



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

BOARD OF DIRECTORS REGULAR MEETING

MAY 18, 2016

A regular meeting of the Bay Area Air Quality Management District Board of Directors will be held at 9:45 a.m. in the 7th Floor Board Room at the Air District Headquarters, 939 Ellis Street, San Francisco, California 94109.

Questions About an Agenda Item

The name, telephone number and e-mail of the appropriate staff Person to contact for additional information or to resolve concerns is listed for each agenda item.

Meeting Procedures

The public meeting of the Air District Board of Directors begins at 9:45 a.m. The Board of Directors generally will consider items in the order listed on the agenda. However, any item may be considered in any order.

After action on any agenda item not requiring a public hearing, the Board may reconsider or amend the item at any time during the meeting.

This meeting will be webcast. To see the webcast, please visit <http://www.baaqmd.gov/The-Air-District/Board-of-Directors/Agendas-and-Minutes.aspx> at the time of the meeting.

Public Comment Procedures

Persons wishing to make public comment must fill out a Public Comment Card indicating their name and the number of the agenda item on which they wish to speak, or that they intend to address the Board on matters not on the Agenda for the meeting.

Public Comment on Non-Agenda Matters, Pursuant to Government Code Section 54954.3 For the first round of public comment on non-agenda matters at the beginning of the agenda, ten persons selected by a drawing by the Clerk of the Boards from among the Public Comment Cards indicating they wish to speak on matters not on the agenda for the meeting will have three minutes each to address the Board on matters not on the agenda. For this first round of public comments on non-agenda matters, all Public Comment Cards must be submitted in person to the Clerk of the Boards at the location of the meeting and prior to commencement of the meeting. The remainder of the speakers wishing to address the Board on non-agenda matters will be heard at the end of the agenda, and each will be allowed three minutes to address the Board at that time.

Members of the Board may engage only in very brief dialogue regarding non-agenda matters, and may refer issues raised to District staff for handling. In addition, the Chairperson may refer issues raised to appropriate Board Committees to be placed on a future agenda for discussion.

Public Comment on Agenda Items After the initial public comment on non-agenda matters, the public may comment on each item on the agenda as the item is taken up. Public Comment Cards for items on the agenda must be submitted in person to the Clerk of the Boards at the location of the meeting and prior to the Board taking up the particular item. Where an item was moved from the Consent Calendar to an Action item, no speaker who has already spoken on that item will be entitled to speak to that item again.

Up to ten (10) speakers may speak for three minutes on each item on the Agenda. If there are more than ten persons interested in speaking on an item on the agenda, the Chairperson or other Board Member presiding at the meeting may limit the public comment for all speakers to fewer than three minutes per speaker, or make other rules to ensure that all speakers have an equal opportunity to be heard. Speakers are permitted to yield their time to one other speaker; however no one speaker shall have more than six minutes. The Chairperson or other Board Member presiding at the meeting may, with the consent of persons representing both sides of an issue, allocate a block of time (not to exceed six minutes) to each side to present their issue.

BOARD OF DIRECTORS REGULAR MEETING AGENDA

WEDNESDAY
MAY 18, 2016
IMMEDIATELY FOLLOWING
9:45 A.M. BOARD OF DIRECTORS
SPECIAL MEETING - BUDGET HEARING

BOARD ROOM
7th FLOOR

CALL TO ORDER

Chairperson, Eric Mar

1. **Opening Comments**
Roll Call
Pledge of Allegiance

The Chair shall call the meeting to order and make opening comments. The Clerk of the Boards shall take roll of the Board members. The Chair shall lead the Pledge of Allegiance.

PUBLIC COMMENT ON NON-AGENDA MATTERS

2. **Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3**

For the first round of public comment on non-agenda matters at the beginning of the agenda, ten persons selected by a drawing by the Clerk of the Boards from among the Public Comment Cards indicating they wish to speak on matters not on the agenda for the meeting will have three minutes each to address the Board on matters not on the agenda. For this first round of public comments on non-agenda matters, all Public Comment Cards must be submitted in person to the Clerk of the Board at the location of the meeting and prior to commencement of the meeting.

COMMENDATIONS/PROCLAMATIONS/AWARDS

3. *The Board of Directors will recognize Barry Wallerstein, former South Coast Air Quality Management District Executive Officer, for his service, leadership and dedication to protecting air quality.*

CONSENT CALENDAR (ITEMS 4 – 14)

Staff/Phone (415) 749-

4. Minutes of the Board of Directors Regular Meeting of April 20, 2016

Clerk of the Boards/5073

The Board of Directors will consider approving the draft minutes of the Board of Directors Regular Meeting of April 20, 2016.

5. Board Communications Received from April 20, 2016 through May 17, 2016
J. Broadbent/5052
jbroadbent@baaqmd.gov

A copy of communications directed to the Board of Directors received by the Air District from April 20, 2016 through May 17, 2016, if any, will be at each Board Member's place.

6. Notices of Violations Issued and Settlements in Excess of \$10,000 in the month of April 2016
J. Broadbent/5052
jbroadbent@baaqmd.gov

In accordance with Resolution No. 2012-08, the Board of Directors will receive a list of all Notices of Violation issued, and all settlements for amounts in excess of \$10,000 during the month of April 2016.

7. Air District Personnel on Out-of-State Business Travel
J. Broadbent/5052
jbroadbent@baaqmd.gov

In accordance with Section 5.4 (b) of the Air District's Administrative Code, Fiscal Policies and Procedures Section, the Board is hereby notified that the attached memorandum lists Air District personnel who have traveled on out-of-state business in the preceding month.

8. Quarterly Report of the Executive Office and Division Activities for the Months of January 2016 – March 2016
J. Broadbent/5052
jbroadbent@baaqmd.gov

A summary of Board of Directors, Hearing Board and Advisory Council meeting activities for the fourth quarter is provided for information only. Also included is a summary of the Executive Office and Division Activities for the months of January 2016 – March 2016.

9. Authorize the Executive Officer/APCO to Enter into a Contract with Hogue Inc., for Additional Furniture and Ergonomic Equipment in an Amount not to Exceed \$200,000
J. Broadbent/5052
jbroadbent@baaqmd.gov

The Board of Directors will consider authorizing the Executive Officer/APCO to enter into a contract with Hogue Inc., for ongoing and additional furniture and ergonomic equipment (e.g., keyboard trays, sit/stand desks, shelving, file cabinets etc.) in an amount not to exceed \$200,000.

10. Consider Authorization of a Purchase Order in Excess of \$70,000 Pursuant to Administrative Code Division II Fiscal Policies and Procedures, Section 4.3 Contract Limitations for Purchase of Greenhouse Gas (GHG) Measurement Equipment
J. Broadbent/5052
jbroadbent@baaqmd.gov

The Board of Directors will consider authorizing the Executive Officer/APCO to execute a purchase order to Picarro, Inc. in the amount of \$80,619.95 for GHG measurement equipment.

11. Transfer \$500,000 from the Building Proceeds Reserve to Retrofit Backup Generator at 375 Beale Street

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Board of Directors will consider transferring \$500,000 from the building proceeds reserve to the fiscal year ending (FYE) 2016 budget; and authorizing the Executive Officer/APCO to enter into all necessary agreements and contracts to retrofit the backup generator for the new regional agency headquarters building at 375 Beale Street.

12. Extension of Contracts for My Air Online Development Services

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Board of Directors will consider authorizing the Executive Officer/APCO to execute contract amendments to extend five (5) contracts for the development of the online permitting system in an amount not to exceed \$993,325.

13. Extension of Contracts for Website Development and Maintenance

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Board of Directors will consider authorizing the Executive Officer/APCO to execute contract amendments to extend three (3) contracts for the website development and maintenance in an amount not to exceed \$353,847.

14. Consider Authorization to Issue a Purchase Order and Execute Contract in Excess of \$70,000 Pursuant to Administrative Code Division II Fiscal Policies and Procedures Section 4.3 Contract Limitations

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Board of Directors will consider authorizing the Executive Officer/APCO to issue a purchase order and execute a contract for the Residential Wood Burning Status Phone Number (1-877-4NO-BURN), Wood Smoke Complaint System, Online Wood Smoke Awareness Course, Customer Service and Data System in an amount not to exceed \$90,000.

COMMITTEE REPORTS

15. Report of the **Advisory Council** Meeting of April 25, 2016

BOARD LIAISON: R. Sinks

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Council received the following reports:

A) **Presentation on Crude Slate at Local Refineries**

1) None; receive and file.

B) **Perspectives on Efficacy of Greenhouse Gas Caps for Local Refineries**

1) None; receive and file.

C) **Presentations on Low Carbon Fuel Standard**

1) None; receive and file.

D) **Council Deliberation**

1) *None; receive and file.*

16. Report of the **Budget and Finance Committee** Meeting of April 27, 2016

CHAIR: D. Hudson

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Committee received the following reports:

A) **Continued Discussion of Fiscal Year Ending (FYE) 2017 Proposed Air District Budget and Consideration to Recommend Adoption**

1) *Adopt the FYE 2017 Proposed Budget; and*

2) *Establish a funding policy for CalPERS Retirement Pension Plan.*

B) **Third Quarter Financial Report – Fiscal Year Ending (FYE) 2016**

1) *None; receive and file.*

17. Report of the **Public Engagement Committee** Meeting of May 2, 2016

CHAIR: M. Ross

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Committee received the following reports:

A) **2016 Spare the Air Campaign**

1) *None; receive and file.*

B) **Renewal of Contract for Spare the Air Advertising and Messaging Campaigns**

1) *The Committee will consider recommending Board of Directors authorization for the Executive Officer/APCO to amend existing contract with O'Rorke, Inc. for the Fiscal Year Ending 2017 Spare the Air Campaigns' Advertising, Communications & Evaluation Services in an amount not to exceed \$1,950,000.*

C) **Overview of Climate Forward Bay Area Leadership Forum**

1) *None; receive and file.*

18. Report of the **Mobile Source Committee** Meeting of May 5, 2016

CHAIR: S. Haggerty

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Committee received the following reports:

A) **Projects and Contracts with Proposed Grant Awards Over \$100,000**

1) *Approve Carl Moyer Program (CMP) and Transportation Fund for Clean Air (TFCA) projects with proposed grant awards over \$100,000 as shown in Attachment 1; and*

- 2) *Authorize the Executive Officer/APCO to enter into agreements for the recommended projects; and*
- 3) *Adopt a resolution that authorizes the Executive Officer/APCO to accept, obligate, and expend Congestion Mitigation and Air Quality Improvement (“CMAQ”) grant funding for electric vehicle signage and education.*

B) Vehicle Buy Back Contractor Selection

- 1) *Approve Environmental Engineering Studies, Inc. (EES) and Pick-N-Pull Auto Dismantlers (Pick-N-Pull) as the vehicle retirement contractors and Direct Mail Center as the direct mail service contractor for the fiscal year ending (FYE) 2017 Vehicle Buy Back Program (VBB).*
- 2) *Authorize the Executive Officer/APCO to execute contracts for:*
 - a. *Vehicle scrapping and related services with EES and Pick-N-Pull, for a combined amount up to \$7 million; and*
 - b. *Direct mail services for the VBB Program with Direct Mail Center for up to \$129,698.*
- 3) *Authorize the Executive Officer/APCO to extend these services for an additional three years, at the Air District’s discretion, based on contractor performance.*

C) Fiscal Year Ending (FYE) 2017 Transportation Fund for Clean Air (TFCA) County Program Manager (CPM) Expenditure Plans and Proposed Amendments to Two FYE 2017 CPM Policies (Ridesharing and Shuttle/Feeder Bus Services)

- 1) *Approve the allocation of new FYE 2017 TFCA CPM Funds listed in Table 1;*
- 2) *Authorize the Executive Officer/APCO to enter into funding agreements with the CPMs for the total funds to be programmed in FYE 2017, listed in Table 1; and*
- 3) *Approve the proposed changes to the cost-effectiveness limits set in two FYE 2017 TFCA CPM Fund Policies (Ridesharing and Shuttle/Feeder Bus Services).*

19. Report of the **Executive Committee** Meeting of May 16, 2016
CHAIR: E. Mar

J. Broadbent/5052
jbroadbent@baaqmd.gov

The Committee received the following reports:

A) Hearing Board Quarterly Report: January – March 2016

- 1) *None; receive and file.*

B) Bay Area Regional Collaborative (BARC) Update

- 1) *None; receive and file.*

C) **Consider and Discuss Proposed Amendments to the Air District's Administrative Code, Division II: Fiscal Policies and Procedures, Section 4.3: Contract Limitations**

1) *None; receive and file.*

D) **Update on My Air Online Permitting and Compliance System Progress**

1) *None; receive and file.*

E) **2016 Planning and Rulemaking Calendar**

1) *None; receive and file.*

PUBLIC HEARING

20. Public Hearing to Consider Adoption of Proposed Revisions to the Bay Area Air Quality Management District Manual of Procedures

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Board of Directors will consider adoption of the proposed additions to the Manual of Procedures.

PRESENTATION

21. Planning Healthy Places

J. Broadbent/5052

jbroadbent@baaqmd.gov

Staff will brief the Board of Directors on a recently completed guidance document, Planning Healthy Places, which is intended to assist cities and counties in promoting infill development by outlining strategies to minimize potential local air pollution exposures.

CLOSED SESSION

22. **CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION**

Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Section 54956.9: one potential case.

OPEN SESSION

PUBLIC COMMENT ON NON-AGENDA MATTERS

23. **Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3**

Speakers who did not have the opportunity to address the Board in the first round of comments on non-agenda matters will be allowed three minutes each to address the Board on non-agenda matters.

BOARD MEMBERS' COMMENTS

24. *Any member of the Board, 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)*

OTHER BUSINESS

25. Report of the Executive Officer/APCO

26. Chairperson's Report

27. Time and Place of Next Meeting:

Wednesday, June 15, 2016, 1st Floor Board Room, 375 Beale Street, San Francisco, California 94105 at 9:45 a.m.

28. Adjournment

The Board meeting shall be adjourned by the Board Chair.

CONTACT:

MANAGER, EXECUTIVE OPERATIONS
939 ELLIS STREET, SAN FRANCISCO, CA 94109
mmartinez@baaqmd.gov

(415) 749-5016
FAX: (415) 928-8560
BAAQMD homepage:
www.baaqmd.gov

- To submit written comments on an agenda item in advance of the meeting. Please note that all correspondence must be addressed to the “Members of the Board of Directors” and received at least 24 hours prior, excluding weekends and holidays, in order to be presented at that Board meeting. Any correspondence received after that time will be presented to the Board at the following meeting.
- To request, in advance of the meeting, to be placed on the list to testify on an agenda item.
- Persons with disabilities and individuals who are limited-English proficient who wish to address Board matters. For accommodations or translations assistance, please call 415-749-5016 at least three days in advance of a meeting, so that arrangements can be made accordingly.

Accesibilidad y Título VI: El Distrito del Aire ofrece servicios y realiza las adaptaciones necesarias para las personas con discapacidades y para las personas con un dominio limitado del inglés siempre que estos servicios se soliciten y se deseen tratar asuntos relacionados con la Junta. Si necesita ayuda con algún tipo de adaptación o traducción, llame al 415-749-5016 como mínimo tres días antes de la reunión de manera que puedan realizarse las adaptaciones necesarias.

Magagamit na Tulong at Título VI: Nagbibigay ang Air District ng mga serbisyo at mga akomodasyon, kapag hiniling, sa mga taong may kapansanan at mga taong limitado ang kakayahan sa Ingles na gustong magpahayag tungkol sa mga usapin sa harap ng Lupon. Para sa mga tulong sa akomodasyon o sa pagsasalin, mangyaring tumawag sa 415-749-5016 nang tatlong araw man lamang na una pa sa miting, para makapaghanda ayon sa pangangailangan.

可及度及標題VI: 空氣管理局根據申請為殘障人士和英語熟練程度有限但卻希望參與董事會事宜的人員提供服務和住宿。關於住宿或者翻譯幫助，請至少在會議之前三天致電 415-749-5016，以便作出相應安排。

Tạo Khả Năng Truy Cập và Chương VI: Đặc Khu cung cấp dịch vụ và phương tiện đáp ứng, khi có yêu cầu, cho những người bị khuyết tật và cho những cá nhân không thông thạo Anh ngữ muốn được tham gia các vấn đề của Hội Đồng. Để được phương tiện đáp ứng hoặc trợ giúp phiên dịch, xin gọi số 415-749-5016 ít nhất ba ngày trước khi có hội thảo, để tiện bố trí các phương tiện

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 District’s offices at 939 Ellis Street, San Francisco, CA 94109, at the time such writing is made available to all, or a majority of all, members of that body.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109
FOR QUESTIONS PLEASE CALL (415) 749-5016 or (415) 749-4941

EXECUTIVE OFFICE:
MONTHLY CALENDAR OF AIR DISTRICT MEETINGS

MAY 2016

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Executive Committee <i>(Meets on the 3rd Monday of each Month)</i>	Monday	16	9:30 a.m.	Board Room
Board of Directors Stationary Source Committee <i>(Meets on the 3rd Monday of each Month)</i> - CANCELLED & RESCHEDULED TO WEDNESDAY, JUNE 1, 2016 AT 9:30 A.M.	Monday	16	10:30 a.m.	Board Room
Board of Directors Ad Hoc Building Oversight Committee <i>(At the Call of the Chair)</i> -CANCELLED	Wednesday	18	9:30 a.m.	Board Room
Special Board of Directors Meeting - Budget Hearing <i>(At the Call of the Chair)</i>	Wednesday	18	9:45 a.m.	Board Room
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i>	Wednesday	18	9:45 a.m.	Board Room
Board of Directors Climate Protection Committee <i>(Meets on the 3rd Thursday of every other month)</i> - CANCELLED	Thursday	19	9:30 a.m.	Board Room
Board of Directors Budget & Finance Committee <i>(Meets on the 4th Wednesday of each Month)</i> - CANCELLED	Wednesday	25	9:30 a.m.	Board Room
Board of Directors Mobile Source Committee <i>(Meets on the 4th Thursday of each Month)</i> - CANCELLED	Thursday	26	9:30 a.m.	Board Room

JUNE 2016

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i> - CANCELLED	Wednesday	1	9:45 a.m.	Board Room
Board of Directors Stationary Source Committee <i>(Meets on the 3rd Monday of each Month)</i>	Wednesday	1	9:30 a.m.	Board Room
PLEASE NOTE: MEETINGS BEGINNING JUNE 15, 2016 WILL TAKE PLACE AT 375 BEALE STREET, SAN FRANCISCO, CA 94105				
Board of Directors Special Meeting as the Sole Member of The Bay Area Clean Air Foundation	Wednesday	15	9:45 a.m.	1 st Floor Boardroom
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i>	Wednesday	15	9:45 a.m.	1 st Floor Board Room
Board of Directors Executive Committee <i>(Meets on the 3rd Monday of each Month)</i> - CANCELLED	Monday	20	9:30 a.m.	1 st Floor Board Room
Board of Directors Stationary Source Committee <i>(Meets on the 3rd Monday of each Month)</i> - CANCELLED	Monday	20	10:30 a.m.	1 st Floor Board Room
Board of Directors Budget & Finance Committee <i>(Meets on the 4th Wednesday of each Month)</i> - CANCELLED	Wednesday	22	9:30 a.m.	1 st Floor Board Room
Board of Directors Mobile Source Committee <i>(Meets on the 4th Thursday of each Month)</i> - CANCELLED	Thursday	23	9:30 a.m.	1 st Floor Board Room

JULY 2016

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i>	Wednesday	6	9:45 a.m.	1 st Floor Board Room
Board of Directors Executive Committee <i>(Meets on the 3rd Monday of each Month)</i>	Monday	18	9:30 a.m.	1 st Floor Board Room
Advisory Council Meeting <i>(Meets at the Call of the Chair)</i>	Monday	18	10:00 a.m.	1 st Floor Board Room
Board of Directors Stationary Source Committee <i>(Meets on the 3rd Monday of each Month)</i>	Monday	18	10:30 a.m.	1 st Floor Board Room
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i>	Wednesday	20	9:45 a.m.	1 st Floor Board Room
Board of Directors Climate Protection Committee <i>(Meets on the 3rd Thursday of every other Month)</i>	Thursday	21	9:30 a.m.	1 st Floor Board Room
Board of Directors Budget & Finance Committee <i>(Meets on the 4th Wednesday of each Month)</i>	Wednesday	27	9:30 a.m.	1 st Floor Board Room
Board of Directors Mobile Source Committee <i>(Meets on the 4th Thursday of each Month)</i>	Thursday	28	9:30 a.m.	1 st Floor Board Room

VJ – 5/9/16 (1:45 p.m.)

G/Board/Executive Office/Moncal

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 3, 2016

Re: Minutes of the Board of Directors Regular Meeting of April 20, 2016

RECOMMENDED ACTION

Approve the attached draft minutes of the Board of Directors Regular Meeting of April 20, 2016.

DISCUSSION

Attached for your review and approval are the draft minutes of the Board of Directors Regular Meeting of April 20, 2016.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Marci Hiratzka
Reviewed by: Maricela Martinez

Attachment: Draft Minutes of the Board of Directors Regular Meeting of April 20, 2016

Draft Minutes - Board of Directors Regular Meeting of April 20, 2016

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
(415) 749-5073

Board of Directors Regular Meeting
Wednesday, April 20, 2016

DRAFT MINUTES

*Note: Audio recordings of the meeting are available on the website of the
Bay Area Air Quality Management District at
<http://www.baaqmd.gov/about-the-air-district/board-of-directors/resolutionsagendasminutes>*

CALL TO ORDER:

- 1. Opening Comments:** Chairperson Eric Mar called the meeting to order at 10:01 a.m. He introduced a new member to the Board of Directors (Board), Rebecca Kaplan, Councilmember At-Large in the City of Oakland.

Roll Call:

Present: Chairperson Eric Mar; Vice-Chairperson Liz Kniss; Secretary David Hudson; and Directors John Avalos, Teresa Barrett, Tom Bates, Cindy Chavez, Osby Davis, John Gioia, Carole Groom, Scott Haggerty, Rebecca Kaplan, Nate Miley, Karen Mitchoff, Deborah Raphael, Katie Rice, Mark Ross, Rod Sinks, Warren Slocum, Jim Sperring, Brad Wagenknecht, and Shirlee Zane.

Absent: Directors David J. Canepa and Jan Pepper.

Pledge of Allegiance: Chairperson Mar led the Pledge of Allegiance.

PUBLIC COMMENT ON NON-AGENDA MATTERS

- 2. Public Comment On Non-Agenda Matters, Pursuant to Government Code Section 54954.3 (Round 1 of 2)**

Greg Karras, Communities for a Better Environment, addressed the Board to request that it direct staff to bring Rule 12-16 to the Board for consideration by May 2016.

Sara Greenwald, 350 Bay Area, addressed the Board regarding her concern that refinery permits continue to be issued in the absence of regulations, and urged the Board to make decisions on new refinery rules rather than grandfathering in permits for these facilities now.

Berkeley resident, L.A. Wood, addressed the Board regarding the Air District's permitting process and Pacific Steel Casting for nearly twenty-five years of operation in Berkeley. Chairperson Mar and Director Bates asked staff to prepare an update on the status of the PSE permit.

El Sobrante resident, Steven Ingraham, addressed the Board regarding his concerns about neurotoxic impacts from manganese and nickel emitted by Pacific Steele Casting in Berkeley.

Roger Lin, Communities for a Better Environment, distributed a draft resolution proposing emission limit ‘caps’ on refinery-wide climate and particulate air pollution via Rule 12-16, and urged the Board to agendaize the proposed resolution for discussion at the May 18, 2016, Board meeting, with consideration for adoption of the rule in August 2016. Chairperson Mar asked staff to speak to this issue. Jack Broadbent, District Executive Officer and Air Pollution Control Officer, outlined the three rules that the Board adopted in 2015 to cut emissions at refineries, Rule 12-15 that would be considered on that day by the Board, and the rule options that will be brought before the Stationary Source Committee on June 1, 2016, for Rule 12-16.

Iren Suhami, Valero, distributed a chart capturing Valero’s (Benicia refinery’s) greenhouse gas (GHG) emissions history, outlining the various reasons why GHG emissions may increase at refineries. Ms. Suhami urged the Board to consider the context of GHG emission increases, rather than looking at those increases in a vacuum, as the District moves forward with future GHG emission discussions.

COMMENDATIONS/PROCLAMATIONS/AWARDS

3. Chairperson Mar announced that the Board of Directors had planned to recognize Barry Wallerstein, former South Coast Air Quality Management District Executive Officer, for his service, but that this presentation was rescheduled for May 18.

NOTED PRESENT: Director Miley noted present at 10:20 a.m.

CONSENT CALENDAR (ITEMS 4 – 11)

Item 8 (Authorization to Extend Current Contract for the Trinity Technology Group to Develop a Wood Stove and Fireplace Replacement Incentive Program) was pulled from the Consent Calendar by District staff for discussion; Item 10 (Authorization for a 5-year Computer Hardware Maintenance Contract) was pulled from the Consent Calendar by District staff to be deferred.

4. **Authorization to Extend Current Contract for the Trinity Technology Group to Develop a Wood Stove and Fireplace Replacement Incentive Program (OUT OF ORDER, AGENDA ITEM 8)**

Jack Broadbent, Executive Officer/Air Pollution Control Officer (APCO), provided the background for staff presentation, *Wood Stove and Fireplace Replacement Incentive Program*. Damian Breen, Deputy Air Pollution Control Officer, continued the presentation, including program status; proposed program implementation and schedule; and recommendation.

Board Comments:

The Board and staff discussed the funding source for the proposed contract; Districts staff’s innovative solution to maintain the program’s original timeline; the potential repurposing of the proposed software for other in-house programs; the platform on which the proposed software will be launched; and keeping this program on schedule.

Public Comments:

No requests received.

Board Action:

Director Ross made a motion, seconded by Director Rice, to authorize the Executive Officer/APCO to execute contract amendments with Trinity Technology Group in an amount not to exceed \$200,000, to develop software for the Wood Stove and Fireplace Incentive Program, and the motion **carried** by the following vote of the Board:

AYES: Avalos, Barrett, Bates, Chavez, Davis, Gioia, Groom, Haggerty, Hudson, Kaplan, Kniss, Mar, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Spering, Wagenknecht, and Zane.
NOES: None.
ABSTAIN: None.
ABSENT: Canepa and Pepper.

5. **Minutes of the Board of Directors Regular Meeting of March 16, 2016 (AGENDA ITEM 4)**
6. **Board Communications Received from March 16, 2016 through April 19, 2016 (AGENDA ITEM 5)**
7. **Notices of Violations Issued and Settlements in Excess of \$10,000 in the month of March 2016 (AGENDA ITEM 6)**
8. **Air District Personnel on Out-of-State Business Travel (AGENDA ITEM 7)**
9. **Authorization to Extend Current Temporary Computer Support Services Contract**
- ~~10. **Authorization for a 5-year Computer Hardware Maintenance Contract**~~
11. **Execution of Purchase Orders in Excess of \$70,000 Pursuant to Administrative Code Division II Fiscal Policies and Procedures Section 4.3 Contract Limitations**

Board Comments:

None.

Public Comments:

No requests received.

Board Action:

Director Ross made a motion, seconded by Director Zane, to approve the modified Consent Calendar Items 4 through 7, 9, and 11; and the motion **carried** by the following vote of the Board:

AYES: Avalos, Barrett, Bates, Chavez, Davis, Gioia, Groom, Haggerty, Hudson, Kaplan, Kniss, Mar, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Spering, Wagenknecht, and Zane.
NOES: None.

ABSTAIN: None.
ABSENT: Canepa and Pepper.

COMMITTEE REPORTS

12. Report of the Climate Protection Committee (CPC) Meeting of March 17, 2016

CPC Vice Chairperson Avalos read:

The Climate Protection Committee met on Thursday, March 17, 2016, and approved the minutes of November 19, 2015.

The Committee received and discussed the staff presentation *Center for Climate Protection's ECO2school Program*, including regional greenhouse gas inventories; carbon savings achieved by bike riding; power of collective action; peer to peer education; solutions; innovation; the green teen presentation; reach and results; and student leaders.

The Committee then received and discussed the staff presentation *10-Point Climate Action Work Program Implementation*, including program history; greenhouse gas goals, inventory and forecast; greenhouse gas emissions monitoring; support for local action; rule development; expanded enforcement; climate change and public health; the Bay Area's energy future; and next steps.

Lastly, the Committee received and discussed the staff presentation *Regional Climate Protection Strategy Update*, including background; frameworks for Climate Action Plans and the Regional Climate Protection Strategy; strategy outreach; tools and objectives; the transportation, stationary sources, energy, building, waste and water, agricultural and natural/working lands sectors; short-lived climate pollutants; strategy open houses; and next steps.

The next meeting of the Committee is on Thursday, July 21, 2016.

This concludes the Chair report of the Climate Protection Committee.

Board Comments:

Board Vice Chair Kniss reported that the City of Palo Alto's adoption of a goal of an eighty percent GHG reduction by 2030.

Director Chavez acknowledged the Committee and staff for considering climate issues relating to water, agriculture, and transportation.

Board Action:

Director Chavez made a motion, seconded by Board Vice Chair Kniss, to approve the recommendations of the CPC; and the motion **carried** by the following vote of the Board:

AYES: Avalos, Barrett, Bates, Chavez, Davis, Gioia, Groom, Haggerty, Hudson, Kaplan, Kniss, Mar, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Sperring, Wagenknecht, and Zane.
NOES: None.
ABSTAIN: None.
ABSENT: Canepa and Pepper.

13. Report of the Legislative Committee (LC) Meeting of March 21, 2016

LC Chairperson Wagenknecht read:

The Legislative Committee met on Thursday, March 24, 2016, and postponed the approval of the minutes of March 30, 2015 and October 26, 2015 for lack of quorum.

The Committee discussed the consideration of new bills and a consensus of the members present supported the following positions for the Air District:

AB 1685 (Gomez): Support
AB 2292 (Gordon): Support in concept
ACR 112 (Hadley): Support
SB 1239 (Gaines): Oppose
SB 1383 (Lara): Support if amended
SB 1441 (Leno): Support
AB 1657 (O'Donnell): Support in concept
AB 2055 (Gibson): Support in concept
AB 2841 (Allen): Support in concept
SB 1338 (Lara): Support in concept

The next meeting of the Committee is at the Call of the Chair.

This concludes the Chair's report of the Legislative Committee.

Board Comments:

Director Mitchoff noted that the date of "March 24, 2016" on the LC Chair Report was incorrect. The correct date was March 21, 2016.

Board Action:

Director Rice made a motion, seconded by Board Vice Chair Kniss, to approve the recommendations of the LC; and the motion **carried** by the following vote of the Board:

AYES: Avalos, Barrett, Bates, Chavez, Davis, Gioia, Groom, Haggerty, Hudson, Kaplan, Kniss, Mar, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Sperring, Wagenknecht, and Zane.
NOES: None.
ABSTAIN: None.
ABSENT: Canepa and Pepper.

14. Report of the Budget and Finance Committee (BFC) Meeting of March 23, 2016

BFC Chairperson Hudson read:

The Committee met on Wednesday, March 23, 2016, and approved the minutes of January 27, 2016.

The Committee reviewed and discussed the staff presentation, *Proposed Fiscal Year End 2017 Budget*, including projections for current Fiscal Year Ending 2016; district reserve funds - excluding building proceeds; approved reserve transfers Fiscal Year Ending 2016; proposed budget for Fiscal Year Ending 2017; general fund revenue sources and expenditures; services, supplies, and capital; Fiscal Year Ending 2017 proposed fees; Fiscal Year Ending 2017 full-time employee staffing levels; additional staffing; Fiscal Year Ending 2017 balance summary; Fiscal Year Ending 2017 use of fund balance; retirement medical other post-employment benefits (OPEB) liability; office building obligations; and summary budget for Fiscal Year Ending 2017.

