MONTEREY BAY AIR RESOURCES DISTRICT ADVISORY COMMITTEE MEETING

THURSDAY, FEBRUARY 6, 2020 – 1:30 P.M.

24580 Silver Cloud Court, Boardroom, Third Floor, Monterey, California

Summary of Actions

- 1. Call to Order The meeting was called to order at 1:35 pm.
- 2. Roll Call.

Present: Allen Stroh, Janet Brennan, Sandy Coplin, Bob Smith, Scott Storm, David Mack, Sandy Swint.

Excused: Tom Brokaw, Jeff Davis, Jay Tufano, Scott Soares.

- 3. Changes to the Agenda None
- 4. ELECTION OF 2020 COMMITTEE CHAIR AND VICE CHAIR **Result:** Janet Brennan, Chair; Jeff Davis, Vice Chair
- 5. Public Comment Period None.
- 6. **Accepted and Filed** Summary of Actions for the Advisory Committee Meeting of December 5, 2019

Accepted by consensus.

7. **Accepted and Filed** a Report on Daily Eight-Hour Peak Ozone Concentrations, Hourly Peak Ozone Concentrations, and PM2.5 and PM10 Air Monitoring Data for 2019.

Motion: Accept and file the report., **Action:** Approve, **Moved by** Sandy Coplin, **Seconded by** Bob Smith.

Motion passed unanimously.

- 8. **Received** an Oral Report on Wineries Emissions and Air District Rule Applicability **Received report and provided comments; no action required or taken.**
- Received Monthly Oral Report from Air Pollution Control Officer Richard Stedman, APCO, reported on the following: Board of Directors meeting held on December 18, 2029 Engineering
 - Completed first round of meetings with a consultant to update District records retention schedule.
 - On August 22, Engineering hosted a workshop for wastewater treatment facilities to explain air toxics emissions reporting needed from the facilities and review

excel spreadsheet used to calculate emissions.

 On September 19, our Inspector Bronwyn Nielson will present at the annual Monterey County Environmental Compliance workshop. The theme for the workshop this year is "Compliance HAZ Never Been So Easy."

Planning and Air Monitoring

- Phase II of the Monterey Bay Electric Vehicle Incentive Program is still underway. Over half of the funds for this year have been awarded.
- District signed a grant agreement for Funding Agricultural Replacement Measures for Emissions Reductions (FARMER) Program which will provide \$1.25 million for the replacement of tractors and irrigation pumps with cleaner burning engines.

New Employee

Laura Cent - Started as the District's Senior Fiscal Assistant on December 9, 2019.

- 10. Future Agenda Items None
- 11. Chairman's Comments None
- 12. Comments from Committee Members None
- 13. Order for Adjournment The meeting was adjourned at 2:55 pm.

Ann O'Rourke Executive Assistant

AGENDA ITEM NO. 5

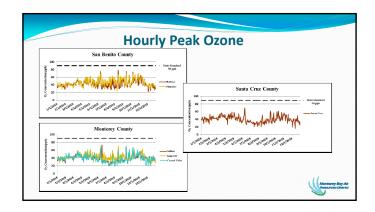


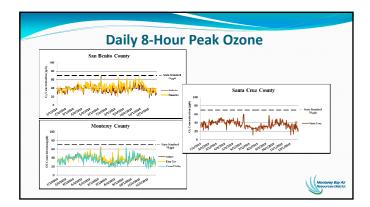


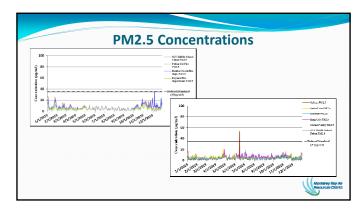


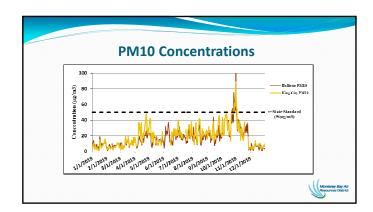


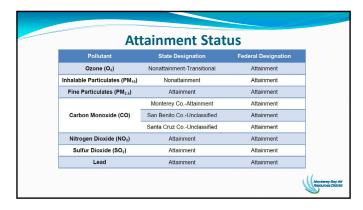
Am	Ambient Air Quality (Daily) Standards						
	Averaging Time	California Standards	National Standards				
Pollutant		Concentration	Primary Concentration ³	Secondary Concentration ⁴			
	1 hour	0.09 ppm					
Ozone	8 hour	0.070 ppm	0.070 ppm	0.070 ppm			
PM2.5	24 hour		35 μg/m³	Same			
PM10	24 hour	50 μg/m³	150 μg/m³	Same			













