol loss is equilibrium evaporation into the escaping CO<sub>2</sub> stream. The physical entrainment of ethanol droplets in the CO<sub>2</sub> gas is insignificant in modern enclosed fermentation vessels. These researchers' model indicates that as fermentation temperature increases, ethanol loss increases exponentially. Since red wines are fermented at significantly higher temperatures than white wine, a different emission factor is required for each case.

### Annual Fermentation Emission Factors

The California Air Resources Board (CARB) has established annual emission factors for fermentation of both red and white wines, based on the computer model developed by Williams and Boulton. The emission factors were developed for purposes of emission

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<sup>1</sup> L.A. Williams and R. Boulton, Modeling and Prediction of Evaporative Ethanol Loss During Wine Fermentation, American Journal of Enology and Viticulture, 32:234-242, (1983).

inventory estimation and represent a typical wine fermentation operation based on average fermentation temperatures and average initial sugar concentrations (°Brix) and are presented in Emissions Inventory Procedural Manual, Section 5.1, Air Resources Board, 1997. These factors have been adopted by the District in Rule 4694, *Wine Fermentation and Storage Tanks*. The established factors are as follows:

Red Wine Fermentation: 6.2 lb-VOC/1000 gallons fermented per year  
(78 °F fermentation temperature, 21.8 °Brix)

White Wine Fermentation: 2.5 lb-VOC/1000 gallons fermented per year  
(58 °F fermentation temperature, 20.4 °Brix)

#### Daily Fermentation Emission Factors

The District has developed factors for daily Potential to Emit using the previously-referenced research by Williams and Boulton (see Appendix A). To ensure the factors represent true Potential to Emit, the daily emission factors were developed based on typical maximum fermentation temperatures and starting sugar concentrations rather than average values:

Red Wine Fermentation: 3.46 lb-VOC/1000 gallons tank capacity per day  
(85 °F fermentation temperature, 22.5 °Brix)

White Wine Fermentation: 1.62 lb-VOC/1000 gallons tank capacity per day  
(70 °F fermentation temperature, 22.5 °Brix)

Example 3 (fermentation tank) - estimate the daily and annual potential to emit for a 200,000 gallon nominal capacity fermentation tank to exclusively ferment red wine. Maximum fermentation throughput will be 900,000 gallons red wine per year. The tank will not be used for storage.

Daily  $PE_{\text{fermentation}}$  = 3.46 lb-VOC/day per 1000 gallons nominal tank capacity x 200 Mgal nominal

Daily  $PE_{\text{fermentation}}$  = 692.1 lb/day

Daily PE = Daily  $PE_{\text{fermentation}}$  = 692.1 lb/day

Annual PE = 6.2 lb-VOC per 1000 gallons fermented x 900 Mgal/year = 5,580 lb-VOC/yr

Example 5 (fermentation and storage tank) - estimate the daily and annual potential to emit for a 100,000 gallon nominal capacity fermentation tank to ferment red wine. Maximum fermentation throughput will be 450,000 gallons red wine per year. The tank will also be used for storage identical with example 1:

In this case,

Daily PE = the larger of either Daily  $PE_{\text{fermentation}}$  or Daily  $PE_{\text{storage}}$

And.



FYI-114

$$\text{Annual PE} = \text{Annual PE}_{\text{fermentation}} + \text{Annual PE}_{\text{storage}}$$

Calculating the Daily PE:

$$\text{Daily PE}_{\text{fermentation}} = 3.46 \text{ lb-VOC/day per 1000 gallons nominal tank capacity} \times 100 \text{ Mgal nominal}$$

$$\text{Daily PE}_{\text{fermentation}} = 346.0 \text{ lb-VOC/day}$$

From example 1,

$$\text{Daily PE}_{\text{storage}} = 27.3 \text{ lb-VOC/day}$$

Therefore,

$$\text{Daily PE} = 346.0 \text{ lb/day}$$

Calculating the Annual PE:

$$\text{Annual PE}_{\text{fermentation}} = 6.2 \text{ lb-VOC per 1000 gallons fermented} \times 450 \text{ Mgal/year} = 2,790 \text{ lb-VOC/yr}$$

From example 1,

$$\text{Annual PE}_{\text{storage}} = 97 \text{ lb-VOC/year}$$

Therefore,

$$\text{Annual PE} = 2,790 + 97 = 2,887 \text{ lb/year}$$

## **Appendix A**

### **Daily Emission Factor for Wine Fermentation**

## Appendix A

The emission factor for daily PE is based on the following:

- Estimation of maximum daily fermentation emissions is based on Figure 7 from the Williams and Boulton work referenced in the body of this document.
- Maximum red wine fermentation temperature is assumed to be 85 °F.
- Maximum white wine fermentation temperature is assumed to be 70 °F.
- Maximum working capacity of a red wine fermenter is 80% of tank maximum capacity.
- Maximum working capacity of a white wine fermenter is 95% of tank maximum capacity.

Figure 7 from Williams and Boulton indicates the ethanol emission rate (mg per hour per liter of wine) versus time for various fermentation temperatures. The total emissions in mg per liter of wine for any time period is the area under the curve. Thus, for any given temperature, figure 7 can be graphically integrated over the 24 hour period during which maximum emissions occur. A copy of figure 7 is attached which indicates the integration interval for red wine (85 °F) and for white wine (70 °F). Results of integration of Figure 7 are presented in the following table:

<b>Graphical Integration Results to Determine Daily Fermentation Emission Factor from Figure 7 of Williams and Boulton</b>		
	Red Wine	White Wine
Maximum 24 hour Emissions (mg/liter of wine per day)	518.6	203.9
Maximum 24 hour Emissions (1b/1000 gallons of wine per day)	4.33	1.70
Maximum Batch Size (% of Tank Capacity)	80%	95%
Daily Emission Factor (lb/1000 gallons tank capacity per day)	3.46	1.62

## Appendix A

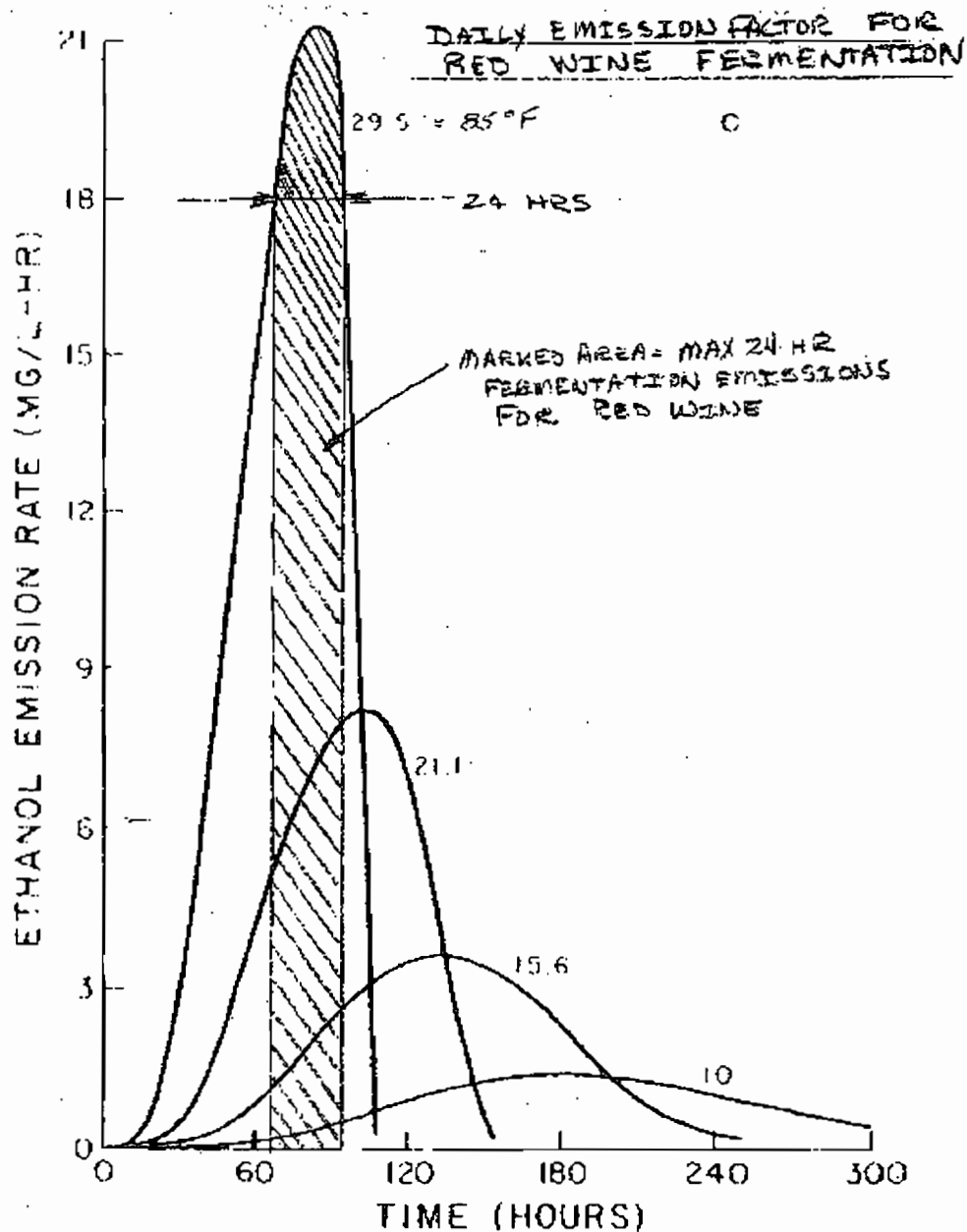


Fig. 7. The influence of fermentation temperature on a) the fermentation rate, b) the vapor phase ethanol concentration, and c) the rate of ethanol emission. (Initial sugar content of 22.5°Brix, isothermal fermentation at indicated temperature.)

## Appendix A

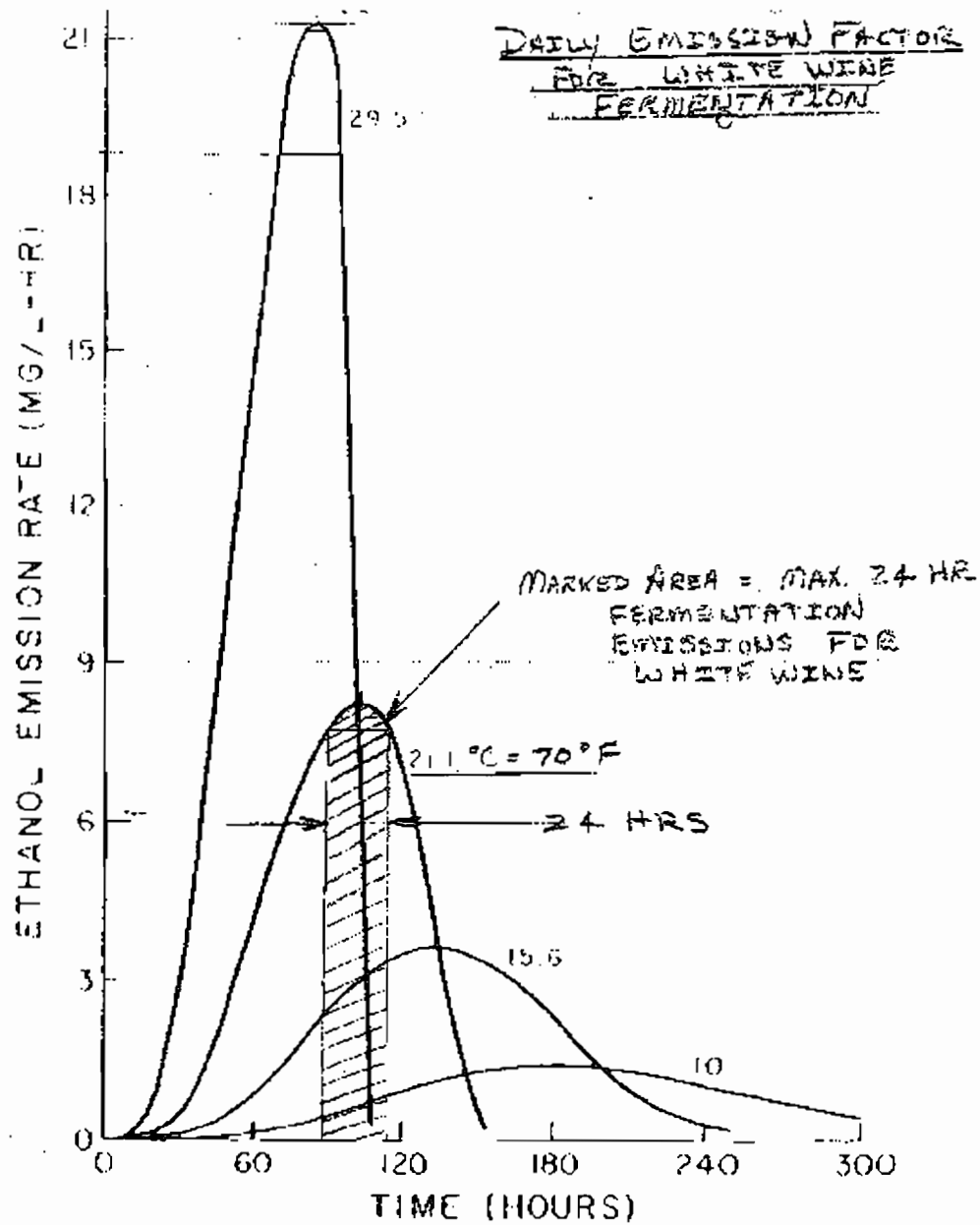


Fig. 7. The influence of fermentation temperature on a) the fermentation rate, b) the vapor phase ethanol concentration, and c) the rate of ethanol emission. (Initial sugar content of 22.5°Brix, isothermal fermentation at indicated temperature.)

## **APPENDIX E**

**District FYI-296**

**Calculation of the Potential to Emit for VOC Emissions from Wine  
Fermentation and Storage Operations**

**SAN JOAQUIN VALLEY UNIFIED  
AIR POLLUTION CONTROL DISTRICT**

**DATE:** June 30, 2009 (Revised August 15, 2011)  
**TO:** Permit Services Division Staff  
**FROM:** Dennis Roberts  
**SUBJECT:** Calculation of the Potential to Emit for VOC Emissions from Wine Fermentation and Storage Operations

**Purpose**

The purpose of this policy is to establish a framework for calculating the collective Potential to Emit for VOCs from wine fermentation and storage tanks which have been previously permitted by in-house Permits to Operate based on loss-of-exemption. Such calculation is primarily performed for purposes of establishing the collective Pre-Project Potential to Emit (PE1) to form the basis for a Specific Limiting Condition (SLC) on all wine tanks at a facility which limits PE2 = PE1.

**Applicability**

This policy applies to all wine fermentation and storage operations.

**Background**

The District began issuing permits for wine fermentation and storage tanks on August 21, 2005. In-house PTO's were issued for existing tanks based on a loss or exemption and therefore the tank permits were not subject to New Source Review. In-house PTO's do not contain emission limits such as they would have if subjected to New Source Review (NSR).

Due to changing consumer tastes, the wine industry in the San Joaquin Valley is changing from the production of wines typically made in large tanks to the production of wine in smaller tanks, using smaller batches of select grapes and smaller fermentation batch sizes, with the objective of producing higher quality wines. To produce the same volume of wine in this manner requires more tanks. Permitting of additional new wine fermentation and storage tanks could require the purchase of emissions offsets, even in those cases when a winery is just changing to smaller lot production and overall production is not increasing. Where all tanks meet the requirements for Best Available Control Technology (BACT), a potential permitting approach for adding tanks to a facility, for purposes of product flexibility and without triggering offsets, is to establish an SLC on all the tanks which limits the collective annual PE2 to the calculated collective PE1 for all the existing tanks. Since all units meet BACT, Baseline Emissions (BE) are equal to PE1 and calculated offsets are thus zero pursuant to Rule 2201.

The tanks at a winery are highly interdependent in operation and in the absence of a pre-established permit limit they cannot be considered as independent emissions units. By their nature, the various tank operations which convert crushed grapes into finished wine (fermentation, pressing, racking, filtration, etc.) cannot be all conducted in a single tank. In addition, other associated equipment such as that required for crushing and pressing may serve to limit wine production by the facility. Therefore, a calculation of the PE for wine tanks requires that the tanks be considered in terms of a collective wine production capacity and that other production bottlenecks such as crushing and pressing limitations also be considered. This document provides a theoretical basis and methodology for performing such a calculation.

### **Wine Production Process Description**

- The VOC emissions associated with winemaking are produced from two separate operations:
  1. Wine Fermentation (a chemical reaction process which converts sugar into ethanol)
  2. Storage Tank Operations during which post-fermentation operations such as racking, cold stabilization, filtration, etc., are conducted as well as static storage of wine prior to blending or bottling.

Typically, most tanks in a winery are used for both purposes; thus a wine tank commonly consists of two separate emissions units.

- A general process description for wine production is given in U.S. EPA AP-42 Section 9.12.2. There are many variations to the basic process that reflect the individuality of the winemaking and which may be considered proprietary at most facilities. Some additions to the AP-42 description: White wines are fermented without the grape solids, which minimizes the amount of solids settling out in the fermentation tank, allowing white wine to potentially be fermented in any wine tank.
- Red wine is generally fermented with the grape solids which give the red color and other distinctive characteristics to the wine. Because of the solids settling out with red wine fermentation, specialized red wine fermentation tanks with sloped bottoms or constructed as a horizontal rotating drums are generally used to ease solids removal during tank cleaning.
- The tanks in a winery are highly interdependent in operation and therefore must be considered in terms of the collective production capacity. The fermentation capacity of a facility is not only a function of the capacity of the tanks actually performing fermentation but is also a function of the downstream storage tank capacity which may serve to bottleneck the upstream fermentation operation. The wine production process flow diagram in U.S. EPA AP-42 Figure 9.12.2.-1 is illustrative. Post fermentation operations such as cold stabilization, filtration, malolactic fermentation, etc., have historically required a post fermentation residence time in storage tanks of 40 days or less.



- The facility's grape crushing/destemming and pressing equipment may establish a bottleneck for the overall operation, establishing the PE by limiting daily throughput of the facility or of individual fermentation tanks.
- Wine production in the San Joaquin Valley is a seasonal event, coinciding with the grape harvest season ("crush season"). Wine production typically occurs in the months of August through December. Fermentation is at its peak during September through October; most wine fermentation occurs within those months in the San Joaquin Valley.

### **Basis and Assumptions for PE Calculation**

- Since the annual emissions from a winery operation are proportional to the annual wine production, the basic approach for calculating the PE for a winery operation is to determine the limiting factor for wine production at the facility and base the calculation on this factor. The following items are considered in determination of the actual "bottleneck" to wine production at a facility:

Grape Crushing/Destemming Capacity: Daily production is limited by the facility's capacity to receive and crush grapes. This capacity is established by the manufacturer's rated crushing capacity in tons per hour for the crushing equipment actually located at the facility.

Wine Pressing Capacity: Following crushing, the grape skins must be separated from the wine in the presses. For white wines, this occurs immediately after crushing. For red wines, pressing is performed after the fermentation step. This capacity is established by the manufacturer's rated pressing capacity in tons per hour for the pressing equipment actually located at the facility.

Winery Tank Capacity: Due to the highly inter-related operation of winery tanks, the collective production capacity of winery tankage, in terms of a required collective "minimum residence time" for wine processing, is the basis for the calculation rather than a consideration of the sum of individual theoretical production capacities for each tank. The capacity of the available tankage to produce both red and white wines is considered separately and the scenario which produces the highest potential emissions is considered to be the facility's basis for calculating the PE based on storage tanks limitations.

- The crushing of one ton of grapes is assumed to produce 200 gallons of produced wine based on data provided by The Wine Institute.
- Batch fermentation processing is assumed to require a 5 day turnaround for a red wine fermentation tank and a 10 day turnaround for white wine, i.e., a red wine fermenter can produce a batch every 5 days while a white wine fermenter can produce a batch every 10 days. These durations were previously established as a result of information provided by the Wine Institute during development of District Rule 4694 – *Wine Fermentation and Storage Tanks*.

- Post-fermentation processing is assumed to require a maximum of 40 days of retention time based on estimates by The Wine Institute (this duration may be less at some facilities depending upon the products and operating philosophy). This retention time accounts for the tank residence time required for post-fermentation processing such as malolactic fermentation, bentonite addition, filtration(s), blending(s), tartrate stabilization, bottling/packaging or bulk shipping.
- Maximum batch size in a red wine fermenter is 80% of nominal tank capacity due to potential expansion of the fermentation mass during operation as a result of rapid evolution of CO<sub>2</sub> from the fermentation reaction. White wine fermentation batches are assumed to be 95% of the tank's nominal capacity to allow for a minimum tank freeboard space of two feet during the operation.
- Emission factors for wine fermentation are taken from District Rule 4694 as follows:
  - 6.2 lb-VOC/1000 gallons produced red wine
  - 2.5 lb-VOC/1000 gallons produced white wine
- Emissions from post-fermentation storage tank operations will be calculated based on 8 inter-tank transfers during post-fermentation operations. The number of inter-tank transfers is at least 8 for wine fermented on-site per information provided by the Wine Institute. Each batch of wine is moved for the following processing operations at a minimum : 1) from fermentation to storage; 2) coarse filtration, 3) special processing (ex: ion exchange, centrifugation, addition of fining agents), 4) initial blending, 5) fine filtration, 6) final blending, 7) tartrate stabilization, 8) packaging or bulk shipping. (NOTE: The processing may not occur in this order for all wineries).
- Maximum average ethanol content for wine handled in the storage tank operations is 16 volume % (based on Wine Institute estimate for a typical winery).
- The emission factor for wine storage operations is taken from District FYI-114 (revised 8/10/11), *Estimating VOC Emissions from Wine and Spirits Storage Tanks*. Since all tanks are assumed to meet BACT for wine storage, it will be assumed that breathing losses from the storage tanks are negligible since, pursuant to the current District BACT guideline, the tanks must be insulated or have equivalent isolation from significant diurnal impacts. Based on this assumption, the emission factor from FYI-114 is 0.180 lb-VOC/1000 gallons of tank throughput for tanks located in the Southern Region, 0.167 lb-VOC/1000 gallons of tank throughput for tanks located in the Central Region and 0.158 lb-VOC/1000 gallons of tank throughput for tanks located in the Northern Region .
- Fermentation is assumed to occur only during the crush season. Based on documentation provided by the Wine institute, the duration of both the red and white wine crush seasons in the San Joaquin Valley is potentially 120 days each.
- Generally, in the absence of other restrictions, all tanks at a facility may be used for white wine fermentation. However, in some wineries, some tanks may have been added to the facility as storage-only tanks through an NSR permitting action

subsequent to the initial in-house PTO's. These would not be available for white wine fermentation and their volume must be subtracted from the total tankage capacity to determine the actual white fermenter capacity. White wine production capacity is calculated by the following general method:

*Given total white fermenter capacity  $V_w$  and the 10-day batch turnaround for white fermenters as stated above, the daily white fermenter capacity limit  $W_{w1}$  (gallons per day) during crush season is:*

*$W_{w1} = V_w \div 10$  (note that if there are some fermentation tanks with NSR limits at the facility, these must be accounted for per Appendix B of this document)*

*To determine the potential limitation due to storage tank capacity, the limiting daily white wine production capacity for a collection of fermentation & storage tanks with a total "effective" capacity  $V_t$  gallons may be calculated by considering a total wine residence time = 10 days fermentation + 40 days post-fermentation processing = 50 days total retention time (grape to finished wine). Where the facility does not include storage-only tanks with an NSR throughput limitation as mentioned above, the "effective" total tank capacity is equal to the total capacity of all tanks at the facility. Where the facility has NSR limited storage tanks, an effective total volume is calculated as outlined in Appendix A. The total tank production capacity for white wine  $W_{w2}$  (gallons per day) during crush season is then calculated as,*

$$W_{w2} = V_t \div 50$$

*The actual facility limit for white wine production  $W_w$  is then taken as the least of either the white fermenter capacity limit  $W_{w1}$  or the total tank capacity for white wine production  $W_{w2}$*

- Since the fermentation of red wine requires specialized fermenters, the consideration of the capacity of the winery tankage to produce red wine must consider the fermentation capacity of these specialized red fermenters separately from the total processing capacity of the tanks. The smallest of either the red fermenter capacity or the total red wine processing capacity of the tanks is taken to be the red wine production limit for the facility:

*Given total red fermenter capacity  $V_r$  and the 5-day batch turnaround for red fermenters as stated above, the daily red fermenter capacity limit  $W_{r1}$  (gallons per day) during crush season is:*

*$W_{r1} = V_r \div 5$  (note that if there are some fermentation tanks with NSR limits at the facility, these must be accounted for per Appendix B of this document)*

*To determine the potential limitation due to storage tank capacity, the limiting daily red wine production capacity for a collection of fermentation & storage tanks with a total "effective" capacity  $V_t$  gallons may be calculated by considering a total wine residence time = 5 days fermentation + 40 days post-fermentation processing = 45 days total retention time (grape to finished*

wine). Note that the total tank volume is an “effective” volume as described above for white wine. The total tank production capacity for red wine  $W_{r2}$  (gallons per day) during crush season is then calculated as,

$$W_{r2} = V_t \div 45$$

The actual maximum daily capacity for red wine production  $W_r$  is then taken as the least of either the red fermenter capacity limit  $W_{r1}$  or the total tank capacity for red wine production  $W_{r2}$

### Model Calculation Sequence:

The Potentials to Emit for both a facility’s wine fermentation operations and for the facility’s storage tank operations are determined in the following sequence:

1. Potential fermentation emissions from a 100% white wine production scenario are first determined:

White wine production capacity is determined as the lesser of the production capacities of either the crushing, pressing or tankage.

$W_W$  = White wine production capacity (gallons per year as measured immediately after pressing) and is the lesser of the following four calculations:

$$W1 = C \times D_w \times M \text{ (limited by crusher capacity)}$$

$$W2 = P \times D_w \times M \text{ (limited by pressing capacity)}$$

$$W3 = (V_{FW} \times F_W \times D_w) / W_{FW} \text{ (limited by white fermenter volume)}$$

$$W4 = (V_T \times D_w) / R_{TW} \text{ (limited by overall tank processing)}$$

$C$  = grape crushing capacity, tons/day

$D_w$  = days in a white wine crush season = 120 days

$F_W$  = Fill factor for white wine fermentation = 95%

$M$  = gallons of grape juice produced per ton of grapes = 200 gallons/ton

$P$  = pressing capacity, tons per day

$W_{FW}$  = White fermentation period = 10 days

$R_{TW}$  = Total winery retention time for white wine, 40 + 10 = 50 days

$V_{FW}$  = total volume of white wine fermenters – See Appendix B

$V_T$  = Effective Total Winery Cooperage (gal) for white wine – see Appendix A

Potential white wine fermentation emissions are then determined by applying the white fermentation emission factor to the production capacity determined above:

$$PE_{\text{whitefermentation}} = E_{fw} \times W_W$$

where,

$$E_{fw} = \text{white wine emission factor} = 2.5 \text{ lb-VOC/1000 gal (District Rule 4694)}$$

2. Potential fermentation emissions from a 100% red wine production scenario are then determined:

Red wine production capacity is determined as the lesser of the production capacities of either the crushing, pressing or tankage.

$W_R$  = Red wine production capacity (gallons per year as measured immediately after pressing) and is the lesser of the following four calculations:

$$W1 = C \times D_r \times M \text{ (limited by crusher capacity)}$$

$$W2 = P \times D_r \times M \text{ (limited by pressing capacity)}$$

$$W3 = (V_{FR} \times F_R \times D_r) / R_{FR} \text{ (limited by red fermenter volume)}$$

$$W4 = (V_T \times D_r) / R_{TS} \text{ (limited by overall tank processing)}$$

$C$  = grape crushing capacity, tons/day

$D_r$  = days in a red wine crush season = 120 days

$F_R$  = Fill factor for red wine fermentation = 80%

$M$  = gallons of grape juice produced per ton of grapes = 200 gallons/ton

$P$  = pressing capacity, tons per day

$R_{FR}$  = Red fermentation period = 5 days

$R_{TS}$  = Total winery retention time for red wine, 40 + 5 = 45 days

$V_{FR}$  = total volume of red wine fermenters – see Appendix B

$V_T$  = Effective Total Winery Cooperage (gal) for red wine – see Appendix A

Potential red wine fermentation emissions are then determined by applying the red fermentation emission factor to the production capacity determined above:

$$PE_{\text{redfermentation}} = E_{fr} \times W_R$$

where,

$E_{fr}$  = red wine emission factor = 6.2 lb-VOC/1000 gal (District Rule 4694)

- Emissions from storage tank operations are then determined for both the red and white wine production cases by applying the factors described above.

$$PE_{\text{whitestorage}} = E_s \times T \times W_W$$

$$PE_{\text{redstorage}} = E_s \times T \times W_R$$

$E_s$  = wine storage emission factor based on District FYI-114 = 0.180, 0.167 or 0.158 lb-VOC/1000 gallons of wine transferred for Southern, Central and Northern Regions respectively.

$T$  = Total post fermentation inter-tank transfers per batch of wine = 8

- The facility's PE for red and white wine production is then taken as the sum of the fermentation and storage potentials for each case:

$$PE_{\text{red}} = PE_{\text{redstorage}} \text{ and } PE_{\text{redfermentation}}$$

$$PE_{\text{white}} = PE_{\text{whitestorage}} \text{ and } PE_{\text{whitefermentation}}$$

- The PE for the facility is then established as the greater of either the PE for red wine production or the PE for white wine production.

$$PE_{\text{facility}} = \text{greater of } PE_{\text{red}} \text{ and } PE_{\text{white}}$$

**Example:**

The wine production Potentials to Emit for VOCs will be determined for a hypothetical winery located in the Southern Region. The hypothetical winery has in-house Permits to Operate for all its wine tanks for operation as both red and white wine fermenters and storage tanks except for eight (8) 60,000 gallon wine storage-only tanks (480,000 gallons total) which were permitted by an NSR action subsequent to the initial permitting. The eight storage-only tanks are limited by an SLC to a total annual throughput of 2,000,000 gallons per year with a maximum ethanol content of 14%. All fermentation and storage tanks meet Achieved-in-Practice BACT. Crushing and pressing equipment ratings are 150 and 100 tons per hour respectively.

