

# Summary of Actions

- 1. CALL TO ORDER The meeting was called to order by Chair McShane at 1:30 p.m
- 2. PLEDGE OF ALLEGIANCE
- 3. Roll Call.

**Present:** Mary Ann Carbone, Zach Friend, Chris Lopez, Steve McShane, Jane Parker, Honor Spencer, John Phillips. **Absent:** Anthony Botelho, Ryan Coonerty, Chris Krohn, Fred Ledesma.

- 4. WELCOME NEW MEMBERS TO THE BOARD OF DIRECTORS None present
- ELECTION OF 2020 BOARD OF DIRECTORS CHAIR AND VICE CHAIR
   Motion: Elect Steve McShane as Chair and Ryan Coonerty as Vice Chair, Action: Approve, Moved by Zach Friend, Seconded by Jane Parker. Motion passed unanimously.
- 6. PUBLIC COMMENT PERIOD None
- 7. REPORTS BY COMMITTEE CHAIRS ON COMMITTEE MEETINGS
  - a. Budget, Personnel, and Nominating Committee
  - b. Advisory Committee
- 8. COMMENTS AND REFERRALS FROM CHAIR AND BOARD MEMBERS
  - a. Director McShane is working with the City of Seaside on an Earth Day electric drive event.
- 9. REPORT FROM AIR POLLUTION CONTROL OFFICER Richard Stedman, APCO, reported on the following:

#### **Engineering**

- District released notice of a 30-day comment period on the preliminary decision to approve issuance of a Title V Permit significant modification to Calpine Corporation for their facility located in King City. The facility is no longer exempt from the Acid Rain program because the facility will no longer supply energy to Pacific Gas and Electric Company and steam to an industrial host. The Acid Rain Program requirements have been added to the Title V permit.
- On February 12, the District held an Accela product orientation meeting to review test environment and begin the process of customizing the software to meet our needs.
- A Monterey County winery has applied for a burn permit to conduct a conservation burn of approximately 150 acres of piled vineyard materials. Sonoma Ecology Center will conduct training of 2-3 piles on Thursday February 20<sup>th</sup> to demonstrate the methods of conservation burns. The remaining piles will be burned using the conservation burn methods which reduce

- smoke and emissions. The end result of a conservation burn is biochar which can be used as soil amendment.
- Deadline for applications for an Inspector I/II position is February 24. Application materials are posted to District's website.

#### Planning and Air Monitoring

- Phase II of the Monterey Bay Electric Vehicle Incentive Program is continuing with 250 applications received, \$210,000 obligated, and \$190,000 remaining.
- On February 11 the Monterey County Board of Supervisors amended the East Garrison EIR to allow expanded use of the mitigation fund. These funds had been limited to School Bus and Irrigation pump projects.
- \$175,000 in grant funds have been received from CARB for the Woodstove Change-out program. A new development this year will be a system to receive applications on-line through Laserfiche, the District's new Document Management System.

#### San Lorenzo Valley

• Staff is continuing to observe weather conditions and air quality in the SLV to forecast when a Spare the Air alert will be declared. No Spare the Air Alerts have been called since the program opened at the beginning of November.

#### Outreach

- District will be at the Salinas Valley Ag Tech Summit at Hartnell on March 18
- District will be participating in Earth Day event at the Presidio in Monterey on April 7
- Save the Date: Clean Air Leaders Awards on June 11 @ 6:30 p.m at Wedgewood in Carmel Valley. This will be the District's 10<sup>th</sup> year of sponsoring clean air awards.

#### **APCO**

- Will be speaking tonight at the Climate Crisis & Action: A Discussion with California Leaders Keynote by Jimmy Panetta. Sponsored by Citizens' Climate Lobby Monterey County, the Center for the Blue Economy, and the Monterey Bay Aquarium.
- Request to the Board of Directors for appointments to Hearing Board and Advisory Committee.

#### **CONSENT AGENDA**

**Motion:** Approve items on Consent Agenda, **Action:** Approve, **Moved by** John Phillips, **Seconded by** Chris Lopez. Motion passed unanimously.

- 10. Accepted and Filed Summary of Actions for the December 18, 2019 Board of Directors Meeting
- 11. Received and Filed Budget to Actual Report for the Seven Months Ended January 31, 2020
- 12. **Accepted and Filed** Report of Summary of Mutual Settlement Program Actions for December 2019 and January 2020
- 13. **Approved** Out-of-State Travel Request for the Administrative and Fiscal Specialist to Attend the 2020 Springbrook National Users Conference in Portland, Oregon in May 2020

#### **REGULAR AGENDA**

14. **RESOLUTION NO. 20-001: Held** a Public Hearing and **Adopted** a Resolution Approving Rule 441 Boilers, Steam Generators, and Process Heaters

**Motion:** Adopt the resolution, **Action:** Approve, **Moved by** Jane Parker, **Seconded by** Mary Ann Carbone. Motion passed unanimously.