WINERY EMISSIONS AND AIR DISTRICT RULE APPLICABILITY



MARY GIRAUDO, ENGINEERING SUPERVISOR ADVISORY COMMITTEE FEBRUARY 6, 2020



Presentation Overview

- Wineries in District
- Winery Emissions and Emission Controls
- Rule 201 Permit Exemptions and Rule 207 New Source Review
- SB288 Rule Revision Process
- Impact of Proposed Revisions to Rule 207



Wineries in Monterey, Santa Cruz, & San Benito Counties

- 192 Wine Producers and Blenders in MBARD Jurisdiction
 - 110 in Monterey County
 - 68 in Santa Cruz County
 - 15 in San Benito County
- 180 facilities qualify for permit exemption (94% of facilities)
- 13 wineries require local District permits
 - 11 permitted wineries
 - 2 wineries in permit application phase
- 1 winery requires a Federal Title V permit Federal Major Source Threshold 100 tons per year



Attainment Status of Ambient Air Quality Standards (AAQS)

- · MBARD is in attainment with all national AAQS
- MBARD does not meet State ozone and PM₁₀ AAQS
- Volatile Organic Compound (VOC) emissions are precursors to ozone and PM₁₀



Air Emissions from Wineries

- Fermentation produces (carbon dioxide and ethanol)
- Oak barrel aging and storage (ethanol) "The Angel's Share"
- Fermentation emissions occur during peak ozone season, late summer/early fall
- Ethanol = VOC = ozone and PM₁₀ precursor



Winery		Fermentation VOC Emissions (lbs per day)	Permitted Fermentation Throughputs (gallons/year)	2018 Fermentation Throughputs (gallons/year)
Constellation Brands	Gonzales	1,808	30,437,595	29,283,867
The Wine Group	Soledad	268	9,500,000	5,030,805
Franciscan Vineyards	Soledad	250	4,515957	3,974,523
Delicato	Paicines	499	9,734,176	2,954,090
Kendall-Jackson	Soledad	236	5,906,952	3,916,425
Delicato	King City	234	4,000,000	2,456,522
Scheid Vineyards, Inc.	Greenfield	156	5,439,896	4,973,332
Monterey Wine Co.	King City	176	3,500,000	2,636,390
J. Lohr Winery	Greenfield	95	3,479,600	1,591,723
Conundrum Winery	Salinas	< 25	1,010,000	706,460
KVL Holdings Inc.	Soledad	< 25	563,000	562,366

2018 EMISSIONS INVENTORY REPORTING (stationary sources >10 tons per year) FACILITY NAME CONSTELLATION WINES (GONTAINE WINNEY) CHEVROPULS.A. DYNECY MOSS LANDING ABOUT CHEVROPULS.A. DYNECY MOSS LANDING AERA ENERGY, LIC. 5-SAN ARDO FIELD 37.48 THE WINE GROUP - GSY SOLEDAD WINNEY JACKSON FAMILY WINNES. MONTRERY JACKSON FAMILY WINNES. MONTRERY SCHEID WINEYARDS - WINNEY CITY OF SANTA CRUZ WWTP MRWMOD MONTRERY ONE WATER (FOrmerly MRWPCA) SANTA CRUZ ENERGY, LIC (SC Landfill) CITY OF WASTON CHULE WWTP LUGIST WASTON WINNES GRANITE BOCK. AROMAS ALPINE KING CHUTY COGEN AMERISCO SANTA CRUZ ENERGY LIC (BURNEY) GRANITE BOCK. - AROMAS AMERISCO SANTA CRUZ ENERGY LIC (BURNEY) AMERISCO SANTA CRUZ ENERGY LIC (BURNEY) MARIER SOLATION CRUZ WORTP AMERISCO SANTA CRUZ ENERGY LIC (BURNEY) MARIER SOLATION CRUZ WORTP AMERISCO SANTA CRUZ ENERGY LIC (BURNEY WIST) WASTE SOLUTIONS GROUP OF SAN BENITO, LIC WASTE SOLUTIONS GROUP OF SAN BENITO, LIC WASTE SOLUTIONS GROUP OF SAN BENITO, LIC OLD VOC Percent From Wineries = 30%

Stationary Source Emissions Inventory (> 10 tons per year)

20 sources >10 tpy, includes 5 wineries

VOC emissions from 5 wineries = 158 tons per year

50% of VOC from wineries







Franciscan Vineyards dba Estancia Estates The Wine Group dba Golden State Vintners

Local Rules (201 and 207)

- Rule 201 establishes permit exemptions
- Rule 207 establishes permit emission thresholds for emission control and offsets



Rule 201 Permit Exemptions

- Wineries in operation as of May 14, 1997 with an annual production rate less than 1.25 million gallons.
- New or reconstructed, as defined in Rule 207, wineries with annual production rate less than 150,000 gallons.