The Committee also reviewed and discussed the staff presentation *Proposed Amendments to Regulation 3, Fees*, including revenue sources for Fiscal Year Ending 2015; cost recovery policy; trends in cost recovery and cost containment; proposed changes to fee schedules; petroleum refining emissions tracking fees; Schedule W costs and fees; major facility community air monitoring fees; Schedule X costs and fees; impacts on large facilities: petroleum refineries and power plants; impacts on small businesses; workshop public comments, and rule development schedule.

The next meeting of the Committee is on Wednesday, April 27, 2016, at 9:30 a.m.

This concludes the Chair report of the Budget & Finance Committee.

Board Comments:

None.

Board Action:

Board Vice Chairperson Kniss made a motion, seconded by Board Chairperson Mar, to approve the recommendations of the BFC; and the motion **carried** by the following vote of the Board:

AYES: Avalos, Barrett, Bates, Chavez, Davis, Gioia, Groom, Haggerty, Hudson, Kaplan, Kniss, Mar, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Spering, Wagenknecht, and Zane.
NOES: None.
ABSTAIN: None.
ABSENT: Canepa and Pepper.

15. Report of the Public Engagement Committee (PEC) Meeting of March 24, 2016

PEC Chairperson Ross read:

The Public Engagement Committee met on Thursday, March 24, 2016, and approved the minutes of October 26, 2015.

The Committee received and discussed the staff presentation *Update on 2016 Youth for Environment and Sustainability Conference*, including the event agenda, outreach methods, a video of the event, and outcomes.

The Committee then received and discussed the staff presentation *James Cary Smith Community Grant Program Update*, including an overview; program awardees; a discussion of the Air District partnerships with the community; a breakdown of funded projects; and opportunities going forward.

Lastly, the Committee received and discussed the staff presentation *Public Engagement for the 2016 Clean Air Plan/Regional Climate Protection Strategy*, including engagement overview; community open houses; informational posters; online civic engagement; Open Air Forum; and the Clean Air/Regional Climate Protection Strategy working group.

The next meeting of the Committee is on Monday, May 2, 2016.

This concludes the Chair report of the Public Engagement Committee.

Board Comments:

None.

Board Action:

Committee Chairperson Ross made a motion, seconded by Director Mitchoff, to approve the recommendations of the PEC; and the motion **carried** by the following vote of the Board:

AYES: Avalos, Barrett, Bates, Chavez, Davis, Gioia, Groom, Haggerty, Hudson, Kaplan, Kniss, Mar, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Spering, Wagenknecht, and Zane.

NOES: None.

ABSTAIN: None.

ABSENT: Canepa and Pepper.

16. Report of the Personnel Committee (PC) Meeting of April 11, 2016

PC Chairperson Rice read:

The Committee met on Monday, April 11, 2016, and approved the minutes of June 11, 2015.

The Committee reviewed and discussed five candidates to fill four vacancies on the Air District's Hearing Board: A Principal and Alternate in both the Medical and Professional Engineer categories. The Committee and staff discussed the recruitment process and then interviewed each candidate. The Committee recommends the Board approve:

1. The reappointment of Hearing Board incumbent, Peter Chiu, M.D., P.E., as Medical category Principal; and
2. The appointment of Hearing Board candidate, Jason Meggs, as Medical category Alternate; and
3. The reappointment of Hearing Board incumbent, Gilbert Bendix, P.E., as Professional Engineer category Principal; and
4. The appointment of Hearing Board candidate, Ryan Janoch, P.E., as Professional Engineer category alternative.

The next meeting of the Committee is at the Call of the Chair.

I move that the Board approve the Personnel Committee recommendations.

Board Comments:

None.

Board Action:

Committee Chairperson Rice made a motion, seconded by Director Wagenknecht, to approve the recommendations of the PC; and the motion **carried** by the following vote of the Board:

AYES: Avalos, Barrett, Bates, Chavez, Davis, Gioia, Groom, Haggerty, Hudson, Kaplan, Kniss, Mar, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Spering, Wagenknecht, and Zane.
NOES: None.
ABSTAIN: None.
ABSENT: Canepa and Pepper.

17. Report of the Stationary Source Committee (SSC) Meeting of April 18, 2016

SSC Chairperson Gioia read:

The Committee met on Monday, April 18, 2016, and approved the minutes of February 25, 2016.

The Committee received and discussed staff presentation *Upcoming changes to Regulation 9, Rule 13: Cement Kilns*, including its background and purpose; comparison of Air District and U.S. Environmental Protection Agency (EPA) standards; results of rule adoption; continuing issues of concern; technical issues with the ammonia standard; the proposed two-phased regulatory solution; and next steps.

The Committee then received and discussed staff presentation *Air Quality Impacts of California's Organic Waste Diversion Requirements*, including background; solid waste facilities overview; California's organic waste diversion priorities; solid waste industry overview; air emissions; the Air District's role in solid waste regulation; and summary.

The Committee finally received and discussed staff presentation *Permit Application Public Participation Enhancements*, including Improving public participation in the permit application process; the web-based permit application table; the policy implementation roadmap; and next steps.

The next meeting of the Committee is on Monday, June 1, 2016, at 9:30 a.m.

This concludes the Chair report of the Stationary Source Committee.

Board Comments:

The Board and staff discussed the California Air Resources Board's (ARB) GHG emissions inventory as it related to Mr. Suhami's public comment that was relayed during Item 2 (Public Comment on Non-Agenda Matters.)

Board Action:

Committee Chairperson Gioia made a motion, seconded by Board Secretary Hudson, to approve the recommendations of the SSC; and the motion **carried** by the following vote of the Board:

AYES: Avalos, Barrett, Bates, Chavez, Davis, Gioia, Groom, Haggerty, Hudson, Kaplan, Kniss, Mar, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Spering, Wagenknecht, and Zane.
NOES: None.
ABSTAIN: None.
ABSENT: Canepa and Pepper.

18. Report of the Ad Hoc Building Oversight Committee Meeting of April 20, 2016

AHBOC Chairperson Mar read:

The Committee met on Wednesday, April 20, 2016, and approved the minutes of February 17, 2016.

The Committee received and discussed staff presentation *Bay Area Metro Center (375 Beale Street) Project Status Report – April, 2016*, including construction and furniture updates; shared services/service level agreements; and next steps.

The Committee then received and discussed staff presentation *Move-in schedule for 375 Beale Street*, including move date; move requirements; and next steps.

The Committee finally received and discussed staff presentation *Decommissioning Activities at 939 Ellis Street*, including an overview of decommissioning activities to date; results of a Request for Proposals for asset liquidation and other options; and the hybrid approach currently proposed. The Committee recommends that the Board approve:

1. Authorize the Executive Officer/APCO to enter into contract with Bluewater Environmental Services, Inc. not to exceed \$88,940.00 for the disposal and recycle of equipment at 939 Ellis Street; and
2. Transfer \$88,940.00 from the designated building reserve to the Fiscal Year Ending 2016 budget.

The next meeting of the Committee is at the Call of the Committee Chair.

I move that the Board approve the Ad Hoc Building Oversight Committee recommendations.

Board Comments:

Mr. Broadbent added that the Air District's move-in schedule to 375 Beale Street is based upon Bay Area Headquarters Authority's receipt of Certificate of Occupancy on April 18, 2016.

Chair Mar thanked Air District staff for overseeing moving arrangements and updating the Board with the moving schedule.

Board Action:

Committee Chairperson Mar made a motion, seconded by Director Groom, to approve the recommendations of the AHBOC; and the motion **carried** by the following vote of the Board:

- AYES: Avalos, Barrett, Bates, Chavez, Davis, Gioia, Groom, Haggerty, Hudson, Kaplan, Kniss, Mar, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Spering, Wagenknecht, and Zane.
- NOES: None.
- ABSTAIN: None.
- ABSENT: Canepa and Pepper.

PUBLIC HEARINGS

19. Public Hearing to Receive Testimony on Proposed Amendments to Air District Regulation 3: Fees

Mr. Broadbent introduced Jaime Williams, Information Technology Officer and Director of Engineering, who announced that this is the first of two hearings on this topic, and that the Board will consider adoption of the amendments to this Regulation on June 15, 2016. Mr. Williams gave the staff presentation *Proposed Amendments to Regulation 3:Fees*, including revenue sources- Fiscal Year End (FYE) 2015; trends in cost recovery and cost containment; proposed changes to fee schedules; petroleum refining emissions tracking fees (Schedule W);

major facility community air monitoring fees; other proposed amendments; impact on large facilities (petroleum refineries) and small businesses; and rule development schedule.

Board Comments:

The Board and staff discussed the definition of ‘cost recovery’ as it relates to this presentation; personnel costs contributing to fee revenue falling short of overall full cost recovery; reserve funds and county tax revenue that fill the cost recovery gap; the difference in the percentage of fees from refineries and fees from small businesses; 2017 percentage permit fee increase projections with and without Schedule X; bringing community air monitoring in-house; and the maximum cap proposed for fees for abatement devices.

Public Comments:

Mah Buell, Tesoro, addressed the Board regarding fee increases for refineries, even though they are reducing emissions. Mr. Buell also expressed concern that even though Air District data shows that, impacted Community Air Risk Evaluation neighborhoods are not located outside of refineries and communities that they are not in need of community air monitoring.

Berman Obaldia, Western States Petroleum Association, addressed the Board regarding his concerns with proposed fee increases for Schedule W.

Board Comments Continued:

The Board and staff discussed the number of facilities that will be impacted by changing fee schedules; efforts to reach the goal of increasing cost recovery to 85% over four years between FYE 2013-2016; types of facilities from other industries that Schedule X applies to; and the standardization of refinery monitoring that will be brought about by locating new community air monitor stations in Richmond, Concord, Martinez, and Benicia with the full suite of instrumentation and monitoring capabilities that are offered at existing air monitor stations.

Chairperson Mar announced that, due to the large number of public comments for Item 20, Item 21 would precede Item 20.

20. Public Hearing to Consider Adoption of Proposed Regulation 9, Rule 14: Petroleum Coke Calcining Operations; and Approval of a California Environmental Quality Act (CEQA) Initial Study/Negative Declaration. (OUT OF ORDER, AGENDA ITEM 21)

Mr. Broadbent introduced Greg Nudd, Rule Development Manager, who gave the staff presentation *Proposed Regulation 9, Rule 14: Petroleum Coke Calcining Operations*, including overview; petroleum coke calcining process; Rule 9-14 major provisions; SO₂ emissions; costs, cost effectiveness, socioeconomic, and environmental impacts; rule development process; conclusions; and recommendations.

Public Comments:

Charles Davidson, Sunflower Alliance, addressed the Board, advocating for more control of the carbon plant (up to 80%). Mr. Davidson also noted the potential for the generation of acid

rain and the high GHG signature of the plant, due to the energy needed to convert green coke to calcined coke.

Greg Karras, Communities for a Better Environment, addressed the Board, requesting that the Board adopt this rule with a revised emissions reduction goal of 80%.

Board Comments:

The Board and staff discussed the capital costs, standard discount rate, and recovery period used to estimate net profits after tax on an annual basis; the percentage of profit of exported unburned petroleum coke on the green coke market versus the calcined coke market; profit estimation based on general rate of profits for similar industries; the Carbon Plant's SO₂ emission limit for both kilns combined as stated in the original Rule 9-14; balancing the emission reduction goal with the District's socioeconomic cost benefit analysis of the facility; and whether or not the facility's production will be affected by the instillation of the proposed equipment.

Board Action:

Director Chavez made a motion, seconded by Director Spring, to approve the CEQA Initial Study/Negative Declaration and adopt the proposed new Regulation 9, Rule 14; and the motion **carried** by the following vote of the Board:

AYES: Avalos, Barrett, Bates, Chavez, Davis, Gioia, Groom, Haggerty, Hudson, Kaplan, Kniss, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Spring, Wagenknecht, and Zane.
NOES: Mar.
ABSTAIN: None.
ABSENT: Canepa and Pepper.

21. Public Hearing to Consider Adoption of Proposed Regulation 12, Rule 15: Petroleum Refining Emissions Tracking; Adoption of Associated Air Monitoring Guidance; and Approval of a California Environmental Quality Act (CEQA) Initial Study/Negative Declaration (AGENDA ITEM 20)

Mr. Broadbent said that this rule has been under development for three years. He reintroduced Mr. Nudd, who gave the staff presentation *Proposed Regulation 12, Rule 15: Petroleum Refining Emissions Tracking*, including: overview; background; purpose; rule provisions, changes, and development process; areas of controversy; costs and socioeconomic impacts; environmental impacts, and recommendations.

Public Comments:

Kyle Kuchta, Tesoro, addressed the Board regarding limited resources for student outreach and other negative impacts that may befall the refinery industry if the proposed regulation is passed.

Greg Karras, Communities for a Better Environment, addressed the Board to state that he believes that polluter self-monitoring is an area of controversy for the rule, but was not listed in the presentation as such. Mr. Karras said that he supports the inclusion of crude monitoring and objects to allowing polluters to monitor themselves.

Tom Lewis, Shell, addressed the Board, urging the Board to adopt Rules 12-15 and 12-16, and ignore the pressure from those who would seek to reduce monitoring and mitigation.

Steven Yang, Chevron, addressed the Board regarding the City of Richmond's Environmental Impact Report (EIR) for Chevron's Modernization project in 2014, which evaluated what would happen to emissions if refineries changed their crude. Mr. Yang emphasized that the adopted EIR, which was not challenged, should be seen as research that abolishes the need for Rule 12-15.

Laurie Mintzer, Chevron, addressed the Board regarding her concern that Rule 12-15 forces refineries to report emissions from cargo carriers that the refineries do not own or operate. Ms. Mintzer said that District staff need to obtain cargo carrier emission data from the cargo carrier owners in order to produce accurate data for future rulemaking.

Ann Notarangelo, Shell, addressed the Board regarding her concern for the way in which crude slate information is gathered. She requested that the Board postpone the vote in order to allow the industry and Air District more time to create a different rule that would better benefit all parties and the community.

Erric Castillo, Shell, addressed the Board regarding the potential for job loss at refineries and small businesses if this rule is passed. Mr. Castillo said that sound science and thorough analysis that considers all implications are needed for rulemaking.

Lori Martinelli, Shell, addressed the Board regarding the health of her Shell colleagues, which she feels is not compromised by working in a refinery. Ms. Martinelli expressed her concern that refinery employees will lose their jobs if this rule is passed.

Dan Sabalesky, Shell, addressed the Board regarding the collection of proprietary crude and feedstock data and associated anti-trust and cost implications. Mr. Sabalesky also said that the Cap and Trade and Low Carbon Fuel Standard programs already incorporate crude oil regulations.

Jaki Feeney, Shell, addressed the Board regarding the impacts that Rule 12-15 may impose upon refineries' abilities to contribute to the education sector and refinery recruitment.

Chris McDowell, Tesoro, addressed the Board, stating that Rule 12-15 will require refineries to submit different data than what is currently required, making the EPA, ARB, and Air District's emission inventories inconsistent and incomparable with each other. Ms. McDowell was referring specifically to the addition of the cargo carrier emissions data that would be required under Rule 12-15.

Chuck Raeder, Chevron, addressed the Board stating that refinery employees' concern for the community's health is sometimes overlooked or diminished. Mr. Raeder reiterated that

refinery workers do take an active interest in the community's well-being along with those who regulate air quality.

Kathy Wheeler, Shell, addressed the Board regarding her concern that the release of the crude information that would be required by Rule 12-15 would significantly impact Shell's operations.

Susan Nelson, Shell, addressed the Board regarding the Board's task to make educated, well-informed decisions when making rules that may impact refineries. Ms. Nelson cautioned the Board against making unrealistic regulations to appease community groups that wish to shut down refinery operations at the cost of employment and livelihood.

Gordon Johnson, Shell, addressed the Board regarding anti-trust issues relating to the exchange of crude information between refineries.

Joe Ketner, Chevron, addressed the Board to oppose Rule 12-15, stating that it may affect job security for refinery employees, and to question financial impacts that may result from Rule 12-15.

Bill Quinn, California Council for Environmental and Economic Balance (CCEEB), addressed the Board regarding CCEEB's belief that crude slate changes do not correlate with emission levels. Mr. Quinn also said that if this rule is adopted, he would like to see improved protection of collected crude slate data. Finally, Mr. Quinn urged the Board to exclude cargo carrier emissions data from Rule 12-15, stating that inclusion of this data would affect conformity of health risk assessments throughout the state.

Steve Ardito, Chevron, urged the Board to consider potential consequences, stating that adopting excessive and unreasonable regulation will result in disruption of Bay Area refineries, which he stated are among the cleanest in the world.

Mah Buell, Tesoro, addressed the Board regarding the claims that formed the basis of Rule 12-15, stating that more time is needed to correct the crude data portion of the regulation. Mr. Buell also said that he has not seen the Air District make as significant an effort to regulate toxics diesel particulate matter in transportation corridors as was made on refineries. Director Gioia clarified that while the ARB has primary mobile source authority, and the Air District has stationary source authority. He also added that the Air District has administered several grant programs to fund light-duty and heavy-duty vehicles and to reduce emissions from diesel engines.

Suejung Shin, Phillips 66, addressed the Board regarding restricting refinery crude inputs, which she said is an inefficient way to protect public health. Ms. Shin acknowledged that the Air District has successfully monitored refineries by setting direct limits on the source of emissions via permits, and said that it is unclear why deviating from this strategy is needed.

Berman Obaldia, Western States Petroleum Association (WSPA), addressed the Board regarding WSPA's concern regarding compliance obligations for Bay Area refineries under Rule 12-15. Mr. Obaldia stated that this rule does not meet legal necessity thresholds, that the District has not demonstrated the need or authority for new regulations, and that the District

has exceeded its authority in requesting competitively sensitive and economically-damaging data without being able to sufficiently protect this information.

Board Comments:

The Board and staff discussed the misinterpretation and clarification of proposed rule provisions; changes to rule provisions that were made based on refineries' requests; the District's past practices and existing procedures regarding the release of proprietary information; the costs associated with proposed Rule 12-15; the proposed display of cargo carrier data as it contributes to facility emission profiles; impacts on refinery jobs as a result of Rule 12-15 adoption; seasonal variations in crude which dictate the frequency of crude slate reporting requirements; the definition of 'proprietary information'; finding a balance between the public's right to information and the District's need for information; and the District's protocol for a response to a breach in the maintenance of confidential information.

Director Davis and Director Spering both stated that before they could make an informed decision on the rule, the remaining questions that they had needed to be answered by staff.

Director Miley asked if it would be possible to vote on the adoption of Rule 12-15, omitting the provision about crude slate information. Brian Bunker, District Counsel, said that such a substantial change in the rule would require a new thirty-day Notice of Hearing period for Rule 12-15.

Mr. Broadbent said that if the Board adopted Rule 12-15, staff would provide it with an update on its implementation six months later.

Board Action:

Substitute Motion: Director Davis made a substitute motion, seconded by Director Mitchoff, to Reschedule the Adoption of Proposed Regulation 12, Rule 15: Petroleum Refining Emissions Tracking; Adoption of Associated Air Monitoring Guidance; and Approval of a California Environmental Quality Act (CEQA) Initial Study/Negative Declaration for the May 18, 2016 Board of Directors meeting; and the motion was defeated by the following vote of the Board:

AYES: Chavez, Davis, Mitchoff, Slocum, Spering,
NOES: Avalos, Barrett, Bates, Gioia, Groom, Hudson, Kaplan, Kniss, Mar, Miley, Raphael, Rice, Ross, Sinks, Wagenknecht, and Zane.
ABSTAIN: None.
ABSENT: Canepa, Hagerty, and Pepper.

Motion: Director Kaplan made a motion with the following friendly amendment, seconded by Director Wagenknecht, to Adopt Proposed Regulation 12, Rule 15: Petroleum Refining Emissions Tracking; Adoption of Associated Air Monitoring Guidance; and Approval of a California Environmental Quality Act (CEQA) Initial Study/Negative Declaration. The friendly amendment from Director Kaplan was to approve staff's recommendation of providing the Board with an update of implementation of Rule 12-15 no later than six months

from April 20, 2016, and to evaluate whether or not modifications would be needed at that time. The amended motion carried by the following vote of the Board:

AYES: Avalos, Barrett, Bates, Chavez, Gioia, Groom, Kaplan, Kniss, Mar, Miley, Mitchoff, Raphael, Rice, Ross, Sinks, Slocum, Wagenknecht, and Zane.
NOES: Davis, Hudson, and Spering,
ABSTAIN: None.
ABSENT: Canepa, Haggerty, and Pepper.

PUBLIC COMMENT ON NON-AGENDA MATTERS

22. Public Comment On Non-Agenda Matters, Pursuant to Government Code Section 54954.3 (Round 1 of 2)

No requests received.

BOARD MEMBERS' COMMENTS

23. Director Avalos acknowledged that rule adoption is difficult and that Board members' opinions vary. He said that he would like comments from the public regarding Rule 12-16 from this meeting to be discussed at the Stationary Source Committee meeting on June 1, 2016. He stated that he would like to see community groups involved in a thorough and dynamic process regarding the future 12-16 rulemaking. Director Avalos said that he hopes that the Board will come to a decision on Rule 12-16 at its June 15, 2016 meeting. Mr. Broadbent responded by stating that at the June 1, 2016 Stationary Source Committee meeting, the Committee will be presented with four options for the development of Rule 12-16.

Director Kaplan thanked the Board for an exciting first meeting and said that she looks forward to future collaboration with her colleagues. She also said that recent climate data shows that the first calendar quarter of 2016 was reported the hottest ever on earth.

Director Bates echoed Board Chairperson Mar's earlier request for a status update for the Board regarding activity of Pacific Steel Casting.

OTHER BUSINESS

24. Report of the Executive Officer/APCO:

Mr. Broadbent thanked the Board for its ruling on Rule 12-15. He said that, despite the recent heat, there have been no violations of the federal or state Ambient Air Quality Standards, and that the "Spare the Air" season will begin soon. Mr. Broadbent also announced that information on the Air and Waste Management Association's 109th Annual Conference will be sent to the Board.

25. Chairperson's Report:

Chair Mar announced that the Board of Directors' meeting that was scheduled for May 4 has been cancelled, and the next Board of Directors' meeting will be held on May 18, 2016.

26. Time and Place of Next Meeting:

Wednesday, May 18, 2016, 939 Ellis Street, San Francisco, California 94109 at 9:45 a.m.

27. Adjournment:

The Board meeting adjourned at 1:17 p.m.

Marcy Hiratzka
Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 16, 2016

Re: Board Communications Received from April 20, 2016 through May 17, 2016

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

Copies of communications directed to the Board of Directors received by the Air District from April 20, 2016, through May 17, 2016, if any, will be at each Board Member's place at the May 18, 2016, Board meeting.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Vanessa Johnson
Reviewed by: Maricela Martinez

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 9, 2016

Re: Notices of Violations Issued and Settlements in Excess of \$10,000 in the Month of
April 2016

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

In accordance with Resolution No. 2012-08, attached to this Memorandum is a listing of all Notices of Violation issued, and all settlements for amounts in excess of \$10,000 during the calendar month prior to this report.

BUDGET CONSIDERATION/FINANCIAL IMPACT

The amounts of civil penalties collected are included in the Air District's general fund budget.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Brian C. Bungler

Attachment 6A: Notices of Violations Issued

NOTICES OF VIOLATION ISSUED

The following Notice(s) of Violations were issued in April 2016:

Alameda						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Quanta Computer USA Inc	E3426	Fremont	A48970A	4/26/16	2-1-301	Wipe Clean Operations at Buildings 1 and 4 conducted without proper District permits.
Quanta Computer USA Inc	E3426	Fremont	A48970B	4/26/16	8-4-313	Using non VOC complying solvent for wipe cleaning at Buildings 1 and 4

Contra Costa						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Chevron Products Company	A0010	Richmond	A54263A	4/12/16	2-6-307	PC #'s 11066 (Part A5) & 1-523.3; RCA Report not submitted
Chevron Products Company	A0010	Richmond	A54263B	4/12/16	1-523.3	PC #'s 11066 (Part A5) & 1-523.3; RCA Report not submitted
Chevron Products Company	A0010	Richmond	A54264A	4/12/16	2-6-307	PC #19063, 40 CFR 60 Subpart J 60.104(a)(1)
Chevron Products Company	A0010	Richmond	A54264B	4/12/16	10	PC #19063, 40 CFR 60 Subpart J 60.104(a)(1)
Chevron Products Company	A0010	Richmond	A54265A	4/12/16	10	40 CFR 60 Subpart J 60.104(a)(1)
Chevron Products Company	A0010	Richmond	A54266A	4/12/16	2-6-307	PC #8869, RCA report not submitted
Chevron Products Company	A0010	Richmond	A54266B	4/12/16	1-523.3	PC #8869, RCA report not submitted

ATTACHMENT – 6A

Chevron Products Company	A0010	Richmond	A54267A	4/21/16	8-10-302.1	Instrument used to monitor vessels not calibrated per EPA Method 21
Chevron Products Company	A0010	Richmond	A54267B	4/21/16	8-10-502	Instrument used to monitor vessels not calibrated per EPA Method 22
Chevron Products Company	A0010	Richmond	A54268A	4/21/16	2-6-307	Episode #06X58, PC 1106, Part 7; 3 TR sets operated below 200 mA limit
Chevron Products Company	A0010	Richmond	A54269A	4/21/16	2-6-307	Episode #06X83, PC 1106, Part 7; 40 CFR 60.104(a)(1) flaring
Chevron Products Company	A0010	Richmond	A54269B	4/21/16	10	Episode #06X83, PC 1106, Part 7; 40 CFR 60.104(a)(1) flaring
Chevron Products Company	A0010	Richmond	A54270A	4/21/16	2-6-307	PC #21232, Part 2; Latre RCA reporting for inop. Mon.; Fires lie w/out CEMs in service
Chevron Products Company	A0010	Richmond	A54270B	4/21/16	9-10-502	PC #21232, Part 2; Latre RCA reporting for inop. Mon.; Fires lie w/out CEMs in service
Chevron Products Company	A0010	Richmond	A54271A	4/21/16	10	DEV #4087, 40 CFR Subpart J 60.104 (a)(1)
Chevron Products Company	A0010	Richmond	A54272A	4/21/16	2-6-307	PC #Standard Condition 1.A, loss of A/C exemption 2-1-123.3.3
Chevron Products Company	A0010	Richmond	A54273A	4/21/16	8-8-312	BWON Components not inspected nor repaired according to Regs
Chevron Products Company	A0010	Richmond	A54273B	4/21/16	8-18-304	BWON Components not inspected nor repaired according to Regs
Equilon Enterprises LLC	B1956	Martinez	A53992A	4/12/16	2-6-307	Late 10 day reporting
Equilon Enterprises LLC	B1956	Martinez	A53992B	4/12/16	8-33-309.12	late reporting of backpressure exceedance

ATTACHMENT – 6A

Equilon Enterprises LLC	B1956	Martinez	A53993A	4/12/16	2-6-307	Late 10 day reporting
Equilon Enterprises LLC	B1956	Martinez	A53993B	4/12/16	8-33-309.12	late reporting of backpressure exceedance
KB Homes	X9406	San Ramon	A26694A	4/4/16	CCR	the 17CCR Sec. 93105e3D4 Inadequate Wetting

San Francisco						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Hilton San Francisco Financial District	E1568	San Francisco	A54392A	4/27/16	11-2-303	Asbestos survey not done prior to commencement of renovation, Not having onsite-Representative during renovation
Hilton San Francisco Financial District	E1568	San Francisco	A54392B	4/27/16	11-2-304	waste was not labeled in leak tight containers, waster not deposited at a proper waste disposal site, waste shipment record was not maintained
Ideal Restoration Inc.	U5715	San Francisco	A54314A	4/13/16	11-2-303.6	No viewpoints installed in containment

San Mateo						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Belmont Terrace	X9480	Belmont	A54315A	4/25/16	11-2-303.6	No viewpoints installed in containment

Santa Clara						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Rebuild Green	V0408	Palo Alto	A54390A	4/18/16	11-2-303.8	Not making Asbestos Survey available upon request
Swift Cleaners	A0886	San Jose	A53607A	4/27/16	8-17-404	No Registration

Sonoma						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Elvira Prado	X9642	Santa Rosa	A53747A	4/8/16	5-301	Open burn. Large pile.

District Wide						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
PacWest Tank Lines	X9162	Sacramento	A54286A	4/7/16	8-33-304	8-33-304.11 CT #206662 failure to maintain gasoline cargo tank equipment
PacWest Tank Lines	X9162	Sacramento	A54287A	4/25/16	8-33-304.1	CT #206662, failure to maintain gasoline cargo tank equipment

SETTLEMENTS FOR \$10,000 OR MORE REACHED

There were 5 settlement(s) for \$10,000 or more completed in April 2016.

- 1) On April 5, 2016, the District reached settlement with Bio-Rad Laboratories, Inc. for \$20,000, regarding the allegations contained in the following 1 Notice of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments from Enforcement
A53871A	7/16/15	4/13/15	2-1-307	Episode #06U34, Breakdown relief denied , PO#09762

- 2) On April 6, 2016, the District reached settlement with Seaport Refining & Environmental LLC for \$10,000, regarding the allegations contained in the following 5 Notices of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments from Enforcement
A53150A	4/3/14	3/20/14	8-39-502	No source test, Non-operable pressure gauge
A53150B	4/3/14	3/20/14	8-39-308	8-39-308.5 No source test, Non-operable pressure gauge
A53151A	4/3/14	3/20/14	8-39-307	8-39-307.2 No CARB certification
A53654A	4/3/14	4/3/14	8-18-402.1	No identification tags/ No inventory
A53654B	4/3/14	4/3/14	8-18-503.2	No identification tags/ No inventory
A53665A	11/19/14	11/19/14	8-18-301	Open ended line leak > 100 ppm
A53666A	11/19/14	11/19/14	8-5-306	8-5-306.2 Leaking emission control system. PVV not gas tight

- 3) On April 8, 2016, the District reached settlement with Nexeo Solutions LLC for \$10,000, regarding the allegations contained in the following 1 Notice of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments from Enforcement
A53411A	12/14/15	10/14/2015	2-1-307	PRV Release- RCA 06W71/06W72

- 4) On April 18, 2016, the District reached settlement with Lehigh Southwest Cement Company for \$35,000, regarding the allegations contained in the following 4 Notices of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments from Enforcement
A52610A	6/13/13	6/11/13	2-6-307	visible emissions greater than 20% opacity

A52616A	8/13/14	9/16/13	9-13-501.2	Non compliance of rule due to breach of enforcement agreement
A52617A	8/13/14	10/31/13	9-13-301.6	Greater than 55 lbs Hg/million tons of clinker limit
A52620A	10/8/14	9/30/14	2-6-307	Visible emissions >Ringelmann 1 for (20% opacity) for 8 mins

5) On April 25, 2016, the District reached settlement with Silverado Construction for \$15,000, regarding the allegations contained in the following 1 Notice of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments from Enforcement
A54109A	5/6/15	4/14/15	6-1-301	Fugitive dust, emission exceeds R1 for 12 mins during demolition day

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 2, 2016

Re: Air District Personnel on Out-of-State Business Travel

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

In accordance with Section 5.4 (b) of the District's Administrative Code, Fiscal Policies and Procedures Section, the Board is hereby notified of District personnel who have traveled on out-of-state business.

The report covers the out-of-state business travel for the month of April 2016. The monthly out-of-state business travel report is presented in the month following travel completion.