The effective tank capacities and the wine grape processing equipment are summarized as follows:

- Effective Total Tankage Capacity = 14,625,000 and 14,614,000 gallons for white and red wine respectively =  $V_T$  (see Appendix A)
- Red and White Fermenter Capacity = total cooperage – storage only tanks = 14,520,000 gallons
- All storage tanks are insulated and equipped with PVRV's (storage tank breathing losses may be ignored).
- Crushing Capacity = 3,600 tons per day (150 tons/hour) = C
- Pressing Capacity = 2,400 tons per day (100 tons per hour) = P

## 1. Scenario 1 (all white):

$$W1 = C \times D_w \times M = 3,600 \times 120 \times 200 = 86.4 \text{ MG/yr (million gallons per year)}$$

$$W2 = P \times D_w \times M = 2,400 \times 120 \times 200 = 48.0 \text{ MG/yr}$$

$$W3 = (V_{FW} \times F_w \times D_w) / W_{FW} = (14,520,000 \times 95\% \times 120) / 10 \\ = 165.5 \text{ MG/yr}$$

$$W4 = (V_T \times D_w) / R_{TW} = (14,625,000 \times 120) / 50 \\ = 35.1 \text{ MG/yr}$$

Taking the lesser of the four:

$$W_w = W2 = 35.1 \text{ MG/yr}$$

Then,

$$PE_{\text{whitefermentation}} = E_{\text{tw}} \times W / 1,000 = 2.5 \times 35.1 \times 10^6 / 1000 = 87,750 \text{ lb-VOC/year}$$

## 2. Scenario 2 (all red)

$$W1 = C \times D_r \times M = 3,600 \times 120 \times 200 = 86.4 \text{ MG/yr}$$

$$W2 = P \times D_r \times M = 2,400 \times 120 \times 200 = 48.0 \text{ MG/yr}$$

$$W3 = (V_{FR} \times F \times D_r) / R_{FR} = (14,520,000 \times 80\% \times 120) / 5 = 278.8 \text{ MG/yr}$$

$$W4 = V_T \times D_r / R_S = 14,614,000 \times 120 / 45 = 39.0 \text{ MG/yr}$$

Taking the lesser of the four:

$$W_r = W2 = 39.0 \text{ MG/yr}$$

Then,

$$PE_{\text{redfermentation}} = E_{\text{fr}} \times W/1,000 = 6.2 \times 39.0 \times 10^6/1000 = 241,800 \text{ lb-VOC/year}$$

### 3. Calculate PE for Storage Operations

Since the calculated wine production rates have already considered the limitation introduced by the NSR limit on the storage-only tanks, no further consideration of throughput capacity is required for calculation the PE for storage operations. However, the storage-only tanks are limited to 14% ethanol for their maximum annual throughput of 2,000,000 gallons which requires a different emission factor. Per FYI-114, an emission factor of 0.161 lb-VOC/1000 gallons is applicable for 14% ethanol. An emission factor of 0.180 is applicable to the balance of the storage operations.

$$PE_{\text{whitestorage}} = E_s \times T \times W_R = 0.180/1000 \times (8 \times 35.1 - 2.0) \times 10^6 \\ + (0.161/1000) \times 2.0 \times 10^6 = 49,862 \text{ lb-VOC/year}$$

$$PE_{\text{redstorage}} = E_s \times T \times W_R = 0.180/1000 \times (8 \times 39.0 - 2.0) \times 10^6 \\ + (0.161/1000) \times 2.0 \times 10^6 = 54,614 \text{ lb-VOC/year}$$

### 4. Determine the PE for both white and red wine production

The facility's PE for red and white wine production is then taken as the sum of the fermentation and storage potentials for each case:

$$PE_{\text{white}} = 49,862 + 87,750 = 137,612 \text{ lb-VOC/year}$$

$$PE_{\text{red}} = 54,614 + 238,080 = 292,694 \text{ lb-VOC/year}$$

### 5. The PE for the facility is then established as the greater of either the PE for red wine production or the PE for white wine production.

$$PE_{\text{facility}} = PE_{\text{red}} (> PE_{\text{white}}) = 292,694 \text{ lb-VOC/year}$$





## Appendix A

### **Calculation of Effective Storage Tank Volume to Account for Storage Tanks with NSR Limits**

Most wine storage tanks in the District have been permitted as in-house PTO's and thus have no NSR limitations on their operation. However, subsequent to the initial permitting action, some wineries may have added storage tanks, permitted under NSR, either as Routine Replacements or as Fully Offset Units. These tanks are subject to throughput limits which have an impact on the overall production capacity of the winery. To evaluate this impact within the calculation model presented in this policy, it is necessary to determine an "effective volume" to represent the total volume of the tankage at the facility and allow the calculation model to account for any limitation on production capacity resulting from the NSR limit on these additional tanks. The correction procedure is based on comparing the maximum number of annual tank turns (throughput expressed as the number of tank volumes per year) allowed for the NSR-limited tanks with the average minimum number of tank turns required to process the facility throughput based only on the residence time considerations of the calculation model. Considering only the case where the collective storage operation throughput, based on a minimum of eight wine transfers during storage (per the calculation model), is the limiting case for the wine production capacity of the facility, the average number of tank turns required in this scenario can be demonstrated to be independent of the total capacity of the tanks and the value can be established from the tank production capacity equation as follows:

Considering the storage tank capacity as the limiting factor for facility PE:

$$\frac{\text{Storage Tank Throughput}}{8} = \text{Facility Wine Production}$$

and:

$$\frac{\text{Average Number of Tank Turns}}{\text{Storage Tank Throughput}} = \frac{\text{Total Tankage Volume}}{8}$$

then:

$$\text{Average Number of Tank Turns} = 8 \times \frac{\text{Facility Wine Production}}{\text{Total Tankage Volume}}$$

Per the model,

$$\begin{array}{l} \text{Facility} \\ \text{Wine} \\ \text{Production} \end{array} = W4 = \frac{V_T \times D_w}{R_{TW}} \quad (\text{for white wine})$$

$$\begin{array}{l} \text{Facility} \\ \text{Wine} \\ \text{Production} \end{array} = W4 = \frac{V_T \times D_R}{R_{TR}} \quad (\text{for red wine})$$

The average number of tank turns for red and white wine can then be calculated:

$$\begin{array}{l} \text{Average} \\ \text{Number} \\ \text{of Tank} \\ \text{Turns} \end{array} = 8 \times \frac{V_T \times D_w}{R_{TW}} \div V_T = \frac{8 \times D_w}{R_{TW}} \quad (\text{for white wine})$$

$$\begin{array}{l} \text{Average} \\ \text{Number} \\ \text{of Tank} \\ \text{Turns} \end{array} = 8 \times \frac{V_T \times D_R}{R_{TR}} \div V_T = \frac{8 \times D_R}{R_{TR}} \quad (\text{for red wine})$$

Substituting values as stated in the model,

$$\begin{array}{l} \text{Average} \\ \text{Number} \\ \text{of Tank} \\ \text{Turns} \end{array} = \frac{8 \times 120}{50} = 19.2 \quad (\text{for white wine})$$

$$\begin{array}{l} \text{Average} \\ \text{Number} \\ \text{of Tank} \\ \text{Turns} \end{array} = \frac{8 \times 120}{45} = 21.3 \quad (\text{for red wine})$$

When the maximum number of turns allowed for certain NSR-permitted storage tanks is less than this average, these tanks are assumed to limit production capacity and an effective volume for these tanks, used for purposes of determining production capacity, must be determined. The actual volume of the NSR-limited tanks is adjusted by the ratio of the maximum allowed number of turns to the average minimum number of tank turns. This adjusted volume is used, in turn, to determine the effective volume of all tankage at the facility. The following example illustrates the correction:

Volume Correction Example

Using the example PE calculation presented in this policy, total tankage capacity is 15,000,000 gallons which includes 480,000 gallons of storage tanks limited to 2,000,000 gallons per year. The 2,000,000 gallon per year limitation for the NSR-limited tanks limits the number of turns for these tanks to:

$$2,000,000 \text{ gal/yr} \div 480,000 \text{ gal/turn} = 4.2 \text{ turns}$$

The effective capacity for wine production for the NSR-limited tanks is considered to be limited to the extent that the maximum allowable number of turns for the NSR-limited tanks is less than the minimum average number of turns required for maximum wine production. Therefore, the effective volume for these tanks is considered to be:

$$(4.2/19.2) \times 480,000 = 105,000 \text{ gallons for white wine production}$$

$$(4.2/21.3) \times 480,000 = 94,600 \text{ gallons for red wine production}$$

Total tank capacity for the facility is then adjusted to an effective value by deducting the storage-only tanks from the total and then adding back the effective volume of the storage-only tanks, or

$$V_{\text{effective}} = 15,000,000 - 480,000 + 105,000 = 14,625,000 \text{ gallons for white wine}$$

$$V_{\text{effective}} = 15,000,000 - 480,000 + 94,600 = 14,614,000 \text{ gallons for red wine}$$

**Appendix B****Calculation of Effective Fermentation Tank Volume to Account for Fermentation Tanks with NSR Limits**

Most wine fermentation tanks in the District have been permitted as in-house PTO's and thus have no NSR limitations on their operation. However, subsequent to the initial permitting action, some wineries may have added fermentation tanks, permitted under NSR, either as Routine Replacements or as Fully Offset Units. In this case, the collective wine fermentation capacity of the facility is first performed for the non-NSR limited tanks. Then the production capacity of the NSR-limited tanks is added to arrive at the fermentation capacity for the facility.

**Fermentation Capacity Example**

Given a total fermentation tank capacity of 15,000,000 gallons which includes 480,000 gallons of fermentation tanks limited to 20,000 lb-VOC per year of fermentation emissions, the production capacity of the NSR-limited tanks is first calculated based on the fermentation emission factors:

$$20,000 \text{ lb-VOC/yr} \div 6.2 \text{ lb-VOC/1000gal} = 3,225,806 \text{ gal red wine/year}$$

$$20,000 \text{ lb-VOC/yr} \div 2.5 \text{ lb-VOC/1000gal} = 8,000,000 \text{ gal white wine/year}$$

The capacity of the non-NSR-Limited tanks is 15,000,000 – 480,000 = 14,520,000 gallons. The fermentation capacity of these tanks is calculated per the model :

$$W3 \text{ (red wine)} = (V_{FR} \times F_R \times D_r) / R_{FR} \text{ (limited by red fermenter volume)}$$

$$D_r = \text{days in a red wine crush season} = 120 \text{ days}$$

$$F_R = \text{Fill factor for red wine fermentation} = 80\%$$

$$R_{FR} = \text{Red fermentation period} = 5 \text{ days}$$

$$W3 = (14,520,000 \times 80\% \times 120) / 5 = 278,784,000 \text{ gallons per year red wine}$$

$$W3 \text{ (white wine)} = (V_{FW} \times F_W \times D_w) / W_{FW} \text{ (limited by white fermenter volume)}$$

$$D_w = \text{days in a white wine crush season} = 120 \text{ days}$$

$$F_W = \text{Fill factor for white wine fermentation} = 95\%$$

$$W_{FW} = \text{White fermentation period} = 10 \text{ days}$$

$$W3 = (14,520,000 \times 95\% \times 120) / 10 = 165,528,000 \text{ gallons per year white wine}$$

The facility fermentation capacity is then calculated by adding the capacity of the NSR-limited tanks to that of the non-NSR-Limited tanks:

$$\text{Facility Red Wine Fermentation Capacity} = 3,225,806 + 278,784,000$$

$$\text{Facility Red Wine Fermentation Capacity} = 282,009,806 \text{ gallons per year}$$

$$\text{Facility White Wine Fermentation Capacity} = 8,000,000 + 165,528,000$$

$$\text{Facility White Wine Fermentation Capacity} = 173,528,000 \text{ gallons per year}$$

## **APPENDIX F**

**Daily PE1 for Fermentation Tank Emissions Unit**

## Daily PE1 for Fermentation Tanks

### Golden State Vintners

#### C-581, 1113010

Permit Unit	Tank Capacity	Emission Factor lb-VOC/day per 1000 gallons tank capacity	Daily Potential to Emit lb-VOC/day
C-581- 4 -1	4,029	3.46	13.9
C-581- 5 -1	3,438	3.46	11.9
C-581- 6 -1	3,438	3.46	11.9
C-581- 7 -1	8,151	3.46	28.2
C-581- 8 -1	22,413	3.46	77.5
C-581- 9 -1	20,243	3.46	70.0
C-581- 10 -1	20,243	3.46	70.0
C-581- 11 -1	20,243	3.46	70.0
C-581- 12 -1	20,243	3.46	70.0
C-581- 13 -1	13,000	3.46	45.0
C-581- 14 -1	13,000	3.46	45.0
C-581- 15 -1	13,000	3.46	45.0
C-581- 16 -1	18,890	3.46	65.4
C-581- 17 -1	18,890	3.46	65.4
C-581- 18 -1	18,890	3.46	65.4
C-581- 19 -1	18,890	3.46	65.4
C-581- 20 -1	18,890	3.46	65.4
C-581- 21 -1	105,690	3.46	365.7
C-581- 22 -1	105,690	3.46	365.7
C-581- 23 -1	105,690	3.46	365.7
C-581- 24 -1	105,690	3.46	365.7
C-581- 25 -1	105,690	3.46	365.7
C-581- 26 -1	105,690	3.46	365.7
C-581- 27 -1	105,690	3.46	365.7
C-581- 28 -1	105,690	3.46	365.7
C-581- 29 -1	105,690	3.46	365.7
C-581- 30 -1	105,690	3.46	365.7
C-581- 31 -1	105,690	3.46	365.7
C-581- 32 -1	105,690	3.46	365.7
C-581- 33 -1	105,690	3.46	365.7
C-581- 34 -1	105,690	3.46	365.7
C-581- 35 -1	105,690	3.46	365.7
C-581- 36 -1	105,690	3.46	365.7
C-581- 37 -1	105,690	3.46	365.7
C-581- 38 -1	105,690	3.46	365.7

C-581-	39	-1	105,690	3.46	365.7
C-581-	40	-1	105,690	3.46	365.7
C-581-	41	-1	105,690	3.46	365.7
C-581-	42	-1	105,690	3.46	365.7
C-581-	43	-1	200,326	3.46	693.1
C-581-	44	-1	200,487	3.46	693.7
C-581-	45	-1	200,487	3.46	693.7
C-581-	46	-1	200,487	3.46	693.7
C-581-	47	-1	216,191	3.46	748.0
C-581-	48	-1	216,191	3.46	748.0
C-581-	49	-1	216,191	3.46	748.0
C-581-	50	-1	216,191	3.46	748.0
C-581-	51	-1	216,191	3.46	748.0
C-581-	52	-1	216,191	3.46	748.0
C-581-	53	-1	216,191	3.46	748.0
C-581-	54	-1	216,191	3.46	748.0
C-581-	55	-1	216,191	3.46	748.0
C-581-	56	-1	216,191	3.46	748.0
C-581-	57	-1	348,949	3.46	1207.4
C-581-	58	-1	348,949	3.46	1207.4
C-581-	59	-1	348,949	3.46	1207.4
C-581-	60	-1	348,949	3.46	1207.4
C-581-	61	-1	348,949	3.46	1207.4
C-581-	62	-1	348,949	3.46	1207.4
C-581-	63	-1	348,949	3.46	1207.4
C-581-	64	-1	348,949	3.46	1207.4
C-581-	65	-1	348,949	3.46	1207.4
C-581-	66	-1	348,949	3.46	1207.4
C-581-	67	-1	348,949	3.46	1207.4
C-581-	68	-1	348,949	3.46	1207.4
C-581-	69	-1	348,949	3.46	1207.4
C-581-	70	-1	348,949	3.46	1207.4
C-581-	71	-1	348,949	3.46	1207.4
C-581-	72	-1	348,949	3.46	1207.4
C-581-	73	-1	348,949	3.46	1207.4
C-581-	74	-1	348,949	3.46	1207.4
C-581-	75	-1	348,949	3.46	1207.4
C-581-	76	-1	348,949	3.46	1207.4
C-581-	77	-1	348,949	3.46	1207.4
C-581-	78	-1	348,949	3.46	1207.4
C-581-	79	-1	348,949	3.46	1207.4
C-581-	80	-1	348,949	3.46	1207.4
C-581-	81	-1	348,949	3.46	1207.4
C-581-	82	-1	348,949	3.46	1207.4
C-581-	83	-1	348,949	3.46	1207.4
C-581-	84	-1	348,949	3.46	1207.4

C-581-	85	-1	348,949	3.46	1207.4
C-581-	86	-1	348,949	3.46	1207.4
C-581-	87	-1	348,949	3.46	1207.4
C-581-	88	-1	348,949	3.46	1207.4
C-581-	89	-1	348,949	3.46	1207.4
C-581-	90	-1	348,949	3.46	1207.4
C-581-	91	-1	348,949	3.46	1207.4
C-581-	92	-1	348,949	3.46	1207.4
C-581-	93	-1	348,949	3.46	1207.4
C-581-	94	-1	348,949	3.46	1207.4
C-581-	95	-1	348,949	3.46	1207.4
C-581-	96	-1	348,949	3.46	1207.4
C-581-	97	-1	348,949	3.46	1207.4
C-581-	98	-1	348,949	3.46	1207.4
C-581-	99	-1	348,949	3.46	1207.4
C-581-	100	-1	98,001	3.46	339.1
C-581-	101	-1	98,001	3.46	339.1
C-581-	102	-1	98,001	3.46	339.1
C-581-	103	-1	98,001	3.46	339.1
C-581-	104	-1	98,001	3.46	339.1
C-581-	105	-1	98,001	3.46	339.1
C-581-	106	-1	98,001	3.46	339.1
C-581-	107	-1	98,001	3.46	339.1
C-581-	108	-1	98,001	3.46	339.1
C-581-	109	-1	98,001	3.46	339.1
C-581-	110	-1	98,001	3.46	339.1
C-581-	111	-1	98,001	3.46	339.1



## **APPENDIX G**

### **Daily PE1 for Storage Tank Emissions Units**

## Daily PE1 for Storage Tanks

### Golden State Vintners C-581, 1113010

Permit Unit	Tank Capacity gallons	Potential Throughput gal/day	Emission Factor lb-VOC/day per 1000 gallons tank capacity	Daily Potential to Emit lb-VOC/day
C-581- 4 -1	4,029	8058	0.410	3.3
C-581- 5 -1	3,438	6876	0.410	2.8
C-581- 6 -1	3,438	6876	0.410	2.8
C-581- 7 -1	8,151	16302	0.410	6.7
C-581- 8 -1	22,413	44826	0.410	18.4
C-581- 9 -1	20,243	40486	0.410	16.6
C-581- 10 -1	20,243	40486	0.410	16.6
C-581- 11 -1	20,243	40486	0.410	16.6
C-581- 12 -1	20,243	40486	0.410	16.6
C-581- 13 -1	13,000	26000	0.410	10.7
C-581- 14 -1	13,000	26000	0.410	10.7
C-581- 15 -1	13,000	26000	0.410	10.7
C-581- 16 -1	18,890	37780	0.410	15.5
C-581- 17 -1	18,890	37780	0.410	15.5
C-581- 18 -1	18,890	37780	0.410	15.5
C-581- 19 -1	18,890	37780	0.410	15.5
C-581- 20 -1	18,890	37780	0.410	15.5
C-581- 21 -1	105,690	211380	0.410	86.7
C-581- 22 -1	105,690	211380	0.410	86.7
C-581- 23 -1	105,690	211380	0.410	86.7
C-581- 24 -1	105,690	211380	0.410	86.7
C-581- 25 -1	105,690	211380	0.410	86.7
C-581- 26 -1	105,690	211380	0.410	86.7
C-581- 27 -1	105,690	211380	0.410	86.7
C-581- 28 -1	105,690	211380	0.410	86.7
C-581- 29 -1	105,690	211380	0.410	86.7
C-581- 30 -1	105,690	211380	0.410	86.7
C-581- 31 -1	105,690	211380	0.410	86.7
C-581- 32 -1	105,690	211380	0.410	86.7
C-581- 33 -1	105,690	211380	0.410	86.7
C-581- 34 -1	105,690	211380	0.410	86.7
C-581- 35 -1	105,690	211380	0.410	86.7
C-581- 36 -1	105,690	211380	0.410	86.7
C-581- 37 -1	105,690	211380	0.410	86.7
C-581- 38 -1	105,690	211380	0.410	86.7
C-581- 39 -1	105,690	211380	0.410	86.7

C-581-	40	-1	105,690	211380	0.410	86.7
C-581-	41	-1	105,690	211380	0.410	86.7
C-581-	42	-1	105,690	211380	0.410	86.7
C-581-	43	-1	200,326	200326	0.410	82.1
C-581-	44	-1	200,487	200487	0.410	82.2
C-581-	45	-1	200,487	200487	0.410	82.2
C-581-	46	-1	200,487	200487	0.410	82.2
C-581-	47	-1	216,191	216191	0.410	88.6
C-581-	48	-1	216,191	216191	0.410	88.6
C-581-	49	-1	216,191	216191	0.410	88.6
C-581-	50	-1	216,191	216191	0.410	88.6
C-581-	51	-1	216,191	216191	0.410	88.6
C-581-	52	-1	216,191	216191	0.410	88.6
C-581-	53	-1	216,191	216191	0.410	88.6
C-581-	54	-1	216,191	216191	0.410	88.6
C-581-	55	-1	216,191	216191	0.410	88.6
C-581-	56	-1	216,191	216191	0.410	88.6
C-581-	57	-1	348,949	348949	0.410	143.1
C-581-	58	-1	348,949	348949	0.410	143.1
C-581-	59	-1	348,949	348949	0.410	143.1
C-581-	60	-1	348,949	348949	0.410	143.1
C-581-	61	-1	348,949	348949	0.410	143.1
C-581-	62	-1	348,949	348949	0.410	143.1
C-581-	63	-1	348,949	348949	0.410	143.1
C-581-	64	-1	348,949	348949	0.410	143.1
C-581-	65	-1	348,949	348949	0.410	143.1
C-581-	66	-1	348,949	348949	0.410	143.1
C-581-	67	-1	348,949	348949	0.410	143.1
C-581-	68	-1	348,949	348949	0.410	143.1
C-581-	69	-1	348,949	348949	0.410	143.1
C-581-	70	-1	348,949	348949	0.410	143.1
C-581-	71	-1	348,949	348949	0.410	143.1
C-581-	72	-1	348,949	348949	0.410	143.1
C-581-	73	-1	348,949	348949	0.410	143.1
C-581-	74	-1	348,949	348949	0.410	143.1
C-581-	75	-1	348,949	348949	0.410	143.1
C-581-	76	-1	348,949	348949	0.410	143.1
C-581-	77	-1	348,949	348949	0.410	143.1
C-581-	78	-1	348,949	348949	0.410	143.1
C-581-	79	-1	348,949	348949	0.410	143.1
C-581-	80	-1	348,949	348949	0.410	143.1
C-581-	81	-1	348,949	348949	0.410	143.1
C-581-	82	-1	348,949	348949	0.410	143.1
C-581-	83	-1	348,949	348949	0.410	143.1
C-581-	84	-1	348,949	348949	0.410	143.1
C-581-	85	-1	348,949	348949	0.410	143.1

C-581-	86	-1	348,949	348949	0.410	143.1
C-581-	87	-1	348,949	348949	0.410	143.1
C-581-	88	-1	348,949	348949	0.410	143.1
C-581-	89	-1	348,949	348949	0.410	143.1
C-581-	90	-1	348,949	348949	0.410	143.1
C-581-	91	-1	348,949	348949	0.410	143.1
C-581-	92	-1	348,949	348949	0.410	143.1
C-581-	93	-1	348,949	348949	0.410	143.1
C-581-	94	-1	348,949	348949	0.410	143.1
C-581-	95	-1	348,949	348949	0.410	143.1
C-581-	96	-1	348,949	348949	0.410	143.1
C-581-	97	-1	348,949	348949	0.410	143.1
C-581-	98	-1	348,949	348949	0.410	143.1
C-581-	99	-1	348,949	348949	0.410	143.1
C-581-	100	-1	98,001	196002	0.410	80.4
C-581-	101	-1	98,001	196002	0.410	80.4
C-581-	102	-1	98,001	196002	0.410	80.4
C-581-	103	-1	98,001	196002	0.410	80.4
C-581-	104	-1	98,001	196002	0.410	80.4
C-581-	105	-1	98,001	196002	0.410	80.4
C-581-	106	-1	98,001	196002	0.410	80.4
C-581-	107	-1	98,001	196002	0.410	80.4
C-581-	108	-1	98,001	196002	0.410	80.4
C-581-	109	-1	98,001	196002	0.410	80.4
C-581-	110	-1	98,001	196002	0.410	80.4
C-581-	111	-1	98,001	196002	0.410	80.4

## **APPENDIX H**

### **BACT Guideline 5.4.13 and Top-Down Analysis for Wine Storage Tanks**

San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 5.4.13\***

Last Update: 10/9/2007

**Wine Storage Tank (Non-Concrete and Non-Wood)**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	Insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, "gas tight" tank operation and achieve and maintain a continuous storage temperature not exceeding 75 oF within 60 days of completion of fermentation.	<ol style="list-style-type: none"> <li>1. Capture of VOCs and thermal or catalytic oxidation or equivalent (98% control).</li> <li>2. Capture of VOCs and carbon adsorption or equivalent (95% control).</li> <li>3. Capture of VOCs and absorption or equivalent (90% control)</li> <li>4. Capture of VOCs and condensation or equivalent (70% control).</li> </ol>	

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a state implementation plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

**\*This is a Summary Page for this Class of Source - Permit Specific BACT Determinations on Next Page(s)**

## Top Down BACT Analysis for VOC Emissions:

### Step 1 - Identify All Possible Control Technologies

The SJVUAPCD BACT Clearinghouse guideline 5.4.13, 1st quarter 2012, identifies achieved in practice and technologically feasible BACT for wine storage tanks as follows:

- 1) Insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, "gas tight" tank operation and achieve and maintain a continuous storage temperature not exceeding 75 °F within 60 days of completion of fermentation.VOC capture and control system - technologically feasible, and enclosed gun cleaner - achieved in practice
- 2) Capture of VOCs and thermal or catalytic oxidation or equivalent (98% control)
- 3) Capture of VOCs and carbon adsorption or equivalent (95% control)
- 4) Capture of VOCs and absorption or equivalent (90% control)
- 5) Capture of VOCs and condensation or equivalent (70% control)

### Step 2 - Eliminate Technologically Infeasible Options

None of the above listed technologies are technologically infeasible.

### Step 3 - Rank Remaining Control Technologies by Control Effectiveness

Rank by Control Effectiveness			
Rank	Option	Control	Overall Capture & Control Efficiency <sup>1</sup>
1	2	Capture of VOCs and thermal or catalytic oxidation	98 %
2	3	Capture of VOCs and carbon adsorption	95 %
3	4	Capture of VOCs and absorption.	90 %
4	5	Capture of VOCs and condensation	70 %
5	1	Insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, "gas tight" tank operation and 75 °F tank temperature control as defined in District Rule 4694. (Achieved in Practice and Industry Standard)	0 %

### Step 4 - Cost Effectiveness Analysis

A cost-effective analysis is performed for each control technology which is more effective than meeting the requirements of District Rule 4694 plus tank insulation (achieved-in-practice BACT), as proposed by Golden State. The cost-effectiveness analysis will be performed based on the following:

<sup>1</sup> Relative to "industry standard"

- Since the most cost effective approach will be achieved by installing a common control device for multiple tanks, the analysis will be based on this approach.
- To expand the scope and generality of this BACT, the cost-effectiveness analysis will be based on a hypothetical “industry-typical” storage tank operation consisting of a battery of twelve (12) insulated storage tanks each with a capacity of 200,000 gallons (total capacity 12 x 200,000 = 2,400,000 gallons). Since this tank capacity exceeds the average wine tank size of 61,500 gallons at Almaden-Madera, if it is determined that any particular control system is not cost effective for the 200,000 gallon tanks, it can be assumed to not be cost effective at Almaden-Madera due to economy of scale.
- Total potential annual throughput for the hypothetical tank battery is determined based on the District’s model for calculating the PE for a winery operation (see Appendix xx). The following assumptions are applicable:
  - The winery production capacity is limited by total tank volume rather than by grape pressing or crushing capacity (typical for most wineries).
  - Each gallon of wine produced is transferred 8 times as a part of the post fermentation processing, blending and bottling (basic parameter in the District’s PE model).
  - The winery produces 100% red wine (conservative assumption since red wine has a lower residence time requirement in the winery and thus a greater amount of red wine can be produced versus white wine when considering only the tank capacity as a limiting factor).
  - Maximum average annual ethanol content of produced wine is 16 volume% (basic parameter in the District’s PE model).
  - The emission factor for wine in insulated tanks with 16 volume % ethanol is 0.230 lb-VOC/1000 gallons throughput (per District’s FYI-114, Estimating Emissions from Winery Tanks (see Appendix XX).
  - The wine crush season is 120 days (basic parameter in the District’s PE model).
  - The red wine residence time requirement is 45 days (basic parameter in the District’s PE model).

Per the District’s PE model., the wine production capacity associated with 2,400,000 gallons of tank capacity is:

$$W4 = (V_T \times D_r) / R_{TS} \text{ (limited by overall tank processing)}$$

$$D_r = \text{days in a red wine crush season} = 120 \text{ days}$$

$$R_{TS} = \text{Total winery retention time for red wine} = 45 \text{ days}$$

$$V_T = \text{Effective Total Winery Cooperage (gal) for red wine}$$

$$W4 = (2,400,000 \times 120) / 45 = 6,400,000 \text{ gallons per year}$$

Since each gallon is transferred 8 times, the total storage throughput is:

$$\text{Throughput} = 8 \times 6,400,000 = 51,200,000 \text{ gallons per year}$$

Storage tank emissions are calculated using the emission factor:

$$\begin{aligned} \text{Emissions} &= 51,200,000 \text{ gal/year} \times 0.230 \text{ lb-VOC/1000 gallons} \\ &= 11,776 \text{ lb/year} = 5.9 \text{ tons per year} \end{aligned}$$



- The emissions estimate above is based on insulated storage tanks equipped and operated in accordance with District Rule 4694 which represents current Achieved-in-Practice BACT. Since this tank configuration is almost universal in the San Joaquin Valley. This emission level is considered to be "industry standard" and will be considered to be the uncontrolled emissions from the tanks for purposes of this analysis.

**Capture of VOCs with Thermal or Catalytic Oxidation/ Carbon Adsorption/Absorption or Condensation (Options 2,3,4, and 5)**

A common feature of all of these options is that they require installation of a collection system for delivering the VOC's from the tanks to the common control device. The analysis below indicates that these options are not cost effective by showing that just the annualized direct cost for the ductwork of the collection system and supporting structural steel and foundations alone is too large, when considered at the District's cost effectiveness threshold for VOC BACT, to justify the capital investment required by these options. This approach ignores additional major costs for the actual control device and its installation and for equipment sterilization systems for ductwork and control device, instrumentation and control systems for isolation of individual tanks in the battery, site specific factors due to limited plot space (known to be a significant factor at all wineries), and operating and maintenance costs for each system. Should all these additional cost factors be included, the calculated cost effectiveness would be substantially higher than indicated below.

**a. Control Efficiency**

Option 2 is capable of a 98% reduction in VOC emissions while the remaining options under consideration have lesser control efficiencies. Showing that all of the options under consideration are not cost effective at a 98% reduction level based on capital investment requirements of ductwork and steel alone is adequate since options other than thermal/catalytic oxidation would be even less cost effective at their actual (lower) reduction levels.

$$\begin{aligned}
 \text{Annual Emission Reduction} &= \text{Uncontrolled Emissions} \times 0.98 \\
 &= 5.9 \text{ tons-VOC/year} \times 0.98 \\
 &= 5.8 \text{ tons-VOC/year}
 \end{aligned}$$

**b. Capital Investment For Installation of a VOC Collection System**

Design and Estimate Basis:

- The basis and approach for the capital cost estimate for ductwork and support steel is summarized in BACT Attachment 1.
- The collection system consists of stainless steel plate ductwork (stainless steel is required due to cleanliness and sterilization requirements for wine quality considerations and due to the food grade product status) with isolation valving, connecting twelve 200,000 gallon tanks to a common manifold system which ducts the combined vent to the common control device. The cost of dampers and isolation valving, installed in the ductwork, will not be included in the cost estimate.
- A minimum duct size is established at 6 inches diameter at each tank to ensure minimal backpressure of the tank during filling operations and to provide adequate

strength for spanning between supports. The main header is 12" diameter to handle the potential for simultaneously venting all tanks based on a potential fill rate of 1000 gpm for each tank (per applicant) and a duct velocity of 2000 feet per minute.