Air District Exemption Comparison **Exemption Threshold Limits** Reference Emissions from fermentation, aging and bottling with actual Santa Barbara County Rule 202 emissions less than 1 ton per year APCD (if no aging, equivalent to 322,581 gallons red wine) San Joaquin Valley APCD Certification Statement Annual production rate less than 47,600 gallons No Specific Rule By policy wineries are not permitted but they are San Luis Obispo APCD "registered" and pay renewal fees Exemption Regulation 2, Rule 1 Fermentation tanks for wine 2017 Clean Air Plan, Review emissions generated by fermentation at wineries and Bay Area AQMD Further Study Measure breweries to determine if reductions can be achieved

Rule 207 New Source Review

Federal and state emission thresholds for permit review:

- Best Available Control Technology (BACT)
- Offsets



Rule 207 BACT and Offset Thresholds Best Available Control Offsets Offset Exemptions Technology (BACT) APCO discretion upon ≥ 150 lbs/day ≥ 150 lbs/day demonstration of facility-wide aggregated emissions **FEDERAL** facility-wide findings < 10 tons per year (Rule revision in 2006) aggregated emissions ıs/yeaı NA STATE ≥ 25 lbs/day 137 lbs/day individual permit unit facility-wide < 10 tons per year (Rule revision in 2006)

District Board Required Findings

- If District is in attainment with all national ambient air quality standards, revisions will not impair or impede continued maintenance of national standards or progress toward achieving attainment of State ambient air quality standards.
- The revised rule will not exempt, relax or reduce the obligation of any major stationary source, as those rules existed on December 30, 2002, to obtain a permit or meet best available control technology requirements.
- ✓ Consistent with Division 26 Air Resources procedural requirements.
- ✓ Consistent with environmental justice guidance.



Rule 207 BACT and Offset Thresholds Best Available Control Offsets Offset Exemptions Technology (BACT) APCO discretion upo ≥ 150 lbs/day ≥ 150 lbs/day demonstration of FEDERAL facility-wide facility-wide findings aggregated emissions aggregated emissions < 10 tons per year (Rule revision in 2006) STATE ≥ 25 lbs/day 137 lbs/day individual permit unit facility-wide < 10 tons per year (Rule revision in 2006)

Next Steps to Increase Offset Threshold to 25 Tons/Year

- Propose Revisions to Rule 207
- District Board adopt required findings
- CARB Executive Officer appoints hearing officer to conduct public hearing to review rule revisions and Board findings



Rule Impacts on Best Available Control Technology (BACT) Requirements

- RULE CHANGE WOULD NOT ALLEVIATE THE NEED TO INSTALL BACT IF THRESHOLDS EXCEEDED
- Two systems have been achieved in practice and cost effective in Santa Barbara County. Units are published in the BACT clearinghouse for closed-top tanks ≤ 30,000 gallons capacity.
- For tanks > 30,000 gallons capacity, cost analysis will be required.
- Emission controls allow wine industry to grow in CA while still achieving air quality goals.



Winery	Facility- Wide VOC Emissions (tons/year)	Exceeds Offset Thresholds*	Fermentation VOC Emissions (Ibs/day)	Exceeds BACT Thresholds	Allowable Fermentation Throughputs (gallons/year)	2018 Fermentation Throughputs (gallons/year)
Constellation Brands	144.0	YES	1,808	YES	30,437,595	29,283,867
The Wine Group	44.8	YES	268	YES	9,500,000	5,030,805
Franciscan Vineyards	43.2	YES	250	YES	4,515,957	3,974,523
Delicato (SB)	23.0	YES/NO	499	YES	9,734,176	2,954,090
Kendall-Jackson	22.4	YES/NO	236	YES	5,906,952	3,916,425
Delicato (Mty)	18.8	YES/NO	234	YES	4,000,000	2,456,522
Scheid Vineyards, Inc.	15.8	YES/NO	156	YES	5,439,896	4,973,332
Monterey Wine Co.	14.2	YES/NO	176	YES	3,500,000	2,636,390
J. Lohr Winery	12.2	YES/NO	95	YES	3,479,600	1,591,723
Conundrum Winery	9.2	NO	< 25	NO	1,010,000	706,460
KVL Holdings Inc.	6.5	NO	< 25	NO	563,000	562,366
*Difference if offset threshold:	137 lb/day vs. 25 t	ons/year				

Rule Impacts of Increased Offset Threshold to 25 Tons/Year

- Rule change would allow 6 wineries to increase the overall VOC emissions by 43.6 tons/year (87,000 lbs/year) before triggering offset requirements.
- Emissions equivalent to a production rate of either 14 million gals/year red wine, or 35 million gals/year white wine.
- Represents a 31% increase in production rates from our permitted wineries (based on an assumed average of 24.5 million gallons).
- Foresee rule change providing additional growth for the emerging cannabis and composting industries.