DISCUSSION

The following out-of-state business travel activities occurred in the month of April 2016:

- Walter Wallace, Public Information Officer II, attended the National Association of Broadcasters Conference in Las Vegas, Nevada, April 16, 2016 – April 21, 2016.
- Kirk Dahle, Senior Air Quality Chemist, attended the ASTM Air Quality Meeting in San Antonio, Texas, April 10, 2016 – April 14, 2016.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Stephanie Osaze
Reviewed by: Jeff McKay

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 5, 2016

Re: Quarterly Report of the Executive Office and Division Activities for the Months of
January 2016 – March 2016

EXECUTIVE AND ADMINISTRATIVE RESOURCES DIVISION – R. SANDERS, DIRECTOR**Human Resources**

The Human Resources (HR) Office coordinated 11 recruitment exams including exams for Administrative Analyst (2), Air Quality Inspector I, Environmental Planner I/II, Principal Air Quality Engineer, Public Information Officer I/II, Senior Air Quality Chemist, Senior Air Quality Engineer, Senior Environmental Planner, Senior Air Quality Inspector, and Temporary Air Quality Technician. In addition, the HR Office offered training sessions, including: Mobile Desktop Computer (Tablets) Training, American with Disability Act, Human Resources Investigation, CalPERS Retirement, Money Purchase Pension Plan, and Social Security Administration. The HR Office continues to administer payroll, benefits, safety, labor/employee relations, and wellness activities. There are currently 326 regular employees, 12 temporary employees and interns, and 39 vacant positions. There were 10 new employees, 8 promotions, and 8 separations from January to March 2016.

Business Office

The Business Office issued 427 purchase orders. Fleet services outsourced 33 vehicles for maintenance and/or body shop repairs. There were 79 pool vehicle requests from District staff. There are currently 131 fleet vehicles: 1 electric, 1 hydrogen, 20 plug-in hybrids, 23 gas, 20 CNG, and 66 hybrids. The department executed 90 contracts and 2 request for proposals during this period. The Business Office also continues to facilitate webcasts for District Committee and Board meetings.

Facilities Office

Construction Update – 375 Beale Street – Bay Area MetroCenter

A power outage occurred at 375 Beale Street over the Martin Luther King holiday weekend of, January 16, 2016. The root cause of the failure was a portion of exposed bus duct in room 142 where the power incident occurred on January 17, 2016 which was a preexisting condition due to faulty installation, not level and compression bolts loose; moisture intrusion; Arcing occurring over indefinite timeframe and ineffective maintenance. BAHA maintenance contract will cover electrical support for the entire building electrical system. BAHA hired an independent firm to do a complete analysis, of the building's mechanical and electrical program. Power to the building was restored

February 25, 2016. The State Fire Marshall re-inspect the bus duct, and issued of a conditional certificate of occupancy March 23, 2016. The final Certificate of Occupancy was issued April 18, 2016. Move dates have been established for the agencies with the Metropolitan Transportation Commission and the Association of Bay Area Government move in date of May 19 – May 22, 2016 and the Air District’s move-in over the Labor Day holiday weekend of May 26 – May 30, 2016. The following photos are of the interior of the building:



Level: 1 Board Room



Atrium view of Levels 8, 7 and 6

Inter-Agency Collaboration

The Air District, MTC, and ABAG executive management continue to meet to discuss shared business operations and technology solutions. The Air District is working on parking solutions, fleet management, EV charging stations infrastructure, security, and the condo association development and management.

Furniture Procurement

Furniture for 375 Beale is 98 % complete. Final furniture is being scheduled for installation including executive office furniture, and public areas/atrium.

Move Coordination Update

Move Ambassador and Administrative support staff Orientation Sessions scheduled for April 28, 2016 and May 5, 2016. The purpose of the Orientation Sessions is to provide pre-move orientation and training to key support staff on building and business operations at 375 Beale Street.

COMPLIANCE AND ENFORCEMENT DIVISION – W. KINO, DIRECTOR

Enforcement Program

Staff documented 151 air pollution violations that resulted in Notices of Violation and responded to 1,506 general air pollution complaints. These activities addressed noncompliance with applicable federal, state and air district regulations, and provided a mechanism for the public to voice their concerns about air pollution issues that might be in noncompliance. Additionally, highlighted enforcement activities for the quarter are as follows:

- From January 1 – March 31, 2016, staff received and investigated more than 1,120 air pollution complaints for odorous emissions in the greater Milpitas area (including portions of

Fremont and San Jose). Odor descriptions ranged from “garbage”, “foul”, “strong”, “rotting garbage”, “sewage”, “sour”, etc. with most complainants alleging the Newby Island Resource Recovery Park (landfill, composting, and materials recycling facility (MRF)) as the source. Staff documented two public nuisances in February 2106: both against the MRF on February 6 and 20, 2016 for rotting garbage odors.

- On January 21, 2016, staff participated at the quarterly meeting of the South Bay Odor Stakeholder Group, Milpitas. The group serves as a forum for municipal leaders, private industry, state and local regulators, and community leaders to collaborate in identifying and resolving odor issues in the south bay area.
- On February 11, 2016, staff documented violations of the Air District’s landfill regulation and the State’s GHG (greenhouse gas) landfill regulation for surface and well leaks of landfill gas at the Newby Island Landfill.
- On February 25, 2016, staff met with representatives from Republic Services, owner/operator of Newby Island Resource Recovery Park, to discuss the site’s expansion project and ongoing efforts to improve the gas collection system to reduce landfill gas emissions. Staff also stressed that it was equally important to address ongoing odor concerns at the MRF and composting operations.
- The Air District issued 1 Winter Spare the Air Alert (WSTA) on January 2, 2016, resulting in 1 Notice of Violation. The season ended with only 1 WSTA called and no exceedances of the PM_{2.5} 24-hour Federal standard.
- Staff met with representatives of Owens Corning Insulating Systems, LLC in Santa Clara on January 14, 2016 to discuss the basis for an annual source test requirement in its Title V permit on two fiberglass manufacturing lines. The company requested it be relaxed to once every 5 years based on the financial burden it was causing. Staff advised the company that it review all information presented before rendering a decision.
- On February 1, 2016, staff met with the San Francisco Department of Public Works (DPW) to discuss how to clean up Carroll Avenue in Southeastern San Francisco, which was frequently covered with dirt and track out from the adjacent property tenants, and is a frequent source of complaints from community groups in the area. Discussion points included DPW’s role for cleaning the street and its authority for requiring property tenants clean up. A follow-up meeting was held on February 11, 2016 with DPW, staff, and property tenants. The following actions have been taken to mitigate the street dirt issues: DPW will street-sweep Carroll Avenue up to 3 times per week, property tenants are to install track out prevention measures. Staff continues to monitor the situation.
- On March 11, 2016, staff met with the San Francisco Public Utility Commission (SFPUC) Wastewater Odor Complaint Response Standard Operating Procedure (SOP) Workgroup to share its expertise in odor complaint handling. The workgroup is charged with developing an SOP for handling sewer complaints from the public.
- On March 21, 2016, staff teleconferenced with CalRecycle to discuss recent legislation concerning the solid waste industry and regulatory authority issues surrounding the oversight of the solid waste industry and its associated offshoot industries (composting, food waste processing, etc.). CalRecycle is the department within the California Environmental Protection Agency (Cal EPA) that administers and provides oversight for all of California’s state-managed solid waste handling and recycling programs.

- Staff participated in monthly conference calls with Lehigh Southwest Cement Company officials to discuss ongoing issues and concerns.
- On January 4, 2016, staff met with the East Contra Costa County Fire Protection District (ECCFPD) to discuss several instances of open burning violations that ECCFPD recently responded to. Staff is perusing enforcement action on several cases.
- On February 8, 2016, staff met with representatives of East Bay Municipal Utility District (EBMUD) & Harvest Energy, regarding a new food waste processing facility under construction at the EBMUD Wastewater Treatment Plant in Oakland. Engineering Division staff have received an application for a Food Waste pre-processing/hydrolysis treatment/biogas treatment/ & digestate separation system. The meeting process flows through the new facility and proposed odor control systems associated with this new facility were discussed. The new buildings and equipment are scheduled to be fully installed in 4-5 months and the facility is expected to be operating at capacity in about 18 months. A Canadian Company called Harvest Energy will handle the front-end food waste processing and EBMUD will handle the biogas production portion of this project.
- On February 11, 2016, Tesoro Refinery filed an Emergency Variance seeking relief from a Nitrogen Oxide (NOX) emission limit from a Gas Fired Turbine. staff determined that Tesoro did not follow appropriate maintenance practices involving a critical valve. The variance was denied.
- On February 14, 2016, the Phillips 66 Refinery began continuously flaring until Monday, February 15, 2016 at 1710 hours. The cause of the flaring was an electrical failure at their C cogeneration turbine. Phillips 66 reported a NOx violation associated with this event.
- On March 2, 2016, staff formally requested Tesoro Refinery to correct specific deficiencies found in its 2015 Flare Management Plan (FMP) Update. Staff found that because of significantly increased emissions due to flaring throughout the period of the FMP, a new cost/benefit analysis is necessary to establish the feasibility of adding further abatement and recovery of flare gas emissions.
- On March 3, 2016, staff met with Phillips 66 Refinery staff to discuss on-going equipment leak issues at their wastewater separator & dissolved air flotation (Unit 100). Phillips staff explained the enhanced leak monitoring and repair efforts they have undertaken for the past two years to minimize the leaks. Staff voiced concerns about solely relying on caulk to achieve compliance with regulation 8 Rule 8 and nomenclature issues with their contractor's leak records. The Air District will be embarking on a stepped-up LDAR inspection program at Unit 100 to reinforce the need for Phillips 66 to complete the installation of the thermal oxidizer.
- On March 17, 2016 staff met with representatives from NRG (an electrical power generating company) in Pittsburg. NRG staff wanted to discuss source testing options to comply with Regulation 9, Rule 11 (Nitrogen Oxides and Carbon Monoxide from Electrical Power Generating Steam Boilers).

Compliance Assurance Program

- On January 13, 2016, staff participated in the California Air Resources Board (CARB) “At-Berth” regulation meeting in Sacramento to discuss how crude tankers and terminals work, where air emissions come from, and what kind of emission reduction strategies could be employed for these operations.
- On March 2, 2016, staff visited the Calaveras Dam Replacement Project, Fremont, to discuss the San Francisco Public Utilities Commission (SFPUC) project’s naturally occurring asbestos (NOA) dust mitigation strategies and answer questions regarding complying rock drilling techniques. The project had an extensive comprehensive air-monitoring plan (associated with its approved dust mitigation plan (ADMP)), which included 10 perimeter- and 5 ambient air-monitoring stations.
- On March 10, 2016, staff met with Lehigh Southwest Cement and key community stakeholders in Cupertino to discuss future rule making plans for the Air District’s Portland Cement Manufacturing rule.
- Staff approved Asbestos Dust Mitigation Plans (ADMPs) for the following projects: 1) **RIN # NOA-0121**, PG&E Pipeline Installation R-185 Line 109, San Mateo; 2) **RIN # NOA-0122**, Yerba Buena Island Geological Exemption, San Francisco. One of these NOA project was required to perform asbestos ambient perimeter air monitoring and submit results to the Air District on a bi-weekly basis.
- **Mission Bay Projects, San Francisco Under AB 2061:** Staff reviewed the following ADMPs submitted to the San Francisco Regional Water Quality Control Board (Water Board)/Air District to ensure they meet the requirements of the Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations, Section 93105, Title 17, California Code of Regulation (Asbestos ATCM). The Mission Bay area falls under the California Assembly Bill (AB) 2061. Under AB 2061, EPA designated the as the Administering Agency for the development of the Mission Bay Site. As the Administering Agency, the Water Board is responsible for overseeing the site clean-up and works with state, regional and local agencies to make sure that all applicable environmental rules and regulations are followed.
 - **RIN #NOA-0112-** Golden State Warriors Arena Block 29-32
 - **RIN #NOA-0116-** Mission Bay P-23 & P-24 Parks
 - **RIN #NOA-0117-** Mission Bay Block 1 Infrastructure
 - **RIN #NOA-0118-** Mission Bay Block 11 & 12 Infrastructure
 - **RIN #NOA-0120-** Mission Bay Block 40

Compliance Assistance and Operations Program

Staff received and evaluated over 2,433 plans, petitions, and notifications required by the asbestos, coatings, open burn, tank and flare regulations. Staff received and responded to over 66 compliance assistance inquiries and green business review requests. Additionally, highlighted compliance assistance activities for the quarter included:

- On January 8, 2016, staff conducted door to door outreach in several Fairfield neighborhoods to educate the community about the Air District’s Winter Spare the Air Campaign.
- The Winter Spare the Air Season (November 1, 2015 – February 28, 2016) ended. Pursuant to the Air District’s Wood Smoke Program, staff mailed out 276 informational packets to residences that were referred in complaints regarding wood burning. During the first quarter of 2016, the Air District received 98,867 calls to the 1-877-4NO-BURN line, and 725 complaints regarding wood burning.
- The spring marsh management burn season started on March 1, 2016; staff approved 8 Marsh Management Smoke Management Plans (SMPs) for burn projects in Napa County and Solano County.
- Staff approved 1 prescribed burn smoke management plan in Marin County.
- Staff conducted the following inspections for the Strategic Incentives Division (SID): 25 Carl Moyer Audits, 115 projects and 150 engines.
- Staff attended the semiannual Asbestos Taskforce Meeting March 23-24, 2016 in Davis, California to meet with the other air districts and California Air Resources Board staff to discuss asbestos cases and compliance issues throughout the state.

(See Attachment for Activities by County)

ENGINEERING DIVISION – J. WILLIAMS, DIRECTOR

Permit Activity Statistics

The following table summarizes permit activity in the 1st quarter:

Permit Activity			
New applications received	280	New facilities added	125
Authorities to Construct issued	171	Permit Exemptions (entire applications deemed exempt)	5
Permits to Operate issued (new and modified)	263	Annual update packages completed	1203
Registrations (new)	35		

Health Risk Analysis (HRA): 50 HRAs were completed during the reporting period.

Energy Projects

Staff continues to work with regulatory agencies and community groups to discuss permitting issues associated with proposed energy projects including Shell Greenhouse Gas Reduction, Valero Crude by Rail, and Shore Terminal/NuStar Crude by Rail Project.

Shell Greenhouse Gas Reduction Project: This project proposes the permanent shut down of Shell’s Flexicoker Unit. In addition, new and reconfigured energy-efficient equipment will be installed and existing equipment will be modified in order to process lighter crude oil. The project is not expected to increase the Refinery’s total capacity. Staff has met with Shell and is continuing review of Shell’s response submittal to the Air District’s incomplete letter, which was received on September 28, 2015. Contra Costa County is working on a Draft Environmental Impact Report (DEIR) for the project.

Valero Crude by Rail Project: The proposed project would allow the Valero Refinery located in Benicia to receive a portion of its crude by rail. The refinery currently receives crudes by ship and pipeline. Union Pacific Railroad would transport the crudes in railcars using existing rail lines to Roseville, California, and from there to the refinery. The project would allow Valero to receive up to 70,000 barrels per day of the crude oil by rail and reduce its shipments of crude by marine vessel by the same amount. The City of Benicia (City) is the CEQA lead agency for the Project. The City issued a Revised DEIR on August 31, 2015 for public input on potential impacts. The Final Environmental Impact Report (EIR) became available for review on January 5, 2016. The City of Benicia Planning Commission held formal public hearings to receive comments between February 8 to February 11, 2016 to consider the Final EIR and a Use Permit for the Crude by Rail project. On February 11, 2016, the Planning Commission of the City of Benicia passed a resolution denying certification of the EIR and denying the land use permit. Valero has appealed the decision to the Benicia City Council. At the March 15th City Council Meeting, Valero requested to delay consideration of their appeal in order to allow time to petition the federal Surface Transportation Board (STB) to request declarative action regarding preemption to the proposed project. The council will discuss the request in April 2016. Hearings will continue April 4, 6, 18 and 19, 2016.

Shore Terminal/NuStar Crude by Rail Project: The facility is proposing to unload crude oil at its existing rail unloading facility, which is currently permitted to unload ethanol. The crude oil will be stored at one of the terminal's external floating roof tanks, and then, transported via pipeline to another tank at Philips 66 Refinery. The facility plans to demonstrate a no net emission increase from the rail car emissions as a result of this project. The facility notified the District on January 7, 2016, that they are preparing applications for a Contra Costa County Land Use Permit and a District Air Permit.

CEQA Projects

Vallejo Marine Terminal (VMT) and Orcem Project: The proposed project consists of two main components: (1) The VMT component would reestablish industrial uses on the VMT site through the removal of the deteriorated timber wharf and construction of a modern deep-water terminal (2) The Orcem component would involve construction and operation of an industrial facility for the production of a high performance, less polluting alternative for traditional portland cement. Orcem would import most of the raw materials used in the manufacturing process via ships docking at the wharf proposed by VMT. Staff sent comments on the DEIR to the City of Vallejo, the CEQA Lead Agency, on November 2, 2015 and participated in a conference call with the project proponent to discuss them. The Air District has received a permit application for the Orcem project, but not for the VMT project. The City expects the Final EIR to be released in June 2016.

Syar Napa Quarry Project: On November 18, 2015, the Napa County Planning Commission adopted a resolution with required CEQA and Surface Mining Permit (SMP) Findings to approve the Syar Napa Quarry Expansion Project to allow the following: a) An approximate 106-acre expansion of the current surface mining and reclamation plan for a 35 year term; b) An increase in production of aggregate materials from approximately 1 million tons per year to 1.3 million tons per year; c) To add Reclaimed Asphalt Pavement (RAP) handling equipment to the existing asphalt batch plant and an increase in asphalt production up to 300,000 tons per year. Both the EIR Certification and SMP decisions have been appealed to the Napa County Board of Supervisors. On February 9, 2016, a Public Hearing was conducted by the Board of Supervisors regarding these appeals. At this hearing, this item was continued to March 22, 2016 so that the

appeal hearings can be consolidated. At the March 22, 2016 hearing, this item was continued to April 26, 2016. A permit application for RAP handling equipment was submitted to the Air District on February 5, 2016 and is currently incomplete. No permit application has been received for the proposed aggregate production increase.

Permits and Projects

Gillig: This facility is proposing to move their bus manufacturing operation from Hayward to Livermore. Staff completed evaluation of this project and is currently waiting for Gillig to provide 41.975 tons of POC offsets. Gillig has filed a separate banking application to claim emission reduction credits (ERCs) from the closure of their Hayward facility. These ERCs will total 9.286 tons and be used to provide offsets for the new facility. Gillig is in the process of obtaining the balance of 32.689 tons of offsets required for the Livermore project.

Lehigh Southwest Cement Alteration of Lime Injection System: The Air District issued a permit to Lehigh for an abatement system alteration on February 25, 2016 and filed a Notice of Exemption from CEQA with the Santa Clara County Clerk-Recorder. As part of a potential “Consent Decree” with Lehigh, US EPA intends to impose a “Test-and-Set” protocol to reduce SO₂ emissions from the cement kiln through enhanced lime injection. The protocol calls for Lehigh to design and optimize the kiln lime injection to substantially reduce SO₂ emissions from current levels. The permit alteration allows Lehigh the flexibility to comply with the proposed Consent Decree.

City of Santa Clara Landfill Redevelopment Project: The City of Santa Clara is planning a major redevelopment project on top of the closed All Purpose Landfill site near Levi’s Stadium. The developer needs to conduct testing on landfill gas generation rates for future gas collection system modifications and improvements and has proposed to use a candlestick flare to control gas during the 2-3 week test period. The Air District approved a temporary permit to operate for this testing on February 19, 2016. Testing occurred in late February and early March.

Regulation 2 Permitting Rules: Revisions to our New Source Review permitting rules were adopted by the Board of Directors in December 2012, but the revised rules do not become effective until EPA approves them for inclusion in the State Implementation Plan. On August 28, 2015, EPA published in the Federal Register a proposed limited approval and limited disapproval of our rules. Comments on EPA’s proposed action were due Nov. 12, 2015. Staff provided comments to EPA on key areas of concern. The most significant issue is EPA’s position that a facility must provide offsets more than once for the same emissions. The Air District had a meeting w/ EPA headquarters to discuss the rule and expects a final decision at any time.

Regulation 2, Rule 5, New Source Review (NSR) of Toxic Air Contaminants: The Toxics NSR rule will be updated to incorporate 2015 OEHHA Health Risk Assessment (HRA) Guideline Revisions, CARB/CAPCOA Risk Management Guidance, new and revised emission rate trigger levels for toxic air contaminants, and updated definitions and procedures for projects and modified sources. The draft rule amendments, workshop report, revised trigger levels and the HRA guidelines were posted on the Air District website on January 13, 2016. Open Houses were held in Redwood City, San Jose and Richmond from January 28 to February 4, 2016 to educate the public on the proposed amendments and receive comments. Staff also gave a presentation on the rule amendments and expected impacts to the Stationary Source Committee on February 1, 2016. Written comments were received from WSPA and Phillips 66. Staff is preparing responses

to comments and updating the draft rule amendments and staff report. Staff expects to bring the rule amendments to the board in July 2016.

Petroleum Refinery Emissions Reduction Rules: In October 2014, the Air District Board of Directors adopted resolution 2014-17 to develop a regulatory strategy that would further reduce emissions from petroleum refineries, with a goal of an overall reduction of 20 percent (or as much as feasible) no later than 2020. Staff has worked with the Rule Development to develop new or amend existing rules to achieve this reduction. Staff worked on the refinery fugitive rule, the fluid catalytic cracking rule and the cooling tower rule which were all adopted in December of 2015. Staff is working on implementation of the refinery fugitive rule and is conducting a study with the refineries to quantify fugitive emissions from heavy liquid fugitive components.

Regulation 3, Fees: The amendments to the Air District's FYE 2017 fee regulation would be effective on July 1, 2016, and would increase fee revenue in order to help the Air District recover a greater share of the costs the Air District incurs in implementing and enforcing regulatory programs for stationary sources of air pollution. On February 18, 2016, staff conducted a workshop on the proposed Regulation 3 amendments to receive comments from the public. More information will be provided to the public throughout the rule development process and in our responses to comments. On March 23, 2016, staff briefed the Air District's Budget & Finance Committee on the proposed amendments.

CAPCOA Engineering Managers Committee: On January 25-26, 2016, staff presented a recent best available control technology determination made on a composting operation at the West Contra Costa Sanitary Landfill. Other topics discussed included Aliso Canyon/Porter Ranch Gas Leak in the South Coast AQMD, CAPCOA GHG Reduction Exchange (GHG Rx) protocols, EPA Section 111 power plant rules, Composting regulatory workgroup, Portable diesel engine ATCM amendments, and Gasoline dispensing facility emission factors.

Federal Clean Power Plan: Staff is working with ARB, EPA, and other air districts of the CAPCOA workgroup on the February 9, 2016 Supreme Court stay of implementation and enforcement of the Clean Power Plan pending judicial review. During the pendency of the stay, implementation and enforcement of the Clean Power Plan are on hold, but ARB is continuing its work with the workgroup, California Energy Commission, and California Public Utilities Commission on a California clean power plan to comply with Section 111(d) requirements.

Organic Waste Diversion Work Group: On March 3, 2016, staff participated in a conference call for CARB's Organic Waste Diversion Work Group. The driving force behind the workgroup is the CARB's Short Lived Climate Pollutant (SLCP) Reduction Strategy, which outlines a goal of 90% organic waste diversion by the year 2025. To accomplish this goal, ARB and CalRecycle has been tasked to develop a regulation by 2018 to require waste management agencies to eliminate disposal of organics in landfills by 2025. The primary objective of the workgroup is to identify and evaluate methodologies for organic waste diversion from landfills. The next meeting is scheduled for May 12, 2016.

Lehigh Southwest Cement: Community Outreach, Rule Development, Compliance and Enforcement, and Engineering met with stakeholders in Cupertino to discuss upcoming rule revisions to Regulation 9-13: Nitrogen Oxides, Particulate Matter, and Toxic Air Contaminants from Portland Cement Manufacturing.

Toxics Reduction Strategy Meeting: San Francisco Department of the Environment (SFE) hosted a meeting on March 9, 2016 with the Air District, four other state agencies and environmental groups to identify opportunities for greater collaboration between SFE and other agencies to reduce exposure to toxic chemicals and find safer alternatives for worker health. Staff presented and answered questions on the Air District’s top three priority toxic air pollutants from the stationary sources and strategies to reduce exposure to them.

Singapore’s National Climate Change Secretariat Visit: Staff co-hosted the delegation visit with Planning and Community Outreach on February 24, 2016. Staff presented and answered questions on the Air District’s Greenhouse Gas and Climate Protection programs.

LEGAL DIVISION – B. BUNGER, DISTRICT COUNSEL

The District Counsel’s Office received 69 violations reflected in Notices of Violation (NOVs) for processing.

Mutual Settlement Program staff initiated settlement discussions regarding civil penalties for 34 violations reflected in NOVs. In addition, 3 Final 30 Day Letters were sent regarding civil penalties for 3 violations reflected in NOVs. Finally, settlement negotiations resulted in collection of \$77,620 in civil penalties for 49 violations reflected in NOVs.

Counsel in the District Counsel’s Office initiated settlement discussions regarding civil penalties for 13 violations reflected in NOVs. Settlement negotiations by counsel resulted in collection of \$765,860 in civil penalties for 63 violations reflected in NOVs.

(See Attachment for Penalties by County)

COMMUNICATIONS AND PUBLIC INFORMATION DIVISION – L. FASANO

News Releases

The Air District issued 14 press releases and/or media advisories during the last quarter:

01/06/2016	Air District develops consumption-based greenhouse gas inventory
	Air District announces 2016 recipients of James Cary Smith Community Grant Program Awards
01/20/2016	Air District hosts open houses to showcase 2016 Clean Air Plan, Regional Climate Protection Strategy and New Source Review Rule
01/20/2016	Air District holding Redwood City open house
01/25/2016	Air District holding San Jose open house
1/29/2016	Air District holding Richmond open house
2/1/2016	Air District holding Santa Rosa open house
2/1/2016	Air District seeking public input on rule to reduce public health risks
2/3/2016	Air District holding Dublin/Pleasanton open house
2/4/2016	Air District holding Oakland open house
2/4/2016	Permissive burn period opens for marsh management fires
02/24/2016	Breathe California – Golden Gate Partnership announces finalists for 5th annual “Clear the Air Fest”
03/02/2016	

- 03/02/2016 [Quiet Winter Spare the Air season comes to a close](#)
- 03/24/2016 [Media Advisory: Landlords and property sellers soon subject to fireplace disclosure rule](#)

Media Inquiries

Air District staff responded to media inquiries during this quarter regarding:

- Bike share
- Cap and trade
- Clean Air Plan open houses
- Chevron flaring
- Community energy programs
- Data center backup generator
- District move
- Fireplace change out program
- Greenhouse gas consumption based inventory
- Greenhouse gases
- Leaf blowers
- Napa air quality monitor move
- Parking at the new building
- Refinery rules
- Refinery settlement
- Toxic inventory info and data center generators
- Winter Spare the Air
- Wood chipping program
- Youth for the Environment and Sustainability conference

Media Highlights

The Air District and/or Spare the Air was mentioned in approximately 573 print/online stories and 75 video clips in the last quarter. Below are the last quarter's media coverage highlights:

- [Saratoga shorts: The city might be adding new high-speed electric vehicle stations at the Saratoga Library](#)
- [Contra Costa Times: Spare the Air alert issued for Saturday for Bay Area](#)
- [ABC 7 News: NO SPARE THE AIR ALERT IN EFFECT AT THIS TIME](#)
- [Morning Ticker: Why Northern California is banning a cozy, roaring fire in your fireplace](#)
- [The Press Democrat: Chilly New Year brings North Bay storms](#)
- [Reset San Francisco: MONDAY MORNING NEWS ROUNDUP](#)
- [Berkeley News: New interactive map compares carbon footprints of Bay Area neighborhoods](#)
- [San Francisco Chronicle: Study compares carbon footprints of Bay Area communities](#)
- [National Law Review: What Two Recent California Supreme Court Rulings Mean for Analysis of Environmental Impact at Project Sites and Greenhouse Gas Emissions and Protected Species](#)
- [Napa Valley Register: Napa air quality monitor station moving to college](#)

- [Marin IJ: Study shows Marin has large carbon footprint](#)
- [Cement Americas: Agencies Hold Public Meeting on Lehigh Cupertino Plant](#)
- [Contra Costa Times: Valley Stars: Haggerty presents Tri-Valley Air Quality Impact Awards](#)
- [SF Gate: Neighbors discuss bike share program's expansion to SF Mission](#)
- [The Daily Californian: Bike share program to expand to Berkeley, other East Bay cities](#)
- [The Press Democrat: Golis: Marin's footprint problem](#)
- [Pleasanton Weekly: 3 regional agencies moving to new central office building in S.F.](#)
- [Mercury News: Air district OKs \\$300k for global warming conference planned for October](#)
- [Bay Area News: Train derailment rekindles safety fears along East Bay's refinery belt](#)
- [The Independent: New Way To Measure Carbon Footprints Shows Valley Cities' Performance](#)
- [Contra Costa Times: Richmond open house to discuss regional clean air and climate protection plans](#)
- [Contra Costa Times: Guest commentary: Environmental fascism is encroaches on our lives in Bay Area](#)
- [The Press Democrat: Study shows Sonoma County has among smallest carbon footprints in Bay Area](#)
- [Green Biz: The green guru of Super Bowl 50 on planning a net-positive game](#)
- [The Independent: Clean Air Open House](#)
- [San Francisco Bayview: Lennar, the corporation that ate San Francisco, gobbled up Hunters Point and is devouring Treasure Island](#)
- [Times Herald: Peter Brooks: Orcem to close to school](#)
- [The Press Democrat: Questions cloud debate over asphalt plant BoDean Co. in Santa Rosa](#)
- [Contra Costa Times: Air pollution reduction plans to be discussed Monday in Pleasanton by Bay Area air district](#)
- [Wines and Vines: New president for Family Winemakers](#)
- [Dublin Patch: Air District holding Dublin/Pleasanton open house](#)
- [San Jose Mercury News: Air pollution reduction plans to be discussed Monday in Pleasanton by Bay Area air district](#)
- [Helios Bay Area: BAAQMD funds Solar Master Plans for Bay Area public schools](#)
- [Martinez Tribune: Refinery Report: Fire extinguished at Shell; Tesoro to pay \\$646,140 in fines](#)
- [Napa Valley Register: Winter Spare the Air season comes to an end](#)
- [Marin Independent Journal: Winter Spare the Air season ends, Marin no longer tops in complaints about smoke](#)
- [MV-Voice.com: 'Winter Spare the Air' season ends](#)
- [Contra Costa Times: Flaring at Chevron refinery results in odor complaints, but no hazard](#)
- [PRNewswire.com: Contra Costa Spring Home & Garden Show to Host Free Electric Vehicle Test-Drive Event](#)
- [San Jose Mercury: Cupertino: Council considering changes to oral communications to speed up meetings](#)
- [Contra Costa Times: Martinez: Synthetic turf OK'd for Hidden Lakes soccer field improvements](#)
- [San Jose Mercury: San Jose: More bicycle rental kiosks are coming](#)

Public Phone Inquiries

Air District staff responded to the following:

Phone Calls 252

Community Events

01/08/16	WSTA Door to Door	Fairfield and Palo Alto
2/20	Sustainable Transportation Faire	San Francisco
2/20-21	San Jose Spring Home Show	Santa Clara
3/12-3/13	City of Dublin St. Patrick’s Day	Dublin
3/18-3/20	Sonoma County Home and Garden Show	Santa Rosa
3/19	ALA Fight for Air Climb 2016	San Francisco
3/19	Alameda County Safe Kid’s Day 2016	Oakland

Publications

Social Media Guidance Document

Staff reviewed and edited a draft social media plan for the Air District’s social media platforms.