- The ductwork is designed with features to facilitate clean-in-place (CIP) operation to allow for periodic sterilization procedures as required for food grade products. The CIP system includes strategically placed spray nozzles on the ductwork for injecting sterilizing solutions into the system. Cost impacts to install CIP systems to clean the ducting are not included in the cost estimate.
- The ductwork is supported on a structural steel piperack mounted on drilled concrete piers, running through the new tank battery. Ducting elevations are established to allow continuous free draining to the separator located at the control device.
- Unit Installed Costs for Ductwork: A direct cost estimate for 12" diameter stainless steel ductwork, installed in a San Joaquin Valley winery, was taken from a study prepared by Eichleay Engineering for the Wine Institute in conjunction with development of District Rule 4694.<sup>2</sup> The estimate is based on 2nd quarter 2005 dollars, and includes fittings, miscellaneous duct supports and other materials plus field labor costs required to install the ductwork, but does not include other associated indirect costs such as construction management, engineering, owner's cost, contingency, etc. BACT Attachment 1 presents the development of unit installed costs for stainless steel ducting based on the costs derived from the Eichleay estimate.
- Linear feet of ducting required was extracted from the Eichleay Estimate for a similar system at Gallo-Livingston (see BACT Attachment 1).
- Costs for structural steel supports and foundations were extracted from the Eichleay Estimate for a similar system at Gallo-Livingston (see BACT Attachment 1).
- Sales tax of 8% was applied to all materials.
- Indirect costs include Engineering, Construction Expense and Contractor's Fee and Contingency. Factors for these costs are taken from Peters & Timmerhaus<sup>3</sup>.
- Capital costs taken from the Eichleay estimate are 2005 dollars. These are escalated to 2012 based on 2% overall escalation per year.

#### Capital Investment (for ductwork and steel supports)

Fixed Capital Investment is summarized in the following table:

---

<sup>2</sup> Eichleay Engineers of California, Fermenter VOC Emissions Control Cost Estimate (Revision 1), Eichleay Project Numbers 30892 and 30913, June 30, 2005

<sup>3</sup> Peters & Timmerhaus, Plant Design and Economics for Chemical Engineers, 2<sup>nd</sup> Edition, McGraw-Hill, 1968, p.140.



Annualized Capital Investment and Cost Effectiveness (based on ductwork):

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = 0.163 per District policy, amortizing over 10 years at 10%

Therefore,

Annualized Capital Investment = \$954,281 x 0.163 = \$155,500

Cost Effectiveness = Annualized Cost/Annual Emission Reductions

**Cost Effectiveness = \$155,500/5.8 tons-VOC = \$26,800/ton-VOC**

As shown above, the cost of VOC reduction by capture of VOCs with thermal or catalytic oxidation, carbon adsorption, absorption or condensation would be greater than the \$17,500/ton cost effectiveness threshold for VOC in the District BACT policy, based only on the direct cost required for the collection ducting. Therefore these options are not cost-effective and will not be considered for this project.

**Step 5 - Select BACT**

All identified feasible options with control efficiencies higher than the option proposed by the facility have been shown to not be cost effective. The facility has proposed Option 1, insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, "gas tight" tank operation and achieve and maintain a continuous storage temperature not exceeding 75 °F within 60 days of completion of fermentation. These BACT requirements will be placed on the ATC as enforceable conditions.

**Attachments:**

- BACT Attachment 1: Development of Direct Costs for Installation of a VOC Collection System on a Battery of Wine Storage Tanks
- BACT Attachment 2: Plot Plan for Gallo-Livingston (Eichleay Study)
- BACT Attachment 3: Ducting Costs for VOC-2 (Eichleay Study)
- BACT Attachment 4: Structural Steel Costs for VOC-2 (Eichleay Study)
- BACT Attachment 5: Foundation Costs for VOC-2 (Eichleay Study)

## **BACT Attachment 1**

### **Development of Direct Costs for Installation of a VOC Collection System on a Battery of Wine Storage Tanks**

**Background**

During the development of District Rule 4694 (Wine Fermentation and Storage Tanks), The Wine Institute commissioned a study by Eichleay Engineers of California to develop costs for installation of VOC controls on all wine fermentation tanks at the Gallo winery located at Livingston, CA. The SJVAPCD participated in development of the study and in the review of the final draft. The District reviewed this estimate (Eichleay study) in conjunction with the development of District Rule 4694 (see Appendix C, Final Draft Staff Report - Rule 4694, December 15, 2005). The District's review indicated that, although the District took issue with various scope elements of the overall estimate, the estimating methodology employed appears to be fundamentally sound and follows accepted practice in the engineering and construction industry, accurately estimating the material quantities required for the stated scope and applying reasonable unit rates and costs for materials and labor for development of direct costs.

The Eichleay study developed detailed direct cost estimates for four separate tank batteries at Gallo-Livingston; VOC-1, '-2, '-3 and '-4 (see plot diagram in Attachment A). The direct cost estimate scope for each battery included a stainless steel ducting manifold system connected to a VOC control device and structural steel ducting supports with associated foundations. VOC-2 is a tank battery consisting of twelve (12) 200,000 gallon capacity tanks, identical to the hypothetical "industry-typical" tank battery installation which forms the basis for the cost effectiveness calculations for this BACT determination. The estimates of ducting, steel supports and foundations prepared in the Eichleay study for VOC-2 can be used as a basis to establish costs for the cost effectiveness evaluation required by this BACT determination.

### **Approach and Estimate Basis**

#### **Ducting**

Attachment B is the detailed direct cost estimate from the Eichleay study for ducting for VOC-2 (annotated to indicate the required subtotals). Since VOC-2 at Gallo-Livingston consists of twelve fermentation tanks rather than storage tanks, the diameter of the estimated ductwork is larger than required for storage-only tanks due to the much larger vent rate from fermentation. However, since the tank sizes and layout considerations would not be affected by tank utilization, the Eichleay estimate of total linear footage and duct fittings ductwork can be utilized directly. The estimate details in Attachment B are utilized in the following manner to develop ducting costs for the "industry typical" tank battery:

- Linear feet of ductwork required is taken directly from the Eichleay estimate for VOC-2 (Attachment B). Linear feet required for individual branch connections to each tank is given by the footage of 12" diameter ducting while the linear footage for the main header is represented by the balance of the ductwork for VOC-2. Based on this approach, 75 linear feet of ducting is required for branch connections to the tanks while 870 feet of ducting is required for the main headers and the ducting run to the control device. Since the "industry-typical" ducting for storage tanks has been determined to be 6" diameter for branch connections and 12" diameter for the main header, the following material requirements are established for the "industry-typical" storage tank battery:

6" diameter ducting: 75 linear feet  
12" diameter ducting: 870 linear feet

- Unit direct cost (\$ per foot) of 12" diameter ducting can be determined by adding the labor and material costs required and dividing by the total linear footage of the particular diameter of ducting included in the estimate. For the 75 linear feet of 12" diameter ducting included in the Eichleay estimate for VOC-2, total labor and material costs were estimated at \$5,137 and \$5,650 respectively. Dividing each figure by 75 yields the unit labor and material costs for 12" diameter ducting:

Unit labor cost for 12" ducting: \$68.49/ft  
Unit material cost for 12" ducting: \$75.33/ft

- The Eichleay estimate did not include estimates of direct cost for 6" diameter duct. Therefore, it is necessary to develop a cost by appropriate factoring of the 12" diameter cost. To adjust the direct cost to a 6" system, cost equations for stainless steel plate ductwork are taken from the EPA Air Pollution Control Manual, Section 2, Chapter 1, Table 1.9, which indicates a cost equation for stainless steel plate duct as follows:

$$\text{Duct Cost} = 6.29 \times (\text{Duct Diameter}_{\text{inches}})^{1.23}$$

Using this equation form, it is apparent the the relative cost of 6" duct versus 12" duct can be calculated as follows:

$$6" \text{ Duct Cost} = 12" \text{ Duct Cost} \times (6/12)^{1.23}$$

Since the EPA cost manual develops total direct cost based on applying additional factors to the duct cost, the use of the above factor for adjustment of the total direct cost is consistent with EPA cost estimation methods.

Therefore,

$$\text{Unit Labor Cost for 6" Duct} = \$68.49 \times (6/12)^{1.23} = \$29.20/\text{linear foot}$$

$$\text{Unit Material Cost for 6" Duct} = \$75.33 \times (6/12)^{1.23} = \$32.11/\text{linear foot}$$

### Structural Steel

- Structural steel cost can be assumed to be the same for the "industry-typical" system as for VOC-2 since the heights and sizes of structure will be the same. Attachment C is the Eichleay estimate of structural steel required for VOC-2, annotated to show required subtotal. Based on this approach, structural steel cost for the industry-typical" case is as follows:

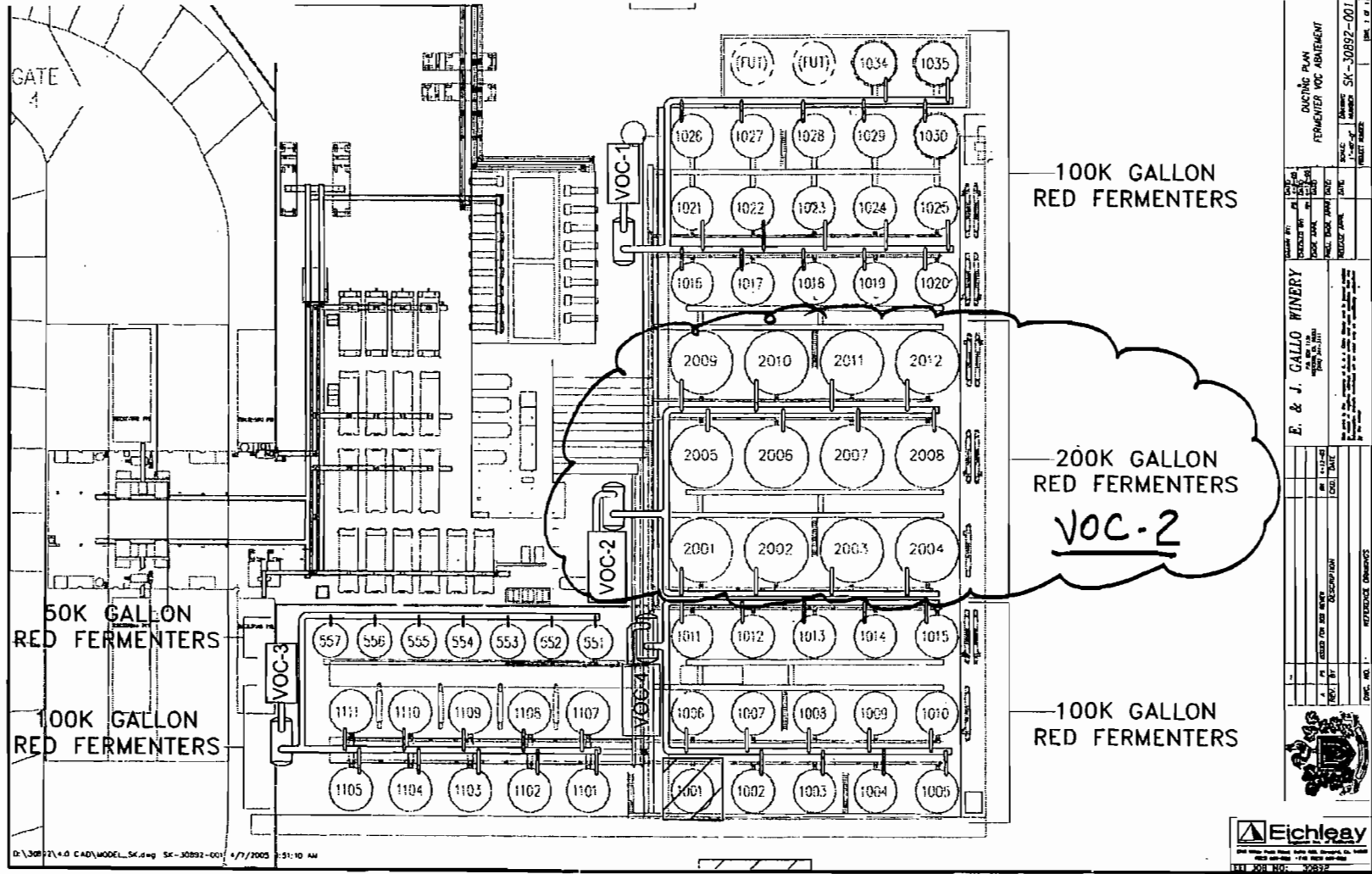
Purchased Structural Steel: \$287,630  
Labor for Erection of Structural Steel: \$45,273

## Foundations

- Cost for foundations for the structural steel towers can be assumed to be the same for the “industry-typical” system as for VOC-2 since the heights and sizes of structure are assumed to be the same. Attachment D is the Eichleay estimate of the foundations required for VOC-2, annotated to show required subtotal. Pricing is based on a subcontract price including labor and materials. Based on this approach, 32 drilled concrete piers are required at a subcontract cost of \$1,000 each.



**BACT Attachment 2**  
**Plot Plan for Gallo-Livingston (Eichleay Study)**



**BACT Attachment 3**  
**Ducting Costs for VOC-2 (Eichleay Study)**



**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute  
Job Number: 30913  
Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.  
Checked By: R.H.  
Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
1	Bolt up	100	ea	6.5	650	65.00			422.50	42,250			42,250
1	Handle	96	ea	7.2	691.2	65.00			468.00	44,928			44,928
1	Install	20	lot	3	60	65.00			195.00	3,900			3,900
	VOC-2												
2	12" Duct	75	ft				62.00		62.00				4,650
2	12" Duct misc. fittings	1	lot				1,000.00		1,000.00			1,000	1,000
2	Bolt up	21	ea	1.5	31.5	65.00			97.50	2,048			2,048
2	Handle	19	ea	2.08	39.52	65.00			135.20	2,569			2,569
2	Install	4	lot	2	8	65.00			30.00	520			520
2	18" Duct	65	ft				86.00		86.00				5,590
2	18" Duct misc. fittings	1	lot				2,000.00		2,000.00			2,000	2,000
2	Bolt up	19	ea	3	57	65.00			195.00	3,705			3,705
2	Handle	17	ea	3.52	59.84	65.00			228.80	3,890			3,890
2	Install	3	lot	2	6	65.00			130.00	390			390
2	22" Duct	50	ft				99.00		99.00				4,950
2	22" Duct misc. fittings	1	lot				2,000.00		2,000.00			2,000	2,000
2	Bolt up	15	ea	4	60	65.00			260.00	3,900			3,900
2	Handle	13	ea	4.6	59.8	65.00			299.00	3,887			3,887
2	Install	3	lot	3	9	65.00			195.00	585			585
2	24" Duct	35	ft				106.00		106.00				3,710
2	24" Duct misc. fittings	1	lot				3,000.00		3,000.00			3,000	3,000
2	Bolt up	11	ea	4	44	65.00			260.00	2,860			2,860
2	Handle	9	ea	4.6	41.4	65.00			299.00	2,691			2,691
2	Install	2	lot	3	6	65.00			195.00	390			390
2	28" Duct	15	ft				119.00		119.00				1,785
2	28" Duct misc. fittings	1	lot				2,000.00		2,000.00			2,000	2,000
2	Bolt up	5	ea	5.5	27.5	65.00			357.50	1,788			1,788
2	Handle	4	ea	5.32	21.28	65.00			345.80	1,383			1,383

*Total Ducting > 12" dia = 870'*

*Labor & mat'l cost for 15' of 12" duct 5,650*

*5,137*



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute  
Job Number: 30913  
Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.  
Checked By: R.H.  
Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
2	Install	1	lot	3	3	65.00			195.00	195			195
2	30" Duct	25	ft				128.00		128.00		3,200		3,200
2	30" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
2	Bolt up	8	ea	5.5	44	65.00			357.50	2,860			2,860
2	Handle	6	ea	5.32	31.92	65.00			345.80	2,075			2,075
2	Install	1	lot	3	3	65.00			195.00	195			195
2	32" Duct	265	ft				177.00		177.00		46,905		46,905
2	32" Duct misc. fittings	1	lot				4,500.00		4,500.00		4,500		4,500
2	Bolt up	68	ea	6	408	65.00			390.00	26,520			26,520
2	Handle	66	ea	6	396	65.00			390.00	25,740			25,740
2	Install	13	lot	3	39	65.00			195.00	2,535			2,535
2	42" Duct	415	ft				242.00		242.00		100,430		100,430
2	42" Duct misc. fittings	1	lot				25,000.00		25,000.00		25,000		25,000
2	Bolt up	115	ea	6.5	747.5	65.00			422.50	48,588			48,588
2	Handle	104	ea	7.12	740.48	65.00			462.80	48,131			48,131
2	Install	21	lot	4	84	65.00			260.00	5,460			5,460
	VOC-3												
3	6" Duct	25	ft				38.00		38.00		950		950
3	6" Duct misc. fittings	1	lot				500.00		500.00		500		500
3	Bolt up	7	ea	1	7	65.00			65.00	455			455
3	Handle	6	ea	1.4	8.4	65.00			91.00	546			546
3	Install	1	lot	1.5	1.5	65.00			97.50	98			98
3	10" Duct	35	ft				54.00		54.00		1,890		1,890
3	10" Duct misc. fittings	1	lot				1,000.00		1,000.00		1,000		1,000
3	Bolt up	11	ea	1.5	16.5	65.00			97.50	1,073			1,073
3	Handle	9	ea	1.72	15.48	65.00			111.80	1,006			1,006
3	Install	2	lot	2	4	65.00			130.00	260			260
3	12" Duct	70	ft				62.00		62.00		4,340		4,340

*To previous page*

**BACT Attachment 4**  
**Structural Steel Costs for VOC-2 (Eichleay Study)**



**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	
	VOC-2 Duct Section											
2	15 x 15 towers	4	ea	20	80	65.00	20,000.00		21,300.00	5,200	80,000	85,200
2	20' top level connection beams	6	ea	2	12	65.00	700.00		830.00	780	4,200	4,980
2	cross bracing on top open sections	3	ea	2	6	65.00	400.00		530.00	390	1,200	1,590
2	15 x 15 towers	3	ea	20	60	65.00	20,000.00		21,300.00	3,900	60,000	63,900
2	15' top level connection beams	4	ea	2	8	65.00	550.00		680.00	520	2,200	2,720
2	cross bracing on top open sections	2	ea	2	4	65.00	300.00		430.00	260	600	860
2	15 x 20 towers - shared vertical colums	2	ea	20	40	65.00	20,000.00		21,300.00	2,600	40,000	42,600
2	15 x 15 tower	1	ea	20	20	65.00	10,000.00		11,300.00	1,300	10,000	11,300
2	3' wide grating on walkway 3, 4' wide on walkway 4	945	sf	0.15	141.75	65.00	19.00		28.75	9,214	17,955	27,169
2	3' wide grating to tanks	360	sf	0.15	54	65.00	19.00		28.75	3,510	6,840	10,350
2	handrails	820	lf	0.3	246	65.00	75.00		94.50	15,990	61,500	77,490
2	grating to existing catwalks	165	sf	0.15	24.75	65.00	19.00		28.75	1,609	3,135	4,744
										45,273	287,630	
	VOC-3 Duct Section											
3	20 x 8 towers	3	ea	20	60	65.00	15,000.00		16,300.00	3,900	45,000	48,900
3	20' top level connection beams	6	ea	2	12	65.00	700.00		830.00	780	4,200	4,980
3	cross bracing on top open sections	3	ea	2	6	65.00	400.00		530.00	390	1,200	1,590
3	15 x 8 towers	1	ea	20	20	65.00	14,000.00		15,300.00	1,300	14,000	15,300
3	15 x 15 towers	5	ea	20	100	65.00	18,000.00		19,300.00	6,500	90,000	96,500
3	15' top level connection beams	8	ea	2	16	65.00	550.00		680.00	1,040	4,400	5,440
3	cross bracing on top open sections	4	ea	2	8	65.00	300.00		430.00	520	1,200	1,720
3	3' wide grating on walkway 6 & 7	810	sf	0.15	121.5	65.00	19.00		28.75	7,898	15,390	23,288
3	3' wide grating to tanks	510	sf	0.15	76.5	65.00	19.00		28.75	4,973	9,690	14,663
3	handrails	920	lf	0.3	276	65.00	75.00		94.50	17,940	69,000	86,940
3	grating to existing catwalks	60	sf	0.15	9	65.00	19.00		28.75	585	1,140	1,725

**BACT Attachment 5**  
**Foundation Costs for VOC-2 (Eichleay Study)**





**Eichler**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

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CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
	<b>030 - Concrete</b>												
	VOC -1 Duct sections												
1	Install drilled piers (20) rack #1	20	ea					1,000.00	1,000.00			20,000	20,000
1	Install drilled piers (20) rack #2	20	ea					1,000.00	1,000.00			20,000	20,000
1	Install drilled piers (42) for main rack inside plant	42	ea					1,500.00	1,500.00			63,000	63,000
1	Install drilled piers (46) for main rack outside plant	46	ea					700.00	700.00			32,200	32,200
1	Install drilled piers (32) for main rack by VOC's	32	ea					700.00	700.00			22,400	22,400
1	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	VOC -2 Duct sections												
2	Install drilled piers (16) rack #3	16	ea					1,000.00	1,000.00			16,000	16,000
2	Install drilled piers (18) rack #4	18	ea					1,000.00	1,000.00			18,000	18,000
2	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	VOC -3 Duct sections												
3	Install drilled piers (16) rack #6	16	ea					1,000.00	1,000.00			16,000	16,000
3	Install drilled piers (20) rack #7	20	ea					1,000.00	1,000.00			20,000	20,000
3	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	VOC -4 Duct sections												
4	Install drilled piers (0) rack #4		ea					1,000.00	1,000.00				
4	Install drilled piers (20) rack #5	20	ea					1,000.00	1,000.00			20,000	20,000
4	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	Allowance for building pad	3	cy									1,350	1,350
	<b>TOTAL - Concrete</b>											<b>444,950</b>	<b>444,950</b>

*drilled piers*

## **APPENDIX I**

### **BACT Guideline 5.4.14 for Wine Fermentation Tanks and Top-Down Analysis for Wine Fermentation Tanks**

San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 5.4.14\***

Last Update 10/6/2009

**Wine Fermentation Tank**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
VOC	Temperature-Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95 deg F	1. Capture of VOCs and Thermal Oxidation or Equivalent (88% control)  2. Capture of VOCs and Carbon Adsorption or Equivalent (86% control)  3. Capture of VOCs and Absorption or Equivalent (81% control)  4. Capture of VOCs and Condensation or Equivalent (81% control)	

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a state implementation plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

**\*This is a Summary Page for this Class of Source**

## Top Down BACT Analysis for VOC Emissions:

### Step 1 - Identify All Possible Control Technologies

The SJVUAPCD BACT Clearinghouse guideline 5.4.14, 1st quarter 2012, identifies achieved in practice and technologically feasible BACT for wine fermentation tanks as follows:

- 1) Capture of VOCs and thermal oxidation or equivalent (88% control)
- 2) Capture of VOCs and carbon adsorption or equivalent (86% control)
- 3) Capture of VOCs and absorption or equivalent (81% control)
- 4) Capture of VOCs and condensation or equivalent (81% control)
- 5) Temperature-Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95°F

### Step 2 - Eliminate Technologically Infeasible Options

None of the above listed technologies are technologically infeasible.

### Step 3 - Rank Remaining Control Technologies by Control Effectiveness

The options enumerated above can be ranked as follows:

Rank by Control Effectiveness			
Rank	Option	Control	Overall Capture & Control Efficiency <sup>(*)</sup>
1	5	Capture of VOCs and thermal oxidation	88 % <sup>(**)</sup>
2	1	Capture of VOCs and carbon adsorption	86 %
3	2	Capture of VOCs and absorption or equivalent (81% control)	81 %
4	3	Capture of VOCs and condensation	81 %
5	4	Temperature-Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95°F	Baseline (Achieved-in-Practice)

(\*) Capture efficiency (90%) x removal efficiency for control device

(\*\*) Following recent District practice, thermal and catalytic oxidation will be ranked together.

### Step 4 - Cost Effectiveness Analysis

#### General Approach for Cost Effectiveness

Due to differences in processing temperature, red wine has an emissions factor of 6.2-lb VOC/1,000 gallons whereas white wine has an emissions factor of 2.5-lb/1000 gallons of fermented wine per District Rule 4694, *Wine Fermentation and Storage Tanks*. In addition, red wine fermentation batches are completed in 3 to 5 days versus 10 to 14 days for white wine fermentation. Therefore, a red wine fermentation tank of a given size will potentially

operate at significantly higher throughput and produce significantly higher emissions per unit of throughput relative to a white wine fermentation tank of the same size. As a result of these differences in emission rates, the cost effectiveness for controlling emissions from red wine will be fundamentally better than that for white wine and thus the cost effectiveness analysis will be first performed for red wine only. In the event a technology is shown to be cost effective for red wine, that particular technology will be analyzed for white wine fermentation as well.

The following emission control technologies have been determined to be technologically feasible for control of VOC emissions from wine fermentation tanks:

- Thermal Oxidation (88% control)
- Carbon Adsorption (86% control)
- Refrigerated Condenser (81% control)
- Wet Scrubber (81% control)

Recognizing that “thermal oxidation” includes both recuperative and regenerative thermal oxidizers the cost effectiveness of the following cases will be examined for the determination of BACT for wine fermentation:

- Case 1 Thermal oxidation with 0% heat recovery (low capital/high operating cost)
- Case 2 Regenerative thermal oxidation with 95% heat recovery (high capital/low operating cost)
- Case 3 Refrigerated Condensers
- Case 4 Water scrubber
- Case 5 Carbon adsorption

A cost-effectiveness analysis is not required for temperature-controlled fermentation since this option is Achieved-in-Practice. To establish a comparative physical scope of each of the above cases, the District will take an industry-wide approach based on applying the five different control technology cases to red wine fermentation tanks located at the E & J Gallo Winery at Livingston, California (Facility N-1237), rather than the Golden State facility. The rationale for this is based on the following:

- The Gallo facility at Livingston is sufficiently representative of typical red wine fermentation facilities located at major source wineries to allow it to serve as a general model for the physical scope requirements of such facilities including the Golden State facility.
- The Gallo facility is currently the largest winery in the world and the average fermentation tank size is larger than that of the O’Neill facility. Any control technology found to not be cost effective for the Gallo facility can be assumed to be not cost effective to smaller facilities such as O’Neill as well due to economies of scale. If any technology is determined to be cost effective at Gallo, it will then be analyzed for the Golden State facility as well to confirm cost effectiveness for the smaller operation.
- The Gallo facility was used as a basis for engineering and cost effectiveness studies in development of District Rule 4694 and substantial scope and cost information is available for this facility pertaining to the scope of control system requirements and that of the ancillary systems required to support the basic emission control units (such as ductwork and supports and the CIP systems for the ductwork). The Eichleay study details the potential application of VOC controls to this facility and addresses many of the technical issues and the general site specific factors for wineries. This study developed two separate estimates, one for the fermentation control system installation

("Base Estimate") and a second "Utilities Estimate" to cover the clean-in-place system, the expansion of the plant electric utility and the instrument air system. District staff has reviewed the estimating methodology employed in the Eichleay estimates and found that the estimating approach is fundamentally sound and follows accepted practice in the engineering and construction industry, applying reasonable unit rates and costs for materials and labor for development of direct costs. This information is available to use as a basis for this cost effectiveness analysis. The Eichleay Base and Utilities Estimates are attached as BACT Attachment B.

### Estimating Basis

Estimates of Total Capital Investment (TCI), annual costs, potential emission reductions, and the resulting cost effectiveness have been prepared for each of the control technology cases above utilizing selected portions of the Direct Costs developed by the Eichleay study. The general approach and basis of the estimates is as follows:

1. Except for specific substitutions or modifications as listed below, EPA's cost template for VOC incineration systems, as presented in the EPA Control Cost Manual, Section 3.2, Tables 2.8 and 2.9, was used. Typical site specific factors and other required direct costs not covered by the template have been extracted from the Eichleay study and inserted in the template to cover all the scope elements required for installation of controls on fermentation tanks. To ensure that all estimate cases are comparative, the EPA cost template (with EPA cost factors) was used to develop the direct cost of installing the purchased control device for all estimate cases. The control device is taken to include the upstream separator vessel which is used to separate any entrained liquids from the fermentation tank vent stream before it enters the control device.
2. All estimates are based on the general facilities design prepared by Eichleay for the Gallo winery at Livingston, CA. Using this basis, the impact of substituting different control technologies will be examined. It is assumed that the basic scope of ductwork and supports, tank modifications, ancillary systems and site specific costs will be common to all technologies.
3. The Gallo facility consists of 60 red wine fermentation tanks with a combined nominal capacity of 6,850,000 gallons. In the general facilities design as prepared by Eichleay the tanks are grouped into four separate groups of tanks, each group separately manifolded together and ducted to a separate dedicated control device (See Eichleay drawing SK-30892-001 in BACT Attachment E). The tank groupings are designated as:  

VOC-1	Seventeen (17) 100,000 gallon tanks
VOC-2	Twelve (12) 200,000 gallon tanks
VOC-3	Ten (10) 100,000 gallon tanks and seven (7) 50,000 gallon tanks
VOC-4	Fourteen (14) 100,000 gallon tanks
4. Control device capacity (per the Eichleay study) is based on a peak vapor rate of 9.75 scfm/1000 gallons of wine fermenting at an 85 °F fermentation temperature. Since the Eichleay study was based solely on using a thermal incinerator as the control device, an additional 23.6 % flow capacity is included in the control device capacity to account for the combustion air which must be added since the vent stream from the tank contains only CO<sub>2</sub>, water and ethanol. Other non-combustion control technologies do not require

additional air and may thus be rated at a lower flow capacity. On this basis, the four control devices have been determined to require the following capacities:

<b>Red Fermentation Capture and Control Systems Proposed for Gallo-Livingston Per Eichleay Engineering Study</b>					
VOC Device Number	No. of Tanks	Fermentation Tank Capacity (gallons)	Total Capacity of Red Fermentation Tanks (gallons)	Combustion Control Device Flow Capacity per the Eichleay Study (SCFM)	Non-Combustion Control Device Flow Capacity (SCFM)
VOC-1	17	100,000	1,700,000	16,000	12,900
VOC-2	12	200,000	2,400,000	22,000	17,800
VOC-3	10	100,000	1,350,000	13,000	10,500
	7	50,000			
VOC-4	14	100,000	1,400,000	13,000	10,500
Total	60		6,850,000	64,000	51,700

5. Capacities and costs for control devices for each case were developed based on the capacities of the four VOC systems listed above. Sources for pricing of control devices were as follows:

Recuperative Thermal Oxidizers: EPA Cost Control Manual, Section 3.2, Chapter 2, Equation 2.29

Regenerative Thermal Oxidizers: Vendor quotations obtained by Eichleay Engineering

Carbon Adsorption System: Technical Assessment Document, p.17

Water Scrubbers: STI Study<sup>1</sup>, Table 5

BACT Attachment C presents the developed capacities and estimated purchase prices for the control devices for each estimate case..