#### **Public Comment**

- Lance Ericksen, Chevron
- John Haley, Environmental Health and Safety Committee
- 15. **Received** Report on Calendar Year 2019 Engineering and Compliance Activities Receive the report only; no action required or taken.
- 16. **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 **Receive the report only; no action required or taken.**
- 17. **Received** Report on Wineries and Air District Regulations and **Provided** Direction to APCO on Rule 207 Changes

**Motion:** Withdraw currently submitted revision of Rule 207, do another revision, and resubmit to the State per recommendation by the California Air Resources Board. **Action: Approve, Moved by Chris Lopez, Seconded by Honor Spencer.** 

#### Roll Call Vote

Mary Ann Carbone – Absent Zach Friend – Yes Chris Lopez – Yes Steve McShane – Yes Jane Parker – No John Phillips – Yes Honor Spencer – Yes

#### **Public Comment**

Motion carries 5/1

Kim Stemler, Monterey County Vintners Association

#### **CLOSED SESSION**

- 18. The Board **met** in Closed Session pursuant to Government Code section 54950, relating to the following:
  - a. Pursuant to Government Code section 54957.6, the Board will provide direction to negotiators. Designated representatives: Richard Stedman, APCO, Rosa Rosales, District Administrative Services Manager, and Lynn Kievlan, District Admin & Fiscal Specialist Employee Organization: SEIU Local 521.

No reportable action

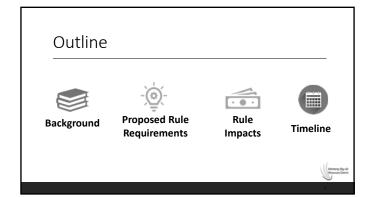
19. Adjournment – The meeting was adjourned by Chair McShane at 3:30 p.m.

Ann O'Rourke Executive Assistant

### Proposed Rule 441 Boilers, Steam Generators, and Process Heaters

SEONG KIM, AIR QUALITY ENGINEER II ADVISORY COMMITTEE DECEMBER 2019





#### Background

- The Health & Safety Code requires an air district that is nonattainment for one
  or more criteria pollutants to adopt an expedited rule development schedule
  that implements Best Available Retrofit Control Technology (BARCT).
- $^{\circ}$  Rule 441 is the first rule to implement the Board approved BARCT schedule.
- •BARCT requirements only apply to industrial sources subject to the State Cap & Trade program as of January 1, 2017.
- ° There are four industrial sources located in Monterey County.
- •Applies to units rated at 2+ MMBTU/hr



#### Outreach

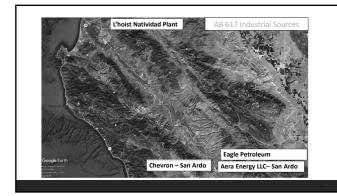
- •Kickoff meeting on May 23, 2019 with affected industry stakeholders.
- •Site visit with affected industry stakeholders on June 12, 2019.
- •Site visit with burner manufacturer on October 29, 2019
- •Advisory committee meeting on December 5, 2019
- •Public Workshop on January 15, 2020.

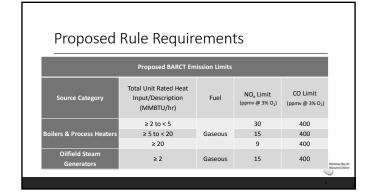


#### Background

- •Approximately 40 units in the District
- Located at four facilities: L'hoist North America of Arizona, Chevron USA Inc., Aera Energy LLC, and Eagle Petroleum, LLC
- •Rule 441 will address controlling oxides of nitrogen (NOx) and carbon monoxide (CO) emissions from boilers, steam generators, and process heaters.







**NOx Emission Reductions** 

Example: Oilfield Steam Generators

•Current Permit Limits: 180 -280 ppm

•Source Test Data: 50 -75 ppm

•Rule 441 Limit: 15 ppm

•Calculated range of emission reductions from 50% -

75% operating capacity.

Monterey Bay A Resources Distri

#### Retrofit Control Technology

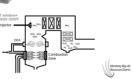
•Ultra Low NOx Burner

Cost-effective



•Ultra Low NOx Burner + Selective Catalytic Reduction

•Not cost-effective



#### Compliance Schedule

•Submit a written plan detailing the method of achieving compliance of emission limits by December 31, 2020.