After researching social media policies from other agencies, staff integrated information from other agencies into the plan. This document is still in the draft development stage.

Social Media

Staff and contractors recorded audio podcasts about the Commuter Benefits Program in Mandarin, Cantonese, and Spanish.

Staff worked with contractors to compare analytics data of various social media post categories to ascertain their success and popularity. Additionally, the audience demographics of social media platforms were analyzed, and will continue to be periodically, to ascertain who the campaigns are reaching so staff can better adjust their strategies.

Videography/Photography

The Human Resources video was completed and posted to the Air District’s YouTube channel.

The draft for the electric vehicle video has been completed.

The photo shoot of the executive officer in the new building was completed.

Campaigns

Spare the Air

At the end of the winter season, the Treasure Island Banner switched to the carpool banner and the websites' and social media accounts' imagery and icons reflected the Spare the Air Every Day campaign.

Contractors designed a new Summer Spare the Air banner to be displayed at the launch of the summer campaign.

Staff reviewed creative campaign ideas in March and presented the selected campaign to the Executive Staff for to review and approval.

Contractors prepared a media plan, multicultural outreach plan and the public relations and social strategy.

Winter Spare the Air

Contractors submitted the final reports summarizing door to door outreach efforts and the final report for the winter season.

Staff confirmed the winner of the radio fireplace contest; 139 entries were received.

TV, online, and StarKart advertising ran through the end of February.

2016 Climate Summit

Planning for the 2016 Climate Summit, October 13-14 at the Mission Bay Conference Center began with the exploration of speakers and sponsors.

Employer Program

A pilot program promoting carpool and shuttles was held at the Hacienda Business Park in February.

Staff scheduled an additional event to promote the new I-580 carpool lanes in May with the County of Alameda; the event will also promote the use of ride-sharing services.

Great Race

The Great Race trophy was presented to the SF Board of Supervisors in March.

**COMMUNITY ENGAGEMENT DIVISION – J. ROGGENKAMP, DEPUTY
EXECUTIVE OFFICER****OUTREACH AND ENGAGEMENT PROGRAMS*****Spare the Air Youth***

- **Wednesday, March 16, 2016 – Santa Rosa** – Staff presented to Tomorrow’s Leaders Today youth program about the Air District’s mission, programs and activities for their first annual Environment and Natural Resources Days.
- **Wednesday, March 16, 2016** – Staff attended the Spare the Air Youth Technical Advisory Committee (STAY TAC) meeting to discuss funding for the program, evaluations from the YES Conference and further collaboration among high school serving organizations.
- **Monday, March 7, 2016 – Santa Rosa** – Staff presented to Tomorrow’s Leaders Today youth program about the Air District’s mission, programs and activities for their first annual Environment and Natural Resources Days.
- **Tuesday, March 1, 2016** – Staff met with Spare the Air Youth (STAY) planning committee staff in-person to discuss funding for the program and evaluations from the YES Conference.
- **Saturday, January 30, 2016** – On Saturday, January 30, 2016, Air District and MTC staff hosted the Spare the Air Youth’s YES Conference. The YES Conference was located at the Lawrence Hall of Science in Berkeley. Berkeley Mayor Tom Bates provided the opening remarks. The Conference featured over a dozen transit and air quality related workshops, student-led activities and two dynamic student keynote speakers. Over 250 youth attended the conference.
- **Friday, January 22, 2016 – Antioch** – Staff visited a group of youth and the Keynote Speaker/YES Conference Student Advisory Committee member to discuss the 2016 Spare the Air Youth’s YES Conference, practice speeches, discuss conference shuttles and finalize room logistics.
- **Wednesday, January 21, 2016 – Vallejo** – Staff visited Vallejo High School’s Health Academy to discuss the 2016 Spare the Air Youth’s YES Conference with students and teachers.
- **Thursday, January 21, 2016 – San Francisco** – Staff visited with KALW public radio station about a show on student involvement and Air District community engagement.
- **Thursday, January 21, 2016 – Richmond** – Staff visited a group of youth and the Keynote Speaker/YES Conference Student Advisory Committee member to discuss the 2016 Spare the Air Youth’s YES Conference, practice speeches, discuss conference shuttles and finalize room logistics.

- **Tuesday, January 19, 2016** – The Spare the Air Youth (STAY) committee held a meeting via conference call. The committee discussed upcoming YES Conference logistics, outreach and RSVP list. The YES Conference is scheduled for Saturday, January 30, 2016.
- **Friday, January 8, 2016 – Windsor** – Staff visited a group of youth and the Master of Ceremonies/YES Conference Student Advisory Committee member to discuss the 2016 Spare the Air Youth's YES Conference, practice speeches, discuss conference shuttles and finalize room logistics.
- **Thursday, January 7, 2016 – Oakland** – Staff visited a group of youth and the Keynote Speaker/YES Conference Student Advisory Committee member to discuss the 2016 Spare the Air Youth's YES Conference, practice speeches, discuss conference shuttles and finalize room logistics.
- **Thursday, January 7, 2016 – San Francisco** – Staff visited with Walk SF Outreach Team and SFUSD Climate Curriculum staff as well as SF PTA President to discuss Spare the Air Youth program.
- **Thursday, January 7, 2016 – Pittsburg** – Staff visited a group of youth and the Keynote Speaker/YES Conference Student Advisory Committee member to discuss the 2016 Spare the Air Youth's YES Conference, practice speeches, discuss conference shuttles and finalize room logistics.
- **Wednesday, January 6, 2016 – Berkeley's Lawrence Hall of Science, Berkeley** – Staff visited Berkeley's Lawrence Hall of Science, the site of the 2016 Spare the Air Youth's YES Conference, to view the venue, discuss conference setup and finalize room logistics.
- **Tuesday, January 5, 2016** – The Spare the Air Youth (STAY) committee held a meeting via conference call. The committee discussed upcoming YES Conference logistics, outreach and RSVP list. The YES Conference is scheduled for Saturday, January 30, 2016.

COMMUNITY ENGAGEMENT ACTIVITIES

Resource Team Meetings

- **Tuesday, March 15, 2016 – Sonoma Spare the Air Resource Team, San Francisco** – Staff participated in a conference call held by the Sonoma Spare the Air Resource Team which covered details for their upcoming Clean Commute Fair at the Water Agency.
- **Tuesday, March 15, 2016 – Tri-Valley Spare the Air Resource Team, San Ramon** – Staff attended the Tri-valley Resource Team meeting and provided an Air District update. The team discussed the Idle Free campaign and outreach for the 2016 Air Quality Impact Award. The team will begin their new project discussion at the next meeting.
- **Monday, March 14, 2016 – Contra Costa Spare the Air Resource Team, San Francisco** – Staff participated in a conference call held by the Contra Costa Spare the Air Resource Team to discuss logistics and promotion for an upcoming Community Action Open House at Antioch Water Park.

- **Monday, February 29, 2016 – Community Focus Meeting, Air District Offices** – Staff met with Community Focus staff to discuss current Spare the Air Resource Team projects, upcoming Air District initiatives and brainstormed future Spare the Air Resource Team directions.
- **Thursday, February 19, 2016 – Napa Clean Air Coalition** – Staff participated in the Napa Clean Air Coalition’s meeting and provided an Air District update. Team members discussed outreach to promote their Alternative Transportation incentives for meeting planners project.
- **Wednesday, February 24, 2016 – San Mateo County Spare the Air Resource Team Conference Call** – Staff participated on the San Mateo County STA Resource Team conference call and provided an Air District update. Team members discussed outreach to promote their Active Trips project and begin planning a participatory outreach event.
- **Monday, February 1, 2016 – Santa Clara County Spare the Air Resource Team, Conference Call** – Staff participated on the Santa Clara County STA Resource Team conference call and provided an Air District update. Team members discussed website updates, outreach and next steps for their R@MP Project.
- **Thursday, January 14, 2016 – San Francisco County Spare the Air Resource Team, Conference Call** – Staff participated on the San Francisco STA Resource Team conference call and provided an Air District update. Team members received an update from SFMTA on transportation/traffic mitigation efforts for the upcoming Super Bowl.
- **Thursday, January 14, 2016 – San Mateo County Resource Team, Redwood City** – Staff attended the San Mateo STA Resource Team meeting in Redwood City. Team members discussed outreach and recruitment for the Team to increase participation. The team also discussed promotion around their “Active Trips Incentive” project which aims to decrease the number of single occupancy vehicle trips made to daily events, workshops and meetings in San Mateo County.
- **Thursday, January 14, 2016 – Tri-Valley Spare the Air Resource Team, Conference Call** – Staff participated in a Tri-Valley STA Resource Team meeting. Team members discussed an implementation plan to develop and promote the Air Quality Impact Award for 2016. The team also discussed surveying businesses to better understand how the Resource Team can better support their commute programs with events, workshops, webinars etc.

Community Meetings

- **Tuesday, March 29, 2016 – Air District Office** – Staff met with members of Communities for a Better Environment, Sunflower Alliance, Sierra Club, and Asian Pacific Environmental Network to continue the dialogue about the development of Rule 12-16.
- **Monday, March 28, 2016 – San Pablo** – Staff worked with Measurement, Monitoring and Rules as well as Compliance and Enforcement Division staff to understand the

ambient air monitoring system used by the Air District and how it impacts disadvantaged communities in the Bay Area.

- **Thursday, March 24, 2016 – San Francisco** – Staff met with Todd Groves, School Board Member with West Contra Costa Unified School District, and Neeta Thakur, an asthma researcher at UCSF, to discuss asthma rates and school absenteeism in local Richmond schools.
- **Wednesday, March 23, 2016 – San Francisco** – Staff worked with Planning Division staff to understand whether OEHAA’s CalEnviroScreen (CES), used to map disadvantaged communities throughout California and allocate State funding, misses some disadvantaged communities in the Bay Area.
- **Thursday, March 17, 2016 – Planning Healthy Places Workshop, San Francisco** – Staff attended and supported Planning Division staff in coordinating a public workshop on “Planning Healthy Places” which marked the release of a draft set of guidelines for local governments and developers on how to implement transit-oriented development, infill development while protecting the health of vulnerable communities.
- **Tuesday, March 15, 2016 – BAEHC Meeting, San Francisco** – Staff met with eight community leaders of the Bay Area Environmental Health Collaborative (BAEHC) to discuss updates to the permitting website and public comment process as well as planning for a Cumulative Impacts Forum.
- **Thursday, March 10, 2016 – Lehigh Meeting, Cupertino** – Staff met with the key community stakeholders about amending Regulation 9-13 which would impact the Lehigh cement plant.
- **Friday, February 26, 2016 – Open Data Meeting, Air District Offices** – Staff met with Christopher Voorhees, an Account Executive with Socrata, to discuss open data options.
- **Wednesday, March 8, 2016 – Meeting with Peak Democracy** – Staff met with Peak Democracy staff to discuss communications and outreach to launch the online engagement tool for the Air District’s Clean Air Plan (CAP)/Regional Climate Protection Strategy. The online tool will allow the public to view a virtual open house of the CAP open house materials and provide comment on the draft implementation strategies.
- **Friday, March 4, 2016 – Cupertino** – Staff met with the chair of the Environmental Studies center at DeAnza Community College about potential Air District presentations and how to partner with the College on informing students about career track pathways into Air Quality fields.
- **Thursday, March 3, 2016 – San Francisco** – Staff presented and took part in a multi-agency community meeting with Recology and the Little Hollywood neighbors. Staff presented on the outcomes of the December multi-agency joint inspection and on-going follow up in regards to odors and diesel emissions.

- **Wednesday, March 2, 2016 – West Oakland** – Staff attended the East Bay Municipal Utilities District West Oakland liaison group to hear presentations on proposed new digesters and potential air and odor issues.
- **Thursday, February 11, 2016 – James Carey Smith Community Grantee Meeting, Air District Offices** – Staff hosted a meeting with all James Carey Smith Community Grantee recipients to discuss each grant project, invoicing details and provide networking and introductions.
- **Clean Air Plan/Regulation 2, Rule 5 Open House** – Staff conducted a series of open houses on the Clean Air Plan/Regional Climate Protection Strategy and Regulation 2, Rule 5. The open house format allowed the public to speak one-on-one with Air District staff about the District’s Clean Air Plan/Regional Climate Protection Strategy and changes to Regulation 2, Rule 5. District staff from Engineering, Planning, Community Engagement and Communications staffed the event. Regulation 2, Rule 5 information was only available at the San Jose, Redwood City and Richmond locations. Overall, approximately 30 people attended each open house.
 - **Tuesday, February 2 – San Jose**
 - **Wednesday, February 3 – Santa Rosa**
 - **Thursday, February 4 – Richmond**
 - **Monday, February 8 – Pleasanton**
 - **Tuesday, February 9 – Oakland**
- **Thursday, January 28, 2016 – Clean Air Plan/Regulation 2, Rule 5 Open House, Redwood City** – Staff conducted the first of six open houses on the Clean Air Plan/Regional Climate Protection Strategy and Regulation 2, Rule 5 at Sequoia High School in Redwood City. The open house format allowed the public to speak one-on-one with District staff about the District’s Clean Air Plan/Regional Climate Protection Strategy and changes to Regulation 2, Rule 5. District staff from Engineering, Planning, Community Engagement and Communications staffed the event. Over 50 people attended the open house.
- **Tuesday, January 26, 2016 – Open Town Hall/Peak Democracy Kickoff Meeting, Air District Offices** – With the Peak Democracy contract finalized, staff met with representatives of Peak Democracy to discuss next steps in launching an online civic engagement platform for the 2016 Clean Air Plan. The site is expected to launch early February.
- **Friday, January 22, 2016 – San Jose** – Staff visited San Jose State University to meet with Dr. Cordero, director of the Green Ninja Program to discuss possible collaborative partnerships with community engagement.
- **Wednesday, January 20, 2016 – EPA Title VI Listening Session** – Staff attended a listening session in Oakland hosted by EPA about proposed changes to Title VI regulation.

- **Tuesday, January 19, 2016 – Meeting with Director Mar** - Staff met with Director Mar to discuss proposed community engagement strategies that include issue-specific advisory groups along with other meaningful engagement strategies.
- **Wednesday, January 13, 2016** – Staff met with Ratha Lai from the Sierra Club to continue open dialogue about last round of refinery rules and upcoming opportunities for engagement.
- **Friday, January 8, 2016 – Alameda** – Staff visited program staff at the Alameda Boys and Girls Club to discuss Bay Area Near Roadway Sensor Study (BANRS).
- **Wednesday, January 6, 2016 – ARB AB 32 EJ Webinar** – Staff attended ARB AB 32 EJ webinar and took note of upcoming periods for public comment as well as climate change and health programs.

Outreach

- **Friday, January 22, 2016 – Antioch** – Staff posted Clean Air Plan flyers at local libraries and coffee shops.
- **Friday, January 22, 2016 – San Jose** – Staff posted Clean Air Plan flyers at the City Planning department, local libraries and at SJSU campus.
- **Thursday, January 21, 2016 – Emeryville** – Staff posted Clean Air Plan flyers at local libraries and coffee shops.
- **Thursday, January 21, 2016 – Berkeley** – Staff posted Clean Air Plan flyers at local libraries and coffee shops.
- **Monday, January 11, 2016 – Santa Rosa Junior College** – Staff conducted outreach to Santa Rosa Junior College, as well as nine libraries, community centers, and local businesses for the upcoming Clean Air Plan/Regional Climate Protection Strategy Open House in Santa Rosa.

Tours/Delegation Visits

- **Wednesday, February 24, 2016 – Singapore Delegation Visit, Air District Offices** – Staff hosted a delegation from Singapore. Delegates received presentations from Engineering staff on the Air District’s GHG Fees on permitted sources and from Planning staff on the Air District’s Climate Protection Program.
- **Thursday, February 25, 2016 – Japanese Delegation Visit, Air District Offices** – Staff hosted a delegation from Japan. In addition to presentations from Community Engagement staff, delegates received presentations from Compliance and Enforcement, Lab & Meteorology staff on general Air District activities.
- **Friday, February 26, 2016 – University of San Francisco Environmental Graduate Students Tour Air District, District Offices** – Staff hosted a group of students from a USF Environmental Graduate Studies course. Students received presentations from Lab & Meteorology as well as Planning staff on the Air District’s Climate Protection Program and CARE Program.

Events

- **Tuesday, March 22, 2016 – San Francisco** – Staff attended and presented at the sponsored- Cornerstone Missionary Baptist Church Bay Area Revival to discuss health and wellness and current efforts of the Air District in regards to Bayview Hunters point.
- **Saturday, March 19, 2016 – San Mateo County Youth Conference, San Mateo** – Staff participated in the San Mateo County Youth Conference “Change Starts With Us” and talked about the annual YES Conference, paid internship opportunities and other general Air District programs. 200 students attended the event.
- **Saturday, March 19, 2016 – Black Health and Healing Conference, San Francisco** – Staff attended and participated in the Black Health and Healing Conference held at San Francisco State University. Staff provided information on the Air District and answered general air quality related questions. Approximately 100 people attended the conference.
- **Saturday, March 19, 2016 – ALA Fight for Air Climb, San Francisco** – Staff attended the American Lung Association’s Fight for Air Climb at the 555 California Street Building. Staff provided general information about the Air District and the Spare the Air campaign. About 700 people participated in the event.

PLANNING AND CLIMATE PROTECTION DIVISION – H. HILKEN, DIRECTOR**Air Quality Planning**

Staff continued preparing the Draft 2016 Clean Air Plan/Regional Climate Protection Strategy (CAP/RCPS) including drafting control measures and updating implementation actions, preparing emission reduction and cost estimates, and conducting public outreach. Staff hosted CAP/RCPS community open houses in January and February in Dublin, Oakland, Pleasanton, Richmond, Redwood City, San Jose, and Santa Rosa to solicit comments and feedback on potential draft control measures and draft implementation actions identified for the CAP/RCPS. Staff presented an update on the 2016 CAP/RCPS to the Executive Committee. Staff continued work on the Planning Healthy Places guidance document including: updating the web-based local pollutant mapping component and incorporating county specific air quality modeling into maps, constructing a Planning Healthy Places webpage, and facilitating a March 17, 2016 public workshop via webcast to solicit stakeholder input. Staff presented a report on Planning Healthy Places to staff from the Governor’s Office of Planning and Research, the Air Resources Board, the State Department of Housing and Community Development, Caltrans, the State Department of Public Health, and to stakeholder groups including the Bay Area Environmental Health Collaborative, Ditching Dirty Diesel, the Non-Profit Housing Association and the Building Industry Association to solicit feedback and input on the Planning Healthy Places document. Staff provided a CEQA comment letter to: The City of Benicia on the Final Environmental Impact Report (FEIR) for the Valero Benicia Crude-by-Rail Project and the County of San Luis Obispo on the Phillips 66 Company Rail Spur Extension and Crude Oil Unloading Project FEIR. Staff also submitted comments to the Governor’s Office of Planning and Research on its “Revised Proposal on Updates to the CEQA Guidelines on Evaluating Transportation Impacts in CEQA”. Staff participated in the CAPCOA Planning Manager’s monthly meeting.

Research and Modeling Program

Staff continued to assist with the 2016 Clean Air Plan update, including documenting the District's air quality modeling efforts, continuing work on Bay Area 2012 and 2013 PM and ozone air quality simulations, and updating cumulative health impacts of multiple pollutants. Staff participated in several Clean Air Plan Open Houses. Staff continued work on using the CALPUFF dispersion model to simulate SO₂ and assess impacts of SO₂ emissions reductions on Bay Area PM. Staff analyzed particulate matter data collected over the last three years and sent selected PM filters to the University of Arizona for carbon-14 analysis to analyze trends in the contribution of wood burning to Bay Area PM and evaluate the District's wood burning emissions inventory. Staff participated in several conference calls with staff at ARB and neighboring air districts to discuss emissions inventory development for air quality modeling in central California. Staff continued to collaborate with ARB staff and researchers at UC Davis to measure and analyze speciated ultrafine particulate matter in the Bay Area. Staff continued to work with UC Davis on a project funded by the Coordinating Research Council (CRC) to improve PM air quality modeling in the Bay Area. Staff continued work with consultants to improve ozone and PM model performance, particularly investigating model estimates of SO₂ conversion to particulate sulfate. Staff continued work with consultants to improve chemical speciation of the District's modeling emissions inventory.

Community Air Risk Evaluation (CARE)

Staff developed updated methods and inputs for mapping risk and particulate matter to support the Planning Healthy Places guidance document. Staff met with representatives from the California Office of Environmental Health Hazard Assessment (OEHHA) to discuss possible updates to the next version of CalEnviroScreen, CalEPA's tool for identifying disadvantaged communities in California. Staff met with the Alameda County Public Health Officer and representatives from the County Health Department, staff from the Alameda County Transportation Commission, and staff from the Metropolitan Transportation Commission to discuss an existing conditions assessment from the County Health Department and a Health Impact Assessment from Ditching Dirty Diesel related to the Alameda County Goods Movement Plan. Staff participated in a conference call with US EPA to discuss the Oakland Vegetation Barrier Project and possible collaboration on air sampling before and after vegetative barriers are constructed in Oakland. Staff participated in Open Houses for the upcoming Clean Air Plans and Regional Climate Protection Strategy (CAP/RCPS).

Emissions Inventories

Staff provided emissions data and analyses to support proposed refinery rules. Staff provided technical information to support updates to Regulation 3, Fee Schedule T (GHG fees). Staff kicked off a discussion of a Quality Assurance Project Plan for the Air District's Emissions Inventory to improve quality assurance practices for emissions estimates. Staff participated in several conference calls with climate researchers, including Dr. Steven Wofsy at Harvard and Dr. Riley Duren at NASA, to develop plans to conduct collaborative GHG measurement campaigns in the Bay Area to improve and evaluate the Air District's regional GHG emissions inventory. Staff hosted researchers from the Lawrence Berkeley National Laboratory to discuss next steps for measurements and analyses for improving the Bay Area's methane emissions inventory. Staff responded to multiple public information requests for GHG emissions for local cities and counties. Staff also responded ARB's request to review 15 Bay Area facilities' locations for 2014

statewide submittal data for the National Air Toxics Assessment (NATA) program. Staff responded to a request from CalRecycle for estimates of fugitive methane emissions from Bay Area landfills.

Climate Protection Program

Staff continued work on the Regional Climate Protection Strategy (RCPS), including refinement of control measures and conducting public outreach. Staff participated in the six 2016 Clean Air Plan (CAP)/RCPS open houses in Redwood City, San Jose, Santa Rosa, Richmond, Pleasanton and Oakland. Staff began planning upcoming meetings of the 2016 CAP/RCPS Working Group. Staff shared and promoted the results of the GHG Consumption-based Emissions Inventory via multiple interviews on radio, TV and print media, and a well-attended webcast for local government planners and state agency staff. Staff met with a delegation from Singapore's Climate Change Secretariat to discuss the Air District's Climate Protection Program. Staff continued to track and participate in activities of ARB's AB32 Scoping Plan Update work, including attending workshops on the statewide Forest Carbon Plan and the Natural & Working Lands sector working group, and reviewing the Proposed Short-lived Climate Pollutant Strategy. Staff made presentations to the Climate Protection Committee on the development of the RCPS and the implementation of the 10-point Climate Action Work Program. Staff continued to lead work on a rule that would limit GHGs, particularly methane, from Natural Gas and Crude Oil Processing Facilities, including gathering information on permitted oil and gas wells to explore amendment opportunities to Air District Rule 8-37. Staff finalized deployment of the GHG fixed-site monitoring network and presented on the Air District's GHG monitoring network at the American Meteorological Society's 96th Annual Meeting. Staff collaborated with MTC staff to demonstrate and solicit feedback from local climate planners on the draft VMT data tool MTC is developing under contract with the Air District.

STRATEGICS INCENTIVES DIVISION – K. SCHKOLNICK, ACTING DIRECTOR

Carl Moyer Program (CMP)

- Staff submitted a CMP application to ARB for CMP Year 18 participation, 1/20.
- Air District inspection staff completed:
 - Latest CMP project audit inspections, 1/29.
 - Caltrain electrification project equipment pre-inspections, 2/5.
- Air District staff approved the inspection and \$2.5 million payment request for United Airlines ground support equipment project, 2/16.
- Staff submitted the Air District's Board Resolution to support its Year 18 application to ARB, 3/25.
- Staff participated in the following meetings:
 - CAPCOA Grants committee, 1/13.
 - ARB/Air district Tactical team discussions, 1/14, 1/19, 1/26, 1/28, 2/2, 2/8, 2/11, 2/16, 2/23, 2/25, 3/1, 3/24 & 3/29.
 - FY2016-17 Funding Plan for LCT and AQIP Investments, 1/27.
 - ARB Advanced Clean Transit Advisory Committee, 1/29.
 - ARB Advanced Clean Transit Technology Symposium, 2/8.
 - CAPCOA Grants Committee Meeting, 2/10.
 - ARB workshop on Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP), 2/11.

- ARB conference call to discuss potential changes to the on-road chapter, 3/1.
- CEC call regarding VE Rail - Electric Locomotive, 3/8.
- CEC CNG workshop, 3/8.
- Locomotive technology discussion, 3/24.

Goods Movement Program

- Staff completed inspections and payment processing for all YR4 projects. A total of 258 truck replacement projects were completed for YR4, 1/4.
- Staff reviewed 242 truck project applications for the 1st solicitation of YR5, 1/4.
- Staff opened the 2nd solicitation for YR5 applications: trucks, Transportation Refrigeration Units (TRUs) and cargo-handling/shore power projects, 1/26.
- Staff closed the first YR5 locomotive solicitation. Applications were received from Union Pacific, Richmond Pacific Railroad Corp, and Port of San Francisco/SF Bay Railroad, requesting GMP grant funding for eight Tier 4 locomotives, 1/29.
- Staff re-opened locomotive project application solicitation, 2/29-3/18.
- Staff conducted the following outreach or communication activities related to the GMP:
 - Issued email reminders to locomotive program stakeholders for the 1st locomotive projects solicitation, January 2016.
 - Submitted GMP quarterly reports to ARB, 1/20.
 - Submitted YR5 Truck solicitation #1 project truck compliance checks and rank list data to ARB for review, 2/3.
 - Finalized and submitted the GMP/CAPCOA Truck reuse program proposal to ARB, 2/10.
 - Conducted outreach to more than 900 truck owners and more than 290 cargo-handling, shore power and TRU owners for the YR5 program, 2/23-3/4.
 - Hosted an Inspection Day event for YR5 truck replacement projects, completing 22 truck inspections, 3/4.
 - Issued a truck project solicitation mailer to more than 3,000 Bay Area truck owners, 3/11.
 - Posted the first rank list for YR5 truck projects, enabling contracting to begin, 3/22.
 - Staff provided GMP project information requested by EPA to assist with an on-going investigation related to the program, 3/29.
 - Staff participated in the following meetings:
 - Met representatives from Union Pacific and the Sacramento AQMD to discuss GMP opportunities for switcher locomotive replacement projects, 1/7.
 - Met air districts that administer the GMP to discuss a truck reuse program and the possibility to pursue long-term Cap & Trade funding to continue GMP-like projects, 1/7.
 - Met with ARB staff to discuss ARB freight plan activities, 1/19.
 - ARB and air districts that administer GMP, Local Agency Call, 1/20 & 2/17.
 - Statewide ARB Roundtable Discussion for Opportunities for Overcoming Barriers to Zero and Near-Zero Emission Transportation Options Study, 3/30.

Lower-Emission School Bus Program

- Staff completed one inspection for school bus replacement, three inspections for school bus CNG tank replacement and two inspections for school bus retrofit projects, 1/11-3/29.
- Staff issued contracts for one school bus replacement (\$165,000, Gilroy) and a contract for CNG tank replacements on one school bus (\$19,999, Sunnyvale), 1/2016.

- Staff issued interim payments totaling \$19,999 for one of three CNG tank replacement projects (Sunnyvale), 3/2016.

Grant Development

- **ARB Zero-emission Drayage Truck Project:**

- Staff held a conference call with SCAQMD staff regarding the project, 3/25.

- **CEC Microgrid Project:**

- Staff was notified by its partner, Charge Bliss, Inc., that the CEC award for a critical facility microgrid supported by renewable energy will be located at the Kaiser Richmond hospital, 1/10.
- Staff participated in a project kick-off conference call with its partner, Charge Bliss, Inc., for the project, 1/19.
- Staff participated in a conference call with Charge Bliss and other partners on the project, 2/26.

- **CEC Freight Transportation Project for California Seaports Solicitation:**

- **BYD:**

- Staff held a conference call with representatives of BYD and Port of Oakland to discuss submitting a proposal, 3/8.
- Staff partnered with BYD to deploy 15 battery-electric trucks to be operated by GSC Logistics, Rogers Trucking, and Central Valley Ag, 3/24.

- **Hydrogenics:**

- Staff held a conference call with representatives of Hydrogenics and Port of Oakland to discuss submitting a proposal, 2/25.
- Staff partnered with the Port of Oakland and Hydrogenics to submit a proposal to demonstrate two zero-emission hydrogen-fueled drayage trucks operating between the Port of Oakland and West Sacramento, 3/24.

- **Commercial Lawn & Garden Equipment Exchange Program:**

- Staff sent out contract amendments extending the deadline to complete projects from 12/31/2015 to 4/29/2016, 1/6.
- District staff worked with the California Attorney General's Office to draft and sign an amendment to the ConocoPhillips Greenhouse Gas reduction grant MOU to allow the remaining funds in that program to be used for this program, adding \$500,000 to the existing program, 1/25.
- Staff held a conference call with representatives from the Contra Costa and Alameda County DPH regarding closing out the current program and the launch of the second round of funding, 2/29.

- **Vehicle Buy Back Program:**

- Staff released RFPs for the program to seek dismantler contractors and a direct mail contractor with proposals, 2/25 & 2/26.
 - The RFP for dismantlers and direct mail contractors closed. Two proposals for dismantling services were received and three proposals for direct mail services were received, 3/24.

- Staff from SID and Planning reviewed and scored the proposals, 3/30.
- SID staff worked with Air District inspectors to conduct inspections, 3/2.
- **Zero-Emission Truck & Bus Pilot Commercial Deployment Projects**
 - AC Transit:
 - Staff provided AC Transit with a Letter of Commitment to provide funding in the amount of \$1 million for the purchase of ten hydrogen fuel cell buses for AC Transit, 1/26.
 - Staff received notice that the proposal submitted to ARB by the Center for Transportation and the Environment and the Air District to deploy ten AC Transit hydrogen-fuel busses was awarded funding, 3/29.
 - Goodwill Industries:
 - District staff held a conference call with representatives from BYD, Goodwill Industries, CTE, and Weideman Group regarding partnering on a battery-electric truck project, 1/5, 1/7 & 1/12.
 - Staff, in partnership with Goodwill Industries, submitted a proposal to ARB requesting \$2,738,557 for a \$4,435,919 project to deploy ten BYD electric T7 delivery trucks and one BYD electric T9 debris hauler, 1/29.
 - Staff received notice from ARB that the Goodwill project utilizing 11 battery-electric BYD trucks was awarded funding, 3/29.
 - SCVTA: District staff held a conference call with representative from SCVTA regarding partnering on a battery-electric transit bus project, 1/4.
 - SolTrans:
 - District staff held a conference call with representatives from SolTrans regarding partnering on a battery-electric transit bus project, 1/5 & 1/12.
 - The District provided a letter of support and commitment to provide a cash match of \$163,430 for a SolTrans proposal to ARB for the purchase of 5 battery-electric transit buses, 1/27.
 - UCSF:
 - District staff held a conference call with representative from UCSF regarding partnering on a battery-electric shuttle project, 1/6, 1/7 & 1/19.
 - Staff, in partnership with UCSF, submitted a proposal to ARB requesting \$5,692,662 for a \$16,257,416 project to deploy 13 zero emission battery electric buses, 1/29.
- **Other:**
 - Staff submitted responses to comments received from DOE on a proposal requesting \$5,930,326 to demonstrate three hydrogen fuel cell drayage trucks to operate between the Port of Oakland and West Sacramento, 1/19.
 - Staff responded to Public Records Request No. 2015-11-0122, from David Yang with Gilbert Associates, regarding our DOE California Fleets and Workplace Alternative Fuels Project, 1/20.
 - Staff participated in the California Sustainable Freight Action Plan Webinar hosted by California Air Resources Board, Caltrans, Governor's Office of Business and Economics Development, and Energy Commissions, 2/5.
 - Staff participated in the Light-Duty Pilot Projects to Benefit Disadvantaged Communities Work Group meeting via conference call hosted by California Air Resources Board, 2/5.