6. Purchased equipment costs for the knock out vessels (common to all estimate cases) have been extracted from the main Eichleay estimate. A purchased material cost of \$148,000 for the knock out vessels was taken from page 15 of Eichleay's main estimate. Sizing criteria is presented in the Eichleay study and the pricing was developed based on Eichleay's in-house estimating data for this type of equipment derived from purchasing experience on previous projects.

<sup>1</sup> Sonoma Technology, Inc., Control Technology Evaluation: Wineries - Fermentation Processes, Control Measures Assessment STI-903340-2429a-CMA, October 21, 2003.

7. Direct costs taken from the Eichleay study will be used for estimation of site specific and other costs not covered by the equipment factors in the EPA VOC incineration cost template. These costs include site preparation, ductwork, structural steel pipeway and associated foundations for ductwork support, clean-in-place (CIP) system, expansion of the plant electric utility, modification of fermentation tanks for duct connections, and the instrumentation system for control of tank foam over.
8. Site preparation costs to develop a plot area for the VOC control equipment have been extracted from page 4 of the main Eichleay estimate which the District considers to be typical of the requirements which would be encountered at most existing major wineries. Most wineries are constructed with the tanks located in tight groups with minimal spacing between the tanks, requiring that control devices be installed on the perimeter of the winery, typically undeveloped agricultural land. Extracted costs from the Eichleay include subcontract pricing for demolition of an existing road, installation and compaction of fill, and new pavement to develop a plot space sufficient to install four new control devices with upstream separators and associated piping and ducting. These costs total \$1,254,000 and are based on budgetary subcontract pricing obtained by Eichleay.
9. The total direct cost for ductwork was extracted from the Eichleay study. A material cost of \$1,104,800 and an installation labor cost of \$940,500 for the ductwork has been extracted from pages 16 through 23 of the main Eichleay estimate. California sales tax of 8% and freight charges of 3% were added to the materials cost to arrive at a direct cost of \$2,167,000 for the ductwork. Estimated ductwork quantities are based on Eichleay plan drawing SK-30913-001 and the process flow diagram presented in Eichleay drawing SK-30892-003 (see BACT Attachment E). Unit costs for fabricated stainless steel ductwork were based on a budgetary quotation obtained by Eichleay from Viron International, a ductwork spool fabricator.
10. A material cost of \$1,779,600 and an installation labor cost of \$752,000 for structural steel to support the new ductwork system and associated piping has been extracted from the totals presented on page 8 of the Eichleay base estimate. California sales tax of 8% and freight charges of 3% were added to the materials cost to arrive at a direct cost of \$2,727,000 for the structural steel. Steel design and quantities in this estimate are based on Eichleay plan drawing SK-30913-001 and the steel structure sections presented in Eichleay drawing SK-S12 (see BACT Attachment E). Fabricated steel pricing was based on a quotation obtained by Eichleay from a structural steel fabricator in Bakersfield, CA.
11. Costs for heavy lift equipment including heavy cranes and use of a helicopter operation to set steel structures and ductwork was taken from page 24 of the main Eichleay estimate. Pricing was obtained by Eichleay from a helicopter firm based out of the Fresno Airport.
12. The Eichleay utility estimate developed a total direct cost of \$5,859,000 for both the CIP system and the expansion of the plant electric utility. Eichleay drawing SK-30892-004 provides a piping and instrumentation diagram for the CIP chemicals storage and supply system. Drawing SK-30892-006 illustrates the CIP spray header installation in the ductwork. Expansion of the electric utility included new 12 kV switchgear and 1500 kVA transformer to supply power from the existing switchyard to the project (see Eichleay drawings 30892-SK-E01 and E02). A direct allocated cost of \$314,000 for the electric utility expansion was extracted from page 8 of the utilities estimate. Total Direct Cost for this item is taken as 391,000 after pro-rating the Contractor's Fee and other unallocated construction expense from the estimate. The balance of the Total Direct Cost (labeled



“Field Cost” in the estimate summary sheet) is the direct cost of \$5,468,000 for the CIP system (this figure includes a small amount for expansion of the plant instrument air system also).

13. The direct costs (materials, labor, and subcontracts) to modify the fermentation tanks for installation of new nozzles required for connection of ductwork includes costs for build and teardown of scaffolding in each tank, demolition of existing insulation, machine cutting of each tank, fabrication and installation of new nozzles, and post-weld passivation of the tank. These costs are taken from pages 15 and 16 of the main estimate and total \$487,000.
14. The direct cost for an instrumentation system for control of tank foam over was taken from page 13 of the main Eichleay estimate. The materials cost of \$514,800 for capacitance probes, actuated butterfly valves and switches to be installed on each tank was adjusted to include California sales tax and a 3% freight cost. Installation labor of \$57,600 from page 13 was added to yield a total direct cost for this item of \$629,000. Design basis for the system is presented in Eichleay drawing SK-30892-007 (see BACT Attachment E). Unit material costs are based on budgetary vendor's pricing obtained by Eichleay. Unit labor factors and costs are based on Eichleay's in-house estimating data.
15. The EPA model cost factor for foundations and supports is 8% of purchased equipment cost which in this case is applicable to only the control device and the knock out vessel. It thus does not factor in the costs of foundations for the substantial steel structures required for this project. Therefore, this cost was extracted from the Eichleay study and added as a direct cost in the estimate. Foundation design for the pipeway consists of drilled concrete piers for support of pipeway structures which require a minimal footprint relative to conventional footers and for this reason are the standard approach for support under new steel columns when they are being installed in congested areas in existing industrial facilities. Direct costs (material + labor + subcontract) for concrete pier foundations have been extracted from page 5 of the estimate (\$247,000) which covers drilling, rebar fabrication and setting, forming, pouring and finishing of the drilled piers. Estimated quantities are based on Eichleay plan drawing SK-30913-001 and the steel structure sections presented in Eichleay drawing SK-S12. The unit costs were based on Eichleay's historical experience with subcontract pricing for these items.
16. Construction Expense and Contractor's Fee have been included in the direct costs at 8% and 10 percent of all other direct costs respectively. These percentages reflect those used in the Eichleay study and are typical based on District Staff's experience. For comparison, Peters & Timmerhaus<sup>2</sup> recommend 10% and 7% for the items respectively.
17. Annual natural gas usage of 67,412 therms was estimated for the Gallo Livingston design by Eichleay (Appendix G of the Eichleay study) based on a 12 week season and 95% thermally efficient RTO's operating 50% of the time with an ethanol concentration of 6,034 ppm for 50% of the time and in hot standby the other 50% with allowance for startups. This natural gas usage will be used as the basis for the cost effectiveness calculations, factored as required for the thermal efficiency basis of the proposed control unit.
18. Long term natural gas price is assumed to be \$8.00 per MMBtu

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<sup>2</sup> Peters, Max and Klaus Timmerhaus, Plant Design and Economics for Chemical Engineers, McGraw-Hill, New York, 1968, p. 115.

19. Power consumption for the Gallo facility is estimated by Eichleay at 586 kW (Appendix G of the Eichleay study). Since essentially all this power is consumed by the induced draft fans at the VOC control unit, this power basis will be assumed to be the same for the induced draft fans associated with all control technologies, factored down as required for control units not requiring combustion air.
20. Power consumption will be based on a 120 day crush season and a power cost of \$0.11/kWh.
21. BACT Attachment D presents a tabulation of the utilities and other annual costs for each estimate case as well as the details of the basis and calculations.
22. Costs presented are 2009 basis. A conservative assumption of 0% escalation since that date is made.
23. Engineering cost and construction management costs have been included at 15% and 3% of the Total Direct Cost based on the percentages applied in the Eichleay Study. These percentages reflect those used in the Eichleay study and are typical based on District Staff's experience. A value of 15% for engineering is generally less than that recommended by Peters & Timmerhaus<sup>3</sup> who indicate engineering costs typically are in the range of 4-21% of Total Capital Investment with a median value of 13%.
24. Calculated VOC emission reductions will be debited for collateral NOx and VOC production from firing of natural gas where applicable based on 1 lb NOx = 1 lb VOC. For natural gas, emissions are based on 0.1 lb-NOx/MMBtu and 0.0055 lb-VOC/MMBtu per AP-42. Calculated emissions from natural gas firing are presented in the following table:

<b>Natural Gas Combustion Emissions</b>					
<b>Item</b>	<b>Case 1 Thermal Ox</b>	<b>Case 2 RTO</b>	<b>Case 3 Refrigerated Condenser</b>	<b>Case 4 Water Scrubber</b>	<b>Case 5 Carbon Adsorption</b>
Natural Gas Combustion MMBtu/year	134,820	6,741	0	0	0
Annual NOx Emissions From Natural Gas tons-NOx/year	6.7	0.34	0	0	0
Annual VOC Emissions From Natural Gas tons-VOC/year	0.4	0.02	0	0	0
<b>Total NOx + VOC from Natural Gas tons per year</b>	<b>7.1</b>	<b>0.4</b>	<b>0</b>	<b>0</b>	<b>0</b>

<sup>3</sup> Peters, Max and Klaus Timmerhaus, Plant Design and Economics for Chemical Engineers, McGraw-Hill, New York, 1968, p. 115.

25. Contingency has been included at 10% of the sum of Total Direct Cost and Total Indirect Cost. This value is given as typically 8-20% with an average of 10% by Peters and Timmerhaus<sup>4</sup>
26. Operating labor requirement was estimated one full time operator for all four VOC control systems with 3 shifts per day for the duration of the 120 day crush operation.
27. Maintenance labor requirement was estimated at 80 hours per week for all four control systems during a total of 20 weeks per year.
28. Operating and maintenance labor cost was included at \$19.50/hour and \$33.00 for year 2005 respectively per the Eichleay study and escalated at 4% to 2009.
29. Maintenance materials have been estimated at 3% of TCI. (Peters and Timmerhaus give a typical value of 6% for general process industries).
30. Total Capital Investment has been annualized based on a 10 year equipment life and a 10% opportunity cost for capital (CRF = 0.163).
31. Calculation of potential emissions from fermentation is based upon the red wine emission factor of 6.2 lb-ethanol per 1000 gallons of red wine and upon the maximum potential wine production capacity for the fermentation tanks. Maximum annual throughput capacity is calculated as follows:

Red crush season duration of 120 days

Five day batch processing period for red wine fermentation; maximum number of batches per season = 120 days/season ÷ 5 days/ batch = 24 batches per season

Total red wine fermenter volume in this estimate = 6,850,000 gallons

Maximum fill for red wine fermenter (due to foaming/expansion) = 80%

Maximum wine production capacity = working capacity of fermenters x # batches per season = 6,850,000 x 80% x 24 = 131,520,000 gallons per year

VOC Emissions = 131,520,000 gallons/year x 6.2 lb-VOC/1000 gallons  
= 815,400 lb-VOC/year = **407.7 tons-VOC/year**

### **Cost Effectiveness Estimates**

Table 1 presents the development of Total Capital Investment (TCI) for all capture and control cases based on the general facilities design prepared by Eichleay (including site specific costs and CIP) and Table 2 presents the associated annual costs, emission reductions, and cost effectiveness for each capture and control case.

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<sup>4</sup> Peters, Max and Klaus D. Timmerhaus, Plant Design and Economics for Chemical Engineers, McGraw-Hill, New York, 1968, p.116.

**Table 1**  
**Total Capital Investment for VOC Control of Red Wine Fermentation**

	Case 1 Thermal Ox	Case 2 RTO	Case 3 Refrigerated Condenser	Case 4 Water Scrub	Case 5 Carbon Adsorption
<b>Direct Costs</b>					
<b>Purchased Equipment Costs</b>					
Control Device	\$745,000	\$1,854,000	\$3,003,000	\$396,000	\$1,667,000
Knock Out Vessels	\$148,000	\$148,000	\$148,000	\$148,000	\$148,000
Subtotal Equipment (A)	\$893,000	\$2,002,000	\$3,151,000	\$544,000	\$1,815,000
Instrumentation (0.10 x A)	\$89,000	\$200,000	\$315,000	\$54,000	\$182,000
Sales Tax (0.08 x A)	\$71,000	\$160,000	\$252,000	\$44,000	\$145,000
Freight (0.05 x A)	\$45,000	\$100,000	\$158,000	\$27,000	\$91,000
Purchased Equipment Cost (PEC)	\$1,098,000	\$2,462,000	\$3,876,000	\$669,000	\$2,233,000
<u>Direct Installation Costs for Purchased Equipment</u>					
Foundations and Supports	\$88,000	\$197,000	\$310,000	\$54,000	\$179,000
Handling & Erection	\$154,000	\$345,000	\$543,000	\$94,000	\$313,000
Electrical	\$44,000	\$98,000	\$155,000	\$27,000	\$89,000
Piping	\$22,000	\$49,000	\$78,000	\$13,000	\$45,000
<u>Direct Costs Not Included Above</u>					
Structural Steel Pipeway	\$2,727,000	\$2,727,000	\$2,727,000	\$2,727,000	\$2,727,000
Ductwork	\$2,167,000	\$2,167,000	\$2,167,000	\$971,000	\$971,000
Pipeway Foundations	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000
Site Prep	\$1,254,000	\$1,254,000	\$1,254,000	\$1,254,000	\$1,254,000
CIP System	\$5,468,000	\$5,468,000	\$5,468,000	\$5,468,000	\$5,468,000
Electrical Utility	\$391,000	\$391,000	\$391,000	\$391,000	\$391,000
Tank Modifications	\$487,000	\$487,000	\$487,000	\$487,000	\$487,000
Foam Over Control System	\$629,000	\$629,000	\$629,000	\$629,000	\$629,000
Heavy Lift Equipment	\$1,192,000	\$1,192,000	\$1,192,000	\$1,192,000	\$1,192,000
Subtotal	\$15,968,000	\$17,713,000	\$19,524,000	\$14,223,000	\$16,225,000
Construction Expense	\$1,277,000	\$1,417,040	\$1,561,920	\$1,137,840	\$1,298,000
Contractor's Fee	\$1,597,000	\$1,771,300	\$1,952,400	\$1,422,300	\$1,622,500
<b>Total Direct Costs</b>	<b>\$18,842,000</b>	<b>\$20,901,340</b>	<b>\$23,038,320</b>	<b>\$16,783,140</b>	<b>\$19,145,500</b>
<u>Indirect Costs</u>					
Engineering	\$2,826,000	\$3,135,000	\$3,456,000	\$2,517,000	\$2,872,000
Construction Management Expense	\$565,000	\$627,000	\$691,000	\$503,000	\$574,000
Start Up	\$22,000	\$49,000	\$78,000	\$13,000	\$45,000
Performance Test	\$11,000	\$25,000	\$39,000	\$7,000	\$22,000
Contingencies	\$2,227,000	\$2,474,000	\$2,730,000	\$1,982,000	\$2,266,000
<b>Total Indirect Costs</b>	<b>\$5,651,000</b>	<b>\$6,310,000</b>	<b>\$6,994,000</b>	<b>\$5,022,000</b>	<b>\$5,779,000</b>
<b>Total Capital Investment</b>	<b>\$21,619,000</b>	<b>\$24,023,000</b>	<b>\$26,518,000</b>	<b>\$19,245,000</b>	<b>\$22,004,000</b>

**Table 2**  
**Annual Costs for VOC Control of Red Wine Fermentation**

<b>Control Device</b>	<b>Case 1 Thermal Ox</b>	<b>Case 2 RTO</b>	<b>Case 3 Refrigerated Cond.</b>	<b>Case 4 Water Scrubber</b>	<b>Case 5 Carbon Adsorption</b>
Total Capital Investment	\$21,619,000	\$24,023,000	\$26,518,000	\$19,245,000	\$22,004,000
Direct Annual Costs					
Labor & Materials					
Operating Labor (.5 hr/shift-unit @ \$22.81/hour)	\$65,700	\$65,700	\$65,700	\$65,700	\$65,700
Supervisor (15% of operator cost)	\$9,900	\$9,900	\$9,900	\$9,900	\$9,900
Operating Materials (15% of total maintenance cost)	\$104,700	\$112,500	\$123,700	\$91,000	\$103,400
Maintenance Labor (0.5 hr/shift-unit @ \$38.60/hour)	\$49,400	\$29,200	\$29,200	\$29,200	\$29,200
Maintenance Materials (3% of TCI)	\$648,600	\$720,700	\$795,500	\$577,400	\$660,100
Utilities	\$1,263,600	\$239,500	\$399,600	\$2,194,400	\$407,200
<b>Total Direct Annual Cost</b>	<b>\$2,141,900</b>	<b>\$1,177,500</b>	<b>\$1,423,600</b>	<b>\$2,967,600</b>	<b>\$1,275,500</b>
Indirect Annual Costs					
Overhead (60% of labor & Mat'ls)	\$527,000	\$562,800	\$614,400	\$463,900	\$521,000
Administrative Charges (2% of TCI)	\$432,400	\$480,500	\$530,400	\$384,900	\$440,100
Property Taxes (2% TCI)	\$432,400	\$480,500	\$530,400	\$384,900	\$440,100
Insurance (1% TCI)	\$216,200	\$240,200	\$265,200	\$192,500	\$220,000
Capital Recovery (CRF = 0.163)	<u>\$3,523,900</u>	<u>\$3,915,700</u>	<u>\$4,322,400</u>	<u>\$3,136,900</u>	<u>\$3,586,700</u>
<b>Total Indirect Annual Cost</b>	<b>\$5,131,900</b>	<b>\$5,679,700</b>	<b>\$6,262,800</b>	<b>\$4,563,100</b>	<b>\$5,207,900</b>
<b>Total Annualized Cost</b>	<b>\$7,273,800</b>	<b>\$6,857,200</b>	<b>\$7,686,400</b>	<b>\$7,530,700</b>	<b>\$6,483,400</b>
Emission Reductions					
Uncontrolled Emissions tpy	407.70	407.70	407.70	407.70	407.70
Collection & Control Efficiency	88%	88%	81%	81%	86%
Annual Emission Reduction tpy	358.78	358.78	330.24	330.24	350.62
Natural Gas Emissions tpy	7.11	0.36	0.00	0.00	0.00
Net Emission Reduction tpy	351.67	358.42	330.24	330.24	350.62
<b>Cost Effectiveness \$/ton</b>	<b>\$20,700</b>	<b>\$19,100</b>	<b>\$23,300</b>	<b>\$22,800</b>	<b>\$18,500</b>

## Step 5 – Select BACT

As estimated in Tables 1 and 2, the cost effectiveness of all technologies evaluated lie between \$18,500 and \$23,300 per ton. As discussed previously, since the evaluation basis for this determination was the control of emissions from large red wine fermenters it may be inferred that the calculated values are significantly lower than that which would be evaluated for white wine fermenters due to the lower emission factor and lower potential wine production rate for white wine fermentation tanks. In addition, since this study evaluated emission controls on what is currently the largest red wine fermentation plant in the world, the results are applicable to fermentation tanks of all sizes due to 1) wineries with smaller tanks will be less cost effective due to increasing redundancy and/or loss of economies of scale and 2) proposed new wineries with a capacity equal to or exceeding Gallo-Livingston would be less cost effective since, due to market considerations which are currently driving the industry toward smaller fermentation batches of more premium wine, a new fermentation facility would most likely be configured with a larger number of smaller tanks and a corresponding greater number of VOC control systems per gallon of capacity. Therefore, the evaluated cost effectiveness values above represent the low end of the range of cost effectiveness and any direct evaluation of the Golden State facility is expected to yield a value which is significantly higher than those above.

The lowest evaluated cost effectiveness of \$18,500 per ton exceeds the District's cost effectiveness threshold of \$17,500 per ton for VOC. Therefore, since all Technologically Feasible BACT options have been demonstrated to not be cost effective, the fermentation tanks for Golden State will be permitted for operation with Achieved-in-Practice BACT (operation with open top tank and a maximum average fermentation temperature of 95 °F).

### Attachments:

- BACT Attachment A: Eichleay Estimates for Fermentation Controls at Gallo Livingston
- BACT Attachment B: Sizing and Purchase Costs for Control Devices
- BACT Attachment C: Utilities and other Annual Costs
- BACT Attachment D: Eichleay Drawings

**BACT Attachment A**  
**Eichleay Estimates for Fermentation Controls at Gallo**  
**Livingston**



Eichley Engineers Inc. of California

**ESTIMATE SUMMARY SHEET**

Client Name: Wine Institute

Estimated By: P.H.M.

Job Number: 30913

**PRELIMINARY ESTIMATE**

Checked By: R.H.

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	TOTAL COSTS				GRAND
		RTO-1	RTO-2	RTO-3	RTO-4	TOTAL
<b>SUMMARY</b>						
2.00	Site Construction	\$1,253,680	\$5,450	\$5,450	\$5,450	\$1,270,030
3.00	Concrete	\$208,450	\$81,500	\$85,500	\$69,500	\$444,950
4.00	Masonry					\$0
5.00	Metals	\$1,499,010	\$395,028	\$361,670	\$275,846	\$2,531,554
6.00	Wood & Plastics					\$0
7.00	Thermal & Moisture Protection					\$0
8.00	Door & Windows					\$0
9.00	Finishes					\$0
10.00	Specialties	\$8,620	\$0	\$0	\$0	\$8,620
11.00	Equipment					\$0
12.00	Furnishings					\$0
13.00	Special Construction					\$0
14.00	Conveying Systems					\$0
15.00	Mechanical HVAC & Plumbing					\$0
16.00	Electrical	\$116,439	\$28,212	\$27,326	\$32,226	\$204,203
17.00	Instruments & Controls	\$340,195	\$199,195	\$199,195	\$199,195	\$937,780
18.00	Process Piping & Equipment	\$1,553,959	\$1,572,913	\$1,438,695	\$1,361,843	\$5,927,410
	<b>Sub Total</b>	<b>\$4,980,353</b>	<b>\$2,282,298</b>	<b>\$2,117,836</b>	<b>\$1,944,060</b>	<b>\$11,324,547</b>
	Tax & Freight	282,779	125,680	113,112	106,828	\$628,398
	General Conditions	\$421,051	\$192,638	\$178,476	\$164,071	\$956,236
	General Contractor Mark-Up	\$478,373	\$220,042	\$204,924	\$187,479	\$1,090,818
	<b>Field Costs - Sub Total</b>	<b>\$6,162,556</b>	<b>\$2,820,657</b>	<b>\$2,614,348</b>	<b>\$2,402,438</b>	<b>\$13,999,999</b>
	Design Fee Allowance	924,383	423,099	392,152	360,366	\$2,100,000
	Construction Management Allowance	\$184,877	\$84,620	\$78,430	\$72,073	\$420,000
	Plan Check & Permit Fee Allowance	\$21,843	\$9,708	\$8,737	\$8,252	\$48,539
	Third Party Inspection Allowance	\$16,382	\$7,281	\$6,553	\$6,189	\$36,404
	Escalation	\$281,415	\$131,806	\$125,029	\$119,047	\$657,297
	Project Contingency	\$2,070,463	\$920,206	\$828,185	\$782,175	\$4,601,028
	<b>Sub Total</b>	<b>\$9,661,919</b>	<b>\$4,397,375</b>	<b>\$4,053,435</b>	<b>\$3,750,538</b>	<b>\$21,863,267</b>
	Owners Costs	\$92,438	\$42,310	\$39,215	\$36,037	\$210,000
	Round Off	-\$357	\$315	\$350	\$425	\$733
	<b>GRAND TOTAL</b>	<b>\$9,754,000</b>	<b>\$4,440,000</b>	<b>\$4,093,000</b>	<b>\$3,787,000</b>	<b>\$22,074,000</b>

Prepared By:

*R.H. [Signature]*  
6/24/05

Date:

Approved By

*R.V. [Signature]*  
6/24/05

Date:





Eichleay Engineers Inc. of California

**ESTIMATE SUMMARY SHEET**

Client Name: Wine Institute

Estimated By: P.H.M.

Job Number: 30913

**PRELIMINARY ESTIMATE**

Checked By: R.H.

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

Rev. 2 Date: 6/24/05

**W/O ESCALATION & OWNERS COSTS**

CODE	ITEM DESCRIPTION	TOTAL COSTS				GRAND
		RTO-1	RTO-2	RTO-3	RTO-4	TOTAL
<b>SUMMARY</b>						
2.00	Site Construction	\$1,253,680	\$5,450	\$5,450	\$5,450	\$1,270,030
3.00	Concrete	\$208,450	\$81,500	\$85,500	\$69,500	\$444,950
4.00	Masonry					\$0
5.00	Metals	\$1,499,010	\$395,028	\$361,670	\$275,846	\$2,531,554
6.00	Wood & Plastics					\$0
7.00	Thermal & Moisture Protection					\$0
8.00	Door & Windows					\$0
9.00	Finishes					\$0
10.00	Specialties	\$8,620	\$0	\$0	\$0	\$8,620
11.00	Equipment					\$0
12.00	Furnishings					\$0
13.00	Special Construction					\$0
14.00	Conveying Systems					\$0
15.00	Mechanical HVAC & Plumbing					\$0
16.00	Electrical	\$116,439	\$28,212	\$27,326	\$32,226	\$204,203
17.00	Instruments & Controls	\$340,195	\$199,195	\$199,195	\$199,195	\$937,780
18.00	Process Piping & Equipment	\$1,553,959	\$1,572,913	\$1,438,695	\$1,361,843	\$5,927,410
	<b>Sub Total</b>	<b>\$4,980,353</b>	<b>\$2,282,298</b>	<b>\$2,117,836</b>	<b>\$1,944,060</b>	<b>\$11,324,547</b>
	Tax & Freight	282,779	125,680	113,112	106,828	\$628,398
	General Conditions	\$421,051	\$192,638	\$178,476	\$164,071	\$956,236
	General Contractor Mark-Up	\$478,373	\$220,042	\$204,924	\$187,479	\$1,090,818
	<b>Field Costs - Sub Total</b>	<b>\$6,162,556</b>	<b>\$2,820,657</b>	<b>\$2,614,348</b>	<b>\$2,402,438</b>	<b>\$13,999,999</b>
	Design Fee Allowance	924,383	423,099	392,152	360,366	\$2,100,000
	Construction Management Allowance	\$184,877	\$84,620	\$78,430	\$72,073	\$420,000
	Plan Check & Permit Fee Allowance	\$21,843	\$9,708	\$8,737	\$8,252	\$48,539
	Third Party Inspection Allowance	\$16,382	\$7,281	\$6,553	\$6,189	\$36,404
	Escalation					\$0
	Project Contingency	\$2,070,463	\$920,206	\$828,185	\$782,175	\$4,601,028
	<b>Sub Total</b>	<b>\$9,380,504</b>	<b>\$4,265,569</b>	<b>\$3,928,405</b>	<b>\$3,631,491</b>	<b>\$21,205,969</b>
	Owners Costs					\$0
	Round Off	\$31				\$31
	<b>GRAND TOTAL</b>	<b>\$9,380,535</b>	<b>\$4,265,569</b>	<b>\$3,928,405</b>	<b>\$3,631,491</b>	<b>\$21,206,000</b>

Prepared By:

*P.H.M.*

Date:

6/24/05

Approved By:

*R.W. Wedger*

Date:

6/24/05



Eichley Engineers Inc. of California

ESTIMATE SUMMARY SHEET

Client Name: Wine Institute

Estimated By: P.H.M.

Job Number: 30913

PRELIMINARY ESTIMATE

Checked By: R.H.

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

Rev. 2 Date: 6/24/05

W/O Escalation & Owners Costs

CODE	ITEM DESCRIPTION	TOTAL MHRS	TOTAL COSTS			TOTAL
			LABOR	MAT'L	SUBCON.	
<b>SUMMARY</b>						
2.00	Site Construction		\$0	\$0	\$1,270,030	\$1,270,030
3.00	Concrete		\$0	\$0	\$444,950	\$444,950
4.00	Masonry		\$0	\$0	\$0	\$0
5.00	Metals		\$711,959	\$1,779,595	\$40,000	\$2,531,554
6.00	Wood & Plastics		\$0	\$0	\$0	\$0
7.00	Thermal & Moisture Protection		\$0	\$0	\$0	\$0
8.00	Door & Windows		\$0	\$0	\$0	\$0
9.00	Finishes		\$0	\$0	\$0	\$0
10.00	Specialties		\$260	\$0	\$8,360	\$8,620
11.00	Equipment		\$0	\$0	\$0	\$0
12.00	Furnishings		\$0	\$0	\$0	\$0
13.00	Special Construction		\$0	\$0	\$0	\$0
14.00	Conveying Systems		\$0	\$0	\$0	\$0
15.00	Mechanical HVAC & Plumbing		\$0	\$0	\$0	\$0
16.00	Electrical		\$65,016	\$85,787	\$53,400	\$204,203
17.00	Instruments & Controls		\$140,550	\$672,230	\$125,000	\$937,780
18.00	Process Piping & Equipment		\$1,555,068	\$3,175,093	\$1,197,250	\$5,927,411
	<b>Sub Total</b>		<b>\$2,472,853</b>	<b>\$5,712,705</b>	<b>\$3,138,990</b>	<b>\$11,324,548</b>
	Tax & Freight (11%)					\$628,398
	General Conditions (8%)					\$956,236
	General Contractor Mark-Up (10%)					\$1,090,818
	<b>Field Costs - Sub Total</b>					<b>\$13,999,999</b>
	Design Fee Allowance (15%)					\$2,100,000
	Construction Management Allowance (3%)					\$420,000
	Plan Check & Permit Fee Allowance (2%)					\$48,539
	Third Party Inspection Allowance (1.5%)					\$36,404
	Escalation					
	Project Contingency					\$4,601,028
	<b>Sub Total</b>					<b>\$21,205,970</b>
	Owners Costs					\$0
	Round Off					\$30
	<b>GRAND TOTAL</b>					<b>\$21,206,000</b>

Prepared By:

Date:

*[Signature]*  
6/24/05

Approved By:

Date:

*[Signature]*  
6/24/05



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

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CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
	<b>020 - Site Construction</b>												
1	Excavation allowance for voc-1		cy					50.00	50.00				
2	Excavation allowance for voc-2	109	cy					50.00	50.00			5,450	5,450
3	Excavation allowance for voc-3	109	cy					50.00	50.00			5,450	5,450
4	Excavation allowance for voc-4	109	cy					50.00	50.00			5,450	5,450
1	Install and compact clean fill for VOC area	25000	cy						35.00	35.00		875,000	875,000
1	Allowance to demo road	1780	sy						6.00	6.00		10,680	10,680
1	Install asphalt in new expanded area including road	92000	sf						4.00	4.00		368,000	368,000
<b>TOTAL - Site Construction</b>												1,270,030	1,270,030



**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

Estimated By: P.H.M.

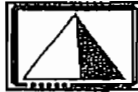
Checked By: R.H.

