



BOARD OF DIRECTORS
STATIONARY SOURCE AND CLIMATE IMPACTS COMMITTEE

BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMMITTEE MEMBERS

JOHN BAUTERS – CHAIR
RICH CONSTANTINE
DAVID HAUBERT
TYRONE JUE
KAREN MITCHOFF
MARK ROSS

LYNDA HOPKINS – VICE CHAIR
JOHN GIOIA
DAVINA HURT
NATE MILEY
ROB RENNIE

THIS MEETING WILL BE CONDUCTED UNDER PROCEDURES AUTHORIZED BY ASSEMBLY BILL 361 (RIVAS 2021) ALLOWING REMOTE MEETINGS. THIS MEETING WILL BE ACCESSIBLE VIA WEBCAST, TELECONFERENCE, AND ZOOM, AS WELL AS IN PERSON. A ZOOM PANELIST LINK WILL BE SENT SEPARATELY TO COMMITTEE OR BOARD MEMBERS

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STATIONARY SOURCE AND CLIMATE IMPACTS COMMITTEE MEETING AGENDA

MONDAY, APRIL 18, 2022

9:00 AM

1. **Call to Order - Roll Call**
2. **Pledge of Allegiance**
3. **Public Meeting Procedure**

The Committee Chair shall call the meeting to order and the Clerk of the Boards shall take roll of the Committee members.

This meeting will be webcast. To see the webcast, please visit www.baaqmd.gov/bodagendas at the time of the meeting. Closed captioning may contain errors and omissions and are not certified for their content or form.

***Public Comment on Agenda Items:** The public may comment on each item on the agenda as the item is taken up. Members of the public who wish to speak on matters on the agenda for the meeting, will have two minutes each to address the Committee. No speaker who has already spoken on that item will be entitled to speak to that item again.*

CONSENT CALENDAR (Item 4)

4. Approval of the Minutes of March 21, 2022

The Committee will consider approving the draft minutes of the Stationary Source and Climate Impacts Committee meeting of March 21, 2022.

PRESENTATION(S) (Items 5 - 6)

5. Building Appliance Rules Update – Regulation 9, Rules 4 and 6

This is an informational item only and will be presented by Jennifer Elwell, Senior Air Quality Engineer.

6. South Bay Odor Attribution Study

This is an informational item only and will be presented by Ranyee Chiang, Director of Meteorology and Measurement.

OTHER BUSINESS

7. Public Comment on Non-Agenda Matters

Pursuant to Government Code Section 54954.3

Members of the public who wish to speak on matters not on the agenda for the meeting, will have two minutes each to address the Committee.

8. Committee Member Comments

Any member of the Committee, or its staff, on his or her own initiative or in response to questions posed by the public, may: ask a question for clarification, make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter or take action to direct staff to place a matter of business on a future agenda. (Gov't Code § 54954.2)

9. Time and Place of Next Meeting

Monday, May 16, 2022, at 9:00 a.m., in person or via webcast, teleconference, or Zoom, pursuant to procedures in accordance with Assembly Bill 361 (Rivas 2021).

10. Adjournment

The Committee meeting shall be adjourned by the Chair.

CONTACT:

MANAGER, EXECUTIVE OPERATIONS
375 BEALE STREET, SAN FRANCISCO, CA 94105
vjohnson@baaqmd.gov

(415) 749-4941
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BAAQMD homepage:
www.baaqmd.gov

- Any writing relating to an open session item on this Agenda that is distributed to all, or a majority of all, members of the body to which this Agenda relates shall be made available at the Air District's offices at 375 Beale Street, Suite 600, San Francisco, CA 94105, at the time such writing is made available to all, or a majority of all, members of that body.

Accessibility and Non-Discrimination Policy

The Bay Area Air Quality Management District (Air District) does not discriminate on the basis of race, national origin, ethnic group identification, ancestry, religion, age, sex, sexual orientation, gender identity, gender expression, color, genetic information, medical condition, or mental or physical disability, or any other attribute or belief protected by law.

It is the Air District's policy to provide fair and equal access to the benefits of a program or activity administered by Air District. The Air District will not tolerate discrimination against any person(s) seeking to participate in, or receive the benefits of, any program or activity offered or conducted by the Air District. Members of the public who believe they or others were unlawfully denied full and equal access to an Air District program or activity may file a discrimination complaint under this policy. This non-discrimination policy also applies to other people or entities affiliated with Air District, including contractors or grantees that the Air District utilizes to provide benefits and services to members of the public.