- Staff participated in a webinar held by the US-DoT regarding the release of the TIGER 2016 solicitation and preparation of proposals, 3/8.
- Hydrogen
 - Staff participated in the monthly Government H2 Update conference call with other agencies, 1/7.
 - Staff attended a webinar on the Progress of California’s Hydrogen Stations hosted by the California Fuel Cell Partnership, 3/1.
 - Staff participated in a conference call on the Government H2 Update hosted by the California Air Resources Board (CARB), 3/3.

TFCA Program County Manager Program

- Gilbert and Associates began its audit of the County Program Manager Fund (Audit #17), 1/12.
- Staff attended the January Bay Area Congestion Management Agency (CMA) Directors Meeting in Oakland, 1/29.
- Staff attended meeting in Santa Clara with the nine Congestion Management Agencies, 3/25.

TFCA Regional Program

- Staff met with representatives from Contra Costa County to discuss the Easymile pilot project, 3/23.
- Staff held a conference call with an Orange EV representative regarding their EV technology for drayage trucks and yard hostlers, 3/24.
- Staff submitted the final paper, *Strategies to Electrify the Transportation Sector: A Perspective from the San Francisco Bay Area*, for the EVS29 Symposium to be held in Montreal June 19-22, 2016, 3/25.
- Staff had a phone interview with Bay Area Monitor on the Air District's funding for greener vehicles through the TFCA grants, 3/3.
- The public comment period for the FYE 2017 TFCA Regional Fund Policies closed on 3/11, and 14 sets of comments were received by the deadline.
 - Staff notified current Shuttle and Ridesharing stakeholders of the release of EMFAC 2014, and provided updated cost-effectiveness calculations for their projects, 2/18.
- **Plug-in Electric Vehicle (PEV) Programs:**
 - Heavy-Duty Zero-Emission Vehicle Program (HDZEV): Staff issued the solicitation for this program on 1/27. The application deadline is June 22.
 - PEV Rebate Program: To date for FYE2016, 4 applications have been received, and 2 applications have been awarded a total of \$5,000. The deadline to submit proposals is June 22. Statistics for vouchers issued from 2015 through 4/5/2016:
 - Battery EV (BEV) – 60
 - Plug-in Hybrid EV (PHEV) – 20
 - Zero Emissions Motorcycles (ZEM) – 4
 - Charge! Program: The solicitation closed on 1/15 and 63 applications were received by the deadline requesting a total of \$5.4 million (M). To date, 36 applications have been evaluated and are recommended for a total of \$2.9 M in awards.
 - Charge Fast! Program: The solicitation closed on 3/28 and 5 applications were received requesting a total of \$1.9 M.

- EV Charging Demo Program (RFG): The solicitation closed on 12/18/15. Nine projects were awarded funds totaling \$1.1 M, of which approx. \$700,000 are TFCA funds.
- Meetings and Outreach Activities:
 - Staff held a conference call with representatives from Kearns & West and MTC to plan for the January EV Council Meeting, 1/5 and to plan for the March EV Council Steering Committee Meeting, 2/2, 2/16, 3/29.
 - Staff attended the Bay Area EV Coordinating Council Meeting in Oakland, CA. Over 60 people attended the meeting, 1/27.
 - Staff attended a webinar briefing by BKI on their ZEV Buyer Study, 1/29.
 - Staff met with Tim Lipman of UC Berkeley and the California PEV Collaborative (PEVC) to hand off the MuD case study project, 2/1.
 - Staff participated in a PEVC Working Group conference call to discuss opportunities to advance charging infrastructure deployment at multi-dwelling units (MDUs) and workplaces, 2/2.
 - DAPCO held a conference call with MTC to discuss how to quantify and report emission reductions from electric vehicle grant programs to ARB, 2/8.
 - Staff attended a pre-application workshop webinar on a CEC solicitation to deploy DC Fast Chargers for California's Interregional Corridors, (GFO-15-603), 2/8.
 - Staff participated in a PEVC co-chair conference call to discuss opportunities to advance charging infrastructure deployment at multi-dwelling units (MDUs) and workplaces, 2/22.
 - Staff participated in a PEV 101 webinar panel hosted by the PEVC, 2/23.
 - Staff was interviewed by Santa Clara University students on the EV Program, 2/29.
 - Staff attended a webinar on Finding the Business Case for EVs in Public Fleets hosted by West Coast Electric Fleets, 2/29.
 - Staff met with NRG and Greenlots to coordinate on a CEC DC Fast Charging solicitation, 3/2.
 - Staff held an EV Council Steering Committee Meeting, 3/3.
 - Staff presented information on the District's EV Program to the San Mateo City/County Association of Governments, 3/28.
- Trip Reduction Programs: For FYE 2016, \$3.2M in funding was awarded to seven applicants. All seven agreements are executed, 3/8.
- FYE 2016 Bicycle Programs:
 - Bike Rack Vouchers: To date, 13 applications have been received. Of these, 10 projects have been awarded funds totaling \$63,300. The application deadline is June 22, 2016.
 - Electronic Bike Lockers: To date, four applications have been received. Of these, two projects have been awarded funds totaling \$120,000. The application deadline is June 22, 2016.
 - Bike Share: The Air District-Motivate agreement term ended on December 31, 2015. As of January 1, 2016, MTC owns the bike share assets and administers the regional bike share system.
 - System statistics from 8/29/13 to 12/31/15:
 - Active Accounts (Annual and 30-Day) – 3,782
 - Annual Memberships – 7,126

- 30-day Trial Memberships – 823
- Casual Memberships – 56,513
- System Wide Trips – 773,916
- Staff participated in a conference call with the Partner Working Group representatives to discuss local issues, contract implementation issues, marketing and outreach, system statistics and project close out, 1/6 and 1/25.
- **FYE 2015 Alternative Fuel Infrastructure**: Five awards were made totaling \$2.7 million in TFCA funding. Four agreements have been fully executed with one amendment approved by the Air District. One agreement is awaiting the project sponsor's signature. Two hydrogen stations have opened to date: in South San Francisco and San Jose, 3/8.

Other:

- Staff participated in a Northern California Center for Alternative Transportation Fuels and Advanced Vehicle Technologies (NorthCAT) regular call to discuss status of training facility in Richmond and upcoming events, 1/8.
- Staff participated in ARB's Board Meeting agenda item discussing the status of the Advanced Clean Transit Rule, via webcast, 2/18.
- Staff attended the 2016 Dublin Business Expo sponsored by Dublin Chamber of Commerce in Dublin, 2/24.

**METEOROLOGY, MEASUREMENT & RULES DIVISION – E. STEVENSON,
DIRECTOR**

Air Quality

During the 1st quarter of 2016, there were no exceedances of the national 35 $\mu\text{g}/\text{m}^3$ PM_{2.5} standard. One Winter Spare the Air Alert was called for January 2, 2016. During January and March 2016, frequent storms moved through the Bay Area. Although February 2016 was dry (only one major rain event during the middle of the month), it was also warm with inland high temperatures above normal for much of the month. High temperatures at Livermore were 70°F or higher on 13 of the 29 days. During the 1st quarter, 21.72 inches of rainfall was recorded at Santa Rosa and there were two days at or below freezing. In contrast, during the same period in 2015, Santa Rosa only recorded 1.4 inches of rainfall and there were 24 days at or below freezing.

During the winter season of 2015-16, there was one Winter Spare the Air Alert issued and no days over the standard. In the winter of 2014-15, there were 23 Winter Spare the Air Alerts issued and 6 days over the standard.

Air Monitoring

26 air monitoring sites were operational from January through March 2016. Ozone monitors at Hayward, San Martin, Gilroy, Los Gatos, San Ramon, and Fairfield were shut down on December 1, 2015, during the low ozone season, as allowed under a waiver granted by the EPA. All 13 remaining ozone monitors continued to operate during the 1st Quarter 2016. The ozone sites on waiver during this period were prepared during the month of March to be put back into operation on April 1, 2016 for the coming ozone season.

The Air Monitoring Section continued development of the fixed greenhouse gas (GHG) monitoring network and got all four sites - Bethel Island, Patterson Pass, San Martin, and the Bodega Bay background site - operational by the end of March. These GHG installations also included development and installation of a special calibration system specifically for the new instrumentation. The Air Monitoring Section also began planning the retrofitting of the mobile GHG Mobile Monitoring van to allow for the installation of new instrumentation with longer deployment time.

The Air Monitoring Section continued to operate two MOUDI instruments at the Oakland East and San Pablo air monitoring sites in collaboration with the Planning and Climate Protection Division and UC Davis to better characterize ultra-fine particulate matter. The Section also continued collaborate on a number of other special projects including the collocation of different micro-sensors at various sites.

Performance Evaluation

The Performance Evaluation Group conducted EPA-mandated performance audits at 19 Air District air monitoring stations, verifying 63 separate parameters during the 1st Quarter of 2016. The National Air Quality System Database was updated with all the audit results.

Ground-Level Monitoring (GLM) network audits of Hydrogen Sulfide (H₂S) and Sulfur Dioxide (SO₂) monitors were conducted at sites in the vicinity of Chevron, Tesoro and Valero refineries. Audits were performed at 10 monitoring locations with 19 gas analyzers being tested. All of the GLM locations tested met District's performance criteria.

Work on the Quality Assurance Project Plan (QAPP) was completed, with the changes reviewed and approved by the QA Officer and management. Major revisions to the District's MOP Volume VI, and Appendix A were also completed this quarter.

Two Operations Data Action Monitoring Notifications (ODAMN) were issued this quarter, one at the Redwood City AM station, and the second one at the San Carlos Airport site. At the Redwood City AM station, a leak of greater than the acceptable tolerance of 1.0 liter/minute was found when auditing the site FEM BAM. The station operator made repairs to the unit; and a subsequent leak check passed. A high volume sampling unit at the San Carlos Airport site failed a flow rate test during an audit. There has been no formal response from AM staff regarding this failure, and this investigation presently remains open and is being addressed.

Modifications to the Through-the-Probe (TTP) van continue throughout this quarter. The use of a new, ultra-stable carbon monoxide (CO) analyzer to eliminate drift has been successfully completed. A newly designed sampling system for the TTP van has been purchased. In house evaluation of the TTP van is nearly complete and field testing using will start in April.

Rule Development Program

Refinery Emission Reduction Rulemaking

Staff prepared Regulation 9, Rule 14: Petroleum Coke Calcining for the Board's consideration on April 20, 2016. This included posting the proposed rule and supporting documents on the Air

District Web site and requesting comments. The staff also prepared responses to the comments received in order to fully inform the Board of Directors prior to their consideration of this rule.

Refinery Emissions Monitoring and Limits

Final draft versions of Regulation 12, Rule 15: Petroleum Refining Emissions Tracking and Regulation 12, Rule 16: Petroleum Refining Emissions Risk Limits were released to the public for comment on October 9th. The Air District received several significant comments on these rules that caused a reconsideration of the appropriate approach for these rules. As a result, these rules were not presented for consideration on December 16, 2015 as originally planned.

Regulation 12, Rule 15 was modified in consultation with the commenters and posted for comments during this quarter. The revised version was focused on data collection to help determine the impact of crude slate changes on emissions and to better understand the extent of emissions crossing the refinery fence-lines. The staff also prepared responses to the comments received in order to fully inform the Board of Directors prior to their consideration of this rule on April 20, 2016.

Regulation 12, Rule 16 was discussed with the Stationary Source Committee on February 25, 2016. In that presentation, staff noted that the rule would be focused on greenhouse gas emissions. This focus was driven partially by comments on the previous version and also on the staff's analysis of existing and planned rulemaking efforts that are better positioned to address concerns with the other pollutants. At that meeting, the staff also presented four options that were under consideration for Regulation 12, Rule 16, including site-wide caps on refinery emissions. Staff also presented the criteria against which the four options would be evaluated.

Other Greenhouse Gas Rulemaking Efforts

Staff continues to work on rules to reduce emissions of methane, a powerful greenhouse gas. Staff is working with the Air Resources Board (CARB) and the California Public Utility Commission to limit methane leaks from PG&E natural gas distribution network. Staff is also working with CARB on a rule to reduce methane (and toxic and ozone precursor) emissions from oil and gas production wells and underground storage. In addition, staff is evaluating other opportunities to reduce emissions from other methane sources such as landfills, composting facilities and capped oil and gas wells.

Toxic Hot Spots

On February 1, 2016, staff presented information about the toxic hot spots program to the Stationary Source Committee. This program arose from a 1987 law that directed Air Districts to ascertain the health impacts from these sources and to take actions when those impacts exceeded certain levels. Recently, the guidance on how to conduct this analysis was modified to be more protective of public health. The staff is evaluating policy and/or regulatory changes that will be needed to address these changes in order to continue to ensure health of the surrounding communities.

Laboratory

In addition to routine, ongoing analyses, 42 samples from Lehigh Southwest Cement Co, Cupertino were analyzed for metals content.

The lab also assisted the Planning and Climate Protection Divisions with Winter C¹⁴ sample collection and has added analysis of toxics canisters collected by Air Monitoring at Stanford.

Laboratory	
Sample Analyzed	939
Inter-Laboratory Analyses	2

Source Test

The Source Test Section continued participation in the Air District's Rule Development efforts on calcining, revisions to Regulation 6 and Regulation 12, Rule 15 (Refinery Emissions Tracking); as well as providing assistance in formulating new methodology for testing cooling towers.

Workgroup activities include rule development for heavy liquid service at refineries, PM_{2.5} testing at refineries and approving Regulation 9, Rule 10 CEM installation protocols for Tesoro, Valero, Chevron and Phillips 66 refineries.

Thirteen Regulation 9, Rule 10 CO source tests were done by the Air District's Continuous Emission Monitor (CEM) group:

Two at Phillips 66, nine at Chevron, and two at Tesoro.

Evaluation of EPA's Method 201A and revisions to Method 202 for particulate particle size sampling also continues.

Source Test staff in the Particulate Matter (PM) group observed an EPA Method 201A/202 CPM test conducted at Shell Oil refinery this quarter.

Source Test staff were assigned to create a new method (ST-40) for testing cooling tower water Total Hydrocarbon (THC) emissions at refineries, as well as a corollary sampling procedure (P-1) that will be put into a new volume for the MOP (Vol. IX).

The Source Test Section is assisting the Compliance and Enforcement and Engineering Divisions in establishing analytical criteria for evaluating CEM data of the mercury monitor at Lehigh; as well as evaluating performance specification tests performed at this site's new exhaust stack.

As part of Meteorology, Measurement and Rules Division policy regarding cross training of Air Quality Instrument Specialist (AQIS) staff, Source Test Section AQIS received training on GDF testing and recordkeeping.

Routine Source Test Sections duties continued which includes:

- Performance of Continuous Emissions Monitoring (CEM) Field Accuracy Tests on monitors installed at large source emission points.

- Performance of source tests to determine emissions of precursor organic compounds, filterable particulate matter and toxic air contaminants.
- Performance of tests to assess the compliance status of gasoline cargo tanks, gasoline dispensing facilities, gasoline terminal loading and vapor recovery systems.
- Evaluation of independent contractor conducted source tests to determine report acceptability and source compliance.
- The Phillips 66 Rodeo Refinery's open path monitor monthly reports for December, January, and February were reviewed.

STATISTICS

Administrative Services:

Accounting/Purchasing/Comm.

General Checks Issued	
Purchase Orders Issued	427
Checks/Credit Cards Processed	
Contracts Completed	90
RFP's	2

Executive Office:

Meetings Attended	168
Board Meetings Held	3
Committee Meetings Held	11
Advisory Council Meetings Held	2
Hearing Board Meetings Held	3
Variances Received	1

Information Systems

New Installation Completed	8
PC Upgrades Completed	198
Service Calls Completed	925

Human Resources

Manager/Employee Consultation (Hrs.)	350
Management Projects (Hrs.)	400
Employee/Benefit Transaction	500
Training Sessions Conducted	6
Applications Processed	487
Exams Conducted	11
New Hires	10
Promotions	8
Payroll Administration (Hrs.)	600
Safety Administration	150
Inquiries	4,000

Facility/Vehicle

Request for Facility Service	175
Vehicle Request(s)/Maintenance	79/33

Compliance Assistance and Operations Program

Asbestos Plans Received	1,588
Coating and other Petitions Evaluated	11
Open Burn Notifications Received	741
Prescribed Burn Plans Evaluate	8
Tank/Soil Removal Notifications Received	16
Compliance Assistance Inquiries Received	61
Green Business Reviews	5
Refinery Flare Notifications	24

Compliance Assurance Program

Industrial Inspections Conducted	1,302
Gas Station Inspections Conducted	227
Asbestos Inspections Conducted	593
Open Burning Inspections Conducted	24
PERP Inspections Conducted	66
Mobile Source Inspections	254
Grants Inspections Conducted	290

Engineering Division:

Annual Update Packages Completed	1,203
New Applications Received	280
Authorities to Construct Issued	171
Permits to Operate Issued	263
Exemptions	5
New Facilities Added	125
Registrations (new)	35

Communications and Outreach:

Presentations Made	11
Responses to Media Inquiries	37
Events staffed with Air District Booth	7
Visitors (District Tour)	28

STATISTICS (CONTINUED)

Compliance and Enforcement Division:**Enforcement Program**

Violations Resulting in Notices of Violation	141
Violations Resulting in Notice to Comply	41
New Hearing Board Cases Reviewed	3
Reportable Compliance Activity Investigated	101
General Complaints Investigated	1,506
Smoking Vehicle Complaints Received	595
Woodsmoke Complaints Received	725
Mobile Source Violations	9

Laboratory

Sample Analyzed	939
Inter- Laboratory Analyses	2

Technical Library

Titles Indexed/Cataloged	0
Periodicals Received/Routed	0

Source Test

Cargo Tank Tests Performed	98
Total Source Tests	73
Pending Source Tests	2
Violation Notices Recommended	11
Contractor Source Tests reviewed	3,951
Outside Test Observed	12
Violation Notices Recommended After Review	3

Meteorology Measurements & Rules:**1ST Quarter 2016 Ambient Air Monitoring**

Days Exceeding Nat'l 24-hour PM _{2.5} Std	0
Days Exceeding Nat'l 24-hour PM ₁₀ Std	0
Days Exceeding State 24-hour PM ₁₀ Std	0
Days Exceeding the Nat'l 8-hour Ozone Std	0
Days Exceeding the State 1-hour Ozone Std	0
Days Exceeding the State 8-hour Ozone Std	0

Ozone Totals, Year to Date 2016

Days Exceeding State 1-hour Ozone Std	0
Days Exceeding Nat'l 8-hour Ozone Std	0
Days Exceeding State 8-hour Ozone Std	0

Particulate Totals, Year to Date 2016

Days Exceeding Nat'l 24-hour PM _{2.5} Std	0
Days Exceeding the Nat'l 24-hour PM ₁₀ Std	0
Days Exceeding State 24-hour PM ₁₀ Std	0

PM_{2.5} Winter Season Totals for 2015-2016

Days Exceeding Nat'l 24-hour PM _{2.5} Std	0
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1ST Quarter 2016 Agricultural Burn Days

Jan-Mar Permissive Burn Days – North	77
Jan-Mar No-Burn Days – North	14
Jan-Mar Permissive Burn Days – South	78
Jan-Mar No-Burn Days – South	13
Jan-Mar Permissive Burn Days – Coastal	77
Jan-Mar No Burn Days – Coastal	14

Continuous Emissions Monitoring (CEM)

Indicated Excess Emission Report Eval	24
Monthly CEM Reports Reviewed	117
Indicated Excesses from CEM	48

Ground Level Monitoring (GLM)

Jan-Mar Ground Level Monitoring SO ₂ Excess Reports	0
Jan-Mar Ground Level Monitoring H ₂ S Excess Reports	20

**These Facilities have received one or more Notices of Violations
Report Period: January 1, 2016 – March 31, 2016**

Alameda				
Site Name	Site #	City	Penalty Amount	# of Violations Closed
Asbestos Management Group of California	J9290	Oakland	\$1,250	1
Bluewater Environmental Services	G2645	San Leandro	\$2,500	1
Chevron USA # 0877	X7020	Berkeley	\$1,000	2
Environmental Remedies, Inc	Q5172	Pleasanton	\$2,000	1
Figuroa Tank Lines	T0514	Berkeley	\$1,000	1
Fremont Gasoline	X7693	Fremont	\$250	1
Highland Hospital	A3885	Oakland	\$500	1
Japmun Services LLC	X6552	Castro Valley	\$1,000	1
P. W. Stephens Environmental, Inc.	L6230	Fremont	\$5,000	1
P.W. Stephens Environmental Inc.	V8868	Hayward	\$8,000	3
Pacific Steel Casting Company LLC	A0703	Berkeley	\$1,000	1
Raybern Foods, LLC	E0514	Oakland	\$1,000	1
Southwest Hazard Control, Inc	G2514	San Leandro	\$1,000	1
Unocal SS #3292 (Habrans Sing)	X7510	San Leandro	\$500	1
Total Violations Closed:				17

Contra Costa				
Site Name	Site #	City	Penalty Amount	# of Violations Closed
CES Controlled Environmental Service	Q8806	Oakley	\$7,000	2
Eagle Gas	X7643	Pittsburg	\$24,720	1
Electro Forming Company	A5665	Richmond	\$1,000	1

These Facilities have received one or more Notices of Violations
Report Period: January 1, 2016 – March 31, 2016
(continued)

Contra Costa				
Site Name	Site #	City	Penalty Amount	# of Violations Closed
Flex Oil	V3158	Martinez	\$9,000	1
Fuel & Go	C9518	Antioch	\$14,070	1
John Muir Medical Center	B0742	Walnut Creek	\$1,250	1
Nonstop Investment Inc.	V4538	Concord	\$3,000	1
Ofelia Dimas	W1181	Antioch	\$250	1
Olde World Mill & Cabinet	E1592	Martinez	\$750	2
Qualawash Holdings LLC	B1869	Richmond	\$1,250	1
SFPP, L P	A4022	Concord	\$57,000	7
Tesoro Refining & Marketing Company LLC	B2758	Martinez	\$646,140	44
		Total Violations Closed:		63
Marin				
Site Name	Site #	City	Penalty Amount	# of Violations Closed
BioMarin Pharmaceutical Inc	B7052	Novato	\$500	1
Rino Fairfax Gas Station	X6549	Fairfax	\$1,500	1
		Total Violations Closed:		2

These Facilities have received one or more Notices of Violations
Report Period: January 1, 2016 – March 31, 2016
(continued)

Napa				
Site Name	Site #	City	Penalty Amount	# of Violations Closed
Clifford Reno	W5318	Napa	\$250	1
Total Violations Closed:				1
San Francisco				
Site Name	Site #	City	Penalty Amount	# of Violations Closed
Candlestick Point Development - CP Development	X1736	San Francisco	\$1,500	1
Lennar Urban	W5874	San Francisco	\$3,000	2
Total Violations Closed:				3
San Mateo				
Site Name	Site #	City	Penalty Amount	# of Violations Closed
Blue Line Transfer, Inc	E2099	South San Francisco	\$750	1
Eureka Chemical Company	E3067	South San Francisco	\$1,000	2
Olde English Garage	X8179	Burlingame	\$6,000	2
San Mateo County Youth Services Center	B6930	San Mateo	\$750	1
SFPP, LP	A4021	Brisbane	\$12,500	1
USS Cal Builders (construction company)	X4223	South San Francisco	\$4,000	2
Total Violations Closed:				9

**These Facilities have received one or more Notices of Violations
Report Period: January 1, 2016 – March 31, 2016
(continued)**

Santa Clara				
Site Name	Site #	City	Penalty Amount	# of Violations Closed
Enviromental Systems Inc.	X7021	Santa Clara	\$750	1
Hertz Rental Car	X7116	Santa Clara	\$500	1
Los Gatos Union 76	X7694	Los Gatos	\$750	1
McCarthy Ranch Chevron	X7152	Milpitas	\$750	1
Moksha Coffee Roasting, LLC	E3030	Mountain View	\$3,000	2
Montague Car Wash	X7153	San Jose	\$500	1
North First Union 76	X7069	San Jose	\$750	1
Union 76 #2602488	X7070	Santa Clara	\$500	1
Valero Refining Co # 7624	X7053	Santa Clara	\$500	1
VCA Animal Hospital of Los Gatos	B1459	Los Gatos	\$1,500	1
Z-CON Specialty Services, Inc.	N7663	San Jose	\$2,500	2
Total Violations Closed:				13

Solano				
Site Name	Site #	City	Penalty Amount	# of Violations Closed
ALCO Iron & Metal Company	B7932	Vallejo	\$2,500	1
The Ideal Body Shop	A8720	Vallejo	\$1,000	1
Total Violations Closed:				2

These Facilities have received one or more Notices of Violations
Report Period: January 1, 2016 – March 31, 2016
(continued)

District Wide				
Site Name	Site #	City	Penalty Amount	# of Violations Closed
KAG West, LLC	N1032	West Sacramento	\$4,000	1
Benjamin Macias Barra	X5835	San Diego	\$300	1
		Total Violations Closed:		2

Closed Notice of Violations with Penalties by County January 1, 2016 – March 31, 2016

Alameda				
Status Date	Site #	Site Name	City	Regulation Title
03/02/16	B7638	Intematix Corporation	Fremont	Failure to Meet Permit Conditions
03/09/16	A0094	Cargill Salt	Newark	Limitations on Hydrogen Sulfide
01/12/16	X7460	SSA Terminals-Oakland LLC	Oakland	Secondary Seal Requirements
01/20/16	A1438	Tesla Motors Inc	Fremont	Non-compliance, Major Facility Review
01/20/16	A1438	Tesla Motors Inc	Fremont	Non-compliance, Major Facility Review
01/20/16	A1438	Tesla Motors Inc	Fremont	Non-compliance, Major Facility Review
03/21/16	A0591	East Bay Municipal Utility District	Oakland	Non-compliance, Major Facility Review
01/12/16	X6552	Japmun Services LLC	Castro Valley	Permit to Operate
02/09/16	T0514	Figueroa Tank Lines	Berkeley	Gasoline Cargo Tank Requirements
01/27/16	X7693	Fremont Gasoline	Fremont	Phase II Requirements
01/12/16	X7459	Chevron #97526	Fremont	Phase II Requirements
01/12/16	G2514	Southwest Hazard Control, Inc	San Leandro	Reporting, Demolition and Renovation
03/01/16	L3268	Synergy Enterprises	Hayward	Demolition, Renovation and Removal
02/23/16	J9290	Asbestos Management Group of California	Oakland	Reporting, Demolition and Renovation

Contra Costa				
Status Date	Site #	Site Name	City	Regulation Title
03/02/16	X8398	American Gas	Moraga	Permit to Operate
03/29/16	X8939	San Pablo Kwik Serve	San Pablo	Permit to Operate
02/23/16	A0016	Phillips 66 Company - San Francisco Refinery	Rodeo	Continuous Emission Monitoring and Recordkeeping Procedures
01/07/16	A1840	West Contra Costa County Landfill	Richmond	Ringelmann No. 1 Limitation
02/23/16	A0011	Shell Martinez Refinery	Martinez	Secondary Seal Requirements
03/30/16	A0011	Shell Martinez Refinery	Martinez	Non-compliance, Major Facility Review
02/24/16	A2371	USS-POSCO Industries	Pittsburg	Non-compliance, Major Facility Review
01/25/16	B2758	Tesoro Refining & Marketing Company LLC	Martinez	Limitations on Hydrogen Sulfide
02/25/16	A0091	Chevron Avon Terminal	Martinez	Failure to Meet Permit Conditions
02/01/16	B2758	Tesoro Refining & Marketing Company LLC	Martinez	Limitations on Hydrogen Sulfide
02/03/16	B2758	Tesoro Refining & Marketing Company LLC	Martinez	Limitations on Hydrogen Sulfide
03/16/16	A0010	Chevron Products Company	Richmond	Organic Compounds, Equipment Leaks
01/21/16	A1840	West Contra Costa County Landfill	Richmond	Non-compliance, Major Facility Review
03/22/16	A0010	Chevron Products Company	Richmond	Standards of Perf for New Stationary Sources
03/22/16	A0010	Chevron Products Company	Richmond	Standards of Perf for New Stationary Sources
03/10/16	A7847	Bay Marine Boatworks, Inc	Richmond	Failure to Meet Permit Conditions
01/07/16	A1840	West Contra Costa County Landfill	Richmond	Prohibition of Fires
01/12/16	A1840	West Contra Costa County Landfill	Richmond	Gasoline Cargo Tank Requirements
01/25/16	B1869	Qualawash Holdings LLC	Richmond	Registration
03/07/16	B2758	Tesoro Refining & Marketing Company LLC	Martinez	Determination and Reporting of Cause

Marin County				
Status Date	Site #	Site Name	City	Regulation Title
01/12/16	X6549	Rino Fairfax Gas Station	Fairfax	Failure to Meet Permit Conditions
01/06/16	B7052	BioMarin Pharmaceutical Inc	Novato	Final Emissions Limits

Sacramento				
Status Date	Site #	Site Name	City	Regulation Title
03/30/16	X9162	PacWest Tank Lines	Sacramento	Gasoline Cargo Tank Requirements

Closed Notice of Violations with Penalties by County
January 1, 2016 – March 31, 2016
(continued)