Rev. 2 Date: 6/24/05

**PRELIMINARY ESTIMATE**

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CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
	<b>030 - Concrete</b>												
	VOC -1 Duct sections												
1	Install drilled piers (20) rack #1	20	ea					1,000.00	1,000.00			20,000	20,000
1	Install drilled piers (20) rack #2	20	ea					1,000.00	1,000.00			20,000	20,000
1	Install drilled piers (42) for main rack inside plant	42	ea					1,500.00	1,500.00			63,000	63,000
1	Install drilled piers (46) for main rack outside plant	46	ea					700.00	700.00			32,200	32,200
1	Install drilled piers (32) for main rack by VOC's	32	ea					700.00	700.00			22,400	22,400
1	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	VOC -2 Duct sections												
2	Install drilled piers (16) rack #3	16	ea					1,000.00	1,000.00			16,000	16,000
2	Install drilled piers (18) rack #4	16	ea					1,000.00	1,000.00			16,000	16,000
2	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	VOC -3 Duct sections												
3	Install drilled piers (16) rack #6	16	ea					1,000.00	1,000.00			16,000	16,000
3	Install drilled piers (20) rack #7	20	ea					1,000.00	1,000.00			20,000	20,000
3	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	VOC -4 Duct sections												
4	Install drilled piers (0) rack #4		ea					1,000.00	1,000.00				
4	Install drilled piers (20) rack #5	20	ea					1,000.00	1,000.00			20,000	20,000
4	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	Allowance for building pad	3	cy					450.00	450.00			1,350	1,350
	<b>TOTAL - Concrete</b>											444,950	444,950



**Eichleay**  
Engineers Inc. of CA.

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**IRREMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
	050 - Metals												
	VOC -1 Duct Section												
1	Fab & Install main duct rack frames ( Inside unit - 45 ft)	21	ea	20	420	65.00	6,500.00		7,800.00	27,300	136,500		163,800
1	Fab & Install main duct rack top connection members	640	ft	0.75	480	65.00	45.00		93.75	31,200	28,800		60,000
1	Fab & Install main duct rack bottom connection members	640	ft	0.75	480	65.00	45.00		93.75	31,200	28,800		60,000
1	Fab & Install main duct rack top cross bracing	80	ea	6	480	65.00	690.00		1,080.00	31,200	55,200		86,400
1	Fab & Install main duct rack lower cross bracing	40	ea	6	240	65.00	950.00		1,340.00	15,600	38,000		53,600
1	Fab & Install main duct rack frames ( outside unit - 25 ft)	23	ea	10	230	65.00	4,420.00		5,070.00	14,950	101,660		116,610
1	Fab & Install main duct rack top connection members	680	ft	0.5	340	65.00	45.00		77.50	22,100	30,600		52,700
1	Fab & Install main duct rack top cross bracing	92	ea	4	368	65.00	600.00		860.00	23,920	55,200		79,120
1	Fab & install main duct rack lower cross bracing	22	ea	4	88	65.00	700.00		960.00	5,720	15,400		21,120
1	Fab & Install main duct rack frames ( VOC area )	16	ea	4	64	65.00	1,430.00		1,690.00	4,160	22,880		27,040
1	3' wide grating on main rack	2700	sf	0.15	405	65.00	19.00		28.75	26,325	51,300		77,625
1	handrails	1800	lf	0.3	540	65.00	75.00		94.50	35,100	135,000		170,100
1	Allowance for grating from main rack to existing catwalks	1	lot	50	50	65.00	5,000.00		8,250.00	3,250	5,000		8,250
1	Allowance for caged ladders	200	ft	0.5	100	65.00	50.00		82.50	6,500	10,000		16,500
1	15 x 8 towers	5	ea	80	400	65.00	14,000.00		19,200.00	26,000	70,000		96,000
1	15' top level connection beams	8	ea	8	64	65.00	550.00		1,070.00	4,160	4,400		8,560
1	cross bracing on top open sections	4	ea	8	32	65.00	300.00		820.00	2,080	1,200		3,280
1	15 x 15 towers	5	ea	80	400	65.00	18,000.00		23,200.00	26,000	90,000		116,000
1	15' top level connection beams	8	ea	8	64	65.00	550.00		1,070.00	4,160	4,400		8,560
1	cross bracing on top open sections	4	ea	8	32	65.00	300.00		820.00	2,080	1,200		3,280
1	3' wide grating on walkway 1 & 2	810	sf	0.15	121.5	65.00	19.00		28.75	7,898	15,390		23,288
1	3' wide grating to tanks	510	sf	0.15	76.5	65.00	19.00		28.75	4,973	9,690		14,663
1	handrails	920	lf	0.3	276	65.00	75.00		94.50	17,940	69,000		86,940
1	grating to existing catwalks	120	sf	0.15	18	65.00	19.00		28.75	1,170	2,280		3,450



**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
VOC-2 Duct Section													
2	15 x 15 towers	4	ea	20	80	65.00	20,000.00		21,300.00	5,200	80,000		85,200
2	20' top level connection beams	6	ea	2	12	65.00	700.00		830.00	780	4,200		4,980
2	cross bracing on top open sections	3	ea	2	6	65.00	400.00		530.00	390	1,200		1,590
2	15 x 15 towers	3	ea	20	60	65.00	20,000.00		21,300.00	3,900	60,000		63,900
2	15' top level connection beams	4	ea	2	8	65.00	550.00		680.00	520	2,200		2,720
2	cross bracing on top open sections	2	ea	2	4	65.00	300.00		430.00	260	600		860
2	15 x 20 towers - shared vertical colums	2	ea	20	40	65.00	20,000.00		21,300.00	2,600	40,000		42,600
2	15 x 15 tower	1	ea	20	20	65.00	10,000.00		11,300.00	1,300	10,000		11,300
2	3' wide grating on walkway 3, 4' wide on walkway 4	945	sf	0.15	141.75	65.00	19.00		28.75	9,214	17,955		27,169
2	3' wide grating to tanks	360	sf	0.15	54	65.00	19.00		28.75	3,510	6,840		10,350
2	handrails	820	lf	0.3	246	65.00	75.00		94.50	15,990	61,500		77,490
2	grating to existing catwalks	165	sf	0.15	24.75	65.00	19.00		28.75	1,609	3,135		4,744
VOC-3 Duct Section													
3	20 x 8 towers	3	ea	20	60	65.00	15,000.00		16,300.00	3,900	45,000		48,900
3	20' top level connection beams	6	ea	2	12	65.00	700.00		830.00	780	4,200		4,980
3	cross bracing on top open sections	3	ea	2	6	65.00	400.00		530.00	390	1,200		1,590
3	15 x 8 towers	1	ea	20	20	65.00	14,000.00		15,300.00	1,300	14,000		15,300
3	15 x 15 towers	5	ea	20	100	65.00	18,000.00		19,300.00	6,500	90,000		96,500
3	15' top level connection beams	8	ea	2	16	65.00	550.00		680.00	1,040	4,400		5,440
3	cross bracing on top open sections	4	ea	2	8	65.00	300.00		430.00	520	1,200		1,720
3	3' wide grating on walkway 6 & 7	810	sf	0.15	121.5	65.00	19.00		28.75	7,898	15,390		23,288
3	3' wide grating to tanks	510	sf	0.15	76.5	65.00	19.00		28.75	4,973	9,690		14,663
3	handrails	920	lf	0.3	276	65.00	75.00		94.50	17,940	69,000		86,940
3	grating to existing catwalks	60	sf	0.15	9	65.00	19.00		28.75	585	1,140		1,725



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
	VOC-4 Duct Section												
4	15 x 15 towers	5	ea	20	100	65.00	18,000.00		19,300.00	6,500	90,000		96,500
4	15' top level connection beams	8	ea	2	16	65.00	550.00		680.00	1,040	4,400		5,440
4	cross bracing on top open sections	4	ea	2	8	65.00	300.00		430.00	520	1,200		1,720
4	shared end section with voc-2	1	ea	40	40	65.00	10,000.00		12,600.00	2,600	10,000		12,600
4	3' wide grating on walkway 7	405	sf	0.15	60.75	65.00	19.00		28.75	3,949	7,695		11,644
4	3' wide grating to tanks	450	sf	0.15	67.5	65.00	19.00		28.75	4,388	8,550		12,938
4	handrails	840	lf	0.3	252	65.00	75.00		94.50	16,380	63,000		79,380
ALL	Allowance for additional supports & grating	1	lot	500	500	65.00	70,000.00		102,500	32,500	70,000		102,500
1	Crane to install main rack outside plant area	3	wks					2,000.00	2,000.00			6,000	6,000
1	( 40 ton)	1	lot	120	120	75.00			9,000.00	9,000			9,000
1	Allowance for small cranes to position steel (3)	6	mo	160	960	75.00		2,000.00	14,000.00	72,000		12,000	84,000
2	Allowance for small cranes to position steel (2)	2	mo	160	320	75.00		2,000.00	14,000.00	24,000		4,000	28,000
3	Allowance for small cranes to position steel (2)	2	mo	160	320	75.00		2,000.00	14,000.00	24,000		4,000	28,000
4	Allowance for small cranes to position steel (2)	2	mo	160	320	75.00		2,000.00	14,000.00	24,000		4,000	28,000
ALL	allowance for overtime to build structures to work around helicopter usage	1	lot	1000	1000	25.00			25,000.00	25,000			25,000
ALL	Allowance to touch up paint	1	lot					10,000.00	10,000.00			10,000	10,000
	<b>TOTAL - Metals</b>				11255					711,959	1,779,595	40,000	2,531,554



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

O:\30913\5.0 Design Documents\Estimates\Rev. 2\Living

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$/Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
	<b>010 - Specialties</b>												
1	Allowance for modular structure for operator at the VOC units	96	sf					85.00	85.00			8,160	8,160
1	Allowance to set in place & tie down	1	lot	4	4	65.00		200.00	460.00	260		200	460
	<b>TOTAL - Specialties</b>				4					260		8,360	8,620



Client Name: Wine Institute

Job Number: 30913

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Eichler  
Engineers Inc. of CA

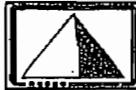
**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
	016 - Electrical												
	POWER DISTRIBUTION												
	VOC -1												
1	DISCONNECT SWITCH FUSABLE, 400A, 600V, 3PH, 3W	1	EA	10	10	75.00	2,025.00		2,775.00	750	2,025		2,775
1	#600 MCM CONDUCTOR	1.2	CLF	6.154	7	75.00	475.00		936.55	554	570		1,124
1	#2 GROUND	5	CLF	1.778	9	75.00	47.00		180.35	667	235		902
1	3" RIGID ALUMINUM	40	LF	0.18	7	75.00	9.45		22.95	540	378		918
1	3" IN-LINE PULL FITTINGS	2	EA	2.7	5	75.00	415.00		617.50	405	830		1,235
1	16X16X6 PULL BOX	1	EA	6.15	6	75.00	810.00		1,271.25	461	810		1,271
1	3"90-DEGREE RGS,PVC COATED	2	EA	1.9	4	75.00	69.00		211.50	285	138		423
1	FUSE 400A	3	EA	0.333	1	75.00	130.00		154.98	75	390		465
1	3000A main switchboard	1	EA	28.57	29	75.00	4,675.00		6,817.75	2,143	4,675		6,818
1	3000A 600V CIRCUIT BREAKER	1	EA	36.36	36	75.00	24,300.00		27,027.00	2,727	24,300		27,027
1	BUS CIRCUIT BREAKER 400A 480V 3PH	1	EA	3	3	75.00	3,100.00		3,325.00	225	3,100		3,325
1	MISC SUPPORTS, FITTINGS, TERMINATIONS	1	LOT							1,766	7,490		9,257
1	CHECKOUT AND TESTING	1	LOT	100	100	75.00			7,500.00	7,500			7,500
	VOC -2												
2	DISCONNECT SWITCH FUSABLE, 600A, 600V, 3PH, 3W	1	EA	16	16	75.00	3,000.00		4,200.00	1,200	3,000		4,200
2	#600 MCM CONDUCTOR	2.4	CLF	7.3	18	75.00	585.00		1,132.50	1,314	1,404		2,718
2	#2 GROUND	5	CLF	1.778	9	75.00	47.00		180.35	667	235		902
2	3" RIGID ALUMINUM	80	LF	0.18	14	75.00	9.45		22.95	1,080	756		1,836
2	3" IN-LINE PULL FITTINGS	2	EA	2.7	5	75.00	415.00		617.50	405	830		1,235
2	16X16X6 PULL BOX	1	EA	6.15	6	75.00	810.00		1,271.25	461	810		1,271
2	3"90-DEGREE RGS,PVC COATED	2	EA	1.9	4	75.00	69.00		211.50	285	138		423
2	FUSE 400A	3	EA	0.333	1	75.00	150.00		174.98	75	450		525
2	BUS CIRCUIT BREAKER 400A 480V 3PH	1	EA	5	5	75.00	3,775.00		4,150.00	375	3,775		4,150
2	MISC SUPPORTS, FITTINGS, TERMINATIONS	1	LOT							1,172	2,280		3,452
2	CHECKOUT AND TESTING	1	LOT	100	100	75.00			7,500.00	7,500			7,500



**Eichl**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/UNIT	TOTAL MHR	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
	VOC -3												
3	DISCONNECT SWITCH FUSABLE, 400A, 600V, 3PH, 3W	1	EA	10	10	75.00	2,025.00		2,775.00	750	2,025		2,775
3	#600 MCM CONDUCTOR	3.6	CLF	6.154	22	75.00	475.00		936.55	1,662	1,710		3,372
3	#2 GROUND	5	CLF	1.778	9	75.00	47.00		180.35	667	235		902
3	3" RIGID ALUMINUM	120	LF	0.18	22	75.00	9.45		22.95	1,620	1,134		2,754
3	3" IN-LINE PULL FITTINGS	2	EA	2.7	5	75.00	415.00		617.50	405	830		1,235
3	16X16X6 PULL BOX	1	EA	6.15	6	75.00	810.00		1,271.25	461	810		1,271
3	3"90-DEGREE RGS,PVC COATED	2	EA	1.9	4	75.00	69.00		211.50	285	138		423
3	FUSE 400A	3	EA	0.333	1	75.00	130.00		154.98	75	390		465
3	BUS CIRCUIT BREAKER 400A 480V 3PH	1	EA	3	3	75.00	3,100.00		3,325.00	225	3,100		3,325
3	MISC SUPPORTS, FITTINGS, TERMINATIONS	1	LOT							1,230	2,074		3,304
3	CHECKOUT AND TESTING	1	LOT	100	100	75.00			7,500.00	7,500			7,500
	VOC -4												
4	DISCONNECT SWITCH FUSABLE, 400A, 600V, 3PH, 3W	1	EA	10	10	75.00	2,025.00		2,775.00	750	2,025		2,775
4	#600 MCM CONDUCTOR	6	CLF	6.154	37	75.00	475.00		936.55	2,769	2,850		5,619
4	#2 GROUND	5	CLF	1.778	9	75.00	47.00		180.35	667	235		902
4	3" RIGID ALUMINUM	200	LF	0.18	36	75.00	9.45		22.95	2,700	1,890		4,590
4	3" IN-LINE PULL FITTINGS	2	EA	2.7	5	75.00	415.00		617.50	405	830		1,235
4	16X16X6 PULL BOX	1	EA	6.15	6	75.00	810.00		1,271.25	461	810		1,271
4	3"90-DEGREE RGS,PVC COATED	2	EA	1.9	4	75.00	69.00		211.50	285	138		423
4	FUSE 400A	3	EA	0.333	1	75.00	130.00		154.98	75	390		465
4	BUS CIRCUIT BREAKER 400A 480V 3PH	1	EA	3	3	75.00	3,100.00		3,325.00	225	3,100		3,325
4	MISC SUPPORTS, FITTINGS, TERMINATIONS	1	LOT							1,667	2,454		4,121
4	CHECKOUT AND TESTING	1	LOT	100	100	75.00			7,500.00	7,500			7,500



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute  
Job Number: 30913  
Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.  
Checked By: R.H.  
Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
1	Allowance for installing lighting at VOC areas	1	lot					40,000.00	40,000.00			40,000	40,000
1	Allowance for installing lighting on main duct	670	ft					20.00	20.00			13,400	13,400
<b>TOTAL - Electrical</b>													
					789					65,016	85,787	53,400	204,203



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

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CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
<b>017 - Instruments &amp; Controls</b>													
ALL	Ethanol Analyzer (at RTO)	4	ea	16	64	75.00	20,000.00		21,200.00	4,800	80,000		84,800
ALL	Capacitance probe / transmitter	60	ea	4	240	75.00	1,200.00		1,500.00	18,000	72,000		90,000
ALL	Actuated BF vent valve - 12" fermenter	60	ea	4	240	75.00	6,500.00		6,800.00	18,000	390,000		408,000
ALL	Actuated BF vent valve - 36" KO pots	4	ea	8	32	75.00	10,000.00		10,600.00	2,400	40,000		42,400
ALL	Local hand switch for BF closing	64	ea	4	256	75.00	200.00		500.00	19,200	12,800		32,000
ALL	Relief Vent - KO pots	4	ea	4	16	75.00	3,000.00		3,300.00	1,200	12,000		13,200
	Level transmitter & Indicator					75.00	1,200.00		1,200.00				
ALL	High level switch	4	ea	4	16	75.00	750.00		1,050.00	1,200	3,000		4,200
ALL	Low level switch	4	ea	4	16	75.00	750.00		1,050.00	1,200	3,000		4,200
ALL	Level gauge	4	ea	2	8	75.00	1,000.00		1,150.00	600	4,000		4,600
ALL	Pressure gauge	16	ea	1	16	75.00	300.00		375.00	1,200	4,800		6,000
ALL	Pressure transmitter	4	ea	4	16	75.00	1,500.00		1,800.00	1,200	6,000		7,200
ALL	Temperature gauge w/ TW	16	ea	4	64	75.00	300.00		600.00	4,800	4,800		9,600
1	Temperature transmitter, RTD, TW	2	ea	4	8	75.00	1,200.00		1,500.00	600	2,400		3,000
	Relief valves						300.00		300.00				
	Pressure regulator - liquid						300.00		300.00				
	Pressure regulator - steam						1,500.00		1,500.00				
ALL	On-off control valve Stations	4		4	16	75.00	1,000.00		1,300.00	1,200	4,000		5,200
ALL	Conduit, factored 20' per tank	1200	ft	0.2	240	75.00	8.00		23.00	18,000	9,600		27,600
ALL	Conduit, factored 300' per RTO	1200	ft	0.2	240	75.00	8.00		23.00	18,000	9,600		27,600
ALL	Wire, factored 50' per instrument/valve	7300	ft	0.02	146	75.00	0.10		1.60	10,950	730		11,680
ALL	Allowance for air tubing	1	lot	240	240	75.00	500.00		18,500.00	18,000	500		18,500





**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 8/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
<b>018 - Process Piping &amp; Equipment</b>													
VOC Control Equipment													
1	VOC-1 16,000 scfm RTO unit	1	ea	200	200	65.00	416,000		429,000	13,000	416,000		429,000
2	VOC-2 22,000 scfm RTO unit	1	ea	250	250	65.00	503,000		519,250	16,250	503,000		519,250
3	VOC-3 13,000 scfm RTO unit	1	ea	200	200	65.00	367,000		380,000	13,000	367,000		380,000
4	VOC-4 13,000 scfm RTO unit	1	ea	200	200	65.00	367,000		380,000	13,000	367,000		380,000
all	Adder for RTO for higher SP blower & O2 control loop	4	ea				35,000.00		35,000.00		140,000		140,000
all	Allowance for stainless stack & alum. Grating & handrails	4	ea				15,000.00		15,000.00		60,000		60,000
Install refractory in VOC's													
1	VOC-1	1	lot	80	80	70.00			5,600.00	5,600			5,600
2	VOC-2	1	lot	100	100	70.00			7,000.00	7,000			7,000
3	VOC-3	1	lot	80	80	70.00			5,600.00	5,600			5,600
4	VOC-4	1	lot	80	80	70.00			5,600.00	5,600			5,600
Knock out vessels													
1	KO Vessel for VOC-1 - 5000 gal	1	ea	20	20	65.00	37,000.00		38,300.00	1,300	37,000		38,300
2	KO Vessel for VOC-2 - 7000 gal	1	ea	20	20	65.00	45,000.00		46,300.00	1,300	45,000		46,300
3	KO Vessel for VOC-3 - 4000 gal	1	ea	20	20	65.00	33,000.00		34,300.00	1,300	33,000		34,300
4	KO Vessel for VOC-4 - 4000 gal	1	ea	20	20	65.00	33,000.00		34,300.00	1,300	33,000		34,300
Nozzle Fabrication/Installation at each tank													
all	12" Nozzle(Fabricate)	60	ea	4	240	65.00	215.00		475.00	15,600	12,900		28,500
all	Machine Cut Hole(Specialty Service)	60	ea	2	120	65.00	20.00	600.00	750.00	7,800	1,200	36,000	45,000
all	12" Nozzle(Install)	60	ea	4	240	65.00			260.00	15,600			15,600
all	2" Nozzle(Fabricate)	80	ea	1.5	90	65.00	40.00		137.50	5,850	2,400		8,250
all	Drill Hole W/Hole Saw Auger	60	ea	1	60	65.00			65.00	3,900			3,900
all	2" Nozzle(Install)	60	ea	3	180	65.00			195.00	11,700			11,700



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**IRRESUMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHR	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
all	36" Nozzle(Fabricate)	60	ea	8	480	65.00	350.00		870.00	31,200	21,000		52,200
all	Machine Cut Hole(Specialty Service)	60	ea	4	240	65.00	20.00	600.00	880.00	15,600	1,200	36,000	52,800
all	36" Nozzle(Install)	60	ea	10	600	65.00			650.00	39,000			39,000
	Allowance for passivation												
all	Install gel	180	ea	4	720	65.00	150.00		410.00	46,800	27,000		73,800
all	neutralize & flush & dry	180	ea	2	360	65.00	20.00		150.00	23,400	3,600		27,000
all	Insulation Removal	60	ea	2	120	65.00			130.00	7,800			7,800
all	Scaffolding - 38' tanks(Install)	12	ea	24	288	65.00			1,560.00	18,720			18,720
ALL	Scaffolding - 24' to 28' tanks(Install)	48	ea	20	960	65.00			1,300.00	62,400			62,400
all	Scaffolding - 38' tanks(Remove)	12	ea	12	144	65.00			780.00	9,360			9,360
all	Scaffolding - 24' to 28' tanks(Remove)	48	ea	10	480	65.00			650.00	31,200			31,200
	Ducting Installation												
1	VOC-1												
1	10" Duct	36	ft				54.00		54.00		1,944		1,944
1	10" Duct misc. fittings	1	lot				800.00		800.00		800		800
1	Bolt up	10	ea	1.5	15	65.00			97.50	975			975
1	Handle	9	ea	2.08	18.72	65.00			135.20	1,217			1,217
1	Install	2	lot	2	4	65.00			130.00	260			260
1	12" Duct	40	ft				62.00		62.00		2,480		2,480
1	12" Duct misc. fittings	1	lot				1,000.00		1,000.00		1,000		1,000
1	Bolt up	12	ea	1.5	18	65.00			97.50	1,170			1,170
1	Handle	10	ea	2.08	20.8	65.00			135.20	1,352			1,352
1	Install	2	lot	2	4	65.00			130.00	260			260
1	16" Duct	24	ft				77.00		77.00		1,848		1,848
1	16" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
1	Bolt up	8	ea	2	16	65.00			130.00	1,040			1,040



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$/ Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
1	Handle	6	ea	3	18	65.00			195.00	1,170			1,170
1	Install	2	lot	2	4	65.00			130.00	260			260
1	18" Duct	45	ft				86.00		86.00		3,870		3,870
1	18" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
1	Bolt up	13	ea	3	39	65.00			195.00	2,535			2,535
1	Handle	11	ea	3.52	38.72	65.00			228.80	2,517			2,517
1	Install	3	lot	2	6	65.00			130.00	390			390
1	20" Duct	40	ft				92.00		92.00		3,680		3,680
1	20" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
1	Bolt up	12	ea	4	48	65.00			260.00	3,120			3,120
1	Handle	10	ea	4.6	46	65.00			299.00	2,990			2,990
1	Install	3	lot	3	9	65.00			195.00	585			585
1	22" Duct	60	ft				99.00		99.00		5,940		5,940
1	22" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
1	Bolt up	18	ea	4	72	65.00			260.00	4,680			4,680
1	Handle	16	ea	4.6	73.6	65.00			299.00	4,784			4,784
1	Install	4	lot	3	12	65.00			195.00	780			780
1	24" Duct	18	ft				106.00		106.00		1,908		1,908
1	24" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
1	Bolt up	6	ea	4	24	65.00			260.00	1,560			1,560
1	Handle	5	ea	4.6	23	65.00			299.00	1,495			1,495
1	Install	1	lot	3	3	65.00			195.00	195			195
1	28" Duct	85	ft				119.00		119.00		10,115		10,115
1	28" Duct misc. fittings	1	lot				4,000.00		4,000.00		4,000		4,000
1	Bolt up	22	ea	5.5	121	65.00			357.50	7,865			7,865
1	Handle	21	ea	5.32	111.72	65.00			345.80	7,262			7,262
1	Install	5	lot	3	15	65.00			195.00	975			975
1	36" Duct	385	ft				199.00		199.00		76,615		76,615
1	36" Duct misc. fittings	1	lot				20,000.00		20,000.00		20,000		20,000





**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
1	Bolt up	100	ea	6.5	650	65.00			422.50	42,250			42,250
1	Handle	96	ea	7.2	691.2	65.00			468.00	44,928			44,928
1	Install	20	lot	3	60	65.00			195.00	3,900			3,900
	VOC-2												
2	12" Duct	75	ft				62.00		62.00		4,650		4,650
2	12" Duct misc. fittings	1	lot				1,000.00		1,000.00		1,000		1,000
2	Bolt up	21	ea	1.5	31.5	65.00			97.50	2,048			2,048
2	Handle	19	ea	2.08	39.52	65.00			135.20	2,569			2,569
2	Install	4	lot	2	8	65.00			130.00	520			520
2	18" Duct	65	ft				86.00		86.00		5,590		5,590
2	18" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
2	Bolt up	19	ea	3	57	65.00			195.00	3,705			3,705
2	Handle	17	ea	3.52	59.84	65.00			228.80	3,890			3,890
2	Install	3	lot	2	6	65.00			130.00	390			390
2	22" Duct	50	ft				99.00		99.00		4,950		4,950
2	22" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
2	Bolt up	15	ea	4	60	65.00			260.00	3,900			3,900
2	Handle	13	ea	4.6	59.8	65.00			299.00	3,887			3,887
2	Install	3	lot	3	9	65.00			195.00	585			585
2	24" Duct	35	ft				106.00		106.00		3,710		3,710
2	24" Duct misc. fittings	1	lot				3,000.00		3,000.00		3,000		3,000
2	Bolt up	11	ea	4	44	65.00			260.00	2,860			2,860
2	Handle	9	ea	4.6	41.4	65.00			299.00	2,691			2,691
2	Install	2	lot	3	6	65.00			195.00	390			390
2	28" Duct	15	ft				119.00		119.00		1,785		1,785
2	28" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
2	Bolt up	5	ea	5.5	27.5	65.00			357.50	1,788			1,788
2	Handle	4	ea	5.32	21.28	65.00			345.80	1,383			1,383



**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
2	Install	1	lot	3	3	65.00			195.00	195			195
2	30" Duct	25	ft				128.00		128.00		3,200		3,200
2	30" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
2	Bolt up	8	ea	5.5	44	65.00			357.50	2,860			2,860
2	Handle	6	ea	5.32	31.92	65.00			345.80	2,075			2,075
2	Install	1	lot	3	3	65.00			195.00	195			195
2	32" Duct	285	ft				177.00		177.00		46,905		46,905
2	32" Duct misc. fittings	1	lot				4,500.00		4,500.00		4,500		4,500
2	Bolt up	68	ea	6	408	65.00			390.00	26,520			26,520
2	Handle	66	ea	6	396	65.00			390.00	25,740			25,740
2	Install	13	lot	3	39	65.00			195.00	2,535			2,535
2	42" Duct	415	ft				242.00		242.00		100,430		100,430
2	42" Duct misc. fittings	1	lot				25,000.00		25,000.00		25,000		25,000
2	Bolt up	115	ea	6.5	747.5	65.00			422.50	48,588			48,588
2	Handle	104	ea	7.12	740.48	65.00			482.80	48,131			48,131
2	Install	21	lot	4	84	65.00			260.00	5,460			5,460
	VOC-3												
3	6" Duct	25	ft				38.00		38.00		950		950
3	6" Duct misc. fittings	1	lot				500.00		500.00		500		500
3	Bolt up	7	ea	1	7	65.00			65.00	455			455
3	Handle	6	ea	1.4	8.4	65.00			91.00	546			546
3	Install	1	lot	1.5	1.5	65.00			97.50	98			98
3	10" Duct	35	ft				54.00		54.00		1,890		1,890
3	10" Duct misc. fittings	1	lot				1,000.00		1,000.00		1,000		1,000
3	Bolt up	11	ea	1.5	16.5	65.00			97.50	1,073			1,073
3	Handle	9	ea	1.72	15.48	65.00			111.80	1,006			1,006
3	Install	2	lot	2	4	65.00			130.00	260			260
3	12" Duct	70	ft				62.00		62.00		4,340		4,340



**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
3	12" Duct misc. fittings	1	lot				1,000.00		1,000.00		1,000		1,000
3	Bolt up	20	ea	1.5	30	65.00			97.50	1,950			1,950
3	Handle	18	ea	2.08	37.44	65.00			135.20	2,434			2,434
3	Install	3	lot	2	6	65.00			130.00	390			390
3	16" Duct	48	ft				69.00		69.00		3,312		3,312
3	16" Duct misc. fittings	1	lot				1,500.00		1,500.00		1,500		1,500
3	Bolt up	14	ea	2.5	35	65.00			162.50	2,275			2,275
3	Handle	12	ea	3	36	65.00			195.00	2,340			2,340
3	Install	3	lot	2	6	65.00			130.00	390			390
3	18" Duct	22	ft				86.00		86.00		1,892		1,892
3	18" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
3	Bolt up	8	ea	3	24	65.00			195.00	1,560			1,560
3	Handle	6	ea	3.52	21.12	65.00			228.80	1,373			1,373
3	Install	1	lot	2	2	65.00			130.00	130			130
3	20" Duct	8	ft				92.00		92.00		736		736
3	20" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
3	Bolt up	3	ea	4	12	65.00			260.00	780			780
3	Handle	2	ea	4.6	9.2	65.00			299.00	598			598
3	Install	1	lot	3	3	65.00			195.00	195			195
3	22" Duct	28	ft				99.00		99.00		2,772		2,772
3	22" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
3	Bolt up	9	ea	4	36	65.00			260.00	2,340			2,340
3	Handle	7	ea	4.6	32.2	65.00			299.00	2,093			2,093
3	Install	2	lot	3	6	65.00			195.00	390			390
3	24" Duct	20	ft				106.00		106.00		2,120		2,120
3	24" Duct misc. fittings	1	lot				3,000.00		3,000.00		3,000		3,000
3	Bolt up	7	ea	4	28	65.00			260.00	1,820			1,820
3	Handle	5	ea	4.6	23	65.00			299.00	1,495			1,495
3	Install	1	lot	3	3	65.00			195.00	195			195