Auxiliary aids and services including, for example, qualified interpreters and/or listening devices, to individuals who are deaf or hard of hearing, and to other individuals as necessary to ensure effective communication or an equal opportunity to participate fully in the benefits, activities, programs and services will be provided by the Air District in a timely manner and in such a way as to protect the privacy and independence of the individual. Please contact the Non-Discrimination Coordinator identified below at least three days in advance of a meeting so that arrangements can be made accordingly.

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Questions regarding this Policy should be directed to the Air District's Non-Discrimination Coordinator, Suma Peesapati, at (415) 749-4967 or by email at speesapati@baaqmd.gov.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

375 BEALE STREET, SAN FRANCISCO, CA 94105

FOR QUESTIONS PLEASE CALL (415) 749-4941

EXECUTIVE OFFICE:

MONTHLY CALENDAR OF AIR DISTRICT MEETINGS

APRIL 2022

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Stationary Source and Climate Impacts Committee	Monday	18	9:00 a.m.	Webcast only pursuant to Assembly Bill 361
Board of Directors Meeting	Wednesday	20	9:00 a.m.	1 st Floor, Board Room (In person option available) and REMOTE pursuant to Assembly Bill 361
Board of Directors Administration Committee	Wednesday	20	12:00 p.m.	Webcast only pursuant to Assembly Bill 361
Path to Clean Air Community Emissions Reduction Plan Steering Committee	Monday	25	5:30 p.m.	Webcast only pursuant to Assembly Bill 361
Board of Directors Budget and Finance Committee	Wednesday	27	9:30 a.m.	Webcast only pursuant to Assembly Bill 361
Board of Directors Mobile Source and Climate Impacts Committee	Thursday	28	9:30 a.m.	Webcast only pursuant to Assembly Bill 361

MAY 2022

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Special Meeting Budget Hearing	Wednesday	4	8:30 a.m.	1 st Floor, Board Room (In person option available) <u>and REMOTE</u> pursuant to Assembly Bill 361
Board of Directors Meeting	Wednesday	4	9:00 a.m.	1 st Floor, Board Room (In person option available) <u>and REMOTE</u> pursuant to Assembly Bill 361
Board of Directors Community Equity, Health and Justice Committee	Thursday	5	9:30 a.m.	Webcast only pursuant to Assembly Bill 361
Board of Directors Legislative Committee	Monday	9	1:00 p.m.	Webcast only pursuant to Assembly Bill 361
Technology Implementation Office (TIO) Steering Committee	Friday	13	1:00 p.m.	Webcast only pursuant to Assembly Bill 361
Board of Directors Stationary Source and Climate Impacts Committee	Monday	16	9:00 a.m.	Webcast only pursuant to Assembly Bill 361
Path to Clean Air Community Emissions Reduction Plan Steering Committee	Monday	16	5:30 p.m.	Webcast only pursuant to Assembly Bill 361
Board of Directors Meeting	Wednesday	18	9:00 a.m.	1 st Floor, Board Room (In person option available) <u>and REMOTE</u> pursuant to Assembly Bill 361
Board of Directors Administration Committee	Wednesday	18	11:00 a.m.	Webcast only pursuant to Assembly Bill 361
Board of Directors Budget and Finance Committee	Wednesday	25	9:30 a.m.	Webcast only pursuant to Assembly Bill 361
Board of Directors Mobile Source and Climate Impacts Committee	Thursday	26	9:30 a.m.	Webcast only pursuant to Assembly Bill 361

MV 4/13/2022 – 6:29 P.M.

G/Board/Executive Office/Moncal

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson John Bauters and Members
of the Stationary Source and Climate Impacts Committee

From: Alexander Crockett
Interim Acting Executive Officer/APCO

Date: April 18, 2022

Re: Approval of the Minutes of March 21, 2022

RECOMMENDED ACTION

Approve the attached draft minutes of the Stationary Source and Climate Impacts Committee meeting of March 21, 2022.

BACKGROUND

None.

DISCUSSION

Attached for your review and approval are the draft minutes of the Stationary Source and Climate Impacts Committee meeting of March 21, 2022.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Alexander Crockett
Interim Acting Executive Officer/APCO

Prepared by: Marcy Hiratzka
Reviewed by: Vanessa Johnson

ATTACHMENTS:

1. Draft Minutes of the Stationary Source and Climate Impacts Committee meeting of March 21, 2022

Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, California 94105
(415) 749-5073

DRAFT MINUTES

Stationary Source and Climate Impacts Committee Meeting
Monday, March 21, 2022

**This meeting was conducted under procedures in accordance with Assembly Bill 361.
Members of the Committee participated by teleconference.**

1. CALL TO ORDER – ROLL CALL

Stationary Source and Climate Impacts Committee (Committee) Chairperson John Bauters called the meeting to order at 9:01 a.m.