San Francisco				
Status Date	Site #	Site Name	City	Regulation Title
01/19/16	N4857	Void Site	San Francisco	Requirements for Pressure Vacuum Valves
02/01/16	X7765	CP DEVCO C/O Lennar Urban	San Francisco	N/A
02/01/16	V4878	The John Stewart Company	San Francisco	N/A
02/01/16	X7764	HPSDEVCO, LP	San Francisco	N/A
01/12/16	X7457	Quinlan Construction	San Francisco	Demolition, Renovation and Removal
01/12/16	X7457	Quinlan Construction	San Francisco	Reporting, Demolition and Renovation
San Mateo				
Status Date	Site #	Site Name	City	Regulation Title
01/27/16	A1632	Guittard Chocolate Company	Burlingame	Failure to Meet Permit Conditions
Santa Clara				
Status Date	Site #	Site Name	City	Regulation Title
02/03/16	A5472	BFI Newby Island Recycler	Milpitas	Public Nuisance
02/03/16	A9013	International Disposal Corp of CA	Milpitas	Public Nuisance
03/23/16	X8823	88 Auto Body	Santa Clara	Monitoring and Records
03/29/16	X8948	Belgcars	Santa Clara	Authority to Construct
03/29/16	X8948	Belgcars	Santa Clara	Permit to Operate
03/22/16	A1524	Mission Power Coating, Inc	Gilroy	Surface Preparation Standards
03/15/16	Q2991	GN Renn Inc.	Gilroy	Gasoline Cargo Tank Requirements
03/15/16	Q2991	GN Renn Inc.	Gilroy	Gasoline Cargo Tank Requirements
01/27/16	X7694	Los Gatos Union 76	Los Gatos	Permit to Operate
01/06/16	V7099	Tammy Romero	Cupertino	Ringelmann No. 1 Limitation
Solano				
Status Date	Site #	Site Name	City	Regulation Title
01/12/16	B2626	Valero Refining Company - California	Benicia	Non-compliance, Major Facility Review
03/22/16	A7618	Nexeo Solutions, LLC	Fairfield	Phase II Requirements
Sonoma				
Status Date	Site #	Site Name	City	Regulation Title
03/30/16	E2554	Absolute Customs	Rohnert Park	Authority to Construct
01/27/16	A1889	Hunt And Behrens, Inc	Petaluma	Initial Demonstration of Compliance
02/01/16	A2254	Republic Services of Sonoma County, Inc	Petaluma	Landfill Surface Requirements
03/02/16	A2254	Republic Services of Sonoma County, Inc	Petaluma	Gasoline Cargo Tank Requirements
03/02/16	A2254	Republic Services of Sonoma County, Inc	Petaluma	Gasoline Cargo Tank Requirements
03/22/16	B6047	Graphic Enterprises, Inc dba: Chromagraphics	Santa Rosa	Organic Coomounds, Printing and Coating Operations
03/14/16	X8619	Wung J.	Santa Rosa	Prohibition of Fires
Yolo				
Status Date	Site #	Site Name	City	Regulation Title
01/12/16	N1032	KAG West, LLC	West Sacramento	Gasoline Cargo Tank Requirements

Bay Area Air Quality Management District

Board of Directors

LIST OF ACRONYMS

AA	Annual Average
AAMP	Ambient Air Monitoring Program
AB32	Assembly Bill 32 – Global Warming Solutions Act
Al	Aluminium
Al ₂ O ₃	Alumina (Aluminium Oxide)
AlF ₃	Aluminium Fluoride
AIRS	Aeromatic Information Retrieval System
AIRMoN	Atmospheric Integrated Research Monitoring Network
ALAPCO	Association of Local Air Pollution Control Officials
Aluminium Plant	Carbon Plant, Reduction Plant, Casthouse, Anode Service Area, and related utilities
Air District	Bay Area Air Quality Management District
AMTAC	ARB Air Monitoring Technical Advisory Committee
AMTIC	Air Monitoring Technology Information Center
ANPR	Advanced Notice of Proposed Rulemaking
APCD	Air Pollution Control District
APCO	Air Pollution Control Officer
API	American Petroleum Institute
APTI	Air Pollution Technology Institute
ARB	California Air Resources Board
ARM	Area Recognized Method
AQI	Air Quality Index
AQIS	Air Quality Instrument Specialist
AQS	EPA's Air Quality (data) System
AQRS	Air Quality Research Subcommittee
AQTA	Air Quality Technical Assistant
ARM	Approved Regional Method
ASA	Anode Service Area
ASP	Anode Service Plant
ASTCM	Astrodynamics Common
ASTM	American Society for Testing and Materials
AWMA	Air and Waste Management Association
BAAQMD	Bay Area Air Quality Management District
BAM	Beta Attenuation Monitor
BAM	Beta-Attenuation Metre
BAT(NEEC)	Best Available Techniques (Not Entailing Excessive Cost)
BC	Black carbon
BC	Background Concentration
BCP	Best Current Practice
BGI	BGI, Incorporated
BPT	Best Practicable Technology
BRC	Background Reference Concentration
bgl	Below ground level

BOD	Biochemical Oxygen Demand
BPEO	Best Practicable Environmental Option
BREF note	Best Available Techniques Reference Document
btc	Below top of casing
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
°C	Degrees Celsius
C	Carbon
CaO	Lime (calcium oxide)
CAA	(Federal) Clean Air Act
CAC	Correlating Acceptable Continuous (monitor)
CAIR	Clean Air Interstate Rule
CAP	Clean Air Plan
CARB	California Air Resources Board
CARE	Community Air Risk Evaluation
CASAC	Clean Air Science Advisory Committee
CAS	Chemical Abstracts Service (a chemical reference number)
CASTNET	Clean Air Status and Trends Network
CBSA	Core Based Statistical Area
CCC	Criteria Continuous Concentration
CCP	Carbon Crushing Plant
Cd	Cadmium
CD	Chart Datum
CDM	Clean Development Mechanism
CEM	Continuous Emissions Monitoring
CENR	Committee for Environment and Natural Resources
CEQA	California Environmental Quality Act
CEU	Continuing Education Unit
CFR	U.S. Code of Federal Regulations
CH ₄	Methane
Cl ⁻	Chloride(s)
CI	Confidence Interval
CMAQ	Community Model Air Quality (system)
CMC	Criteria Maximum Concentration
CN	Cyanide
CO	Carbon monoxide
CO ₂	Carbon Dioxide
CoC	Chain of custody
COD	Chemical Oxygen Demand
COH	Coefficient of Haze
Cr(VI)	Chromium (hexavalent)
CREL	Chronic Reference Exposure Level
CRPAQS	Central Valley (California) Regional Particulate Air Quality Study
CRRP	Community Risk Reduction Program
CSN	Chemical Speciation Network
CSR	Corporate Social Responsibility
CV	Coefficient of variation
CWMP	Construction Waste Management Plan
CY	Calendar Year
Cu	Copper
DAS	Data Acquisition System

dB(A)	‘A’ weighted decibel noise level
dBL _{Aeq}	‘A’ weighted energy-equivalent decibel noise level
DC	Direct Current
DEARS	Detroit Exposure and Aerosol Research Study
DHS	Department of Homeland Security
District	Bay Area Air Quality Management District
DIV	Dutch Intervention Values
DMC	Data Management Center
DMS	Data management system
DNPB	2, 4-dinitrophenyl hydrazine
DO	Dissolved Oxygen
DOE	Department of Energy
DOI	Department of Interior
DQA	Data Quality Assessment
DQI	Data Quality Indicators
DQO	Data Quality Objectives
DRI	Direct Reduction Iron
DTV	Dutch Target Values
DVM	Digital Voltmeter
EC	European Commission
EC/OC	Elemental carbon/organic carbon
EECS	Electrical Equipment Calibration Service (in Fremont, CA)
EI	Extrusion Ingots
EIA	Environmental Impact Assessment
EML	Environmental Measurements Laboratory
EMP	Environmental Management Plan
EPA	U.S. Environmental Protection Agency
EPC	Engineering, Procurement and Construction
EPS	Environmental Protection Standards
EQS	Environmental Quality Standard
ESAT	Environmental Services Assistance Team
ET	Enviro Technology
EU	European Union
F-	Fluoride(s)
FA	Foundry Alloy
FEM	Federal Equivalent Method
FLM	Federal Land Manager
FMP	Flare Minimization Plan
FRM	Federal Reference Method
FTP	Fume Treatment Plant
FY	Fiscal Year
g/s	Grams per second
GAO	General Accounting Office
GC	Gas Chromatograph
GC-MS	Gas Chromatography-Mass Spectrometry
GDP	Gross Domestic Product
GHG(s)	Greenhouse Gas(es)
GIS	Geographical Information System
GLM	Ground Level Monitoring
GMW	General Metal Works (PM ₁₀ sampler manufacturer)

GPS	Global Positioning System
GWP	Global Warming Potential
H ₂ S	Hydrogen sulfide
HAL 275	Norsk Hydro Reduction Technology
HAP	Hazardous Air Pollutants
HAZID	Hazard Identification
HC	Hydrocarbon
HCl	Hydrogen chloride
HEI	Health Effects Institute
HF	Hydrogen fluoride
HPLC	High Performance Liquid Chromatograph
HSE	Health, Safety and Environment
HTM	Heating Transfer Medium
Hydro	Norsk Hydro ASA
IACET	International Association for Continuing Education and Training
IADN	Interagency Deposition Network
IC	Ion Chromatography
ICR	Information Collection Request
IEA	Initial Environmental Authorization
IFC	International Finance Corporation
ILSC	Indicative Levels of Serious Contamination
IMPROVE	Interagency Monitoring of Protected Visual Environments
IPP	Independent Power Producer
ISQG	Interim Sediment Quality Standard
ISR	Indirect Source Rule
ITEP	Institute of Tribal Environmental Professionals
ITT	Information Transfer Technology
JV	Joint Venture
K	Kelvin
K	Thousand
km	kilometer
kV	Kilovolt
kt/yr	Thousands of tons per year
kPa	Thousand Pascal
l	Litre
LC-50	Lethal Concentration of a chemical which kills 50% of a sample population
Leq	Unweighted energy-equivalent noise level
LCS	Laboratory Control Sample
LDAR	Leak Detection and Repair
LLD	Lower Limit of Detection
LNB	Low NO _x Burner
LOD	Limit of Detection
LOQ	Limit of Quantitation
lpm	Liters per minute
l/s	Litres per second
L _{WA}	'A' weighted sound power level
M	Million
m	Metre
m/s	Metres per second

m ³ /s	Cubic metres per second
MAC	Maximum Allowable Concentration
MANE-VU	Mid-Atlantic/Northeast Visibility Union
MDL	Method Detection Limit
MDN	Mercury Deposition Network
MEI	Ministry of Energy and Industry
MET/PE	Meteorology and Performance Evaluation
mg/kg	Milligrams per kilogram
mg/l	Milligrams per litre
mg/m ³	Milligrams per cubic metre
mg/Nm ³	Milligrams per normal cubic metre (i.e. expressed at 273K and 101.3 kPa); in the case of gas turbines, gas volumes in units on “Nm ³ ” are also expressed as dry gas, at 15% O ₂ .
MHWTC	Mesaieed Hazardous Waste Treatment Centre
MIC	Mesaieed Industrial City
ml	Millilitre
MMAA	Ministry of Municipal Affairs and Agriculture
MMWDS	Mesaieed Municipal Waste Disposal Site
MPA	Maximum Permissible Addition
MPC	Maximum Permissible Concentration
MQA	Meteorology and Quality Assurance
MS	Matrix spikes
MSm ³	Million standard cubic metres
MW	Megawatts
MWe	Megawatts electrical (electrical output)
MWth	Megawatts thermal (thermal input)
N	Nitrogen
NAAQS	National Ambient Air Quality Standard
Na	Sodium
NAAMS	National Ambient Air Monitoring System
NAATS	National Ambient Air Toxics Sites
NACAA	National Association of Clean Air Agencies
NADP	National Atmospheric Deposition Program
NAMS	National Air Monitoring Station
Na ₃ AlF ₆	Cryolite
NaCl	Sodium chloride (salt)
NAPAP	National Acid Precipitation Assessment Program
NARSTO	North American Research Strategy for Tropospheric Ozone
NAS	National Academy of Science
NASA	National Aeronautics and Space Agency
NATTS	National Ambient Toxic Tends Stations
NAU	Northern Arizona University
NCore	The National Core Monitoring Network
NDIR	non-dispersive infrared
NDUV	Non-dispersive ultraviolet
NEC	No Effect Concentration
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NGO	Non-Governmental Organizations
Ni	Nickel
NILU	Norwegian Institute for Air Research

NISO	North Isomax
NIST	National Institute for Standards and Technology
Nm ³	Normal cubic metre (i.e. expressed at 237K and 101.3 kPa); in the case of gas turbines, gas volumes in units of “Nm ³ ” are also expressed as dry gas, at 15% O ₂ .
Nm ³ /s	Normal cubic metre per second (i.e. expressed at 237K and 101.3 kPa); in the case of gas turbines, gas volumes in units of “Nm ³ ” are also expressed as dry gas, at 15% O ₂ .
NMHC	Non-Methane Hydrocarbons
NMSC	National Monitoring Strategy (or Steering) Committee
NMVOC	Non-Methane Volatile Organic Compounds
N ₂ O	Nitrous Oxide
NO _y	Odd Nitrogen
NIOSH	National Institute for Occupational Safety and Health
NIST	National Institute of Standards and Technology
NO	Nitrogen monoxide/Nitric oxide
NO ₂	Nitrogen dioxide
NO _x	Oxides of nitrogen
NOAA	National Oceanic and Atmospheric Administration
NMHC	Non-methane hydrocarbon
NMOC	Non-methane organic carbon
NO _x /NO _y	Nitrogen Oxides
NPAP	EPA National Performance Audit Program
NPEP	National Performance Evaluation Program
NPS	National Parks Service
NTN	National Trends Network
NTU	Nephelometric Turbidity Units
NVLAP	National Voluntary Laboratory Accreditation Program
O ₂	Oxygen
O ₃	Ozone
OAP	Office of Atmospheric Programs
OAQPS	Office of Air Quality Planning and Standards
OAR	Office of Air and Radiation
OC	Organic Carbon
OC/EC	Organic carbon/elemental carbon
ODAMN	Operations Data Action Monitoring Notification
OEHHA	Office of Environmental Health Hazard Assessment
OEI	Office of Environmental Information
ORD	Office of Research and Development
ORIA	Office of Radiation and Indoor Air
P	Phosphorous
P	Power
PAHs	Polycyclic Aromatic Hydrocarbons
PAMS	Photochemical Assessment Monitoring Stations
Pb	Lead
PBMS	Performance-Based Measurement System
PBT	Persistent Bioaccumulative Toxics
PCBs	Polychlorinated Byphenyls
PCC	Petrochemical Complex
PE	Performance Evaluation

PEP	Performance Evaluation Program
PEL	Probable Effect Level
PFC	Polyfluorocarbons
PM	Particulate matter
PM ₁₀	Particulate matter with mean aerodynamic diameter of 10 microns
PM _{2.5}	Particulate matter with mean aerodynamic diameter of 2.5 microns
PM _{10-2.5}	PM ₁₀ minus PM _{2.5}
PO	Purchase Order
POCP	Photochemical Ozone Creation Potential
POP	Persistent Organic pollutants
ppb	Parts per billion
PPAH	Pollution Prevention and Abatement Handbook
ppb (v)(w)	Parts per billion (volume) (weight)
ppm (v) (w)	Parts per million (volume) (weight)
ppt (v) (w)	Parts per thousand (volume) (weight)
PQAO	Primary Quality Assurance Organization
PSD	Prevention of significant deterioration
QA	Quality Assessment
QAFAC	Qatar Additives Company
QAFCO	Qatar Fertiliser Company
QASCO	Qatar Steel Company Ltd
Qatalum	The Hydro/QP Aluminium and Power Plant Project
QAPP	Quality Assurance Project/Program Plan
QC	Quality Control
QEWG	Qatar Electricity and Water Company
QMP	Quality Management Plan
QNHD	Qatar National Height Datum (QNHD is ~1.3 m above Chart Datum)
QP	Qatar Petroleum
RADM	Regional Acid Deposition Model
RCA	Reportable Compliance Activity
RCEP	Royal Commission on Environmental Pollution
REL	Reference Exposure Level
REM	Regional Equivalent Monitor
RO	EPA Regional Office
ROG	Reactive Organic Gases
ROM	Regional Oxidant Model
ROPME	Regional Organisation for Protection of the Marine Environment
RPO	Regional Planning Organization
RTD	Resistance Temperature Detector
RTP	Research Triangle Park (North Carolina)
RTI	Research Triangle Institute, a research/consulting company
RTO	Regenerative Thermal Oxidiser
S	Sulphur
S&T	Science and Technology
SAB	Science Advisory Board
SAMWG	Standing Air Monitoring Work Group
SAP	Socio-Economic Action Plan
SASP	Surface Air Sampling Program
SARC	Scientific and Applied Research Centre
SB 375	Sustainable Communities and Climate Protection Act of 2008

SCAQMD	South Coast Air Quality Management District
SCENR/SCE	Supreme Council for the Environment & Natural Reserves
SIP	State Implementation Plan
SISO	South Isomax
SLAMS	State or Local Air Monitoring Station
SLTs	State, Local, and Tribal air monitoring agencies
SO ₂	Sulfur dioxide
SOP	Standard operating procedure
SPL	Spent Potlining
SPM	Special Purpose Monitor
SRP	Standard Reference Photometer
SS	Supersite
SSEIA	Scoping Study for Environmental Impact Assessment Report
STAG	State and Tribal Air Grant
STAPPA	State and Territorial Air Pollution Program Administrators
STN	Speciation Trends Network
Strategy	The National Air Monitoring Strategy
SVOC	Semi-Volatile Organic Compound
SWS	Seawater Scrubber
t/d	Tonnes per day
t/h	Tonnes per hour
t/yr	Tonnes per year
TAMS	Tribal Air Monitoring Support (Center)
TAD	Technical Assistance Document
TAR	Tribal Authority Rule
TBD	To Be Determined
TECO	Thermo Electron Corporation, now Thermo Fisher Scientific
TEOM	Tapered Element Oscillation Monitor
THC	Total hydrocarbons
TIP	Tribal Implementation Plan
TNMHC	Total non-methane hydrocarbons
TNMOC	Total non-methane Organic Compound
TOC	Total Organic Carbon
TOM	Total Organic Matter
Tpd	Tons per day
TPH	Total Petroleum Hydrocarbons
TPY	Tons Per Year
TSA	Technical systems audits
TSD	Technical Services Division
TSP	Total suspended particulates
TSS	Total Suspended Solids
T-REX	Traffic Related Exposure Study
TWA	Time Weighted Average
UAM	Urban Airshed Model
UFP	Ultrafine Particulate Matter
UN	United Nations
UNEP	UN Environmental Program
USB	Universal Serial Bus
US EPA	United States Environmental Protection Agency
UV	Ultraviolet

VDC	Vertical Direct Chill (Casting Machines)
VOC	Volatile Organic Compounds
WB	World Bank
WBT	Wet Bulb Temperature
WB PPAH	WB Pollution Prevention and Abatement Handbook
WHO	World Health Organization
WMP	Waste Management Plan
XML	Extensible Markup Language
ΔT	Temperature differential
$\mu\text{g/l}$	Microgrammes per litre
$\mu\text{g/m}^3$	Micrograms (one millionth of a gram) per cubic metre
μm	Micrometers
$\mu\text{M/l}$	Micromoles per litre

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 2, 2016

Re: Authorize the Executive Officer/APCO to Enter into a Contract with Hogue Inc., for Additional Furniture and Ergonomic Equipment in an Amount not to Exceed \$200,000

RECOMMENDED ACTION

The Board of Directors will consider authorizing the Executive Officer/APCO to enter into a contract with Hogue Inc., for ongoing and additional furniture and ergonomic equipment (e.g., keyboard trays, sit/stand desks, shelving, file cabinets etc.) in an amount not to exceed \$200,000.

BACKGROUND

The Bay Area Air Quality Management District (Air District), the Metropolitan Transportation Commission and the Association of Bay Area Governments are now working on the last steps towards the agencies' moves to 375 Beale Street.

In April, 2014 the Board of Directors authorized the Executive Officer/APCO to reimburse the Bay Area Headquarters Authority (BAHA) for change orders and third party services in the development and operations of the space at 375 Beale Street in an amount not to exceed \$500,000. The Air District now has a need to contract with a furniture vendor directly for ongoing regular and ergonomic furniture and equipment needs of the Agency.

DISCUSSION

The Air District will move its headquarters to 375 Beale Street effective Tuesday, May 31, 2016. All construction activities and basic furniture installations of the Air District's space has been completed by BAHA. The Air District will no longer reimburse BAHA for furniture needed in its agency space. Instead, the Air District will contract with the furniture vendor directly for additional and future furniture needs of the Agency.

Hogue, Inc. was chosen by BAHA through a Request for Proposals (RFP) and Board approval in January, 2014 (attachment 1). Hogue, Inc. was chosen to furnish all furniture services over the next 10+ years for the agencies. The RFP also required that the vendor extend its pricing for additional purchases that the Air District would make under separate agency purchase orders for any new requirements of additional or future furniture needs.

BUDGET CONSIDERATIONS/FINANCIAL IMPACTS

None. Costs for this contract are already contemplated in the Fiscal Year Ending (FYE) 2016 budget.

Respectfully,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Mary Ann Okpalaugo
Reviewed by: Rex Sanders

Attachment: June 18, 2014 Bay Area Headquarters Authority Memo Regarding Contract – Furniture Procurement Services: Hogue and Associates (\$500,000)

Agenda Item 5

TO: Bay Area Headquarters Authority

DATE: June 18, 2014

FR: Executive Director

W. I. 9130

RE: Contract - Furniture Procurement Services: Hogue and Associates (\$500,000)

This item would authorize the Executive Director or designee to negotiate and enter into a long-term contact with Hogue and Associates to design, procure and install office, public space and other ancillary furniture for the Regional Agency Headquarters Facility at 375 Beale Street, San Francisco. The scope includes approximately 550 office/workstations and 50 conference rooms/collaboration areas at an estimated total furniture cost of \$4.0 Million. The contract for the initial scope is for an amount not to exceed \$500,000 which allows the furniture design process to commence. When completed in the fall, staff will request authorization to issue purchase order(s) for furniture purchases and installation.

Background

As part of an agreement with the partner agencies, BAHA is obligated to provide furniture for agency (ABAG, Air District and MTC) spaces at move-in. BAHA will handle all matters related to this initial procurement and transfer assets to each agency according to its ownership interests.

On January 17, 2014, BAHA issued a Request for Proposals (RFP) and received proposals from four (4) Dealer and Manufacturer Teams (“Dealer Team”). The selected Dealer Team is expected to furnish all services over the next 10+ years, as described in Attachment A. The RFP also requires that the Dealer Team extend pricing for additional purchases that MTC, ABAG or the Air District would make under separate agency purchase orders for any new requirements.

Evaluation Results

More detailed information on the evaluation process is included in Attachment B with the Dealer Team’s overall final scores based on their written proposals, Mock-up solutions and BAFOs summarized as follows:

Proposer	Hogue/ Knoll	One Work Place Steelcase	Pivot/Herma Miller	Sidemark/ Teknion
Pricing (max 215 points)	185	181	159	193
Solution (max 150 points)	137	80	106	128
Key Personnel (max 75 points)	63	64	59	36
Other Factors (max 60 points)	60	60	57	55
Total (max 500 points)	445	385	381	412
Solution Pricing (Estimated Budget \$1.7 Million)*	\$1,526,663	\$1,416,688	\$1,580,838	\$1,426,556

**The pricing excludes professional services fees, delivery, installation, sales tax and bid bonding*

Panel Recommendation

The five member evaluation panel included representatives from BAHA, MTC, ABAG, the Air District and Tom Eliot Fisch (Interior Designers), recommends Hogue and Associates/Knoll Inc. as the Dealer most advantageous to BAHA based on the evaluation criteria stated in the RFP for the following reasons:

- Founded in 1974, Hogue and Associates is a commercial furniture dealership and project management firm and the preferred dealer representing Knoll Inc., both with offices in San Francisco for the past 40 years.
- The proposed furniture line was introduced in 1998 and has an installed base exceeding \$5.0 billion. Based on the review of the on-site mock-ups, the furniture sets a bar for quality in design and materials and exemplifies a professional look and feel.
- The Project Team includes experienced professionals with a portfolio of similar projects over \$1.0 million including Dreamworks (\$3.8 million), Stanford University (\$6.0 million) and Medivation (\$2.8 million).
- While the solution pricing fits within the BAHA budget, staff expects to review and refine the discounting schedules/mark-ups during the contract negotiations to ensure BAHA is indeed getting the best pricing structure for this project.

If contract negotiations are not successful with Hogue and Associates, staff recommends authorization to commence negotiations with Sidemark Corporation Furniture, a preferred dealer representing Teknion LLC; both with offices in San Francisco. Sidemark Corporation Furniture received comparable scores in pricing and the proposed solution, but lower team experience scores as there were major changes to the key personnel assigned to the BAHA project during the evaluation period.

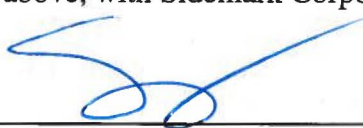
Next Steps

Upon approval of the contract award, staff will enter into negotiations with the recommended Dealer Team to finalize the scope of work, project plan, furniture designs including finishes and pricing. Once completed, staff will seek BAHA approval to fund and issue purchase order(s) for the furniture purchases and installation.

Recommendation

Staff recommends Authority approval authorizing the Executive Director or his designee for the following:

1. To negotiate and enter into a 10 year professional services agreement with Hogue and Associates to provide services related to the design, procurement, coordination and installation of office and other ancillary furniture for the 375 Beale Street building, with an option to extend the contract up to two (2) additional five-year periods, subject to mutually agreeable pricing/discounting schedules and the allocation of funding in the BAHA annual operating budget. The initial contract for Phase I services is not to exceed \$500,000 for such contract.
2. If contract negotiations are not successful, BAHA requests authorization to commence negotiations and enter into an agreement, as stated above, with Sidemark Corporate Furniture which received the second highest evaluation.



Steve Heminger

SH:tg

Attachments

REQUEST FOR AUTHORITY APPROVAL

Summary of Proposed Consultant Contract

Consultant: Hogue and Associates (San Francisco)

Work Project Title: 375 Beale Street Furniture Dealer/Manufacturer Services

Purpose of Project: Provide services to design, procure and install office, public space and other ancillary furniture for 375 Beale Street

Brief Scope of Work: Provide services related to the procurement of new office and other ancillary furniture for the 375 Beale Street building.

Project Cost Not to Exceed: \$500,000 for Phase I professional services costs related to the design of new office furniture for the Agency offices

Funding Source: BAHA FY 13-14 Budget

Fiscal Impact: Funding is included in BAHA's FY 2013-14 Budget

Motion by Committee: That the Executive Director, or his designee, is authorized to negotiate and enter into a 10 year professional services agreement with Hogue and Associates to provide services related to the design, procurement, coordination and installation of office and other ancillary furniture for the 375 Beale Street building, with an option to extend the contract up to two (2) additional five year periods, subject to mutually agreeable pricing/discounting schedules and the allocation of funding in the BAHA annual operating budget, as described in the Executive Director's memorandum dated June 11, 2014 and the Treasurer and Auditor is directed to set aside Phase I funding in the amount of \$500,000 for such contract.

If BAHA is unable to enter into a contract with Hogue and Associates, the Executive Director, or his designee, is authorized to negotiate and enter into a 10 year professional services agreement with Sidemark Corporate Furniture, as stated above, and the Treasurer and Auditor is directed to set aside Phase I funding in the amount of \$500,000 for such contract.

BAHA Chair:

Amy Rein Worth

Approved:

Date: June 25, 2014

Agenda Item 5 - Attachment A

PRELIMINARY SCOPE OF WORK

The preliminary project tasks are expected to include, but are not limited to, the following:

General:

- Provide project administration, supervision and ongoing support services needed for initial purchase and any future orders or upgrades. Maintain current project schedules to track all processes involved in design, manufacturing and installation of furniture.
- Coordinate with General Contractor, its subcontractors and BAHA service providers as required.
- Maintain complete documentation of purchased orders, purchased inventory and current installation plans for use when future orders or upgrades are undertaken.

During the Design Phase:

- Meet with BAHA and BAHA's representatives weekly to review plans, specifications and all other tasks required to develop furniture orders. Prepare furniture plans for all floors based on backgrounds provided by Architect.
- Test-fit and verify critical dimensions of walls, power/data outlets and other related items at 375 Beale Street and coordinate with the General Contractor and other contractors/dealers.

During the Manufacturing Phase:

- Track and coordinate all furniture orders/deposits and provide a bi-monthly schedule update. Coordinate all submittals and other required approvals with Architect. Attend weekly construction meetings on an on-call basis. Secure all necessary permits required by the Local Code Jurisdiction.

During the Installation Phase:

- Provide an on-site project manager during the installation to supervise installation activities, including any subcontracted work. Perform as needed punch-lists and provide a schedule for the completion of the punch list items to the satisfaction of BAHA.

During the Post-Installation Phase:

- Lead a furniture punch-list review with BAHA and BAHA's representative and resolve all items within two weeks or as soon as practical for long-lead replacement items. Prepare as-built drawings and provide them in both electronic and hard-copy formats. Provide orientation and training for staff assigned to maintain new furniture. Provide a post-occupancy review within one (1) month of installation finish to address any outstanding issues.

Ongoing Support:

- Manufacturer/Dealer team will be expected to provide services and product when future orders or upgrades are undertaken.

Agenda Item 5 - Attachment A

PRELIMINARY SCOPE OF WORK

The preliminary project tasks are expected to include, but are not limited to, the following:

General:

- Provide project administration, supervision and ongoing support services needed for initial purchase and any future orders or upgrades. Maintain current project schedules to track all processes involved in design, manufacturing and installation of furniture.
- Coordinate with General Contractor, its subcontractors and BAHA service providers as required.
- Maintain complete documentation of purchased orders, purchased inventory and current installation plans for use when future orders or upgrades are undertaken.

During the Design Phase:

- Meet with BAHA and BAHA's representatives weekly to review plans, specifications and all other tasks required to develop furniture orders. Prepare furniture plans for all floors based on backgrounds provided by Architect.
- Test-fit and verify critical dimensions of walls, power/data outlets and other related items at 375 Beale Street and coordinate with the General Contractor and other contractors/dealers.

During the Manufacturing Phase:

- Track and coordinate all furniture orders/deposits and provide a bi-monthly schedule update. Coordinate all submittals and other required approvals with Architect. Attend weekly construction meetings on an on-call basis. Secure all necessary permits required by the Local Code Jurisdiction.

During the Installation Phase:

- Provide an on-site project manager during the installation to supervise installation activities, including any subcontracted work. Perform as needed punch-lists and provide a schedule for the completion of the punch list items to the satisfaction of BAHA.

During the Post-Installation Phase:

- Lead a furniture punch-list review with BAHA and BAHA's representative and resolve all items within two weeks or as soon as practical for long-lead replacement items. Prepare as-built drawings and provide them in both electronic and hard-copy formats. Provide orientation and training for staff assigned to maintain new furniture. Provide a post-occupancy review within one (1) month of installation finish to address any outstanding issues.

Ongoing Support:

- Manufacturer/Dealer team will be expected to provide services and product when future orders or upgrades are undertaken.

Agenda Item 5 - Attachment B

PROCUREMENT AND EVALUTION PROCESS

Procurement Process

On January 17, 2014, BAHA issued a Request for Proposal (RFP) with the goal of entering into a professional services agreement with a Dealer, that represents a major furniture manufacturer, based on a pricing/discounting structure that can be applied to products drawn from the manufacturer's major lines, as well as establishing a fixed gross profit mark-up for other ancillary furniture drawn from "open line" products provided by other furniture manufacturers.

The RFP included a prototype detailing BAHA's requirements (e.g. panel height, surfaces, shelving and guest seating) for a pair of 8-foot by 10-foot workstations and one typical 100 square-foot private office.

By the proposal due date of February 5, 2014, BAHA received four proposals from the following Dealer Teams: Hogue and Associates/Knoll Inc., One Work Place L. Ferrari/Steelcase, Pivot Interiors, Inc./Herman Miller and Sidemark Corporate Furniture/Teknion LLC.

Initial Evaluation and Shortlisting

The five member evaluation panel included representatives from BAHA, MTC, ABAG, the Air District and Tom Eliot Fisch (Interior Designers). The evaluation panel provided written comments to the Dealers on a portion of their proposals which included their solutions and pricing submittals. Dealer responses to these comments were evaluated based on the following initial evaluation factors:

- Effectiveness of proposed solution, including aesthetics; and
- Pricing of proposed solution.

All four of the Dealers were shortlisted to proceed to the next phase.

Evaluation Process

The Dealer Teams were then invited to install one office and two workstation mock-ups onsite at 375 Beale Street. The mock-ups provided the evaluation panel an opportunity to further review the effectiveness of the proposed solution (i.e. design, functionality, comfort and other aesthetics).