•Application required by December 31, 2021

•Demonstrate final compliance of emission limits by December 31, 2023



#### **Exemptions to BARCT Limits**

 $\bullet$ Low-use units, < 90,000 therms or 9 billion BTUs per year.

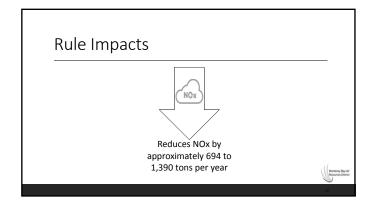
•Units that use < 10% of its maximum heat input capacity while meeting a NOx limit of 30 ppmv and a CO limit of 400 ppmv.

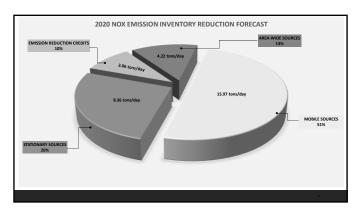
•Units that were non-operational throughout 2019.

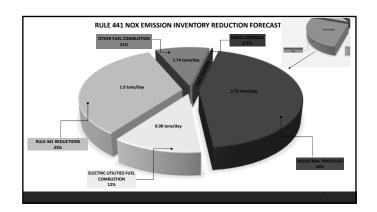
•Operation of units during curtailment conditions, up to 200 hours per year.

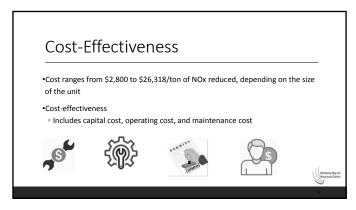
Low-use and non-operational units become subject to BARCT limits if status changes, and must meet Compliance Schedule outlined in rule.

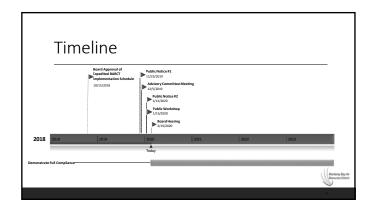














# Calendar Year 2019 Engineering and Compliance Activity Data

AMY CLYMO ENGINEERING AND COMPLIANCE MANAGER FEBRUARY 19, 2020



#### Outline

- •Description of Engineering and Compliance
- Activity Data



#### Engineering

- •Evaluate permit applications for compliance with federal, state, and local rules and regulations
- •Issue permits with operating conditions
- Develop rules and regulations
- •Report annual stationary source emission inventory



#### **Engineering Data**

Activity	Calendar Year 2019
Permit Applications Received	416
Authorities to Construct Issued	171
Startup Inspections	123
Permits to Operate Issued	344
Agricultural Diesel Engine Registrations	4
Title V Permits Issued	2
Emission Reduction Credits Issued	2
	V

#### Permitted Units

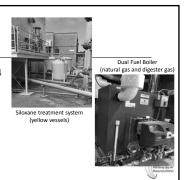
Emergency Engines - 1,124

Retail Gas Stations - 225

Paint Spray Facilities - 302

Boilers - 204

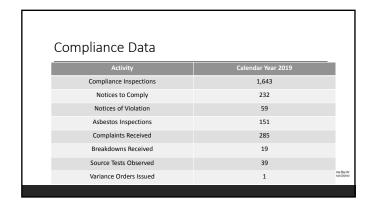
Prime Engines - 150

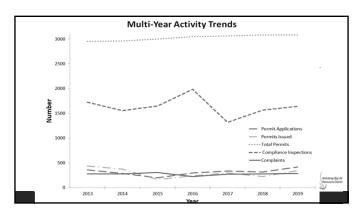


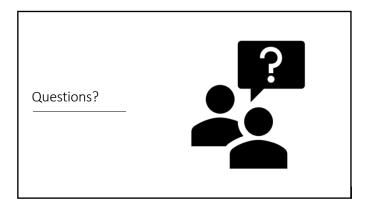
#### Compliance

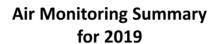
- •Conduct inspections of permitted sources
- •Ensure compliance with permit conditions
- •Take enforcement action for violations
- •Ensure compliance with the federal asbestos regulation
- •Respond to complaints