Present: Committee Chairperson John Bauters; Committee Vice Chairperson Lynda Hopkins; and Directors Rich Constantine, John Gioia, David Haubert, Davina Hurt, Tyrone Jue, Nate Miley, Karen Mitchoff, Rob Rennie, and Mark Ross.

Absent: None.

2. PLEDGE OF ALLEGIANCE

3. PUBLIC MEETING PROCEDURE

4. APPROVAL OF THE MINUTES OF FEBRUARY 28, 2022

Public Comments

No requests received.

Committee Comments

None.

Committee Action

Director Constantine made a motion, seconded by Director Hurt, to **approve** the Minutes of February 28, 2022; and the motion carried by the following vote of the Committee:

AYES: Bauters, Constantine, Gioia, Hopkins, Hurt, Jue, Miley, Mitchoff, Ross.
NOES: None.
ABSTAIN: None.
ABSENT: Haubert, Rennie.

5. BAY AREA ALTERNATIVE FUELS PROJECTS – BACKGROUND AND UPDATE

NOTED PRESENT: Director Haubert was noted present at 9:05 a.m., and Director Rennie was noted present at 9:10 a.m.

Danny Nip, Senior Air Quality Engineer, gave the staff presentation *Bay Area Alternative Fuels Projects*, including: outcome; outline; requested action; locations of alternative fuels projects; origins of petroleum and alternative feedstocks; renewable diesel versus biodiesel; petroleum refining process; alternative fuels process; alternative fuels projects; refinery rules; estimated emissions reduction; and estimated timeline.

Public Comments

Public comments were given by Dave Rhody; Jed Holtzman, San Francisco resident; Gary Hughes, Biofuelwatch; Dr. Stephen Rosenblum, Palo Alto resident; Helena; and Charles Davidson, Sunflower Alliance.

Committee Comments

The Committee and staff discussed the request that an explanation of the difference between blue and green hydrogen be presented to the Board; which agency/entity names alternative “renewable” fuels; the position that the production of “renewable” fuels is no more sustainable than the production of petroleum fuels and actually impacts existing resources, and the request that Air District staff presents its position on the lifecycle of impacts of greenhouse gasses (GHG) regarding fuel feedstock production; the position that the use of alternative fuels is a viable interim strategy, due to their reduction in carbon intensity; the desire to see jet fuels converted to more sustainable fuels; the anticipated timelines of the California and federal Environmental Protection Agencies regarding the reduction of GHG emissions from vehicle fuel and transitioning to carbon neutrality; the request for information regarding the integrity of alternative feedstocks (primary versus secondary uses); whether the alternative fuel projects in Rodeo and Martinez need to be approved by the Contra Costa County Planning Commission, subsequently, whether the Air District will be submitting a comment letter; how the production of alternative fuel in the Bay Area may affect the Air District’s “Diesel Free By ‘33” campaign; and the request that the Air District encourages the California Air Resources Board to analyze the lifecycle of the carbon intensity of fuels and how this impacts air districts’ ability to regulate emissions from stationary sources.

Committee Action

None; receive and file.

6. MAJOR STATIONARY SOURCE COMMUNITY AIR MONITORING (SCHEDULE X FEES)

Damian Breen, Senior Deputy Executive Officer of Operations, introduced Ila Perkins, Air Monitoring Operations Manager, who gave the staff presentation *Major Stationary Source Community Air Monitoring (Schedule X)*, including: outcome; outline; requested action; background; Schedule X cost estimates; phased approach for site development; considerations for

candidate sites; current status – Benicia (Valero); developing stations – community engagement; and current status of Chevron, Marathon, PBF Energy, Inc., and Phillips 66;

Public Comments

Public comments were given by Jan Warren, Interfaith Climate Action Network of Contra Costa County; Jed Holtzman, San Francisco resident; and Charles Davidson, Sunflower Alliance.

Committee Comments

The Committee and staff discussed concerns about the lack of Air District staff members available for developing monitoring stations and analyzing collected data; the resources necessary for the Air District to accelerate its proposed timeline of developing monitoring stations in Bay Area refinery communities; and whether the Air District can contract out any of the data analyses backlog.

Committee Action

None; receive and file.

7. PUBLIC COMMENT ON NON-AGENDA MATTERS

No requests received.

8. COMMITTEE MEMBER COMMENTS

None.

9. TIME AND PLACE OF NEXT MEETING

Monday, April 18, 2022 at 9:00 a.m., in person or via webcast, teleconference, or Zoom, pursuant to procedures in accordance with Assembly Bill 361 (Rivas 2021).