**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute  
Job Number: 30913  
Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.  
Checked By: R.H.  
Rev. 2 Date: 8/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
3	26" Duct	8	ft				114.00		114.00		912		912
3	26" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
3	Bolt up	3	ea	5	15	65.00			325.00	975			975
3	Handle	2	ea	4.72	9.44	65.00			306.80	614			614
3	Install	1	lot	3	3	65.00			195.00	195			195
3	28" Duct	80	ft				119.00		119.00		9,520		9,520
3	28" Duct misc. fittings	1	lot				3,000.00		3,000.00		3,000		3,000
3	Bolt up	22	ea	5.5	121	65.00			357.50	7,865			7,865
3	Handle	20	ea	5.32	106.4	65.00			345.80	6,916			6,916
3	Install	4	lot	3	12	65.00			195.00	780			780
3	32" Duct	785	ft				177.00		177.00		135,405		135,405
3	32" Duct misc. fittings	1	lot				4,500.00		4,500.00		4,500		4,500
3	Bolt up	204	ea	6	1224	65.00			390.00	79,560			79,560
3	Handle	192	ea	6	1152	65.00			390.00	74,880			74,880
3	install	38	lot	3	114	65.00			195.00	7,410			7,410
	VOC-4												
4	10" Duct	52	ft				54.00		54.00		2,808		2,808
4	10" Duct misc. fittings	1	lot				1,000.00		1,000.00		1,000		1,000
4	Bolt up	15	ea	1.5	22.5	65.00			97.50	1,463			1,463
4	Handle	13	ea	1.72	22.38	65.00			111.80	1,453			1,453
4	Install	2	lot	2	4	65.00			130.00	260			260
4	12" Duct	52	ft				62.00		62.00		3,224		3,224
4	12" Duct misc. fittings	1	lot				1,000.00		1,000.00		1,000		1,000
4	Bolt up	15	ea	1.5	22.5	65.00			97.50	1,463			1,463
4	Handle	13	ea	2.08	27.04	65.00			135.20	1,758			1,758
4	Install	2	lot	2	4	65.00			130.00	260			260
4	16" Duct	38	ft				77.00		77.00		2,926		2,926
4	16" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHR	UNIT COSTS				TOTAL COSTS			TOTAL
						\$/ Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
4	Bolt up	12	ea	2	24	65.00			130.00	1,560			1,560
4	Handle	10	ea	3	30	65.00			195.00	1,950			1,950
4	Install	3	lot	2	6	65.00			130.00	390			390
4	18" Duct	50	ft				86.00		86.00		4,300		4,300
4	18" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
4	Bolt up	14	ea	3	42	65.00			195.00	2,730			2,730
4	Handle	13	ea	3.52	45.76	65.00			228.80	2,974			2,974
4	Install	3	lot	2	6	65.00			130.00	390			390
4	20" Duct	18	ft				92.00		92.00		1,656		1,656
4	20" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
4	Bolt up	7	ea	3.5	24.5	65.00			227.50	1,593			1,593
4	Handle	5	ea	4.12	20.6	65.00			267.80	1,339			1,339
4	Install	2	lot	2	4	65.00			130.00	260			260
4	22" Duct	30	ft				99.00		99.00		2,970		2,970
4	22" Duct misc. fittings	1	lot				2,000.00		2,000.00		2,000		2,000
4	Bolt up	9	ea	4	36	65.00			260.00	2,340			2,340
4	Handle	8	ea	4.6	36.8	65.00			299.00	2,392			2,392
4	Install	2	lot	3	6	65.00			195.00	390			390
4	24" Duct	30	ft				106.00		106.00		3,180		3,180
4	24" Duct misc. fittings	1	lot				3,000.00		3,000.00		3,000		3,000
4	Bolt up	9	ea	4	36	65.00			260.00	2,340			2,340
4	Handle	8	ea	4.6	36.8	65.00			299.00	2,392			2,392
4	Install	2	lot	3	6	65.00			195.00	390			390
4	26" Duct	85	ft				114.00		114.00		9,690		9,690
4	26" Duct misc. fittings	1	lot				3,000.00		3,000.00		3,000		3,000
4	Bolt up	24	ea	5	120	65.00			325.00	7,800			7,800
4	Handle	22	ea	4.72	103.84	65.00			306.80	6,750			6,750
4	Install	5	lot	3	15	65.00			195.00	975			975
4	32" Duct	715	ft				177.00		177.00		126,555		126,555



**Eichl**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**IRREMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
4	32" Duct misc. fittings	1	lot				4,500.00		4,500.00		4,500		4,500
4	Bolt up	190	ea	6	1140	65.00			390.00	74,100			74,100
4	Handle	178	ea	6	1068	65.00			390.00	69,420			69,420
4	Install	36	lot	3	108	65.00			195.00	7,020			7,020
1	Install an 10" duct bank duct	17	ea	48	816	65.00	4,545.00		7,665.00	53,040	77,265		130,305
3	Install an 6" tank duct bank duct	7	ea	46	322	65.00	4,202.00		7,192.00	20,930	29,414		50,344
3	Install an 10" duct bank duct	10	ea	48	480	65.00	4,545.00		7,665.00	31,200	45,450		76,650
2	Install an 12" duct bank duct	12	ea	48	576	65.00	4,699.00		7,819.00	37,440	56,368		93,828
4	Install an 10" duct bank duct	14	ea	48	672	65.00	4,545.00		7,665.00	43,680	63,630		107,310
ALL	Allowance for drilling & welding flange to main ducts at factory	60	ea				1,350.00		1,350.00		81,000		81,000
1	Install ducting from KO drum to VOC - 1 - 28" duct	1	lot	71.28	71.28	65.00	6,750.00		11,383.20	4,633	6,750		11,383
2	Install ducting from KO drum to VOC - 2 - 36" duct	1	lot	88.48	88.48	65.00	11,754.00		17,505.20	5,751	11,754		17,505
3	Install ducting from KO drum to VOC - 3 - 26" duct	1	lot	71.28	71.28	65.00	6,032.00		10,665.20	4,633	6,032		10,665
4	Install ducting from KO drum to VOC - 4 - 26" duct	1	lot	71.28	71.28	65.00	6,032.00		10,665.20	4,633	6,032		10,665
	Allowance to modify spreader on top of tanks												
1	VOC -1 Tanks	17	ea					1,800.00	1,800.00			30,600	30,600
2	VOC -2 Tanks	12	ea					1,800.00	1,800.00			21,600	21,600
3	VOC -3 Tanks	17	ea					1,800.00	1,800.00			30,600	30,600
4	VOC -4 Tanks	14	ea					1,800.00	1,800.00			25,200	25,200
ALL	Allowance for special rigging tools & frames	1	lot					10,000.00	10,000.00			10,000	10,000



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHR	UNIT COSTS				TOTAL COSTS			TOTAL
						S / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
	Helicopter for steel & ducting												
	VOC-1 system												
1	assume 54 lifts	60	hrs					6,000.00	6,000.00			360,000	360,000
	crew per diem	8	days					750.00	750.00			6,000	6,000
	VOC-2 system												
2	assume 28 lifts	35	hrs					6,000.00	6,000.00			210,000	210,000
	crew per diem	5	days					750.00	750.00			3,750	3,750
	VOC-3 system												
3	assume 28 lifts	35	hrs					6,000.00	6,000.00			210,000	210,000
	crew per diem	5	days					750.00	750.00			3,750	3,750
	VOC-4 system												
4	assume 23 lifts	30	hrs					6,000.00	6,000.00			180,000	180,000
	crew per diem	5	days					750.00	750.00			3,750	3,750
	Allowance for crane to install VOC's												
1	VOC-1	3	wks	160	480	75.00		2,500.00	14,500.00	36,000		7,500	43,500
2	VOC-2	3	wks	160	480	75.00		2,500.00	14,500.00	36,000		7,500	43,500
3	VOC-3	3	wks	160	480	75.00		2,500.00	14,500.00	36,000		7,500	43,500
4	VOC-4	3	wks	160	480	75.00		2,500.00	14,500.00	36,000		7,500	43,500
ALL	allowance for overtime to build structures to work around helicopter usage	1	lot	2000	2000	20.00			40,000.00	40,000			40,000
	<b>TOTAL - Process Piping &amp; Equipment</b>				24987					1,555,068	3,175,093	1,197,250	5,927,411



**Eichler**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
	Contingency												
2.00	Site Construction					25%	25%	25%				317,508	317,508
3.00	Concrete					50%	50%	50%				222,475	222,475
4.00	Masonry					25%	25%	25%					
5.00	Metals					30%	30%	30%	213,588	533,879	12,000		759,466
6.00	Wood & Plastics					25%	25%	25%					
7.00	Thermal & Moisture Protection					25%	25%	25%					
8.00	Door & Windows					25%	25%	25%					
9.00	Finishes					25%	25%	25%					
10.00	Specialties					25%	25%	25%	65		2,090		2,155
11.00	Equipment					25%	25%	25%					
12.00	Furnishings					25%	25%	25%					
13.00	Special Construction					25%	25%	25%					
14.00	Conveying Systems					25%	25%	25%					
15.00	Mechanical HVAC & Plumbing					25%	25%	25%					
16.00	Electrical					30%	30%	30%	19,505	25,736	16,020		61,261
17.00	Instruments & Controls					30%	30%	30%	42,165	201,669	37,500		281,334
18.00	Process Piping & Equipment					35%	35%	35%	544,274	1,111,283	419,038		2,074,594
	Design Fee Allowance							35%				735,000	735,000
	Construction Management Allowance							30%				126,000	126,000
	Plan Check & Permit Fee Allowance							25%				12,135	12,135
	Third Party Inspection Allowance							25%				9,101	9,101
	ROUND OFF		1										
	<b>TOTAL - Contingency</b>								819,596	1,872,566	1,908,866		4,601,028





Eichleay Engineers Inc. of California

**ESTIMATE SUMMARY SHEET**

Client Name: Wine Institute

Estimated By: P.H.M.

Job Number: 30913

**PRELIMINARY ESTIMATE**

Checked By: R.H.

Job Title: Fermenter VOC Emissions - LIVINGSTON UTILITIES

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	TOTAL COSTS				TOTAL
		RTO-1	RTO-2	RTO-3	RTO-4	
<b>SUMMARY</b>						
2.00	Site Construction	\$9,350	\$0	\$0	\$0	\$9,350
3.00	Concrete	\$81,050	\$0	\$0	\$0	\$81,050
4.00	Masonry					\$0
5.00	Metals	\$5,000	\$5,000	\$5,000	\$5,000	\$20,000
6.00	Wood & Plastics					\$0
7.00	Thermal & Moisture Protection	\$89,600	\$34,400	\$29,600	\$11,000	\$164,600
8.00	Door & Windows					\$0
9.00	Finishes					\$0
10.00	Specialties					\$0
11.00	Equipment					\$0
12.00	Furnishings					\$0
13.00	Special Construction					\$0
14.00	Conveying Systems					\$0
15.00	Mechanical HVAC & Plumbing					\$0
16.00	Electrical	\$326,368	\$0	\$0	\$0	\$326,368
17.00	Instruments & Controls	\$116,680	\$37,631	\$37,632	\$37,632	\$229,575
18.00	Process Piping & Equipment	\$1,331,505	\$784,365	\$924,335	\$828,665	\$3,868,870
	<b>Sub Total</b>	<b>\$1,959,553</b>	<b>\$861,396</b>	<b>\$996,567</b>	<b>\$882,297</b>	<b>\$4,699,813</b>
	Tax & Freight	\$99,669	\$41,722	\$48,676	\$41,722	\$231,789
	General Conditions	\$164,738	\$72,249	\$83,619	\$73,922	\$394,528
	General Contractor Mark-Up	\$222,396	\$97,537	\$112,886	\$99,794	\$532,613
	<b>Field Costs Sub Total</b>	<b>\$2,446,356</b>	<b>\$1,072,904</b>	<b>\$1,241,748</b>	<b>\$1,097,735</b>	<b>\$5,858,743</b>
	Design Fee Allowance	366,953	160,936	186,262	164,660	\$878,812
	Construction Management Allowance	\$73,391	\$32,187	\$37,252	\$32,932	\$175,762
	Plan Check & Permit Fee Allowance	\$777	\$325	\$380	\$325	\$1,808
	Third Party Inspection Allowance	\$583	\$244	\$285	\$244	\$1,356
	Escalation	\$112,069	\$50,101	\$59,830	\$54,113	\$276,113
	Project Contingency	\$847,578	\$354,800	\$413,934	\$354,800	\$1,971,112
	<b>Sub Total</b>	<b>\$3,847,708</b>	<b>\$1,671,498</b>	<b>\$1,939,691</b>	<b>\$1,704,809</b>	<b>\$9,163,707</b>
	Owners Costs	\$36,695	\$16,094	\$18,626	\$16,466	\$87,881
	Round Off	-\$404	\$409	-\$318	-\$275	-\$588
	<b>GRAND TOTAL</b>	<b>\$3,884,000</b>	<b>\$1,688,000</b>	<b>\$1,958,000</b>	<b>\$1,721,000</b>	<b>\$9,251,000</b>

Prepared By: *[Signature]*

Date: 6/24/05

Approved By: *[Signature]*

Date: 6/24/05



Eichley Engineers Inc. of California

ESTIMATE SUMMARY SHEET

Client Name: Wine Institute

Estimated By: P.H.M.

Job Number: 30913

PRELIMINARY ESTIMATE

Checked By: R.H.

Job Title: Fermenter VOC Emissions - LIVINGSTON UTILITIES

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	TOTAL COSTS				TOTAL
		RTO-1	RTO-2	RTO-3	RTO-4	
W/O ESCALATION & OWNERS COSTS						
SUMMARY						
2.00	Site Construction	\$9,350	\$0	\$0	\$0	\$9,350
3.00	Concrete	\$81,050	\$0	\$0	\$0	\$81,050
4.00	Masonry					\$0
5.00	Metals	\$5,000	\$5,000	\$5,000	\$5,000	\$20,000
6.00	Wood & Plastics					\$0
7.00	Thermal & Moisture Protection	\$89,600	\$34,400	\$29,600	\$11,000	\$164,600
8.00	Door & Windows					\$0
9.00	Finishes					\$0
10.00	Specialties					\$0
11.00	Equipment					\$0
12.00	Furnishings					\$0
13.00	Special Construction					\$0
14.00	Conveying Systems					\$0
15.00	Mechanical HVAC & Plumbing					\$0
16.00	Electrical	\$326,368	\$0	\$0	\$0	\$326,368
17.00	Instruments & Controls	\$116,680	\$37,631	\$37,632	\$37,632	\$229,575
18.00	Process Piping & Equipment	\$1,331,505	\$784,365	\$924,335	\$828,665	\$3,868,870
	<b>Sub Total</b>	<b>\$1,959,553</b>	<b>\$861,396</b>	<b>\$996,567</b>	<b>\$882,297</b>	<b>\$4,699,813</b>
	Tax & Freight	\$99,669	\$41,722	\$48,676	\$41,722	\$231,789
	General Conditions	\$164,738	\$72,249	\$83,619	\$73,922	\$394,528
	General Contractor Mark-Up	\$222,396	\$97,537	\$112,886	\$99,794	\$532,613
	<b>Field Costs - Sub Total</b>	<b>\$2,446,356</b>	<b>\$1,072,904</b>	<b>\$1,241,748</b>	<b>\$1,097,735</b>	<b>\$5,858,743</b>
	Design Fee Allowance	366,953	160,936	186,262	164,660	\$878,812
	Construction Management Allowance	\$73,391	\$32,187	\$37,252	\$32,932	\$175,762
	Plan Check & Permit Fee Allowance	\$777	\$325	\$380	\$325	\$1,808
	Third Party Inspection Allowance	\$583	\$244	\$285	\$244	\$1,356
	Escalation					\$0
	Project Contingency	\$847,578	\$354,800	\$413,934	\$354,800	\$1,971,112
	<b>Sub Total</b>	<b>\$3,735,639</b>	<b>\$1,621,397</b>	<b>\$1,879,861</b>	<b>\$1,650,697</b>	<b>\$8,887,593</b>
	Owners Costs					\$0
	Round Off	\$407				\$407
	<b>GRAND TOTAL</b>	<b>\$3,736,046</b>	<b>\$1,621,397</b>	<b>\$1,879,861</b>	<b>\$1,650,697</b>	<b>\$8,888,000</b>

Prepared By:

*P.H.M.*

Date:

6/24/05

Approved By:

*R.V. Medges*

Date:

6/24/05



Eichley Engineers Inc. of California

ESTIMATE SUMMARY SHEET

Client Name: Wine Institute

Estimated By: P.H.M.

Job Number: 30913

PRELIMINARY ESTIMATE

Checked By: R.H.

Job Title: Fermenter VOC Emissions - LIVINGSTON UTILITIES

Rev. 2

Date: 6/24/05

W/O Escalation & Owners Costs

CODE	ITEM DESCRIPTION	TOTAL MHRS	TOTAL COSTS			TOTAL
			LABOR	MAT'L	SUBCON.	
<b>SUMMARY</b>						
2.00	Site Construction		\$0	\$0	\$9,350	\$9,350
3.00	Concrete		\$0	\$0	\$81,050	\$81,050
4.00	Masonry		\$0	\$0	\$0	\$0
5.00	Metals		\$0	\$0	\$20,000	\$20,000
6.00	Wood & Plastics		\$0	\$0	\$0	\$0
7.00	Thermal & Moisture Protection		\$0	\$0	\$164,600	\$164,600
8.00	Door & Windows		\$0	\$0	\$0	\$0
9.00	Finishes		\$0	\$0	\$0	\$0
10.00	Specialties		\$0	\$0	\$0	\$0
11.00	Equipment		\$0	\$0	\$0	\$0
12.00	Furnishings		\$0	\$0	\$0	\$0
13.00	Special Construction		\$0	\$0	\$0	\$0
14.00	Conveying Systems		\$0	\$0	\$0	\$0
15.00	Mechanical HVAC & Plumbing		\$0	\$0	\$0	\$0
16.00	Electrical		\$135,577	\$181,792	\$9,000	\$326,368
17.00	Instruments & Controls		\$78,975	\$150,600	\$0	\$229,575
18.00	Process Piping & Equipment		\$2,066,090	\$1,774,780	\$28,000	\$3,868,870
<b>Sub Total</b>			<b>\$2,280,642</b>	<b>\$2,107,172</b>	<b>\$312,000</b>	<b>\$4,699,813</b>
	Tax & Freight (11%)					\$231,789
	General Conditions (8%)					\$394,528
	General Contractor Mark-Up (10%)					\$532,613
<b>Field Costs - Sub Total</b>						<b>\$5,858,743</b>
	Design Fee Allowance (15%)					\$878,811
	Construction Management Allowance (3%)					\$175,762
	Plan Check & Permit Fee Allowance (2%)					\$1,808
	Third Party Inspection Allowance (1.5%)					\$1,356
	Escalation					
	Project Contingency					\$1,971,112
<b>Sub Total</b>						<b>\$8,887,593</b>
	Owners Costs					\$0
	Round Off					\$407
<b>GRAND TOTAL</b>						<b>\$8,888,000</b>

Prepared By:

*Paul H. Meyer*  
6/24/05

Date:

Approved By

*R.W. Hedges*  
6/24/05

Date:





**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute  
Job Number: 30913  
Job Title: Fermenter VOC Emissions - LIVINGSTON UTILITIES

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.  
Checked By: R.H.  
Rev. 2 Date: 6/24/05

O:\30913\5.0 Design Documents\Estimates\Rev. 2\Living

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHR	UNIT COSTS				TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.		
	<b>030 - Concrete</b>													
1	Install foundation for KOH system	133	cy					450.00	450.00			59,850	59,850	
1	Install curb around KOH system	23	cy					550.00	550.00			12,650	12,650	
1	Install foundation for Air compressor / air dryer	9	cy					450.00	450.00			4,050	4,050	
1	Allowance for electrical equipment foundations	10	cy					450.00	450.00			4,500	4,500	
<b>TOTAL - Concrete</b>												81,050	81,050	





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**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

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Rev. 2 Date: 6/24/05

O:\30913\5.0 Design Documents\Estimates\Rev. 2\Living

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.		
	070 - Thermal & Moisture Protection													
all	Allowance for Insulation for tank	1	lot					8,000.00	8,000.00			8,000	8,000	
1	Allowance for Insulation on 4" KOH pipe	2920	ft					30.00	30.00			87,600	87,600	
2	Allowance for Insulation on 4" KOH pipe	1080	ft					30.00	30.00			32,400	32,400	
3	Allowance for Insulation on 4" KOH pipe	920	ft					30.00	30.00			27,600	27,600	
4	Allowance for Insulation on 4" KOH pipe	300	ft					30.00	30.00			9,000	9,000	
<b>TOTAL - Thermal &amp; Moisture Protection</b>													164,600	164,600



**Eichleay**  
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Estimated By: P.H.M.  
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Rev. 2 Date: 6/24/05

O:\30913\5.0 Design Documents\Estimates\Rev. 2\Living

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHR	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
<b>016 - Electrical</b>													
1	MOTOR CONTROL CENTER STRUCTURE	1	EA	10	10	75.00	1,800.00		2,550.00	750	1,800		2,550
1	200A MAIN BREAKER	1	EA	4.21	4	75.00	710.00		1,025.75	316	710		1,026
1	STARTER SIZE 1 480VAC MCC BOX	1	EA	2.9	3	75.00	945.00		1,162.50	218	945		1,163
1	STARTER SIZE 2 480VAC MCC BOX	1	EA	4	4	75.00	1,075.00		1,375.00	300	1,075		1,375
1	STARTER SIZE 3 480VAC MCC BOX	1	EA	8	8	75.00	1,800.00		2,400.00	600	1,800		2,400
1	CHECKOUT AND TESTING	1	LOT	40	40	75.00			3,000.00	3,000			3,000
<b>POWER DISTRIBUTION</b>													
1	TRANSFORMER 1500KVA 15KV/480V	1	EA	100	100	75.00	27,500.00		35,000.00	7,500	27,500		35,000
1	DISCONNECT SWITCH 15KV	1	EA	56	56	75.00	17,500.00		21,700.00	4,200	17,500		21,700
1	15KV 1/0 CONDUCTOR	60	CLF	4.211	253	75.00	215.00		530.83	18,950	12,900		31,850
1	15KVLOAD BREAK DISC.& UTILITY CONNECTION	1	LOT	100	100	75.00	39,800.00		47,300.00	7,500	39,800		47,300
1	3" RIGID ALUMINUM	2000	LF	0.18	360	75.00	10.50		24.00	27,000	21,000		48,000
1	24X36X42 PULL BOX	30	EA	10.5	315	75.00	885.00		1,672.50	23,625	26,550		50,175
1	3" 90-DEGREE ELBOWS	2	EA	1.9	4	75.00	69.00		211.50	285	138		423
1	3" IN-LINE FITTINGS	2	EA	2.9	6	75.00	415.00		632.50	435	830		1,265
1	MISC SUPPORTS, FITTINGS, TERMINATIONS	1	LOT							17,899	29,244		47,143
1	CHECKOUT AND TESTING	1	LOT	40	40	75.00			3,000.00	3,000			3,000
1	Allowance for trenching power cable	300	ft					30.00	30.00			9,000	9,000
1	Allowance for overtime	1	lot	200	200	100.00			20,000.00	20,000			20,000
<b>TOTAL - Electrical</b>													
					1502					135,577	181,792	9,000	326,368





**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - LIVINGSTON UTILITIES

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

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CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
	017 - Instruments & Controls												
	2% KOH equipment												
1	Conservation vents	2	ea	4	8	75.00	1,200.00		1,500.00	600	2,400		3,000
1	Relief vents	2	ea	2	4	75.00	3,000.00		3,150.00	300	6,000		6,300
1	Level transmitter & indicator	2	ea	4	8	75.00	1,200.00		1,500.00	600	2,400		3,000
1	High level switch	1	ea	2	2	75.00	500.00		850.00	150	500		650
1	Pressure gauge	6	ea	1	6	75.00	300.00		375.00	450	1,800		2,250
1	Pressure transmitter		ea			75.00	2,100.00		2,100.00				
1	temperature gauge & TW	6	ea	4	24	75.00	300.00		600.00	1,800	1,800		3,600
1	Temperature transmitter, RTD, TW	1	ea	4	4	75.00	1,200.00		1,500.00	300	1,200		1,500
1	Temperature control valve	1	ea	6	6	75.00	1,800.00		2,250.00	450	1,800		2,250
1	Relief valves	2	ea	2	4	75.00	300.00		450.00	300	600		900
1	Pressure regulator, liquid	1	ea	2	2	75.00	300.00		450.00	150	300		450
1	Pressure regulator, steam	1	ea	2	2	75.00	1,500.00		1,650.00	150	1,500		1,650
1	Sight glass	2	ea	4	8	75.00	1,000.00		1,300.00	600	2,000		2,600
1	Totalizing mass flow meter	2	ea	6	12	75.00	25,000.00		25,450.00	900	50,000		50,900
	CIP Instruments												
all	pressure gauge	158	ea	1	158	75.00	180.00		255.00	11,850	28,440		40,290
all	Install control valves for KOH & water lines	120	ea	2	240	75.00	250.00		400.00	18,000	30,000		48,000
all	Install conduit to valves	3000	ft	0.1	300	75.00	3.00		10.50	22,500	9,000		31,500
all	Install wire to valve	60	ea	1	60	75.00	5.00		80.00	4,500	300		4,800
all	Install dual manual switch at grade per tank	60	ea	1	60	75.00	120.00		195.00	4,500	7,200		11,700
all	Install conduit for power to switch	1000	ft	0.1	100	75.00	3.00		10.50	7,500	3,000		10,500
all	Install wire to switch	3000	ft	0.015	45	75.00	0.12		1.25	3,375	360		3,735
	<b>TOTAL - Instruments &amp; Controls</b>				1053					78,975	150,600		229,575

Client Name: Wine Institute

Job Number: 30813

Job Title: Fermenter VOC Emissions - LIVINGSTON UTILITIES



Eichle  
Engineers Inc. of CA

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHR	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
<b>018 - Process Piping &amp; Equipment</b>													
2% KOH equipment													
1	50% tank	1	ea	4	4	65.00	13,800.00		14,060.00	260	13,800		14,060
1	50% pump	1	ea	6	6	65.00	2,530.00		2,920.00	390	2,530		2,920
1	50% filter	2	ea	2	4	65.00	1,380.00		1,510.00	260	2,760		3,020
1	2% tank	1	ea	10	10	65.00	46,920.00		47,570.00	650	46,920		47,570
1	2% pump	1	ea	6	6	65.00	5,750.00		6,140.00	390	5,750		6,140
1	2% eductor	1	ea	10	10	65.00	1,150.00		1,800.00	650	1,150		1,800
1	2% heat exchanger	1	ea	4	4	65.00	2,990.00		3,250.00	260	2,990		3,250
1	2% filter	2	ea	2	4	65.00	1,840.00		1,970.00	260	3,680		3,940
1	Crane for installing KOH equipment	1	lot					3,000.00	3,000.00			3,000	3,000
CIP Equipment													
1	Spray nozzles (ducting)	235	ea	2	470	65.00	250.00		380.00	30,550	58,750		89,300
1	Spray nozzles (KO Pots)	6	ea	2	12	65.00	300.00		430.00	780	1,800		2,580
1	Spray nozzels for main ducting	107	ea	2	214	65.00	250.00		380.00	13,910	26,750		40,660
1	Install sanitize inductors for in main ducting	55	ea	2	110	65.00	300.00		430.00	7,150	16,500		23,650
1	Allowance for valves for KOH & water clean out	428	ea	4	1712	65.00	150.00		410.00	111,280	64,200		175,480
2	Spray nozzles (ducting)	235	ea	2	470	65.00	250.00		380.00	30,550	58,750		89,300
2	Spray nozzles (KO Pots)	6	ea	2	12	65.00	300.00		430.00	780	1,800		2,580
2	Spray nozzels for main ducting	116	ea	2	232	65.00	250.00		380.00	15,080	29,000		44,080
2	Install sanitize inductors for in main ducting	58	ea	2	116	65.00	300.00		430.00	7,540	17,400		24,940
2	Allowance for valves for KOH & water clean out	464	ea	4	1856	65.00	150.00		410.00	120,640	69,600		190,240
3	Spray nozzles (ducting)	235	ea	2	470	65.00	250.00		380.00	30,550	58,750		89,300
3	Spray nozzles (KO Pots)	6	ea	2	12	65.00	300.00		430.00	780	1,800		2,580
3	Spray nozzels for main ducting	189	ea	2	378	65.00	250.00		380.00	24,570	47,250		71,820
3	Install sanitize inductors for in main ducting	95	ea	2	190	65.00	300.00		430.00	12,350	28,500		40,850
3	Allowance for valves for KOH & water clean out	756	ea	4	3024	65.00	150.00		410.00	196,560	113,400		309,960
4	Spray nozzles (ducting)	235	ea	2	470	65.00	250.00		380.00	30,550	58,750		89,300



**Eichle**  
Engineers Inc. of CA.

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - LIVINGSTON UTILITIES

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
4	Spray nozzles (KO Pots)	6	ea	2	12	65.00	300.00		430.00	780	1,800		2,580
4	Spray nozzels for main ducting	178	ea	2	356	65.00	250.00		380.00	23,140	44,500		67,640
4	Install sanlize Inductors for in main ducting	90	ea	2	180	65.00	300.00		430.00	11,700	27,000		38,700
4	Allowance for valves for KOH & water clean out	712	ea	4	2848	65.00	150.00		410.00	185,120	106,800		291,920
	Install sanlize system at each tank												
all	Install 1 1/2" PP pipe	4800	ft	0.3	1440	65.00	3.00		22.50	93,600	14,400		108,000
all	Install Inductor	60		2	120	65.00	300.00		430.00	7,800	18,000		25,800
1 & 2	Allowance for a sanlize cart for main duct cleaning	2	ea					2,500.00	2,500.00			5,000	5,000
	Utility Equipment												
1	Air compressor, oil free, 180cfm, 50 HP	2	ea	10	20	65.00	42,000.00		42,650.00	1,300	84,000		85,300
1	Air dryer, reciever tank and filters, 180cfm	2	ea	10	20	65.00	14,200.00		14,850.00	1,300	28,400		29,700
1	Allowance to install 2" natural gas pipe	1080	ft	1.2	1272	65.00	5.00		83.00	82,680	5,300		87,980
1	Allowance for natural gas valves & fittings	1	lot					2,000.00	2,000.00		2,000		2,000
all	Allowance to install 2" air line feeding the VOC's	500	ft	1.2	600	65.00	5.00		83.00	39,000	2,500		41,500
all	Allowance for air line valves & fittings	1	lot					6,000.00	6,000.00		6,000		6,000
all	Allowance to Install 2" local water line to each tank	1800	ft	1	1800	65.00	5.00		70.00	117,000	9,000		126,000
all	Allowance to Install 2" valves & fittings for water line	60	ea	4	240	65.00	120.00		380.00	15,600	7,200		22,800
1	Allowance to Install 3" water line to KOH / main rack	800	ft	0.6	480	65.00	6.00		45.00	31,200	4,800		36,000
1	Fab & Install 4" KOH line for main duct for system 1	1180	ft	1	1180	65.00	50.00		115.00	76,700	59,000		135,700
1	Fab & Install 4" KOH line for tanks in system 1	1740	ft	1	1740	65.00	50.00		115.00	113,100	87,000		200,100