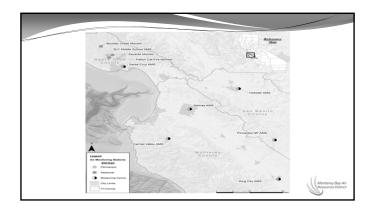


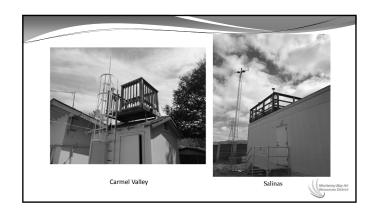


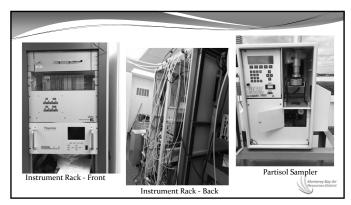


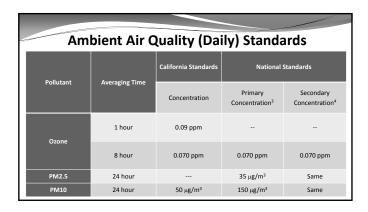


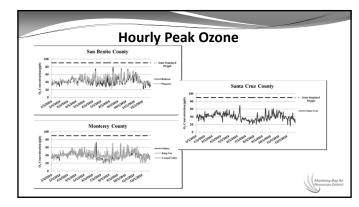
Board Report February 19, 2020

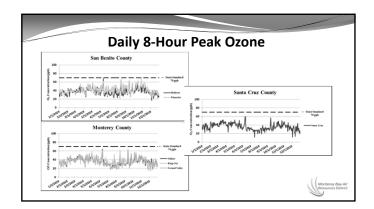


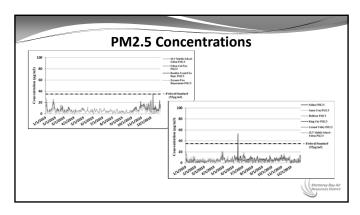


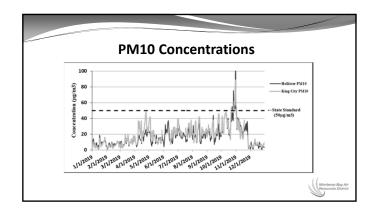


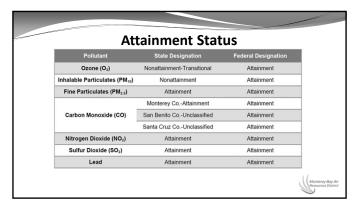














#### WINERY EMISSIONS AND AIR DISTRICT RULE APPLICABILITY



MARY GIRAUDO, ENGINEERING SUPERVISOR BOARD OF DIRECTORS FEBRUARY 19, 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 PM<sub>10</sub> AAQS
- Volatile Organic Compound (VOC) emissions are precursors to ozone and PM<sub>10</sub>



#### 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 PM<sub>10</sub> precursor



Winery		Fermentation VOC Emissions (lbs/day)	Permitted Fermentation Throughput (gallons/year)	Aging & Storage VOC Emissions (lbs/day)	Permitted Aging/Storage Throughput (gallons/year)
Constellation Brands	Gonzales	1,808	30,437,595	326	4,130,000
The Wine Group	Soledad	268	9,500,000	105	2,183,000
Franciscan Vineyards	Soledad	250	4,515957	163	2,065,000
Delicato	Paicines	499	9,734,176	TBD	TBD
Kendall-Jackson	Soledad	236	5,906,952	60	2,655,000
Delicato	King City	234	4,000,000	45	590,000
Scheid Vineyards, Inc.	Greenfield	156	5,439,896	13	177,000
Monterey Wine Co.	King City	176	3,500,000	12	153,000
J. Lohr Winery	Greenfield	95	3,479,600	42	2,997,081
Conundrum Winery	Salinas	< 25	1,010,000	40	527,401
KVL Holdings Inc.	Soledad	< 25	563,000	20	241,900

## 2018 EMISSIONS INVENTORY REPORTING (stationary sources >10 tons per year)

FACILITY NAME	voc	
PACIEITT NAME	(tons/year)	
CONSTELLATION WINES (Gonzales Winery)	85.38	
CHEVRON U.S.A.	45.83	
DYNEGY MOSS LANDING	38.94	
AERA ENERGY, LLC - SAN ARDO FIELD	37.48	
THE WINE GROUP - GSV SOLEDAD WINERY	26.33	
ESTANCIA WINERY	20.88	
JACKSON FAMILY WINES - MONTEREY	15.59	
THRESHOLD ENTERPRISES	13.16	
SCHEID VINEYARDS - WINERY	9.67	
CITY OF SANTA CRUZ WWTP	4.77	
MRWMD	4.61	
MONTEREY ONE WATER (formerly MRWPCA)	3.16	
SANTA CRUZ ENERGY, LLC (SC landfill)	3.01	
CITY OF WATSONVILLE WWTP	1.97	
LHOIST (formerly CHEMICAL LIME)	1.50	
GRANITE ROCK - AROMAS	1.25	
CALPINE KING CITY COGEN	0.84	
AMERESCO SANTA CRUZ ENERGY LLC (Buena Vista)	0.49	
MERESCO SANTA CRUZ ENERGY LLC (Johnson Canyon)	0.12	
WASTE SOLUTIONS GROUP OF SAN BENITO, LLC	0.11	
TOTAL =	315.09	
TOTAL VOCs from Wineries =	157.85	
VOC Percent from Wineries =	50%	