10. ADJOURNMENT

The meeting adjourned at 10:52 am.

Marcy Hiratzka
Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
 Memorandum

To: Chairperson John Bauters and Members
 of the Stationary Source and Climate Impacts Committee

From: Alexander Crockett
 Interim Acting Executive Officer/APCO

Date: April 18, 2022

Re: Building Appliance Rules Update – Regulation 9, Rules 4 and 6

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

Air District staff has published draft amendments to Regulation 9, Rule 4: Nitrogen Oxides from Fan Type Residential Central Furnaces (“Rule 9-4”) and Regulation 9, Rule 6: Nitrogen Oxides Emissions from Natural Gas-Fired Boilers and Water Heaters (“Rule 9-6”). The draft amendments would impact natural gas-fired space and water heating appliances. These include furnaces and water heaters used in single family homes, multifamily residences such as apartment buildings, and commercial spaces such as retail and office buildings. The Air District regulates these sources on a point-of-sale basis, requiring that equipment manufactured after the compliance date and installed within the geographical jurisdiction of the Air District meets the standards contained in the Rules. These sources generate a substantial portion of nitrogen oxides (NOx) emissions from sources in the Bay Area, and nitrogen oxides are a precursor to ozone and secondary particulate matter (PM) formation.

The draft amendments include the introduction of a zero-NOx emissions standard for natural gas-fired furnaces and water heaters as shown below.

January 1, 2027	Rule 9-6	Water heaters and boilers below 75,000 BTU/hr
January 1, 2029	Rules 9-4	All commercial and residential furnaces
January 1, 2031	Rule 9-6	Water heaters and boilers between 75,000 and 2 million BTU/hr

Draft amendments to Rules 9-4 and 9-6 were published on September 30, 2021, which began a public comment period that closed on November 1, 2021.

DISCUSSION

Following additional technical review and stakeholder engagement, staff is recommending that an Environmental Impact Report be completed in order to fully evaluate any potential impacts of the draft amendments. Staff will present an updated timeline for anticipated adoption of the draft amendments as well as discuss the formation and constitution of the stakeholder Implementation Working Group.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Alexander Crockett
Interim Acting Executive Officer/APCO

Prepared by: Jennifer Elwell
Reviewed by: Victor Douglas / Elizabeth Yura

ATTACHMENTS:

None

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson John Bauters and Members
of the Stationary Source and Climate Impacts Committee

From: Alexander Crockett
Interim Acting Executive Officer/APCO

Date: April 18, 2022

Re: South Bay Odor Attribution Study

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

Communities in and around Milpitas near a cluster of waste handling facilities have experienced air quality and odor issues for many years. These facilities include the Newby Island Resource Recovery Park landfill and associated composting facility, operated by Republic Services (NIRRP); the San Jose-Santa Clara Regional Wastewater Facility, operated by the City of San Jose (RWF); and a dry anaerobic food waste digestion facility, operated by ZeroWaste Energy Development Company (ZWED). There have been improvements to air quality in Milpitas due to Air District actions with assistance from the community. However, odors continue to be a concern. Odors have been difficult to attribute to a single facility or process because the different facilities produce many of the same odor causing compounds.

In 2016, there were approximately 2900 odor complaints and since that time, odor complaints have continued on a downward trend with a total of 250 complaints received through 2020. In 2021, however, there was an increase with a total of 690 complaints received. Cal Recycle and the Air District continue to be committed to conducting joint odor investigations to address the complex odor situation in this South Bay.

The South Bay Odor Stakeholder Group (SBOSG) was formed in 2015 to provide a transparent forum to address odors that affect the Milpitas community and discuss enforcement activities, permit and regulatory requirements, and odor mitigation and control measures. Quarterly meetings are attended by community and industry stakeholders; Air District staff; and staff representing the Cities of Fremont, Milpitas and San Jose; staff representing Assemblymember Alex Lee, Congressman Ro Khanna and Senator Bob Wieckowski. The SBOSG has identified the need for an independent odor study to better understand the contribution of different odor sources on the Milpitas community.

In 2019, the Air District committed to conduct an Odor Attribution Study to identify compounds from odor-producing facilities that are impacting Milpitas and nearby communities. The Air District released a Request for Proposal (RFP 2019-004 Odor Study) to identify contractors with the expertise to measure sources of odors from the landfill, transfer station, sewage treatment plant, compost and organic waste processing operations in Milpitas. In November 2019, the Board of Directors authorized the Executive Officer/APCO to execute a contract for up to \$500,000 for Jacobs Engineering Group, Inc (Jacobs). The Air District also executed a contract in 2019 for \$92,000 with Montrose Environmental Group. In October 2020, The Board also authorized an amendment to the Jacobs Engineering Group, Inc. contract for up to \$506,000.