On April 1st and 2nd, Agency staff attended a Furniture Fair to provide feedback on functionality, comfort, storage, visual privacy and meeting space. The fair was attended by 238 employees, representing 46% of the combined agency staff. Staff feedback included desires for more "visual privacy" by incorporating opaque/patterned (rather than clear) glass on top of the panels separating the workstations. This will be weighed against the need to bring light into the deep floor plate. Staff feedback for the selected furniture line will be analyzed during the design phase and incorporated into the final plans. Attachment C includes pictures of the furniture fair at 375 Beale Street.

Following the mock-up presentations by the Dealer Teams, BAHA issued a Request for Best and Final Offers (BAFOs) on May 1, 2014 to all four proposers, who were given the opportunity to revise their written proposals to address the concerns identified by the evaluation panel about the written proposals and proposed mock-up solutions, or to make any other changes. Following receipt of the BAFOs and clarifications, the evaluation panel completed its final evaluation based on the following criteria, in order of relative importance.

A maximum total of 100 points (per evaluator) or 500 combined points (five evaluators combined) could be assigned:

Category	Max. Points	Evaluation Criteria
Pricing	43	<ul style="list-style-type: none">• Pricing of proposed solution (max. 25 points);• Discounting schedule for primary lines (max. 11 points);• Gross profit markup for open line ancillary products (max. 7 points).
Solution	30	<ul style="list-style-type: none">• Effectiveness of proposed solution, including aesthetics (max. 30 points).
Key Personnel	15	<ul style="list-style-type: none">• Team experience and approach to partnering with BAHA (max. 15 points).
Other Factors	12	<ul style="list-style-type: none">• Product stability (max. 5 points);• Warranty (max. 4 points);• Sustainability (max. 3 points).
Maximum Total Points	100	

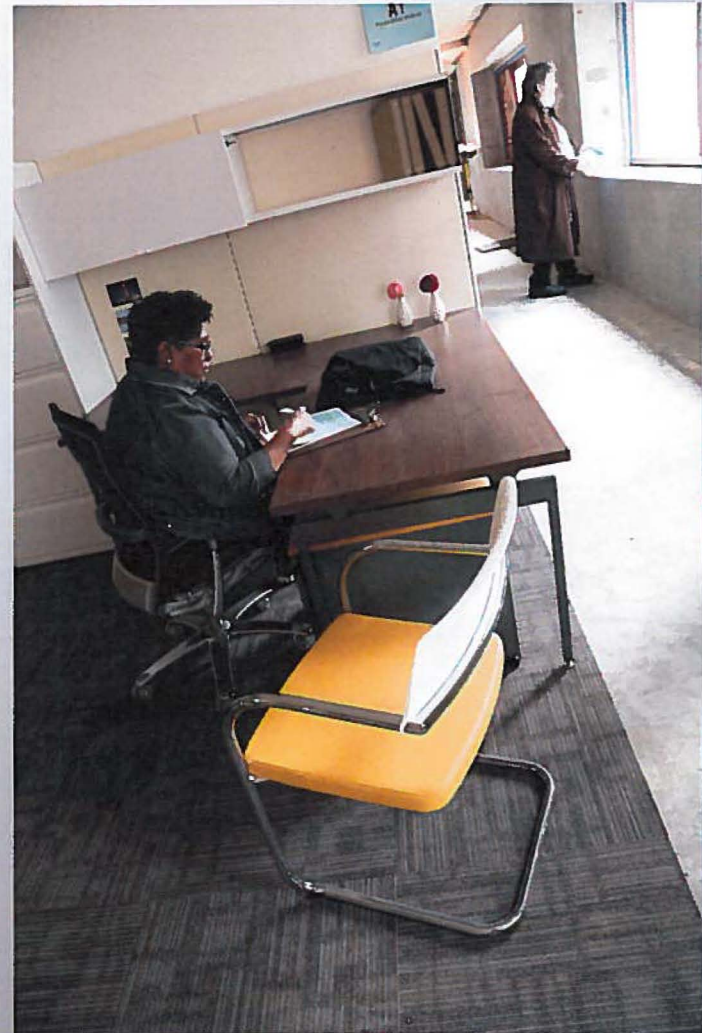
Furniture Fair



Staff Feedback



Attachment B



Office Option



Attachment B

Workstation Options



Filing versus Seating



Clear versus Opaque Glass



Attachment B



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 4, 2016

Re: Consider Authorization of a Purchase Order in Excess of \$70,000 Pursuant to
Administrative Code Division II Fiscal Policies and Procedures, Section 4.3 Contract
Limitations for Purchase of Greenhouse Gas (GHG) Measurement Equipment

RECOMMENDED ACTION

The Board of Directors will consider authorizing the Executive Officer/APCO to execute a purchase order to Picarro, Inc. in the amount of \$80,619.95 for GHG measurement equipment.

BACKGROUND

On April 2, 2014, the Board of Directors approved the 10-Point Climate Action Work Program, which includes updating the Air District's inventorying and forecasting of greenhouse gas (GHG) emissions. In order to successfully accomplish this task, the Work Program also includes implementing a GHG emissions monitoring program. Staff has developed a GHG monitoring strategy that includes a four-location, fixed-site monitoring network that is intended to provide information on GHG emissions entering and exiting the Bay Area to aid in forecasting and to provide information on the overall GHG emissions inventory. This fixed-site network has been completely installed and is recording data. In addition to the fixed-site network, staff have also developed a strategy to use an Air District van as a mobile GHG monitoring platform to provide better spatial resolution of GHG emissions and gather additional information on specific stationary sources that produce large amounts of methane and other GHGs to provide information on specific GHG sources. Staff briefed the Climate Protection Committee on GHG measurement activities at the September 17, 2015 meeting.

DISCUSSION

To implement the mobile component of the Air District's GHG monitoring strategy, and thereby improve the accuracy of the estimates in the regional GHG inventory, staff proposes to purchase a Picarro G2210-*i* methane isotope analyzer with ethane measurement capability. Staff from the Planning and Climate Protection and the Measurement, Meteorology and Rules divisions have collectively evaluated options and selected this instrument. Staff evaluated similar-purpose and competing instruments in the market, and visited Picarro's facility to observe beta-version demonstrations. Picarro Inc. is well-identified as a 'gold standard' for high-precision, fast and in-situ GHG instrumentation. This product is the newest instrument in their line. All of the Air

District's current GHG fixed-site network instruments are manufactured by Picarro. Staff is familiar and comfortable with the operation and upkeep of Picarro instruments and is confident in their on-field performance. Picarro is granting the Air District a 15% discount on this specific instrument for being a government agency partner and an early adopter of this particular technology.

This analyzer will provide the Air District with the unique capability to distinguish between GHG emissions originating from biological sources such as landfills and waste-water treatment plants, versus fossil fuel-based sources such as fugitive oil and gas leaks and combustion related emissions.

This capability will allow staff to scientifically, and with great statistical certainty, evaluate the sources of emissions that our mobile platform captures. The information obtained from this instrument, in combination with other measurements taken aboard the van, will improve the Air District's state of knowledge of GHG emissions and their sources, which will in turn improve the Air District's regional GHG inventory and forecasting abilities and GHG emission reduction strategies. The actual source-specific data gleaned from the mobile GHG monitoring program will support upcoming rule development efforts.

Staff recommends that the Board of Directors approve the Executive Officer/APCO to issue a Purchase Order to Picarro, Inc. for \$80,619.95.

BUDGET CONSIDERATION/FINANCIAL IMPACT

Resources associated with the purchase of this equipment have been included in the Fiscal Year Ending 2016 budget.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Henry Hilken
Reviewed by: Jean Roggenkamp

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 4, 2016

Re: Transfer \$500,000 from the Building Proceeds Reserve to Retrofit Backup Generator
at 375 Beale Street

RECOMMENDED ACTION

Recommend Board of Directors authorize the:

- Transfer of \$500,000 from the building proceeds reserve to the fiscal year ending (FYE) 2016 budget; and
- Authorize the Executive Officer/APCO to enter into all necessary agreements and contracts to retrofit the backup generator for the new regional agency headquarters building at 375 Beale Street.

BACKGROUND

The building being purchased by the Bay Area Air Quality Management District (Air District) at 375 Beale Street houses a generator that serves as its sole backup power in the event of an emergency. The generator currently onsite was built in 2000 which made it subject to the Tier 1 non-road emissions standard. However, its manufacturer, Caterpillar, says the engine was originally intended for export only and its emissions rate exceeded the Tier 1 Nitrogen Oxide (NO_x) limit of 6.9 g/bhp-hr required for US engines at that time. However, due to permit conditions imposed by Air District, a selective catalytic reduction (SCR) was installed on the engine prior to the current owner, the Metropolitan Transportation Commission (MTC) acquiring the building. As a result, the post SCR NO_x rate falls between the Tier 2 and Interim Tier 4 control standard, which constitutes best available technology (BACT) for that engine. While the BACT retrofit for NO_x represents a significant improvement in the emissions from this generator, the particulate matter (PM) emissions for the engine are still believed to be in the Tier 1 range (0.4 6.9 g/bhp-hr).

DISCUSSION

The Air District is in the process of writing new rules for backup generator emissions that will seek to reduce the health risk and greenhouse gases (black carbon) from these types engines. Staff believes that the Air District must take a leadership position that ensures that it is doing its utmost

to reduce these pollutants as part of its own operations. Therefore, the Air District is proposing to retrofit the backup generator at 375 Beale Street with a diesel particulate matter filter to bring it to the highest level of PM reduction possible.

The costs of this proposed retrofit is approximately \$500,000 and is projected to reduce emissions of PM from the generator by 85%. The retrofit will, at minimum, achieve a California Air Resources Board certified Tier 2 PM emissions standard but in actuality, staff expects the emissions reductions will likely be significantly higher - in the Tier 4 range - making the engine's PM emissions as clean as comparable new generators. In order to select a vendor for the technology, the Air District is proposing to conduct request for proposals (RFP) process via its partner MTC. The Air District will then contract directly with either the selected vendor or MTC to ensure the retrofit is completed as quickly as possible.

BUDGET CONSIDERATIONS/FINANCIAL IMPACTS

Based on its conversations with technology vendor who installed the SCR controls on the existing engine, staff expects the cost of this retrofit not to exceed \$500,000. In order to cover these costs, staff is requesting a transfer of \$500,000 from the building proceeds reserve to the FYE 2016 budget.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Damian Breen

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 9, 2016

Re: Extension of Contracts for My Air Online Development Services

RECOMMENDED ACTION

Recommend Board of Directors:

- 1) Authorize the Executive Officer/APCO to execute contract amendments with the following vendors in the amounts listed below:

Vendor	Amount	Service Description
C&G Technology Services	\$61,616	Software testing services for the permitting and compliance systems software.
Clearsparc, Inc.	\$257,544	Software architecture, design, development, build and release management services.
IT Dependz	\$381,704	Business analysis, software development, automated testing and quality assurance services related to the implementation of Production System and registration software.
SoftwareOne	\$85,103	Microsoft Azure Cloud Service hosting for My Air Online
Trinity	\$207,359	Data clean-up and transfer services from legacy systems to the new permitting and compliance systems. Business analysis, software development, database and business rules logic implementation permitting and enforcement processes.
TOTAL	\$993,325	

BACKGROUND

Air District staff is recommending semi-annual contract amendments for vendors assisting with the development of the permitting and compliance systems of the My Air Online Program in order to meet the calendar year 2016 goals.

DISCUSSION

Staff will provide an update on progress in completing small facility permitting milestones scheduled for the first half of the 2016 calendar year. These include the following:

- Support for online permitting and mobile inspections of emergency/standby diesel internal combustion engines
- Support for online processing for asbestos renovation and demolition jobs
- Migration of legacy small source registration software to newer online permitting platform (including small boilers, char broilers, mobile refinishing operations, small graphic arts printing operations, and agricultural diesel engines)
- Improved (Daily) public notifications for permit applications
- Enhanced support for compliance and enforcement operations

In the second half of the 2016 calendar year, the My Air Online Program aims to complete the following:

- Enhanced online wood smoke complaint and investigation processing
- Mobile inspections for renovation and demolition notifications
- Online stipulated abatement order agreements for small boilers
- Enhanced dispatching and mobile investigations for air quality complaints
- Enforcement action processing
- Foundation for complex facility permitting enhancements

In order to continue progress on the Permitting & Compliance System portion of the My Air Online program, staff is recommending the continued use of proven vendors, familiar with Air District systems for the first half of Fiscal Year End (FYE) 2017. The Air District has used these firms to assist with the design, development and testing of the permitting and compliance software systems, and they have performed well.

BUDGET CONSIDERATION/FINANCIAL IMPACT

Funding for the vendor contract recommendations is included in the FYE 2016 budget will be funded from the My Air Online Program (#125).

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jaime A. Williams

Reviewed by: Damian Breen

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 4, 2016

Re: Extension of Contracts for Website Development and Maintenance

RECOMMENDED ACTION

Recommend Board of Directors:

- 1) Authorize the Executive Officer/APCO to execute contract amendments with the following vendors in the amounts listed below:

Vendor	Amount	Service Description
Cylogy, Inc	\$218,991	Backend website content management system integration, customization and infrastructure support.
Malinda Lai	\$26,995	Website content management system and infrastructure support.
Oasis Technology Partners, Inc.	\$107,861	Frontend user experience optimization for tables, forms and calendar.
TOTAL	\$353,847	

BACKGROUND

Air District staff is recommending semi-annual contract amendments for vendors assisting with Website Development and Maintenance in order to meet the fiscal year end 2017 goals.

DISCUSSION

Website Development and Maintenance

The Website Development and Maintenance Program team is dedicated to the effective management of the Districts publically facing website (www.baaqmd.gov).

During the first half of calendar year 2016, staff has been focused on the roll out, optimization and training for the new website. Additional activities included the creation of a permit public notification module in collaboration with the Bay Area Environmental Health Collaborative and relocation related activities such consolidation of hosting infrastructure, change of address updates and announcements.

In the second half of the 2016 calendar year, the Website Development and Management Program aims to complete the following:

- Integration for continuous language translation (Spanish, Mandarin, Tagalog and Vietnamese)
- Optimization of the public website including Azure Cloud hosting
- Public permit 10-day notification with:
 - Daily updates and
 - Email notification self-subscription service
- Fleet management module for the Bay Area Headquarter Authority

In order to continue progress on the Website enhancement portion of the Website Development and Maintenance program, staff is recommending the continued use of proven vendors' familiar with Air District systems for the first half of Fiscal Year End (FYE) 2017. The Air District has used these firms to assist with the design, development and testing of the SiteCore integration and interface optimization, and they have performed well.

BUDGET CONSIDERATION/FINANCIAL IMPACT

Funding for the vendor contract recommendations is included in the FYE 2016 budget and will be funded from the Website Development and Maintenance (#309) program.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jaime A. Williams
Reviewed by: Damian Breen

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 18, 2016

Re: Consider Authorization to Issue a Purchase Order and Execute Contract in Excess of
\$70,000 Pursuant to Administrative Code Division II Fiscal Policies and Procedures
Section 4.3 Contract Limitations

RECOMMENDED ACTION

The Board of Directors will consider authorizing the Executive Officer/APCO to issue a purchase order and execute a contract for the Residential Wood Burning Status Phone Number (1-877-4NO-BURN), Wood Smoke Complaint System, Online Wood Smoke Awareness Course, Customer Service and Data System in an amount not to exceed \$90,000.

BACKGROUND

On July 9, 2008, the Board adopted Regulation 6, Rule 3: Wood-burning Devices to reduce the harmful particulate emissions that come from wood smoke. To increase public awareness on the health effects of woodsmoke, the District established a toll-free phone number, also known as the 877-4NO-BURN line to allow the public to check on the residential wood burning status for all existing and future wood smoke curtailment programs nationwide. Additionally, the phone number has an option that allows District residents to file wood smoke complaints and is recorded in 6 languages.

Compliance and Enforcement Division staff worked with Information Services and Communications sections to research different options to expand the existing toll-free 877-4NO-BURN line to include the capabilities outline above. On July 1, 2009, staff provided recommendations to the Board that the District use an external vendor call center system with an automated interface for handling woodsmoke complaints. EcoInteractive, Inc. was the contractor selected in mid-2009 to develop the systems. They met the District's needs in an expedited timeframe with high quality work. The initial contract has been renewed twice and the contractor has continued to meet the needs of District for the past 6 years. The annual costs to operate the system(s) are approximately \$80,000 and the contract was renewed on October 30, 2015 for 6 months in order to get through the past wood smoke season and reevaluate the requirements after the season. Currently, the Production System Development Team is working on developing an online wood smoke complaint system and inspection program to eventually replace the EcoInteractive system.

DISCUSSION

The Contractor provides access to the Woodsmoke Phone Call Center using an outside vendor; provides access to the online Woodsmoke Complaint System; and provides access to the Woodsmoke Awareness Course. Use of this contractor is needed to continue to provide the same services until a replacement system can be developed. If discontinued, the District would no longer have access to any of these systems. Since the Production System Team is currently working on a replacement system, staff is proposing to extend the contract for 6 months while the new system is being developed.

BUDGET CONSIDERATION / FINANCIAL IMPACT

The annual costs for operation of the 1-877-4NO-BURN line and complaint system are approximately \$80,000. This cost is a budgeted item in the Fiscal Year ending 2016 budget under Program 402 Compliance Assistance.

Respectfully submitted,

Jack Broadbent
Executive Officer/APCO

Prepared by: Paul Hibser
Reviewed by: Juan Ortellado

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/Air Pollution Control Officer

Date: May 2, 2016

Re: Report of the Advisory Council Meeting of April 25, 2016

RECOMMENDED ACTION

The Advisory Council (Council) received only informational items and has no recommendations of approval by the Board of Directors (Board).

BACKGROUND

The Council met on April 25, 2016 and completed the following items:

- A) Presentation on Crude Slate at Local Refineries; and
- B) Perspectives on Efficacy of Greenhouse Gas Caps for Local Refineries; and
- C) Presentations on Low Carbon Fuel Standard; and
- D) Council Deliberation

Director/Ex-Officio Advisory Council member, Rod Sinks, will provide an oral report of the Council meeting to the Board of Directors.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Marcy Hiratzka
Reviewed by: Maricela Martinez

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/Air Pollution Control Officer

Date: May 2, 2016

Re: Report of the Budget and Finance Committee Meeting of April 27, 2016

RECOMMENDED ACTION

Due to a lack of a quorum, a consensus of the Budget and Finance Committee (Committee) members present supported staff recommendations to the Board of Directors (Board) for the following items:

- A) Continued Discussion of Fiscal Year Ending (FYE) 2017 Proposed Air District Budget and Consideration to Recommend Adoption:
 - 1) Adopt the FYE 2017 Proposed Budget; and
 - 2) Establish a funding policy for CalPERS Retirement Pension Plan
- B) Third Quarter Financial Report – Fiscal Year Ending (FYE) 2016.
 - 1) None; receive and file.

BACKGROUND

The Committee met on Wednesday, April 27, 2016, and received the following reports and recommendations:

- A) Continued Discussion of FYE 2017 Proposed Air District Budget and Consideration to Recommend Adoption; and
- B) Third Quarter Financial Report – Fiscal Year Ending (FYE) 2016.

Committee Chairperson David Hudson will give an oral report of the Committee meeting.

BUDGET CONSIDERATION/FINANCIAL IMPACT

- A) The proposed consolidated budget for FYE 2017 is \$137,916,754 and is a balanced budget.

B) None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Heidi Kettler
Reviewed by: Maricela Martinez

Attachment 16A: 04/27/16 – Budget and Finance Committee Meeting Agenda #4

Attachment 16B: 04/27/16 – Budget and Finance Committee Meeting Agenda #5

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson David Hudson and Members
of the Budget and Finance Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: April 13, 2016

Re: Continued Discussion of Fiscal Year Ending (FYE) 2017 Proposed Air District
Budget and Consideration to Recommend Adoption

RECOMMENDED ACTION

The Committee will continue discussion of the proposed budget for FYE 2017 and consider recommending that the Board of Directors:

1. Adopt the FYE 2017 Proposed Budget; and
2. Establish a funding policy for CalPERS Retirement Pension Plan.

BACKGROUND

As directed by the Board of Directors at its March 16, 2016 regular board meeting, the FYE 2017 Proposed Budget was referred to the Budget and Finance Committee for review at the Committee's March 23, 2016 meeting.

On March 23, 2016, staff presented the FYE 2017 proposed budget to the Committee. The proposed budget is balanced, with the General Fund totaling \$78.4 million and the Consolidated Funds (including program distributions) totaling \$137.9 million. Proposed capital requests are \$4.0 million.

DISCUSSION

The Committee will continue its discussion on the FYE 2017 Proposed Budget at its April 27, 2016 meeting. The FYE 2017 Proposed Budget includes several recommendations for the Committee's consideration:

- Continuation of \$3.0M contribution to prefund OPEB;
- Prefund CalPERS Pension plan in an amount of \$280K or 5% of Annual Required Contribution (ARC);
- Use of reserves to fund one-time capital purchases; and
- Increase budgeted positions from 334 to 345.

In addition to these recommendations, the Committee directed staff to prepare for the April 27, 2016 meeting, the following:

- Funding Policy for CalPERS Pension Plan.

Staff will present information on these items at the April 27, 2016 Budget and Finance Committee meeting.

Staff requests that the Budget and Finance Committee at its April 27, 2016 meeting complete its review and take action on the proposed budget. This will allow staff the necessary time required to amend, if necessary, the budget for the first public hearing to be held on May 18, 2016.

Staff will publish, prior to April 27, 2016, a notice to the general public that the first of two public hearings on the budget will be conducted on May 18, 2016 and that the second hearing will be conducted on June 15, 2016.

BUDGET CONSIDERATION/FINANCIAL IMPACT

The proposed consolidated budget for FYE 2017, is \$137,916,754, and is a balanced budget.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Stephanie Osaze
Reviewed by: Jeff McKay

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson David Hudson and Members
 of the Budget and Finance Committee

From: Jack P. Broadbent
 Executive Officer/APCO

Date: April 13, 2016

Re: Third Quarter Financial Report – Fiscal Year Ending (FYE) 2016

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

Finance staff will present an update on the Air District’s financial results for the third quarter of FYE 2016. The following information summarizes those results.

GENERAL FUND BUDGET: STATEMENT OF REVENUES

Comparison of Budget to Actual Revenues

County Receipts	\$ 15,859,657	(65%) of budgeted revenue
Permit Fees	\$ 28,986,268	(100%) of budgeted revenue
Title V Permit Fees	\$ 4,636,534	(107%) of budgeted revenue
Asbestos Fees	\$ 2,855,744	(119%) of budgeted revenue
Toxic Inventory Fees	\$ 287,968	(52%) of budgeted revenue
Penalties and Settlements	\$ 5,917,183	(296%) of budgeted revenue
Interest Revenues	\$ 185,842	(93%) of budgeted revenue
Miscellaneous Revenues	\$ 37,875	(19%) of budgeted revenue

GENERAL FUND BUDGET: STATEMENT OF EXPENDITURES

Comparison of Budget to Actual Expenditures

Personnel - Salaries*	\$ 26,064,945	(70%) of budgeted expenditure
Personnel - Fringe Benefits*	\$ 13,726,549	(80%) of budgeted expenditure
Operational Services and Supplies	\$ 12,895,521	(71%) of budgeted expenditure
Capital Outlay	\$ 5,834,442	(146%) of budgeted expenditure
Office Acquisition	\$ -	(0%) of budgeted expenditure
* Consolidated (includes Special Funds)		

CASH AND INVESTMENTS IN COUNTY TREASURY
 (Account Balance as of March 30, 2016)

General Fund	\$58,384,528
TFCA	\$78,310,617
MSIF	\$31,646,609
Carl Moyer	\$5,003,236
CA Goods Movement	\$8,114,757
BikeShare	\$2,930,969
Total	\$184,390,716

	6/30/2014	6/30/2015	6/30/2016
FUND BALANCES	Audited	Audited	Projected
Reserve for Building and Facilities	500,000	-	-
Reserve for Capital Equipment Contingency	1,000,000	1,000,000	1,360,000
Reserve for Economic Contingency	10,114,309	10,114,309	15,159,959
Reserve for IT-Desktop Equipment	500,000	500,000	-
Reserve for IT- Event Response	500,000	500,000	500,000
Reserve for Parking Infrastructure	-	-	500,000
Reserve for JD Edwards Software Upgrade	1,000,000	-	-
Reserve for Pension & Post Employment Liability	1,800,000	1,800,000	1,600,000
Reserve for Tech- GHG Monitoring Equipment	360,900	-	-
Reserve for Tech- Meterological Network Equipment	417,100	417,100	417,100
Reserve for Tech- Mobile Monitoring Instruments	450,000	450,000	450,000
Reserve for GHG Abatement Technology Study	-	-	1,500,000
Reserve for Worker's Comp Self -Funding	1,000,000	1,000,000	1,000,000
Total Designated Reserves	\$ 17,642,309	\$ 15,781,409	\$ 22,487,059
Undesignated Fund Balance	7,404,751	15,122,475	8,416,825
Use of Fund Balance	-	-	(8,416,825)
TOTAL RESERVES	\$ 25,047,060	\$ 30,903,884	\$ 22,487,059
Building Proceeds	14,668,200	14,168,200	5,168,200
TOTAL BUILDING PROCEEDS	\$ 14,668,200	\$ 14,168,200	5,168,200
TOTAL FUND BALANCE	\$ 39,715,260	\$ 45,072,084	\$ 27,655,259

VENDOR PAYMENTS

In accordance with provisions of the Administrative Code, Division II Fiscal Policies and Procedures - Section 4 Purchasing Procedures: 4.3 Contract Limitations, staff is required to present recurring payments for routine business needs such as utilities, licenses, office supplies

and the like, more than, or accumulating to more than \$70,000 for the fiscal year. In addition, this report includes all of the vendors receiving payments in excess of \$70,000 under contracts that have not been previously reviewed by the Board. In addition, staff will report on vendors that undertook work for the Air District on several projects that individually were less than \$70,000, but cumulatively exceed \$70,000.

Below is a list of vendors with cumulative payments made through the third quarter of the 2015-2016 fiscal year that exceeded \$70,000 and meet the reporting criteria noted above. All expenditures have been appropriately budgeted as a part of the overall Air District budget for fiscal year 2015-2016.

	VENDOR NAME	AMOUNT PAID (July 2015 - March 2016)	Explanation
1	ALLIANT INSURANCE SERVICES	386,450	Various Business Insurance Policies
2	BENEFITS COORDINATORS CORP.	551,642	Life Insurance Plan & LTD Insurance
3	CA PUBLIC EMPLOYEE RETIREMENT SYSTEM	6,845,580	Health Insurance Plan
4	CA PUBLIC EMPLOYEE RETIREMENT SYSTEM	5,158,477	Retirement Benefits & 457 Supplemental Plan
5	CAPCOA	699,063	Pass through EPA grants
6	CEREDIAN CORP	76,528	Payroll Processing Services
7	COMCAST	129,653	Internet Connections
8	COMPUCOM SYSTEM	191,601	Microsoft License Agreement
9	CSAC EXCESS INSURANCE AUTHORITY	65,863	Life Insurance Plan & LTD Insurance
10	CUBIC TRANSPORTATIONS SYSTEMS	273,755	Clipper Transit Subsidy
11	EMPLOYEE BENEFIT SPECIALISTS	201,693	Medical & Dependent Care Flexible Spending Plan
12	ENTERPRISE FLEET SERVICES	445,443	Fleet Leasing and Maintenance services
13	HARTFORD LIFE INS. CO.	441,452	457 Supplemental Insurance
14	PACIFIC GAS & ELECTRIC COMPANY	399,280	Utilities
15	PREFERRED BENEFIT INSURANCE AD	504,177	Dental Insurance Plan
16	RENNE SLOAN HOLTZMAN SAKAI	116,803	Human Resources Consulting Services
17	VERIZON WIRELESS	139,115	Cell phone services

BUDGET CONSIDERATION/FINANCIAL IMPACT

None; receive and file.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Stephanie Osaze
Reviewed by: Jeff McKay

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 3, 2016

Re: Report of the Public Engagement Committee of May 2, 2016

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

The Committee met on Monday, May 2, 2016, and received the following reports:

- A) 2016 Spare the Air Campaign; and
- B) Renewal of Contract for Spare the Air Advertising and Messaging Campaigns; and
 - 1) The Committee will consider recommending Board of Directors authorization for the Executive Officer/APCO to amend existing contract with O'Rorke, Inc. for the Fiscal Year Ending 2017 Spare the Air Campaigns' Advertising, Communications & Evaluation Services in an amount not to exceed \$1,950,000.
- C) Overview of Climate Forward Bay Area Leadership Forum.

Chairperson Mark Ross will provide an oral report of the Committee meeting.

BUDGET CONSIDERATION/FINANCIAL IMPACT

- A) Funding for the campaign is included in the Fiscal Year Ending (FYE) 2016 and FYE 2017 budgets. The campaign is funded primarily through the Congestion Mitigation Air Quality program, supplemented by the Transportation Fund for Clean Air.
- B) Funding for this contract for FYE 2017 comes from the following sources:
 - Spare the Air Every Day
 - Congestion Mitigation Air Quality (CMAQ) - \$925,000
 - Transportation Fund for Clean Air (TFCA) - \$200,000
 - Winter Spare the Air
 - General Revenue - \$825,000

C) None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Heidi Kettler
Reviewed by: Maricela Martinez

Attachment 17A: 5/2/16 – Public Engagement Committee Meeting Agenda #4
Attachment 17B: 5/2/16 – Public Engagement Committee Meeting Agenda #5
Attachment 17C: 5/2/16 – Public Engagement Committee Meeting Agenda #6

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Mark Ross and Members
of the Public Engagement Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: April 20, 2016

Re: 2016 Spare the Air Campaign

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

Since 1991, the Spare the Air campaign has encouraged the public to adopt long-term behaviors to reduce air pollution and protect air quality. Past Spare the Air campaigns have targeted the general population, household decision-makers, young adults and solo drivers.

DISCUSSION

This year's Spare the Air campaign will feature all new advertising. The campaign will be region-wide with a focus on carpooling. Advertising will use humor to highlight the benefits of carpooling and shift the public perception of ride-sharing.

Carpooling is the focus of this season's campaign due to new ridesharing options, its extensive room for growth and feasibility region-wide.

BUDGET CONSIDERATION/FINANCIAL IMPACT

Funding for the campaign is included in the Fiscal Year Ending (FYE) 2016 and FYE 2017 budgets. The campaign is funded primarily through the Congestion Mitigation Air Quality program, supplemented by the Transportation Fund for Clean Air.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Kristine Roselius
Reviewed by: Lisa Fasano

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Mark Ross and Members
of the Public Engagement Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: April 18, 2016

Re: Renewal of Contract for Spare the Air Advertising and Messaging Campaigns

RECOMMENDED ACTION

The Committee will consider recommending Board of Directors authorization for the Executive Officer/APCO to amend existing contract with O’Rorke, Inc. for the Fiscal Year Ending 2017 Spare the Air Campaigns’ Advertising, Communications & Evaluation Services in an amount not to exceed \$1,950,000.

BACKGROUND

The Air District’s Communications Office relies on contractors to assist with various aspects of its advertising and outreach programs. The Communications Office completed a Request for Proposal (RFP) process in February 2015 to solicit responses for the following services: Advertising, Media Relations, Social Media, Public Opinion Surveys and Employer Outreach services. O’Rorke, Inc. was the selected contractor.