**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - LIVINGSTON UTILITIES

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHR	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
2	Fab & Install 4" KOH line for main duct for system 2	330	ft	1	330	65.00	50.00		115.00	21,450	16,500		37,950
2	Fab & Install 4" KOH line for tanks in system 2	750	ft	1	750	65.00	50.00		115.00	48,750	37,500		86,250
3	Fab & Install 4" KOH line for main duct for system 3	160	ft	1	160	65.00	50.00		115.00	10,400	8,000		18,400
3	Fab & Install 4" KOH line for tanks in system 3	760	ft	1	760	65.00	50.00		115.00	49,400	38,000		87,400
4	Fab & Install 4" KOH line for main duct for system 4		ft			65.00	50.00		50.00				
4	Fab & Install 4" KOH line for tanks in system 4	300	ft	1	300	65.00	50.00		115.00	19,500	15,000		34,500
all	Fab & Install 2" drain to tank & ground from duct	60	ea	55	3300	65.00	2,100.00		5,675.00	214,500	126,000		340,500
all	Fab & Install 1" CIP line at each duct	60	ea	65	3900	65.00	4,700.00		8,925.00	253,500	282,000		535,500
1	Fab & Install 1 1/2" FRP piping	1	ea	48	48	65.00	4,000.00		7,120.00	3,120	4,000		7,120
1	Fab & Install 2" FRP piping	1	ea	34	34	65.00	2,500.00		4,710.00	2,210	2,500		4,710
1	Allowance for 4" ss pipe at KOH unit	1	lot	100	100	65.00	5,000.00		11,500.00	6,500	5,000		11,500
all	Allowance for small crane / fork lift for piping work	1	lot					20,000.00	20,000.00			20,000	20,000
<b>TOTAL - Process Piping &amp; Equipment</b>					<b>31786</b>					<b>2,066,090</b>	<b>1,774,760</b>	<b>28,000</b>	<b>3,868,870</b>



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - LIVINGSTON UTILITIES

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.		
	Contingency													
2.00	Site Construction					25%	25%	25%				2,338	2,338	
3.00	Concrete					30%	30%	30%				24,315	24,315	
4.00	Masonry					25%	25%	25%						
5.00	Metals					25%	30%	25%				5,000	5,000	
6.00	Wood & Plastics					25%	25%	25%						
7.00	Thermal & Moisture Protection					25%	25%	25%				41,150	41,150	
8.00	Door & Windows					25%	25%	25%						
9.00	Finishes					25%	25%	25%						
10.00	Specialties					25%	25%	25%						
11.00	Equipment					25%	25%	25%						
12.00	Furnishings					25%	25%	25%						
13.00	Special Construction					25%	25%	25%						
14.00	Conveying Systems					25%	25%	25%						
15.00	Mechanical HVAC & Plumbing					25%	25%	25%						
16.00	Electrical					35%	35%	35%		47,452	63,627	3,150	114,229	
17.00	Instruments & Controls					30%	30%	30%		23,693	45,180		68,873	
18.00	Process Piping & Equipment					35%	35%	35%		723,132	621,173	9,800	1,354,105	
	Design Fee Allowance							35%				307,584	307,584	
	Construction Management Allowance							30%				52,729	52,729	
	Plan Check & Permit Fee Allowance							25%				452	452	
	Third Party Inspection Allowance							25%				339	339	
	ROUND OFF		1											
	<b>TOTAL - Contingency</b>									794,276	729,980	446,856	1,971,112	

**BACT Attachment B**  
**Sizing and Purchase Costs for Control Devices**

**Refrigerated Condenser Sizing with Equipment Cost Based on EPA Cost Manual  
Section 3.1, Chapter 2**

VOC System	RTO Capacity Basis (Eichleay Study)	System Capacity less Combustion Air	Refrigerated Condenser Duty Btu/hour	Refrigerated Condenser Duty Tons	1990 Cost (EPA)	Cost Escalated to 2008 at 3% per Year
1	16000	12,900	3,909,000	326	\$430,200	\$754,400
2	22000	17,800	5,393,000	449	\$526,300	\$922,900
3	13000	10,500	3,182,000	265	\$378,100	\$663,000
4	13000	10,500	3,182,000	265	\$378,100	\$663,000
<b>Total</b>				<b>1,306</b>	<b>\$1,027,200</b>	<b>\$3,003,300</b>

**Condenser Duty Calculation:**

Condenser Duty Basis:	Inlet vapor stream contains a maximum of 16,000 ppmv ethanol at 86 F Condensing Temperature is -12 F, 90% of Ethanol Condensed				
Latent Heat Ethanol	369	Btu/lb			
Vapor Heat Capacity	0.21	Btu/lb			
Latent Heat water	1060	Btu/lb			

**Condenser Heat Balance Based on 100 moles of Inlet Vapor:**

		Moles In	Moles Out		Enthalpy Change Btu/100 moles vapor
			Vapor	Liquid	
Ethanol Vapor		1.60	0.16	1.44	-24,594
Water Vapor		4.20	0.00	4.20	-81,783
CO2		94.20	94.20	0.00	-85,319
Sub Total		100.00	94.36	5.64	-191,696
Total		100.00	100.00		-191,696
-191696	Btu/100 moles	=	-5.05	Btu/scf	

### Thermal Oxidizer Equipment Cost

#### Thermal Oxidizer Equipment Prices (Without Heat Recovery) Based on EPA Cost Manual Section 3.2, Chapter 2

Case		Equipment Cost	
VOC System	RTO Capacity Basis SCFM (Eichleay Study)	1988 Cost (EPA)	Cost Escalated to 2009 at 3% per Year
1	16,000	\$100,600	\$187,100
2	22,000	\$108,400	\$201,700
3	13,000	\$95,800	\$178,200
4	13,000	\$95,800	\$178,200
Totals			\$745,200

#### Regenerative Thermal Oxidizer Equipment Prices (95% Heat Recovery) Based on Quotations Received in Eichleay Study

Case		Equipment Cost	
VOC System	RTO Capacity Basis SCFM (Eichleay Study)	2005 Cost (EPA)	Cost Escalated to 2009 at 3% per Year
1	16,000	\$414,200	\$466,200
2	22,000	\$502,500	\$565,600
3	13,000	\$365,200	\$411,000
4	13,000	\$365,200	\$411,000
Totals			\$1,853,800



**Carbon Adsorption Equipment Prices Based on Technical Assessment Document\***

Equipment Capacity			Equipment Cost	
VOC System	RTO Capacity Basis SCFM (Eichleay Study)	Absorption Capacity Basis SCFM (Without Combustion Air)	1994 Cost (TAD)	Cost Escalated to 2008 at 3% per Year
1	16,000	12,900	\$268,655	\$419,000
2	22,000	17,800	\$305,546	\$476,000
3	13,000	10,500	\$247,914	\$386,000
4	13,000	10,500	\$247,914	\$386,000
<b>Totals</b>				\$1,667,000
* Technical Assessment Document p.77				

**Water Scrubber Equipment Prices Based on STI Study\***

Case			Site Specific, CIP, Maximum Vapor Rate	
VOC System	RTO Capacity Basis SCFM (Eichleay Study)	Absorption Capacity Basis SCFM (Without Combustion Air)	2003 Cost (STI)	Cost Escalated to 2008 at 3% per Year
1	16,000	12,900	\$63,822	\$99,000
2	22,000	17,800	\$71,387	\$111,000
3	13,000	10,500	\$59,411	\$93,000
4	13,000	10,500	\$59,411	\$93,000
<b>Totals</b>				\$396,000
* STI Study, p. 21				

**BACT Attachment C**  
**Utilities and other Annual Costs**

## **Costs for Utilities and Other Annual Operating Expenses**

Costs for utilities and other annual costs are summarized in the tables on the following two pages. The basis and calculation of the costs is presented below:

### **Natural Gas – applicable to Cases 1, 2 and 5 only**

#### Case 1: Thermal Oxidizer with no heat recovery

The estimate is based on the Eichleay Study which estimated the annual fuel consumption for 95% thermally efficient oxidizers at 67,412 therms/year = 6,741 MMBtu/year. At a natural gas cost of \$8.00/MMBtu, the annual cost is 6,714 x \$8.00 = \$53,900 per year for all four regenerative thermal oxidizers with 95% heat recovery. Dividing by (1-95%) yields the fuel cost for a unit with zero heat recovery:

$$\text{Case 1 Fuel Cost} = \$53900 / (1 - 95\%) = \mathbf{\$1,078,000 \text{ per year}}$$

#### Case 2: Regenerative Thermal Oxidizers

Case 2 is the Eichleay Study case. Therefore,

$$\text{Case 2 Fuel Cost} = \mathbf{\$53,900 \text{ per year}}$$

#### Case 5 – Carbon Adsorption

As calculated elsewhere in this document, the carbon adsorption system will adsorb 350.62 tons per year of VOC's. Per the TAD, 11,800 lb of steam is required to recover 1 ton of ethanol. Given a boiler fuel requirement of 1,350 Btu/lb (based on absorbed boiler duty of 1,080 Btu/lb to produce 100 psig steam from 60 F water and an 80% combustion efficiency), annual fuel consumption for recovery of 350.62 tons ethanol per year is  $11,800 \times 350.62 \times 1,350 / 10^6 = 5,585$  MMBtu/year.

$$\text{Case 5 Fuel Cost} = 5,585 \text{ MMBtu/year} \times \$8.00/\text{MMBtu} = \mathbf{\$44,700 \text{ per year}}$$

### **Electric Power**

#### Cases 1 and 2 – Thermal Oxidizers

For these cases, power consumption is considered to be only that for the ID fans. Per the Eichleay study, annual power consumption for the ID fans associated with the thermal oxidizers is 586 kw per hour for the 120 day crush season. Annual cost at a unit power cost of \$0.11/kwh is therefore

$$586 \times 120 \times 24 \times \$0.11 = \mathbf{\$185,600 \text{ per year}}$$

### Cases 4 and 5 – Carbon Adsorption and Water Scrubber

As in cases 1 and 2 above, only the ID fan power will be considered for these cases. However, these cases do not have to handle the extra 23.6% combustion air. Therefore, the electric power cost for the thermal oxidizer case will be divided by 1.236 to reflect lower flow rates. On this basis, Cases 3, 4 and 5 have an annual power cost of

$$\text{\$185,600}/1.236 = \text{\$150,200 per year (for cases 4 and 5)}$$

### Case 3 – Refrigerated Condenser

Electric power for this case includes the same ID fan power consumption as Cases 4 and 5 and also requires power for operation of the refrigeration unit. This case requires 1,306 tons of refrigeration for the design case and a utilization factor of 60 % will be assumed. Additionally, a coefficient of performance of 3.5 will be assumed for the equipment. Power demand for a 120 day operating season is thus:

$$60\% \times 1,306/3.5 \times 12,000 \text{ Btu/ton} \times 1 \text{ kW}/3,413 \text{ Btu} \times 120 \text{ days} \times 24 \text{ hr/day} \\ = 2,267,000 \text{ kWh/year}$$

At \$0.11/kWh, the cost for the refrigeration power is \$249,400. Adding \$150,200 for ID fan power (calculated above), total power cost for this case is **\\$399,600 per year**.

### **Water Disposal Cost – applicable to Case 4 and 5 only**

#### Case 4 – Water Scrubber

Water disposal requirements and costs for Case 4 (water scrubber) are taken from the STI Study:

- Water Disposal Required: 6 gpm for each 5000 scfm air flow for 90 day crush season.
- Disposal Cost: \$0.25/gallon

Total airflow for all four systems, corrected to subtract the combustion air, is  $(16,000 + 22,000 + 13,000 + 13,000)/1.236 = 51,800 \text{ scfm}$

$$\text{Wastewater Rate} = 51,800 \text{ scfm} \times 6 \text{ gpm}/5,000 \text{ scf} = 62 \text{ gpm}$$

$$\text{Annual wastewater generation} = 62 \text{ gpm} \times 90 \text{ days} \times 1,440 \text{ minutes/day} \\ = 8,035,000 \text{ gallons per year}$$

$$\text{Annual water disposal cost} = 8,035,000 \text{ gallons} \times \$0.25/\text{gallon} = \text{\$ 2,008,800/yr}$$

### Case 5 - Carbon Adsorption

Wastewater is generated from the regeneration of the carbon bed. Per the TAD, 11,800 lb steam is required to recover 1 ton of ethanol. Given liquid densities of 8.34 and 6.61 lb/gallon for water and ethanol respectively, the amount of wastewater produced per ton of ethanol recovered is  $(11,800/8.34) + (2,000/6.61) = 1,718$  gal/ton ethanol.

As calculated in this BACT analysis, the carbon adsorption unit will adsorb 350.62 tons per year of VOC's. Produced wastewater is therefore  $350.62 \text{ tons} \times 1,718 \text{ gal/ton} = 602,400$  gallons per year.

Disposal cost at \$0.25/gal is  $602,400 \times \$0.25 = \mathbf{\$150,600}$  per year

### **Carbon Replacement Cost - applicable to Case 5 only**

Per the TAD, activated carbon adsorbs 18% of its weight in ethanol. However, with regeneration, approximately 1/3 of the ethanol initially adsorbed stays on the carbon bed. In addition, due to the seasonal operation of a winery, the carbon is expected to have a lifetime of 10 years.

As calculated in this BACT analysis, the carbon adsorption unit will adsorb 350.62 tons per year of VOC's. Assuming this occurs over a 120 day crush season with three regenerations per day, the amount adsorbed per cycle is  $350.62/(120 \times 3) = 0.97$  tons/cycle = 1,940 lb-VOC/cycle. Assuming a daily regeneration cycle and allowing for a dual bed for regeneration purposes, the amount of carbon required for the facility is  $2 \times 1,940/(18\% \times .667) = 32,300$  lb carbon.

Given a cost of \$2/lb for carbon and annualizing the cost over the 10 year life,

Carbon Replacement Cost =  $0.163 \times \$2.00 \times 32,300 = \mathbf{\$10,500}$  per year.

### **Cooling Water Cost – applicable to Case 5 only (carbon adsorption)**

Based on values presented in the TAD, the following parameters apply:

Cooling water consumption = 82,600 gallons of cooling water per ton of VOC adsorbed

Cooling Water Unit Cost = \$0.53 per 1000 gallons

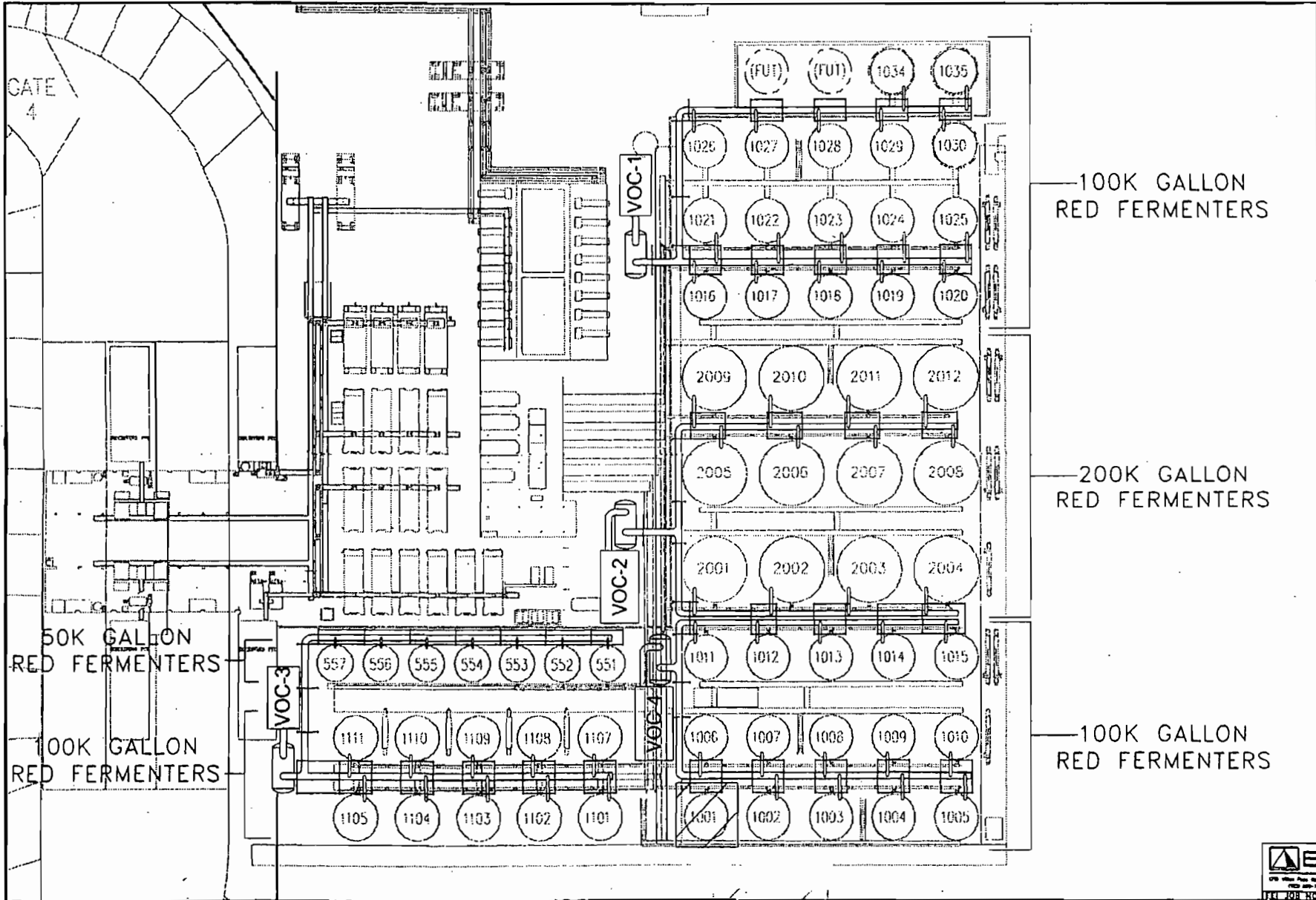
Given 350.62 tons of VOC adsorbed per year, annual cost for cooling water is

$82,600 \times 350.62 \times \$0.53/1000 = \mathbf{\$15,800}$  per year

**Utilities and Other Annual Costs**

<b>Control Device</b>	<b>Case 1 Thermal Ox</b>	<b>Case 2 RTO</b>	<b>Case 3 Refrigerated Cond.</b>	<b>Case 4 Water Scrubber</b>	<b>Case 5 Carbon Adsorption</b>
Natural Gas	\$1,078,000	\$53,900	\$0	\$0	\$44,700
Electricity	\$185,600	\$185,600	\$399,600	\$185,600	\$185,600
Water Disposal	\$0	\$0	\$0	\$2,008,800	\$150,600
Cooling Water	\$0	\$0	\$0	\$0	\$15,800
Carbon Replacement	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$10,500</u>
<b>Total</b>	<b>\$1,263,600</b>	<b>\$239,500</b>	<b>\$399,600</b>	<b>\$2,194,400</b>	<b>\$407,200</b>

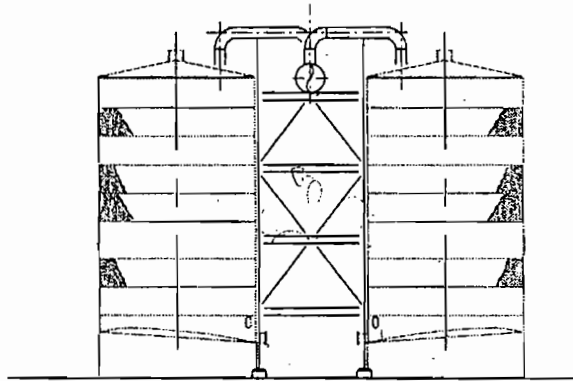
**BACT Attachment D  
Eichleay Drawings**



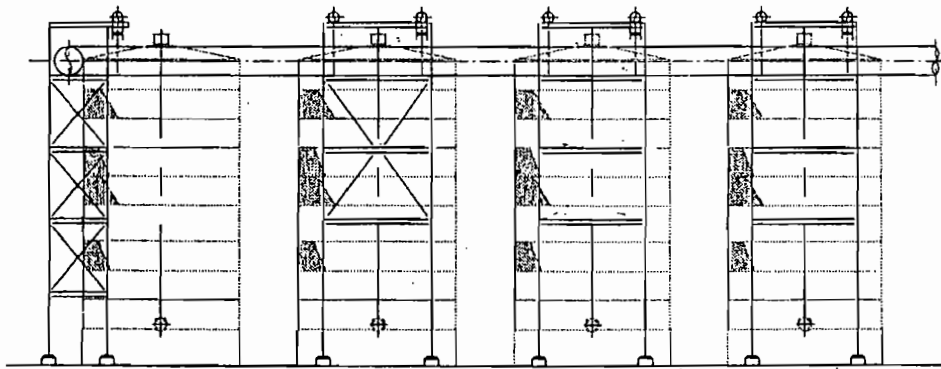
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DUCT SUPPORT FRAMING PLAN FERMENTER VOC ABATEMENT 2000	
<b>E. &amp; J. GALLO WINERY</b> 1000 CALIFORNIA STREET SAN FRANCISCO, CA 94133	
PROJECT NO.: [blank] DRAWING NO.: [blank]	DATE: [blank] BY: [blank] CHECKED BY: [blank]
APPROVED FOR THE PROJECT: [blank] DATE: [blank]	







TYP. CROSS SECTION

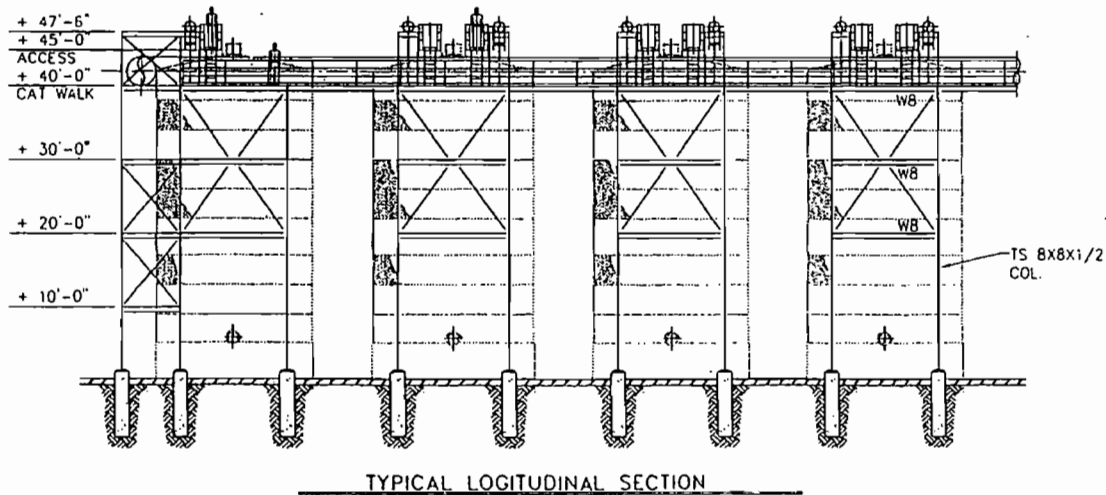
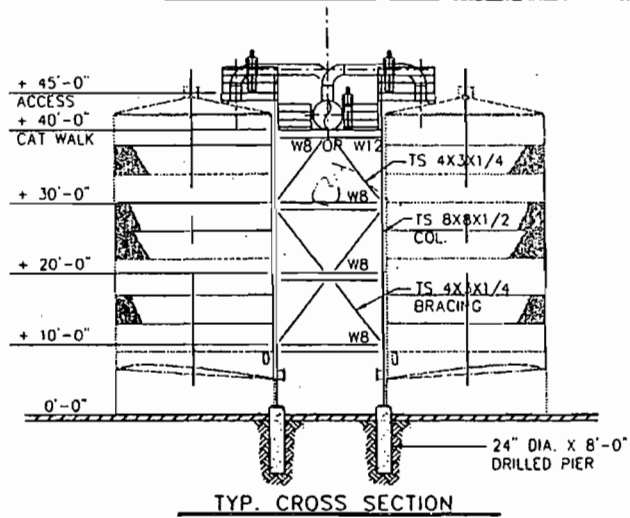


TYPICAL LOGITUDINAL SECTION

<b>E. &amp; J. GALLO WINERY</b> 1000 N. 10th St. Astoria, OR 97103 Phone: 503-325-1111		TYP. DUCT SUPPORT FRAMING DETAILS REQUENIER VOC ABATEMENT 2005 SCALE: 1/4" = 1'-0" SHEET NO. SK-S12	
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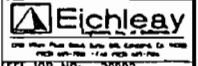


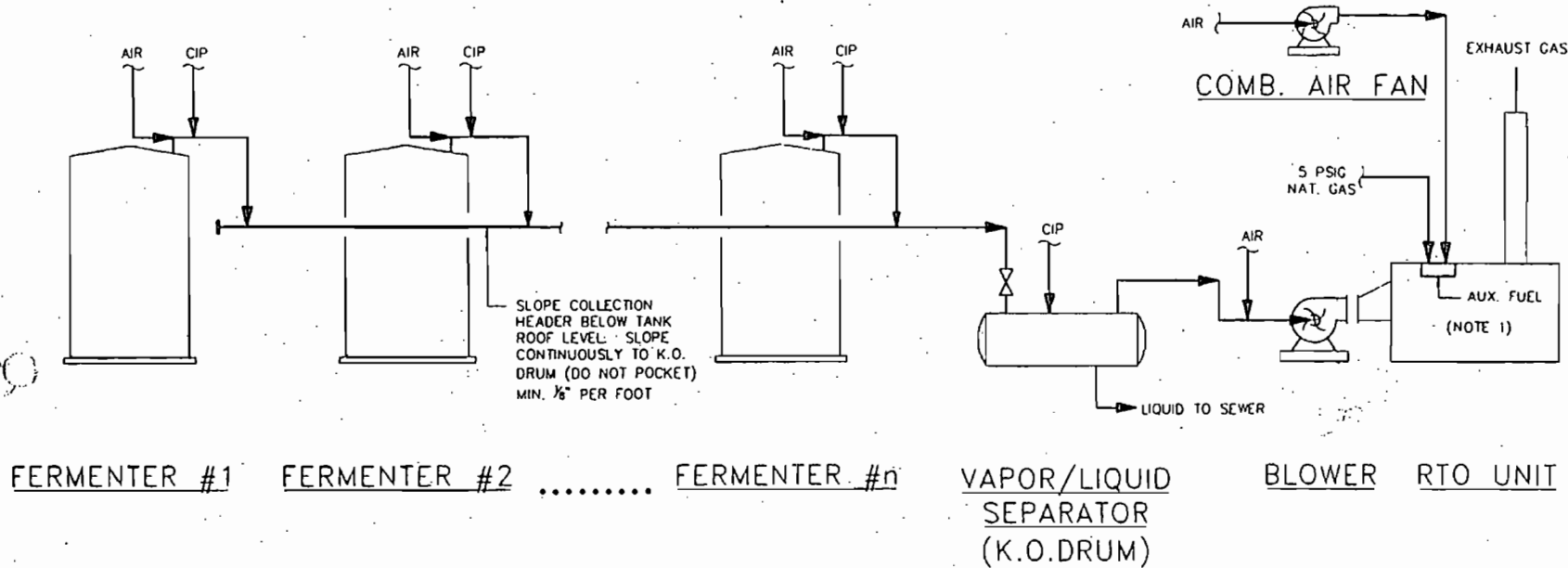
1111 200 NO. 20052



<b>E. &amp; J. GALLO WINERY</b> 1000 N. 10th St., Suite 100 Lincoln, NE 68502 Phone: (402) 441-1111 Fax: (402) 441-1112		PROJECT NO. 30892 SHEET NO. 1 OF 1
DRAWN BY: _____ CHECKED BY: _____ DATE: _____ PROJECT NO.: _____ PROJECT NAME: _____ RELEASE DATE: _____	TITLE: TYP. DUCT SUPPORT FRAMING DETAILS FERMIER VOC ABATEMENT	SCALE: _____ DRAWING NO.: _____ PROJECT NO.: 30892
NO. OF SHEETS: _____ SHEET NO.: _____ REV. NO.: _____ REV. DATE: _____ REV. BY: _____ REV. DESCRIPTION: _____	REFERENCE DRAWINGS: _____	DATE: _____ TIME: _____

PRELIMINARY

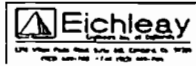


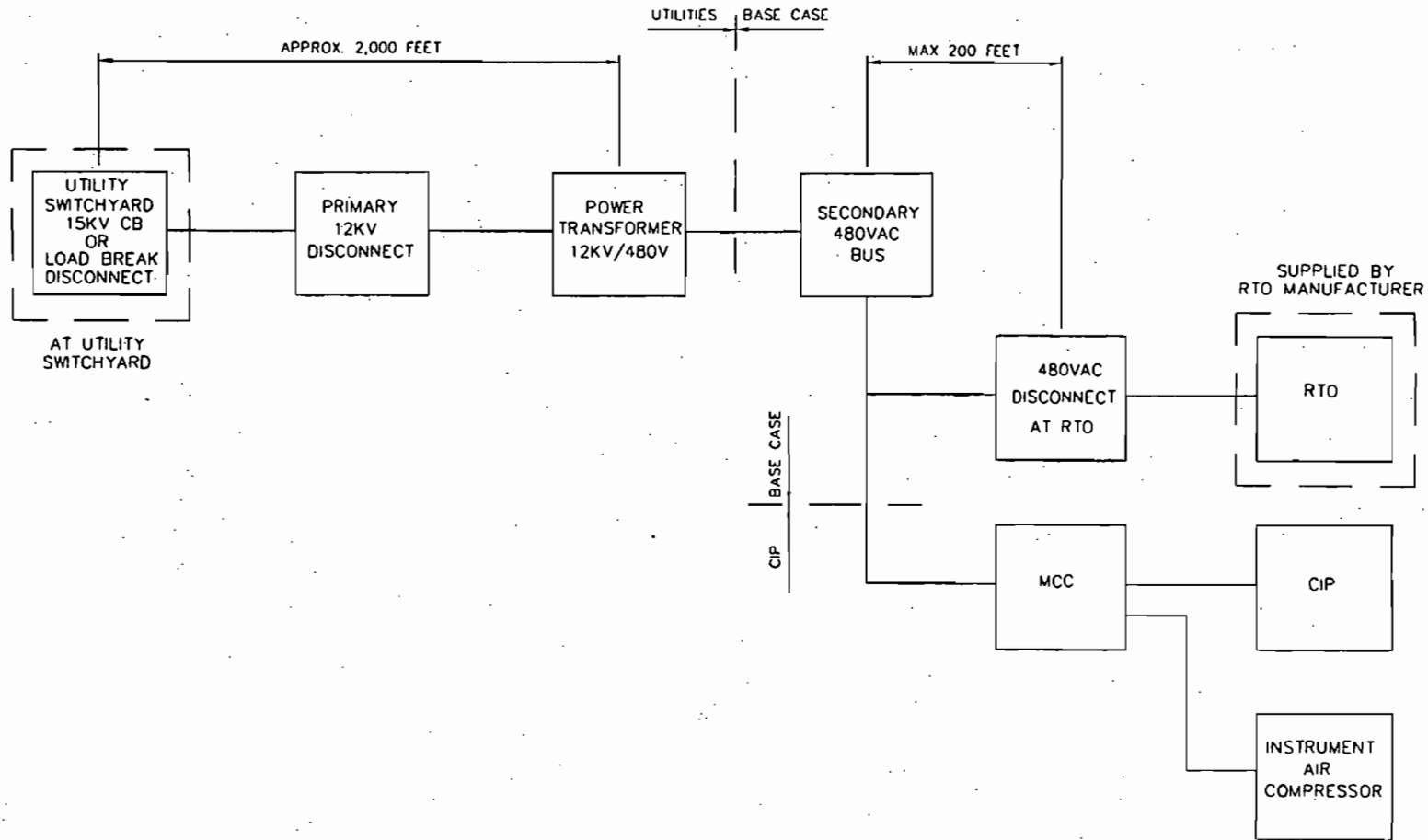


**NOTES**

1. RTO DILUTION AIR CONTROLS
  - A. ADD COOLING AIR AT ≥ 30% LEL (9,840 PPM ETHANOL)
  - B. ADD COMBUSTION AIR TO MAINTAIN ≥ 4% OXYGEN IN RTO VAPOR INLET
  - C. ADD SUPPLEMENTAL FUEL IF RTO VAPOR INLET IS < 3% LEL (984 PPM ETHANOL)