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 Reference **Exemption Threshold Limits** District 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 FEDERAL facility-wide facility-wide findings aggregated emissions aggregated emissions < 10 tons per year (Rule revision in 2006) NA ≥ 25 lbs/day STATE 137 lbs/day individual permit unit < 10 tons per year (Rule revision in 2006)

Equivalency of Tons/Year to Pounds/Day

25 tons x 1 year x 2000 lbs = 137 lbs year 365 days 1 ton day



#### 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.
- $\checkmark$  Consistent with environmental justice guidance.



#### 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 FEDERAL facility-wide facility-wide findings < 10 tons per year aggregated emissions aggregated emissions (Rule revision in 2006) STATE ≥ 25 lbs/day individual permit unit < 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 (lbs/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

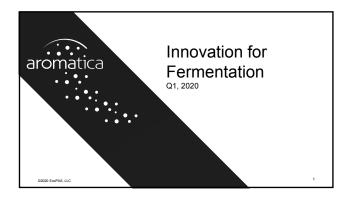
#### Rule Impacts of Increased Offset Threshold to 25 Tons/Year

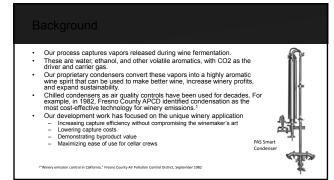
- Rule change would allow 6 wineries to increase the overall VOC emissions by 43.6 tons/year (87,000 lbs/year) before triggering offset requirements.
- Emissions equivalent to a production rate of either 14 million gals/year red wine, or 35 million gals/year white wine.
- Represents a 31% increase in 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.

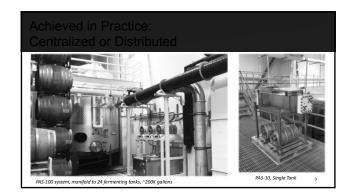


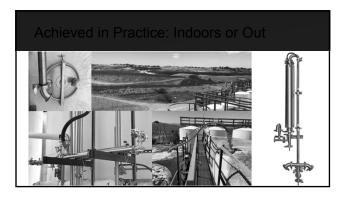
# Questions? Mary Giraudo Supervising Air Quality Engineer mgiraudo@mbard.org

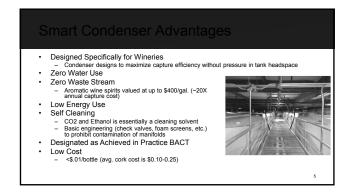
AGENDA ITEM NO. 8 3/11/2020

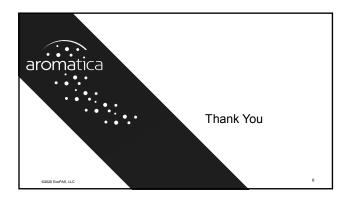




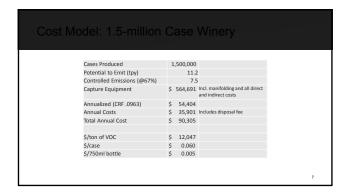








AGENDA PAGE NO. 16



The following are comments extracted from a variety of recent tastings and trials using Aromatica wine spirits:

- "Improved my premium wine. Turned a standard Cab into a brooding Prisoner. Made it even more "flawless" 
  "Much improved mouthleel"
  "Wine nose, aromas, and bouquet improved; took a relatively flatitired wine and gave it new life"
  "Wine nose, aromas, and bouquet improved; took a relatively flatitired wine and gave it new life"
  "Wing less expensive grapes, was able to blend in Aromatica and achieve a higher target style and quality"
  "Improved wine that had vegetative smell and taste"
  "Restored aromatics to a wine damaged by aggressive RO filtration required to fix a VA problem."
  (Note: This Finist hoir subsequently won a Silver Medal at the SF Chronicle competition).
  "This could give our lower ther wines over the top aromatics and a more fruit forward presentation"
  "Possibilities are infinite..."
  "Pretty impactful... in a nice way. Increased black fruit flavor"
  Could see theing used in an older wine to bring bouquet and mouthfeel back up: lifts the wine stylistically"
  "Added tropical fruit and butter"
  "Very impressive..."