DISCUSSION

The goal of the Odor Attribution Study is to determine the contribution and variability of odors from these facilities, specific processes, and to measure how often and at what concentration these odors may be passing into the local community to inform future actions to reduce odors. The two awarded projects were designed to be complementary, and summaries of the projects are described in Table 1.

Table 1

Montrose Environmental Group	Deploy advanced real time and integrated air measurement and sampling technologies on a mobile laboratory platform, during a targeted sampling event, to identify odor causing compounds and facility chemical markers in the part per billion and part per trillion range, providing data and information to focus the efforts of other study components.
Jacobs Engineering Group	Characterize diurnal and seasonal odors by conducting focused field sampling and data collection at representative times over a minimum of three seasons; develop odor fingerprints; perform data analysis for compound identification; conduct odor dispersion modeling; perform electronic nose evaluations; develop ongoing fence-line measurement methods; prepare progress and final reports and participate in public meetings.

Summary of Sampling Events and Methodology

Sampling consisted of four events in October 2020, March 2021, May 2021, and August/September 2021. Jacobs participated in all sampling events and coordinated a joint testing effort with Montrose during the third. The events were a mix of more comprehensive screenings as well as more focused screenings to validate earlier findings or investigate specific questions.

Jacobs took samples from several facility processes using methods appropriate for the source type (e.g. area source, point sources, interior spaces, and surface area sources), including flux chamber sampling, bag sampling, sorbent media sampling, handheld sensors, laboratory analysis, the Odor Profile Method (OPM), and Proton Transfer Reaction-Mass Spectrometry (PTR-MS).

The Odor Profile Method is used to identify the type and intensity of different odors. Odors are divided into five different categories: sulfur-based compounds which are characterized as smelling like rotten eggs or vegetables, aldehydes which are sweet, carboxylic acids which come off as rancid, volatile organic compounds (VOCs) which have varying odor characteristics, and amines which are characterized as fishy.

PTR-MS is used on a mobile platform to measure low-level concentrations of VOCs in real-time.

Summary of Results

The result from the Jacobs study showed that potent odors could be specifically attributed to each of the three facilities, including in the ZWED interior space; in lagoons, turbulent streams, and collection channels at the RWF; and in NIRRP landfill gas and the landfill working face. The study also investigated additional processes that were possible sources of the odors, which were determined to be relatively smaller issues. Biofilter odors at ZWED were minimal, though a minor amount of H₂S was detected at the outlet of the carbon filter. RWF bioreactors were generally not an issue except when blowers turned on for aeration. The NIRRP biolayer sufficiently suppressed most odors in the compost pile, though aldehydes were high.

The three facilities had unique odor characteristics that were identified in the Jacobs study results. ZWED interior space odors were primarily characterized as sulfur, rancid, and sweet with morning and evening spikes. RWF mainly exhibited sulfur odors with methyl mercaptans being relatively high for the primaries and bioreactor mixing zones. NIRRP had a wide variety of odor types. Through PTR-MS analyses, Montrose measured a large swath of odor causing compounds and was able to develop relatively unique quantitative odor signatures for each facility.

After Montrose unexpectedly detected strong plume odors by the Don Edwards San Francisco Bay National Wildlife Refuge, Jacobs did further sampling there. Jacobs's observations confirmed odors were coming from that source, which could be distinguished from odors from the facilities.

During community monitoring, odors were mainly found at Marilyn Drive, Milmont Drive, and Renaissance Road. Odors directly downstream of the facilities were strong and character was similar to the upstream facilities' process odors.

Recommended actions

Jacobs has recommended multiple actions that facilities can take to monitor and reduce odors. These facility actions include establishing improved monitoring, taking specific steps to reduce leaks and improve the carbon filter systems, and minimizing certain operations when wind is heading towards the community.

These actions could be implemented voluntarily by the facility, the Air District can consider requesting abatement orders to compel a higher level of monitoring and control, and/or the Air District can consider regulation changes. Additional controls cannot be imposed through permitting unless a facility requests modification of a source. Though it would take more time, updates to regulations would also impact other similar facilities that produce odors throughout the Bay Area, including in overburdened communities. The Air District will share the results of these studies with other agencies, including relevant Local Enforcement Agencies, to promote cooperation to improve composting operations.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Alexander Crockett
Interim Acting Executive Officer/APCO

Prepared by: Jerry Bovee
Reviewed by: Ranyee Chiang

ATTACHMENTS:

None