DATE: _____		PROJECT NO.:	
DESIGNED BY:	CHECKED BY:	DATE:	DATE:
PROJECT NO.:	SCALE:	REVISION NO.:	REVISION DATE:
E. & J. GALLO WINERY		PROCESS FLOW DIAGRAM	
FERMENTER VAPOR COLLECTION SYSTEM		FERMENTER NO. AB02202	
DATE: _____		SK-30892-003	
DRAWN BY:		DATE:	
CHECKED BY:		DATE:	
PROJECT NO.:		SCALE:	
REVISION NO.:		REVISION DATE:	
DATE: _____		DATE: _____	
PROJECT NO.:		SCALE:	
REVISION NO.:		REVISION DATE:	
DATE: _____		DATE: _____	
PROJECT NO.:		SCALE:	
REVISION NO.:		REVISION DATE:	
DATE: _____		DATE: _____	





ELECTRICAL SEQUENCE			
NO.	DESCRIPTION	DATE	BY

NO.	DESCRIPTION	DATE	BY

NO.	DESCRIPTION	DATE	BY

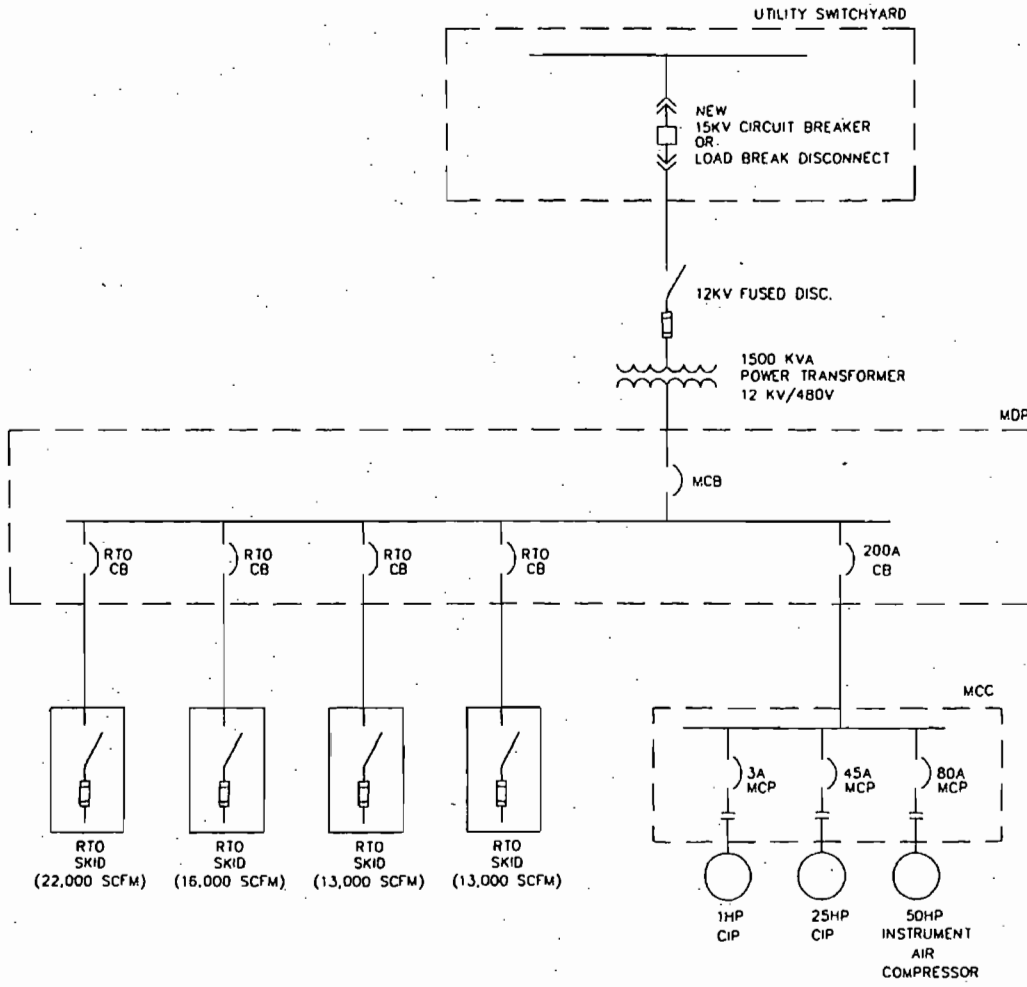
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NO.	DESCRIPTION	DATE	BY



PROJECT NO: 30897



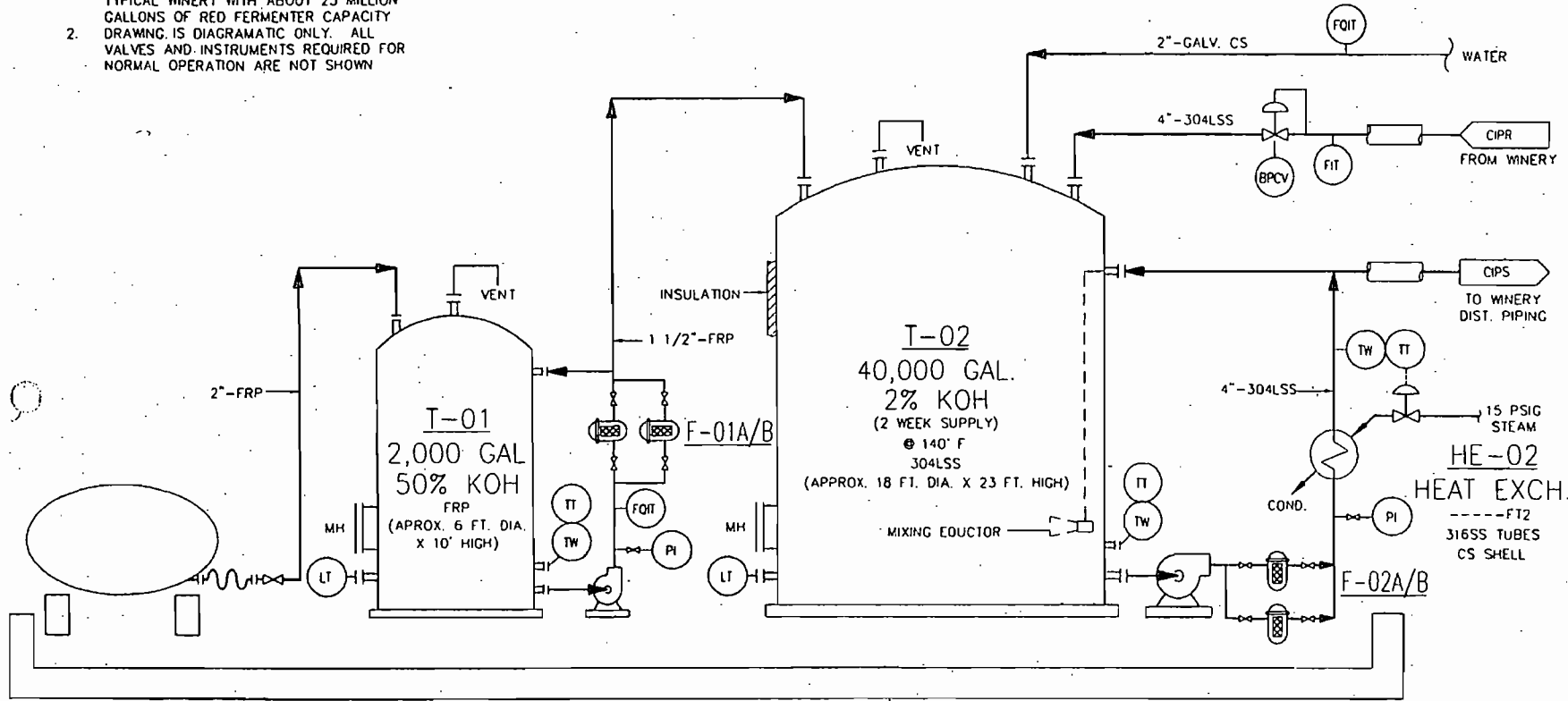
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DESIGNED BY	CHECKED BY	PROJECT NUMBER	30892-SK-E01	REV. 1 OF 1
DRAWN BY	DATE	PROJECT NAME	30892	
E. & J. GALLO WINERY				
10000 10th St. N. Seattle, WA 98148				
PHONE (206) 465-1000 FAX (206) 465-1001				
WWW.GALLOWINERY.COM				
REV.	DESCRIPTION	DATE	BY	DATE
1	ISSUED FOR APPROVAL			
2	ISSUED FOR CONSTRUCTION			
REV.	DESCRIPTION	DATE	BY	DATE
REFERENCE DRAWINGS				
DWG. NO.				



TEL 708 807 3057

# NOTES

- EQUIPMENT SIZES SHOWN ARE FOR A TYPICAL WINERY WITH ABOUT 25 MILLION GALLONS OF RED FERMENTER CAPACITY
- DRAWING IS DIAGRAMATIC ONLY. ALL VALVES AND INSTRUMENTS REQUIRED FOR NORMAL OPERATION ARE NOT SHOWN



**TANK TRUCK**  
50% KOH  
(DELIVER 1500 GAL. ± EVERY 2 WEEKS)

**P-01**  
**TRANSFER PUMP**  
20 GPM @ 50 FT.  
50% KOH  
FRP  
1 HP

**F-01A/B**  
**50% KOH FILTER**  
RATED 20 GPM/150PSIG  
FRP  
20 MICRON

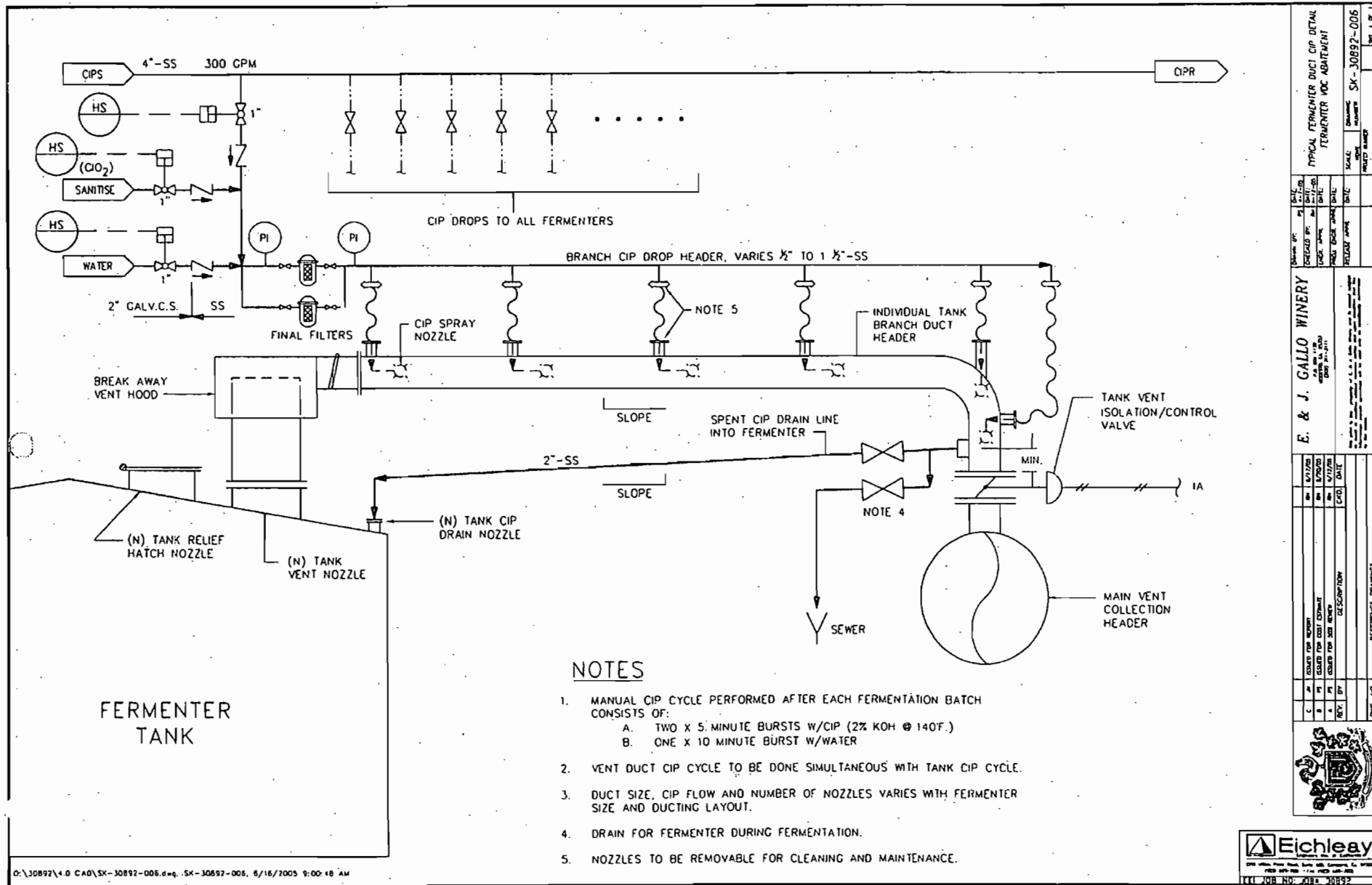
CONCRETE CONTAINMENT  
WITH COATING  
(APPROX. 40' X 60' X 2.5' CURB)

**P-02**  
**CIP PUMP**  
300 GPM @ 200 FT.  
2% KOH  
316SS  
25 HP

**F-02A/B**  
**CIP FILTERS**  
RATED 300 GPM/150PSIG  
304SS  
20 MICRON

PROCESS FLOW DIAGRAM BULK CIP MAKE-UP FERMENTER VOC ABATEMENT			
DATE	BY	SCALE	PROJECT NO.
			SK-30892-004
<b>E. &amp; J. GALLO WINERY</b>			
DATE	BY	DESCRIPTION	REFERENCE DRAWINGS





**NOTES**

1. MANUAL CIP CYCLE PERFORMED AFTER EACH FERMENTATION BATCH CONSISTS OF:
  - A. TWO X 5 MINUTE BURSTS W/CIP (2% KOH @ 140F.)
  - B. ONE X 10 MINUTE BURST W/WATER
2. VENT DUCT CIP CYCLE TO BE DONE SIMULTANEOUS WITH TANK CIP CYCLE.
3. DUCT SIZE, CIP FLOW AND NUMBER OF NOZZLES VARIES WITH FERMENTER SIZE AND DUCTING LAYOUT.
4. DRAIN FOR FERMENTER DURING FERMENTATION.
5. NOZZLES TO BE REMOVABLE FOR CLEANING AND MAINTENANCE.

TYPICAL FERMENTER DUCT CIP DETAIL FERMENTER VOC ABATEMENT		SCALE: SK-30892-006 DRAWING NUMBER: SK-30892-006 SHEET NUMBER: 1 OF 1
DATE: 11/11/05 CHECKED BY: [Signature] DRAWN BY: [Signature]	DATE: 11/11/05 PROJECT: [Project Name] RELEASED BY: [Signature]	DATE: 11/11/05 PROJECT: [Project Name] RELEASED BY: [Signature]
<b>E. &amp; J. GALLO WINERY</b> 1000 CALIFORNIA AVENUE SAN FRANCISCO, CA 94108		
NO. 1 DATE: 11/11/05 DESCRIPTION: [Blank]	NO. 2 DATE: 11/11/05 DESCRIPTION: [Blank]	NO. 3 DATE: 11/11/05 DESCRIPTION: [Blank]
REFERENCE DRAWINGS: [Blank]		



## **APPENDIX J**

### **Billing Information**



## Billing Information

Permit.	Fee Description	Fee Rule	Fee
C-1353- 4 -2	4,029 GALLONS	3020-05 A	\$75
C-1353- 5 -2	3,438 GALLONS	3020-05 A	\$75
C-1353- 6 -2	3,438 GALLONS	3020-05 A	\$75
C-1353- 7 -2	8,151 GALLONS	3020-05 B	\$93
C-1353- 8 -2	22,413 GALLONS	3020-05 C	\$135
C-1353- 9 -2	20,243 GALLONS	3020-05 C	\$135
C-1353- 10 -2	20,243 GALLONS	3020-05 C	\$135
C-1353- 11 -2	20,243 GALLONS	3020-05 C	\$135
C-1353- 12 -2	20,243 GALLONS	3020-05 C	\$135
C-1353- 13 -2	13,000 GALLONS	3020-05 B	\$93
C-1353- 14 -2	13,000 GALLONS	3020-05 B	\$93
C-1353- 15 -2	13,000 GALLONS	3020-05 B	\$93
C-1353- 16 -2	18,890 GALLONS	3020-05 B	\$93
C-1353- 17 -2	18,890 GALLONS	3020-05 B	\$93
C-1353- 18 -2	18,890 GALLONS	3020-05 B	\$93
C-1353- 19 -2	18,890 GALLONS	3020-05 B	\$93
C-1353- 20 -2	18,890 GALLONS	3020-05 B	\$93
C-1353- 21 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 22 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 23 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 24 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 25 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 26 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 27 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 28 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 29 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 30 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 31 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 32 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 33 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 34 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 35 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 36 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 37 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 38 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 39 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 40 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 41 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 42 -2	105,690 GALLONS	3020-05 E	\$246
C-1353- 43 -2	200,326 GALLONS	3020-05 E	\$246
C-1353- 44 -2	200,487 GALLONS	3020-05 E	\$246
C-1353- 45 -2	200,487 GALLONS	3020-05 E	\$246
C-1353- 46 -2	200,487 GALLONS	3020-05 E	\$246
C-1353- 47 -2	216,191 GALLONS	3020-05 E	\$246



C-1353-	94	-2	348,949 GALLONS	3020-05 E	\$246
C-1353-	95	-2	348,949 GALLONS	3020-05 E	\$246
C-1353-	96	-2	348,949 GALLONS	3020-05 E	\$246
C-1353-	97	-2	348,949 GALLONS	3020-05 E	\$246
C-1353-	98	-2	348,949 GALLONS	3020-05 E	\$246
C-1353-	99	-2	348,949 GALLONS	3020-05 E	\$246
C-1353-	100	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	101	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	102	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	103	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	104	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	105	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	106	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	107	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	108	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	109	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	110	-2	98,001 GALLONS	3020-05 D	\$185
C-1353-	111	-2	98,001 GALLONS	3020-05 D	\$185

## **APPENDIX K**

### **Facility-Wide Requirements**

# San Joaquin Valley Air Pollution Control District

**FACILITY:** C-581-0-1

**EXPIRATION DATE:** 07/31/2015

## **FACILITY-WIDE REQUIREMENTS**

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1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: GOLDEN STATE VINTNERS  
Location: 7409 W CENTRAL AVE, FRESNO, CA 93706  
C-581-0-1 : Jan 31 2012 4:39PM - ROBERTSD

10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (2/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE  
These terms and conditions are part of the Facility-wide Permit to Operate.

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/04) or Rule 8011 (8/19/04). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE  
These terms and conditions are part of the Facility-wide Permit to Operate.

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), and Rule 111 (Kern, Tulare, Kings). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (12/17/09); 8021 (8/19/04); 8031 (8/19/04); 8041 (8/19/04); 8051 (8/19/04); 8061 (8/19/04); and 8071 (9/16/04). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. On July 31, 2010, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. This facility shall annually achieve the Required Annual Emission Reductions (RAER) as specified in the facility's APCO-approved Three-Year Compliance Plan for District Rule 4694. [District Rule 4694]
44. A Three-Year Compliance Plan that demonstrates compliance with the requirements of Section 5.1 of District Rule 4694 for each year of the applicable compliance period shall be submitted to the District by no later than December 1, 2006, and every three years thereafter on or before December 1. [District Rule 4694]
45. A Three-Year Compliance Plan Verification that demonstrates that the Three-Year Compliance Plan elements are in effect shall be submitted to the District by no later than July 1, 2007, and every three years thereafter on or before July 1. [District Rule 4694]
46. Operators using CER to mitigate fermentation emissions shall perform all monitoring and recordkeeping, as established in their approved Three-Year Compliance Plan, and shall maintain all records necessary to demonstrate compliance. [District Rule 4694]
47. An Annual Compliance Plan Demonstration that shows compliance with the applicable requirements of this rule shall be submitted to the District by no later than February 1, 2008, and every year thereafter on or before February 1. [District Rule 4694]
48. Operators using District Obtained Emission Reductions (DOER) shall submit payment of DOER and administrative fees to the District no later than March 1, of the first year in the applicable compliance period. [District Rule 4694]

These terms and conditions are part of the Facility-wide Permit to Operate.



# **APPENDIX L**

## **Draft ATCs**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-4-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 4,029 GALLON (POSTED 4,028 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0002 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-4-2 ; Feb 1 2012 4:31PM - ROBERTSD ; Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

DRAFT  
CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-5-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 3,438 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0004 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-5-2; Feb 1 2012 4:31PM - ROBERTSD ; Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-6-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 3,438 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F0005 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**DAVID WARNER**, Director of Permit Services

C-581-6-2: Feb 1 2012 4:31PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-7-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS

**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 8,151 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0008 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-7-2 : Feb 1 2012 4:31PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-8-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS

**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 22,413 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0021 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-8-2 : Feb 1 2012 4:31PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-9-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS

**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 20,243 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0022 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-9-2; Feb 1 2012 4:31PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-10-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 20,243 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0023 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-10-2; Feb 1 2012 4:31PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-11-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 20,243 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0024 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director APCO

**DAVID WARNER, Director of Permit Services**

C-581-11-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
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16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-581-12-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 20,243 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0025 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-12-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
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9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-13-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,000 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F00P1 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE TANK AS A RED/WHITE FERMENTATION-ONLY TANK

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

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DAVID WARNER, Director of Permit Services

C-581-13-2: Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

7. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-14-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,000 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F00P2 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE TANK AS A RED/WHITE FERMENTATION-ONLY TANK

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services

C-581-14-2 - Feb 1 2012 4:32PM - ROBERTSD - Joint Inspection NOT Required

7. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-15-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,000 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F00P3 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE TANK AS A RED/WHITE FERMENTATION-ONLY TANK

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-15-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

7. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-16-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,000 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F00P4 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE TANK AS A RED/WHITE FERMENTATION-ONLY TANK

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

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DAVID WARNER, Director of Permit Services

C-581-16-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

7. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
9. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-17-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 18,890 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0181 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

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DAVID WARNER, Director of Permit Services  
C-581-17-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-18-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 18,890 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0182 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director YAPCO

DAVID WARNER, Director of Permit Services

C-581-18-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-19-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 18,890 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0183 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

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DAVID WARNER, Director of Permit Services  
C-581-19-2 : Feb 1 2012 4:32PM -- ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-20-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 18,890 GALLON STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F0184 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DAVID WARNER, Director of Permit Services**

C-581-20-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-21-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1001 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER, Director of Permit Services**

C-581-21-2; Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** C-581-22-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1002 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

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DAVID WARNER, Director of Permit Services  
C-581-22-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
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9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-581-23-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1003 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-23-2: Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-24-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1004 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DAVID WARNER, Director of Permit Services**

C-581-24-2 . Feb 1 2012 4:32PM - ROBERTSD Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-25-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1005 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER**, Director of Permit Services

C-581-25-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-26-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1006 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-26-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-27-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1011 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director YAPCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-27-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-28-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1012 WITH PRESSURE/VACUUM VALVE; ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-28-2; Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-29-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS

**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1013 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-29-2; Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-30-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1014 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-30-2, Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** C-581-31-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1015 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-31-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-32-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1016 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-32-2; Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-33-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1017 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-33-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-34-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1018 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-34-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
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9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-35-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1022 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-35-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-581-36-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1023 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-36-2 : Feb 1 2012 4:32PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-37-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1024 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-37-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-38-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS

**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1025 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER, Director of Permit Services**

C-581-38-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-39-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1026 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-39-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-40-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1027 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-40-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-41-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1028 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER**, Director of Permit Services

C-581-41-2 - Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule2201] Federally Enforceable Through Title V Permit.
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-42-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 105,690 GALLON (POSTED 106,241 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F1029 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-42-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-43-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS

**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 200,326 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1991 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services

C-581-43-2; Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-44-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 200,487 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1992 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER, Director of Permit Services**

C-581-44-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-45-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 200,487 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1993 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-45-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-46-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 200,487 GALLON (POSTED 200,486 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F1994 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-46-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-47-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 216,191 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F2001 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-47-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-581-48-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 216,191 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F2002 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-48-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-49-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 216,191 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F2003 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director YAPCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-49-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-50-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 216,191 GALLON STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F2004 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DAVID WARNER, Director of Permit Services**

C-581-50-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726 • (559) 230-5900 • Fax (559) 230-6061



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-51-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F2010 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-51-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-52-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F2011 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DAVID WARNER**, Director of Permit Services

C-581-52-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726 • (559) 230-5900 • Fax (559) 230-6061

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-53-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F2012 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director YAPCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-53-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
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9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
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17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-54-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F2020 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director YAPCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-54-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
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18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-55-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F2021 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER, Director of Permit Services**

C-581-55-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** C-581-56-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 216,191 GALLON (POSTED 216,879 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F2022 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-56-2 : Feb 1 2012 4:33PM -- ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-57-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3001 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DAVID WARNER**, Director of Permit Services

C-581-57-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** C-581-58-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3002 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-58-2 : Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-59-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3003 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-59-2, Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-581-60-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3004 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER**, Director of Permit Services  
C-581-60-2 - Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-61-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3005 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-61-2; Feb 1 2012 4:33PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-62-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3006 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-62-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** C-581-63-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3007 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services

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5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** C-581-64-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3008 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

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DAVID WARNER, Director of Permit Services  
C-581-64-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-65-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3009 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DAVID WARNER, Director of Permit Services**

C-581-65-2 : Feb 1 2012 4:34PM -- ROBERTSD : Joint Inspection NOT Required

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726 • (559) 230-5900 • Fax (559) 230-6061

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-581-66-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE

FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3010 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-66-2; Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
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9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-581-67-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3011 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-67-2: Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-68-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3012 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER, Director of Permit Services**

C-581-68-2; Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-69-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3013 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-69-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-70-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3014 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER, Director of Permit Services**

C-581-70-2; Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-71-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3015 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director YAPCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-71-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-72-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3016 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-72-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-73-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3017 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-73-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**

**PERMIT NO:** C-581-74-2

**ISSUANCE DATE:** DRAFT

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**  
MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3018 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-74-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-75-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3019 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-75-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-581-76-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3020 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DAVID WARNER, Director of Permit Services**

C-581-76-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** C-581-77-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3021 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-77-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-78-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3022 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-78-2; Feb 1 2012 4:34PM - ROBERTSD ; Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-79-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3023 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-79-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-80-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3024 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services

C-581-80-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-81-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3026 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-81-2 - Feb 1 2012 4:34PM - ROBERTSD - Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-82-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3027 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services

C-581-82-2; Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-83-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3028 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director YAPCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-83-2 : Feb 1 2012 4:34PM - ROBERTSD Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-84-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3029 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director YAPCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-84-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-85-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3030 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER**, Director of Permit Services  
C-581-85-2 - Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** C-581-86-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3031 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-86-2 : Feb 1 2012 4:34PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-87-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3032 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-87-2; Feb 1 2012 4:34PM -- ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-88-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3034 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-88-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-89-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3035 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

C-581-89-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-90-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3036 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DAVID WARNER**, Director of Permit Services

C-581-90-2; Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-91-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3037 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services

C-581-91-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-92-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3038 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-92-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-93-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3039 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-93-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-94-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3040 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-94-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-95-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3042 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-95-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-96-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3043 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

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DAVID WARNER, Director of Permit Services  
C-581-96-2; Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula:  $\text{Total annual VOC emissions} = (\text{Total Annual Red Wine Production-gal}) \times (6.2 \text{ lb-VOC}/1000 \text{ gal}) + (\text{Total Annual White Wine Production-gal}) \times (2.5 \text{ lb-VOC}/1000 \text{ gal})$ . [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-97-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WHITE WINE FERMENTATION/STORAGE TANK F3044 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-97-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-98-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3045 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**DAVID WARNER**, Director of Permit Services

C-581-98-2 : Feb 1 2012 4:35PM -- ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-99-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 348,949 GALLON (POSTED 348,928 GALLON) STAINLESS STEEL ENCLOSED TOP WINE FERMENTATION/STORAGE TANK F3046 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-99-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-100-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9801 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services

C-581-100-2; Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-581-101-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9802 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-101-2; Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-102-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9803 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-102-2; Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
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9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-103-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9804 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-103-2; Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-104-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9805 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services

C-581-104-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-105-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9806 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director YAPCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-105-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-106-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9807 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services

C-581-106-2, Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required



5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
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9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-107-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9808 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services

C-581-107-2; Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-108-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9809 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services

C-581-108-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** C-581-109-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9810 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-109-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

**DRAFT**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** C-581-110-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9811 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

**DRAFT**

DAVID WARNER, Director of Permit Services  
C-581-110-2; Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** C-581-111-2

**LEGAL OWNER OR OPERATOR:** GOLDEN STATE VINTNERS  
**MAILING ADDRESS:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**LOCATION:** 7409 W CENTRAL AVE  
FRESNO, CA 93706

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 98,001 GALLON (POSTED 98,000 GALLON) STAINLESS STEEL ENCLOSED TOP RED WINE FERMENTATION/STORAGE TANK F9812 WITH PRESSURE/VACUUM VALVE: ESTABLISH A SPECIFIC LIMITING CONDITION FOR ALL FERMENTATION AND STORAGE TANKS, DESIGNATE THE TANK AS A RED/WHITE WINE FERMENTATION/STORAGE TANK EQUIPPED WITH INSULATION

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
4. When used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director APCO

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DAVID WARNER, Director of Permit Services

C-581-111-2 : Feb 1 2012 4:35PM - ROBERTSD : Joint Inspection NOT Required

5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
6. The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 oF, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The daily VOC emissions rate for wine fermentation shall not exceed 3.46 lb/1000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When this tank is used for wine storage and the tank capacity is greater than or equal to 200,000 gallons, the daily tank throughput shall not exceed the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When this tank is used for wine storage and the tank capacity is less than 200,000 gallons, the daily tank throughput shall not exceed twice the maximum nominal tank capacity stated on the equipment description. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Total annual VOC emissions from all wine fermentation and wine storage operations at this facility shall not exceed 435,581 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Combined annual VOC emissions from all wine storage operations shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The annual VOC wine storage emission factor (EF) for each wine transfer shall be selected from the following emission factors based on the ethanol content of the wine transferred: For wine with ethanol content less than or equal to 14 volume percent:  $EF = 0.150 \text{ lb-VOC}/1000 \text{ gallons}$ ; For wine with ethanol content greater than 14 volume percent,  $EF = 0.248 \text{ lb-VOC}/1000 \text{ gallons}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201] Federally Enforceable Through Title V Permit
15. For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
16. When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
17. When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
18. Records of total annual fermentation and total annual storage emissions, including calculation methods and parameters used, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
19. Separate annual records of total red wine and total white wine produced by fermentation at this facility, based on values reported to the Alcohol and Tobacco Tax and Trade Bureau (TTB), U.S. Department of the Treasury, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE



20. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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