A three-year contract was approved by the Board in March 2015 for O’Rorke Inc. with funding not to exceed \$1,950,000 per contract year during Fiscal Year Ending FYE 2016 and FYE 2017, and \$2,019,000 for FYE 2018. The breakdown for the FYE 2017 contracts as follows:

- Spare the Air Every Day Campaign
 - Advertising \$600,000
 - Media Relations \$200,000
 - Social Media \$75,000
 - Employer Program \$200,000
 - Public Opinion Surveys \$50,000

- Winter Spare the Air Campaign
 - Advertising \$600,000
 - Media Relations \$100,000
 - Social Media \$75,000
 - Public Opinion Surveys \$50,000

DISCUSSION

In the previous year, the contractor has satisfied Air District requirements. Contractor and subcontractors participate in weekly status meetings to highlight ongoing and new work. Recommended messaging projects are well conceived and results are provided to staff. Contractor is thorough and timely executing projects, making recommendations and performing required tasks. Staff is recommending Board approval.

BUDGET CONSIDERATION/FINANCIAL IMPACT

Funding for this contract for FYE 2017 comes from the following sources:

- Spare the Air Every Day
 - Congestion Mitigation Air Quality (CMAQ) - \$925,000
 - Transportation Fund for Clean Air (TFCA) - \$200,000

- Winter Spare the Air
 - General Revenue - \$825,000

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Kristine Roselius
Reviewed by: Lisa Fasano

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Mark Ross and Members
of the Public Engagement Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: April 20, 2016

Re: Overview of Climate Forward Bay Area Leadership Forum

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

Climate Forward Bay Area: A Leadership Forum is set for Thursday, October 13 and Friday, October 14, 2016, in San Francisco. The forum will bring together climate leaders from government, non-profits and the private sector.

DISCUSSION

The Committee will receive an overview of the planning activities for the *Climate Forward Bay Area* event.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Kristine Roselius
Reviewed by: Lisa Fasano

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/Air Pollution Control Officer

Date: May 2, 2016

Re: Report of the Mobile Source Committee Meeting of May 5, 2016

RECOMMENDED ACTION

Due to a lack of a quorum, a consensus of the Mobile Source Committee (Committee) members present supported staff recommendations to the Board of Directors (Board) for the following items:

A) Projects and Contracts with Proposed Grant Awards over \$100,000:

- 1) Approve Carl Moyer Program (CMP) and Transportation Fund for Clean Air (TFCA) projects with proposed grant awards over \$100,000 as shown in Attachment 1; and
- 2) Authorize the Executive Officer/APCO to enter into agreements for the recommended projects; and
- 3) Adopt a resolution that authorizes the Executive Officer/APCO to accept, obligate, and expend Congestion Mitigation and Air Quality Improvement (“CMAQ”) grant funding for electric vehicle signage and education.

B) Selection of Vehicle Buy-Back Program Contractors

- 1) Approve Environmental Engineering Studies, Inc. (EES) and Pick-N-Pull Auto Dismantlers (Pick-N-Pull) as the vehicle retirement contractors and Direct Mail Center as the direct mail service contractor for the fiscal year ending (FYE) 2017 Vehicle Buy Back Program (VBB).
- 2) Authorize the Executive Officer/APCO to execute contracts for:
 - a. Vehicle scrapping and related services with EES and Pick-N-Pull, for a combined amount up to \$7 million; and
 - b. Direct mail services for the VBB Program with Direct Mail Center for up to \$129,698.
- 3) Authorize the Executive Officer/APCO to extend these services for an additional three years, at the Air District’s discretion, based on contractor performance.

C) Fiscal Year Ending (FYE) 2017 Transportation Fund for Clean Air (TFCA) County Program Manager (CPM) Expenditure Plans and Proposed Amendments to Two FYE 2017 CPM Policies (Ridesharing and Shuttle/Feeder Bus Services)

- 1) Approve the allocation of new FYE 2017 TFCA CPM Funds listed in Table 1;
- 2) Authorize the Executive Officer/APCO to enter into funding agreements with the CPMs for the total funds to be programmed in FYE 2017, listed in Table 1; and
- 3) Approve the proposed changes to the cost-effectiveness limits set in two FYE 2017 TFCA CPM Fund Policies (Ridesharing and Shuttle/Feeder Bus Services).

BACKGROUND

The Committee met on Thursday, May 5, 2016, and received the following reports and recommendations:

- A) Projects and Contracts with Proposed Grant Awards over \$100,000;
- B) Selection of Vehicle Buy-Back Program Contractors
- C) Fiscal Year Ending (FYE) 2017 Transportation Fund for Clean Air (TFCA) County Program Manager (CPM) Expenditure Plans and Proposed Amendments to Two FYE 2017 CPM Policies (Ridesharing and Shuttle/Feeder Bus Services)

Chairperson Scott Haggerty will provide an oral report of the Committee meeting.

BUDGET CONSIDERATION/FINANCIAL IMPACT

- A) None. Through the CMP, MSIF, and TFCA, the Air District distributes “pass-through” funds to public agencies and private entities on a reimbursement basis. Administrative costs for these programs are provided by each funding source.
- B) None. Funds to implement the FYE 2017 VBB Program are included in the Air District’s proposed budget. Up to \$7 million will be made available to EES and Pick-N-Pull on a reimbursement basis for vehicles retired from a combination of CMP and MSIF funding, and funding for the \$129,698 contract with Direct Mail Center will be provided by the TFCA program. Staff administrative costs for VBB are covered by a combination of revenues from CMP, MSIF and TFCA funds. Additionally, each contract will include a provision that would allow the Air District, at its sole discretion, the option to extend the contract term for up to three additional years, based on contractor performance. Each contract extension will include new funding.
- C) None. TFCA CPM revenues are generated from Department of Motor Vehicles registration fees and 40% of the revenues are passed through to the CPMs.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Marcy Hiratzka
Reviewed by: Maricela Martinez

Attachment 18A: 05/05/16 – Mobile Source Committee Meeting Agenda #4
Attachment 18B: 05/05/16 – Mobile Source Committee Meeting Agenda #5
Attachment 18C: 05/05/16 – Mobile Source Committee Meeting Agenda #6

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Scott Haggerty and Members
of the Mobile Source Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: April 15, 2016

Re: Projects and Contracts with Proposed Grant Awards over \$100,000

RECOMMENDATIONS

Recommend Board of Directors:

1. Approve Carl Moyer Program (CMP) and Transportation Fund for Clean Air (TFCA) projects with proposed grant awards over \$100,000 as shown in Attachment 1;
2. Authorize the Executive Officer/APCO to enter into agreements for the recommended projects; and
3. Adopt a resolution that authorizes the Executive Officer/APCO to accept, obligate, and expend Congestion Mitigation and Air Quality Improvement ("CMAQ") grant funding for electric vehicle signage and education.

BACKGROUND

The Bay Area Air Quality Management District (Air District) has participated in the Carl Moyer Program (CMP), in cooperation with the California Air Resources Board (ARB), since the program began in fiscal year 1998-1999. The CMP provides grants to public and private entities to reduce emissions of oxides of nitrogen (NOx), reactive organic gases (ROG) and particulate matter (PM) from existing heavy-duty engines by either replacing or retrofitting them. Eligible heavy-duty diesel engine applications include on-road trucks and buses, off-road equipment, marine vessels, locomotives, and stationary agricultural pump engines.

Assembly Bill 923 (AB 923 - Firebaugh), enacted in 2004 (codified as Health and Safety Code Section 44225), authorized local air districts to increase their motor vehicle registration surcharge up to an additional \$2 per vehicle. The revenues from the additional \$2 surcharge are deposited in the Air District's Mobile Source Incentive Fund (MSIF). AB 923 stipulates that air districts may use the revenues generated by the additional \$2 surcharge for projects eligible under the CMP.

On February 18, 2015, the Board of Directors (Board) authorized Air District participation in Year 17 of the CMP, and authorized the Executive Officer/APCO to execute Grant Agreements and amendments for projects funded with CMP funds or MSIF revenues, with individual grant award amounts up to \$100,000.

In 1991, the California State Legislature authorized the Air District to impose a \$4 surcharge on motor vehicles registered within the nine-county Bay Area to fund projects that reduce on-road

motor vehicle emissions within the Air District's jurisdiction. The statutory authority for the Transportation Fund for Clean Air (TFCA) and requirements of the program are set forth in California HSC Sections 44241 and 44242. Each year, the Board allocates funding and adopts policies and evaluation criteria that govern the expenditure of TFCA funding.

Sixty percent of TFCA funds are awarded by the Air District to eligible projects and programs implemented directly by the Air District (e.g., Spare the Air, Plug-in Electric Vehicle Program) and to a program referred to as the TFCA Regional Fund.

CMP and TFCA projects with grant award amounts over \$100,000 are brought to the Mobile Source Committee for consideration at least on a quarterly basis. Staff reviews and evaluates the grant applications based upon the respective governing policies and guidelines established by the ARB and/or the Board.

DISCUSSION

Carl Moyer Program:

The Air District started accepting project applications for the CMP Year 17 funding cycle on August 17, 2015. The Air District has approximately \$9 million available for CMP projects from a combination of MSIF and CMP funds for the Year 17 cycle. Project applications are being accepted and evaluated on a first-come, first-served basis.

As of April 13, 2016, the Air District had received 55 project applications for the CMP Year 17 cycle. Of the applications that have been evaluated between February 3, 2016 and April 13, 2016, six eligible projects have proposed individual grant awards over \$100,000. These projects will replace two tractors, three loaders, four marine engines, and one off-highway truck. These projects will reduce over 12.84 tons of NO_x, ROG and PM per year. Staff recommends the allocation of \$1,733,610 to these projects from a combination of CMP funds and MSIF revenues. Attachment 1, Table 1, provides additional information on these projects.

Attachment 2, lists all of the eligible projects that have been received by the Air District as of April 13, 2016, and summarizes the allocation of funding by equipment category, and county. This list also includes the Voucher Incentive Program (VIP) on-road replacement projects awarded since the last committee update. Approximately 16% of the funds have been awarded to projects that reduce emissions in highly impacted Bay Area communities. Attachment 3 summarizes the cumulative allocation of CMP, MSIF, and VBB funding since 2009 (more than \$118 million awarded to 732 projects).

Transportation Fund for Clean Air:

On May 6, 2015, the Board allocated \$24.47 million in TFCA funding for eligible projects in Fiscal Year Ending (FYE) 2016, authorized cost-effectiveness limits and evaluation criteria for Air District-sponsored FYE 2016 programs, and authorized the Executive Officer/APCO to execute Grant Agreements and amendments for TFCA-funded projects with individual grant award amounts up to \$100,000. On July 29, 2015, the Board adopted policies and evaluation criteria for the FYE 2016 TFCA Regional Fund program. To date, the Air District has opened TFCA-funded solicitations for shuttle and rideshare, electronic bicycle locker, bicycle rack, hydrogen fueling station, plug-in electric vehicle, electric vehicle (EV) charging station, and heavy-duty zero-emission vehicle projects.

As of April 13, 2016 the Air District had received 115 applications for FYE 2016 funding. To date, the Air District has evaluated 94 applications, of which 71 projects were approved or recommended for funding; 17 projects were not recommended; and six applications were withdrawn.

Of the applications that have been evaluated between February 4, 2016 and April 13, 2016, five eligible projects proposed an individual grant award over \$100,000:

- Project #16EV024 will deploy a set of 20 dual-port Level 2 electric vehicle (EV) charging stations integrated with roof-top solar in four garages owned by the City of Palo Alto. These charging stations will also be owned and operated by the city.
- Project #16EV032 will deploy a set of nine dual-port Level 2 EV charging stations integrated with roof-top solar in three of the four city-owned garages in Palo Alto that will augment the charging stations deployed by the city in #16EV024. These charging stations will be owned and operated by Komuna Energy.
- Project #16EV058 will deploy four dual-connector DC fast and 24 dual-port Level 2 charging stations at seven city-owned public parking facilities in Oakland.
- Project #16DCFC04 will deploy eight dual-connector DC fast and 48 single-port Level 2 charging stations at Kaiser Permanente hospitals in eight cities and includes \$99,950 of California Energy Commission (CEC) funds.
- Project #16DCFC05 will deploy seven dual-connector DC fast and six single-port Level 2 charging stations at shopping centers in seven cities and includes \$99,900 of CEC funds.

The award amounts for projects #16DCFC01, -02, -03, -04, and -05 include a total of \$239,850 of CEC funds. Pending Air District Board approval of the TFCA portion of the awards for #16DCFC04 and 16DCFC05, staff will submit these projects to CEC for approval.

In addition to the five projects listed above, the Air District received an application from Contra Costa Transportation Authority requesting \$1,000,000 for a pilot project to test two Shared Autonomous Vehicle (SAV) shuttles in Phase 1 and deploy approximately 150 SAV shuttles in Contra Costa County in Phase 2. Contingent on a successful testing in Phase 1, two SAVs would initially be deployed at Bishop Ranch and will be tested at non-public roads, followed by testing in public roads of the business park. These two SAVs would be available to approximately 3,000 commuters to transport them between the employment centers and the main bus station at the business park. Phase 2 will deploy approximately 150 SAV shuttles throughout Contra Costa County to connect passengers from mass transit stations to and from their destinations and homes. Although the Air District does not have an open solicitation for a project of this type, staff has evaluated this project and found that the proposal meets all of the requirements of the pilot trip reduction project category. Successful deployment of Phase 2 is expected to eliminate over 115,000 single vehicle occupancy commute trips per year, reduce criteria pollutant emissions by 1.50 tons per year, and reduce tailpipe greenhouse gas emissions by approximately 1,300 tons per year, resulting in a cost-effectiveness of \$199,374 per ton. Based on the estimated emissions reductions, staff recommends an award of 1 million dollars for this project.

Together, these six projects will reduce about 2.12 tons of NO_x, ROG, and PM per year. Staff determined that these projects conform to the provisions of HSC 44241 and the Board-adopted policies and recommends awarding \$2,584,850 to these projects. Attachment 1, Table 2, provides additional information on these projects.

Attachment 4 lists all of the 71 eligible TFCA projects that have been evaluated by the Air District as of April 13, 2016. Attachment 5 summarizes the allocation of funding by project category (Figure 1), and county (Figure 2). In total, these 71 projects represent approximately \$9.7 million in funding awards, which include TFCA funds, \$450,000 in Reformulated Gasoline (RFG) Settlement funds, and \$239,850 in California Energy Commission (CEC) funds. These projects will reduce approximately 51.69 tons of NOx, ROG, and PM, and over 28,000 tons of tailpipe greenhouse gas emissions per year. Approximately 44% of the TFCA funds awarded have been awarded to projects that reduce emissions in highly impacted Bay Area communities.

Resolution to accept, obligate, and expend \$400,000 in CMAQ funds:

On May 6 2015, the Air District Board of Directors authorized the Executive Officer/APCO to execute all contracts necessary to accept, appropriate, and expend Congestion Mitigation and Air Quality Improvement (CMAQ) Program funding awarded by the Metropolitan Transportation Commission (MTC). This funding will be used to implement the outreach described in the Bay Area Plug-in Electric Vehicle (PEV) Readiness Plan, and to fund signage and outreach activities.

A resolution must be adopted by the Air District's Board of Directors in order to enter into contract with Caltrans who administers these funds. The resolution in Attachment 6 addresses this requirement and authorizes the Executive Officer/APCO to accept, obligate, and expend the \$400,000 in CMAQ funds.

BUDGET CONSIDERATION / FINANCIAL IMPACT

None. Through the CMP, MSIF and TFCA, the Air District distributes "pass-through" funds to public agencies and private entities on a reimbursement basis. Administrative costs for these programs are provided by each funding source.

Respectfully submitted,

Jack P. Broadbent
Executive Director/APCO

Prepared by: Anthony Fournier and Ken Mak
Reviewed by: Chengfeng Wang and Karen Schkolnick

- Attachment 1: Projects with grant awards greater than \$100,000 (evaluated between 2/3/16 and 4/13/16)
- Attachment 2: Summary of all CMP/ MSIF and VIP approved and eligible projects (evaluated between 11/20/15 and 4/13/16)
- Attachment 3: Summary of program distribution by county and equipment category for CMP, MSIF, VBB, and VIP funding since 2009.
- Attachment 4: Summary of all TFCA-approved and eligible projects (evaluated between 7/1/2015 and 4/13/16)
- Attachment 5: Summary of distribution of TFCA funds by county and project category (evaluated between 7/1/15 and 4/13/16)
- Attachment 6: Board Resolution to accept, obligate, and expend \$400,000 in CMAQ funding

AGENDA 4 - ATTACHMENT 1

Table 1 - Summary of Carl Moyer Program/ Mobile Source Incentive Fund projects with grant awards greater than \$100k (Evaluated between 2/3/16 and 4/13/16)

Project #	Applicant name	Equipment category	Project description	Proposed contract award	Total project cost	Emission Reductions (Tons per year)			County
						NOx	ROG	PM	
17MOY34	F/V Miss Hailee (Commercial fishing)	Marine	Replacement of two diesel marine engines.	\$ 176,000.00	\$ 222,357.00	0.950	0.021	0.038	San Francisco
17MOY41	David J. Shogren (Commercial fishing)	Marine	Replacement of two diesel marine engines.	\$ 212,000.00	\$ 257,656.99	0.994	0.004	0.044	Solano
17MOY47	Andrew Poncia dba Poncia Fertilizer Spreading	Ag/ off-road	Replacement of one diesel tractor.	\$ 121,360.00	\$ 151,700.00	0.474	0.049	0.017	Sonoma
17MOY48	Mertens Dairy	Ag/ off-road	Replacement of one diesel loader.	\$ 182,750.00	\$ 288,440.63	1.352	0.162	0.058	Sonoma
17MOY44	Andrew Poncia dba Poncia Fertilizer Spreading	Ag/ off-road	Replacement of one diesel loader.	\$ 103,500.00	\$ 271,405.00	0.388	0.012	0.012	Sonoma
17MOY53	Hanson Aggregates, Mid-Pacific, Inc.	Off-road	Replacement of one loader, one tractor, and one off-highway truck.	\$ 938,000.00	\$ 3,083,226.00	7.167	0.812	0.287	Contra Costa
6 Projects				\$ 1,733,610.00		11.326	1.061	0.456	

Table 2 - Summary of Transportation Fund for Clean Air projects with grant awards greater than \$100k (Evaluated between 2/4/16 and 4/13/16)

Project #	Project Sponsor	Project Category	Project Description	City	Est. C/E	Proposed Contract Award	Emission Reductions (Tons per year)			County
							NO _x	ROG	PM	
16EV024	City of Palo Alto	Plug-in Electric Vehicles (PEV)	Install 20 dual-port Level 2 charging stations (with solar) in Palo Alto	Palo Alto	\$500,000	\$240,000	0.031	0.040	0.004	Santa Clara
16EV032	Komuna Energy, LLC	PEV	Install 9 dual-port Level 2 charging stations (with solar) in Palo Alto	Palo Alto	\$500,000	\$108,000	0.014	0.018	0.002	Santa Clara
16EV058	City of Oakland	PEV	Install 4 dual-connector DC fast and 24 dual-port Level 2 charging stations in Oakland	Oakland	\$250,000	\$244,000	0.063	0.081	0.027	Alameda
16DCFC04	Clean Fuel Connection	PEV	Install 8 single-port DC fast w/dual connectors and 48 Level 2 charging stations (with solar) in 7 cities in 4 counties	Regional	\$440,000	\$699,950	0.089	0.115	0.013	Regional
16DCFC05	NRG EV Services	PEV	Install 7 DC fast - single units w/dual connectors and 6 Level 2 charging stations in 7 cities in 5 counties	Regional	\$250,000	\$292,900	0.050	0.064	0.007	Regional
16R30	Contra Costa Transportation Authority	Pilot Trip Reduction	Bishop Ranch Business Park Shared Autonomous Vehicle Shuttle Pilot	San Ramon	\$84,009	\$1,000,000	0.580	0.629	0.295	Contra Costa
6 Projects						\$ 2,584,850	0.828	0.948	0.348	

* Award amount for these projects include \$199,850 in California Energy Commission (CEC) funds, pending CEC approval.

AGENDA 4 - ATTACHMENT 2

Summary of all CMP, MSIF and VIP approved/ eligible projects (between 11/20/15 and 4/13/16)

Project #	Equipment category	Project type	# of engines	Proposed contract award	Applicant name	Emission Reductions (Tons per year)			Board approval date	County
						NOx	ROG	PM		
17MOY5	Ag/ off-road	Equipment replacement	1	\$ 249,000.00	Ironhouse Sanitary District	0.925	0.078	0.027	12/16/2015	Contra Costa
17MOY8	Marine	Engine replacement	1	\$ 117,400.00	Andrew Guiliano, DBA, Andrew Guiliano (Charter fishing)	0.407	0.025	0.015	12/16/2015	Contra Costa
17MOY7	Off-road	Engine replacement	3	\$ 213,500.00	Dees- Hennessey, Inc. (Construction)	0.966	0.109	0.038	12/16/2015	San Mateo
17MOY1	Ag/ off-road	Equipment replacement	3	\$ 126,370.00	Robert Giacomini Dairy, Inc.	0.357	0.055	0.023	12/16/2015	Marin
17MOY2	Ag/ off-road	Equipment replacement	1	\$ 60,710.00	Donald J. Moreda, Sr. (Dairy)	0.190	0.027	0.010	APCO	Sonoma
17MOY3	Marine	Engine replacement	1	\$ 154,500.00	Daniel Lazzari DBA Daniel Lazzari (Commercial fishing)	0.887	0.017	0.032	12/16/2015	San Francisco
16MOY97	Ag/ off-road	Equipment replacement	1	\$ 61,200.00	Imhof Tractor Service, Inc.	0.207	0.007	0.009	APCO	Alameda
17MOY6	Ag/ off-road	Equipment replacement	1	\$ 93,645.00	Gregory Lyons (Lyon's Farms)	0.339	0.048	0.021	APCO	Contra Costa
17MOY11	Ag/ off-road	Equipment replacement	2	\$ 337,232.00	Ben Silacci dba Silacci Dairy	2.628	0.307	0.109	12/16/2015	Sonoma
17MOY19	Ag/ off-road	Equipment replacement	1	\$ 120,650.00	Ghiggeri and Stonebarger, LLC	0.530	0.029	0.009	12/16/2015	Contra Costa
17MOY4	Off-road	Equipment replacement	1	\$ 33,150.00	Pacific Coast General Engineering, Inc.	0.161	0.027	0.010	APCO	Contra Costa
17MOY25	Ag/ off-road	Equipment replacement	1	\$ 172,820.00	Spring Hill Jersey Cheese	0.913	0.095	0.033	2/17/2016	Sonoma
17MOY18	Marine	Engine replacement	2	\$ 207,000.00	Tom Mattusch, DBA, F/V Huli Cat	1.393	-0.010	0.054	2/17/2016	San Mateo
17MOY28	Ag/ off-road	Equipment replacement	1	\$ 282,200.00	Lum Family Farms, Inc.	0.959	0.100	0.034	3/16/2016	Solano
17MOY40	Ag/ off-road	Equipment replacement	1	\$ 121,490.00	F.A. Maggiore & Sons, LLC	0.533	0.030	0.009	3/16/2016	Contra Costa
17MOY36	Ag/ off-road	Equipment replacement	1	\$ 129,595.00	Bayview Vineyards Corp.	0.601	0.061	0.023	3/16/2016	Napa
17MOY31	Marine	Engine replacement	1	\$ 145,800.00	Chris W. Lawson (Commercial fishing)	0.639	0.012	0.023	3/16/2016	San Mateo
17MOY26	Ag/ off-road	Equipment replacement	3	\$ 187,405.00	Diamond M Dairy	0.573	0.090	0.033	3/16/2016	Sonoma
17MOY29	Marine	Engine replacement	1	\$ 98,800.00	Richard L. Ogg II (Commercial fishing)	0.364	0.009	0.012	APCO	Sonoma
17MOY42	Marine	Engine replacement	1	\$ 70,000.00	Nicholas Krieger (Charter fishing)	0.393	0.009	0.015	APCO	San Francisco
17MOY15	Ag/ off-road	Equipment replacement	1	\$ 31,600.00	E & M Deniz Dairy	0.105	0.004	0.004	APCO	Sonoma
17MOY30	Marine	Engine replacement	1	\$ 78,500.00	Christian Troy Cavanaugh (Charter fishing)	0.234	0.000	0.013	APCO	Marin
17MOY20	Ag/ off-road	Equipment replacement	1	\$ 21,635.00	Cortina Vineyard Management	0.072	0.004	0.003	APCO	Napa
17MOY32	Ag/ off-road	Equipment replacement	1	\$ 48,210.00	Ronald William Cardoza (Farmer)	0.125	0.018	0.008	APCO	San Mateo
17MOY27	Ag/ off-road	Equipment replacement	2	\$ 52,300.00	Martinelli Brothers (Vineyard and orchard)	0.068	0.041	0.011	APCO	Sonoma
17MOY35	Ag/ off-road	Equipment replacement	1	\$ 76,690.00	R. Rossi Co. (Farmer)	0.458	0.065	0.023	APCO	San Mateo
17MOY39	Ag/ off-road	Equipment replacement	1	\$ 15,600.00	David Bertram (Cattle and vineyards)	0.021	0.012	0.003	APCO	Solano
17MOY37	Ag/ off-road	Equipment replacement	1	\$ 72,000.00	Kehoe Dairy, Inc.	0.226	0.027	0.010	APCO	Marin
17MOY16	Ag/ off-road	Equipment replacement	1	\$ 49,357.00	Poncía Family, LLC (Cattle and dairy)	0.274	0.039	0.014	APCO	Marin
17MOY38	Ag/ off-road	Equipment replacement	1	\$ 35,825.00	Dittmer Ranch	0.073	0.015	0.007	APCO	Solano
17MOY34	Marine	Engine replacement	2	\$ 176,000.00	F/V Miss Hailee (Commercial fishing)	0.950	0.021	0.038	TBD	San Francisco

AGENDA 4 - ATTACHMENT 2

Project #	Equipment category	Project type	# of engines	Proposed contract award	Applicant name	Emission Reductions (Tons per year)			Board approval date	County
						NOx	ROG	PM		
17MOY41	Marine	Engine replacement	2	\$ 212,000.00	David J. Shogren (Commercial fishing)	0.994	0.004	0.044	TBD	Solano
17MOY21	Off-road	Equipment replacement	2	\$ 80,500.00	Economy Lumber Company of Oakland, Inc.	0.358	0.058	0.026	APCO	Alameda
17MOY47	Ag/ off-road	Equipment replacement	1	\$ 121,360.00	Andrew Poncia dba Poncia Fertilizer Spreading	0.474	0.049	0.017	TBD	Sonoma
17MOY45	Ag/ off-road	Equipment replacement	1	\$ 58,800.00	Bianchini, Inc. (Dairy)	0.124	0.022	0.011	APCO	Marin
17MOY48	Ag/ off-road	Equipment replacement	1	\$ 182,750.00	Mertens Dairy	1.352	0.162	0.058	TBD	Sonoma
17MOY44	Ag/ off-road	Equipment replacement	1	\$ 103,500.00	Andrew Poncia dba Poncia Fertilizer Spreading	0.388	0.012	0.012	TBD	Sonoma
17MOY52	Ag/ off-road	Equipment replacement	2	\$ 71,400.00	Peter C. Haywood (Vineyard)	0.136	0.029	0.014	APCO	Sonoma
17MOY53	Off-road	Equipment replacement	3	\$ 938,000.00	Hanson Aggregates, Mid-Pacific, Inc.	7.167	0.812	0.287	TBD	Contra Costa
VIP265	VIP	Truck Replacement	1	\$ 40,000.00	Tien Cong Huynh / Tai Cong Huynh	0.860	0.010	0.000	APCO	Alameda
VIP266	VIP	Truck Replacement	1	\$ 45,000.00	IEC Puno Trans Inc or Randy Puno	0.950	0.010	0.000	APCO	Santa Clara
VIP267	VIP	Truck Replacement	1	\$ 45,000.00	Martin S. Mileck	1.400	0.050	0.000	APCO	Mendocino
VIP268	VIP	Truck Replacement	1	\$ 35,000.00	Dennis E. Allen	0.700	0.020	0.000	APCO	Sacramento
VIP269	VIP	Truck Replacement	1	\$ 25,000.00	Steven R. Martini	0.560	0.020	0.000	APCO	Santa Clara
VIP270	VIP	Truck Replacement	1	\$ 45,000.00	Richard Jones	0.980	0.040	0.000	APCO	Tehama
VIP271	VIP	Truck Replacement	1	\$ 20,000.00	Gravel Sand and Soil Delivery LLC	0.460	0.020	0.000	APCO	Sonoma
VIP272	VIP	Truck Replacement	1	\$ 45,000.00	Gurjot Pawar	0.870	0.030	0.000	APCO	Santa Clara
VIP273	VIP	Truck Replacement	1	\$ 40,000.00	Guru Dutt Saini	0.840	0.010	0.000	APCO	San Joaquin
VIP274	VIP	Truck Replacement	1	\$ 35,000.00	Juan Cortes	1.710	0.020	0.000	APCO	Solano
VIP275	VIP	Truck Replacement	1	\$ 45,000.00	Miller Trucking Corp.	0.890	0.010	0.000	APCO	Shasta
50 Projects			65	\$ 5,828,494.00		37.785	2.758	1.140		

AGENDA 4 - ATTACHMENT 2

Figure 1: CMP/ MSIF Funding Distribution by Equipment Category as of 4/13/16

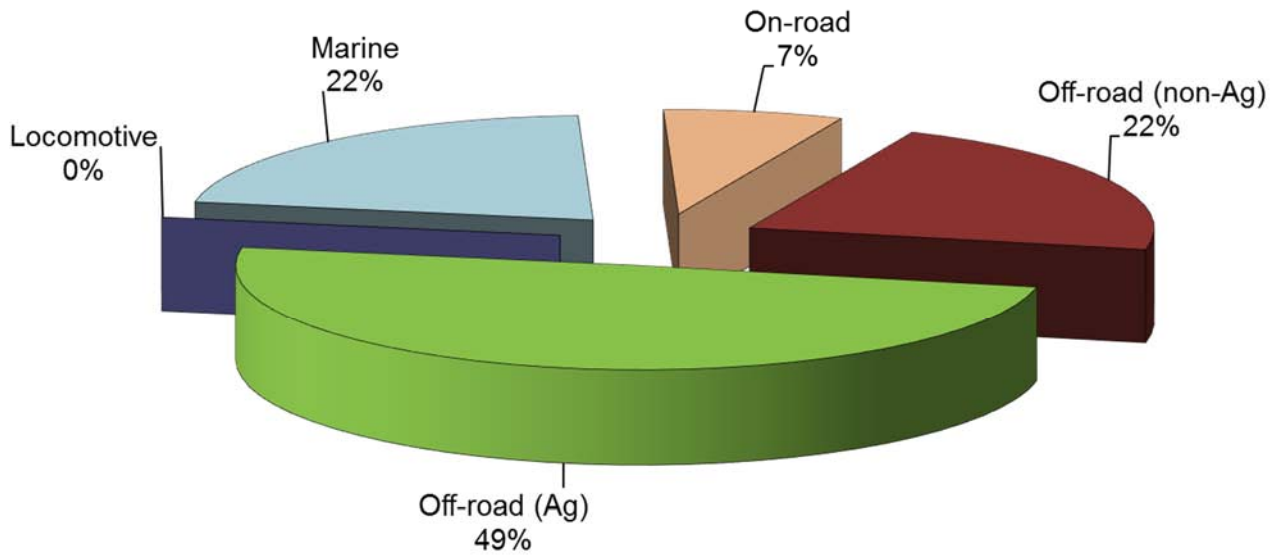
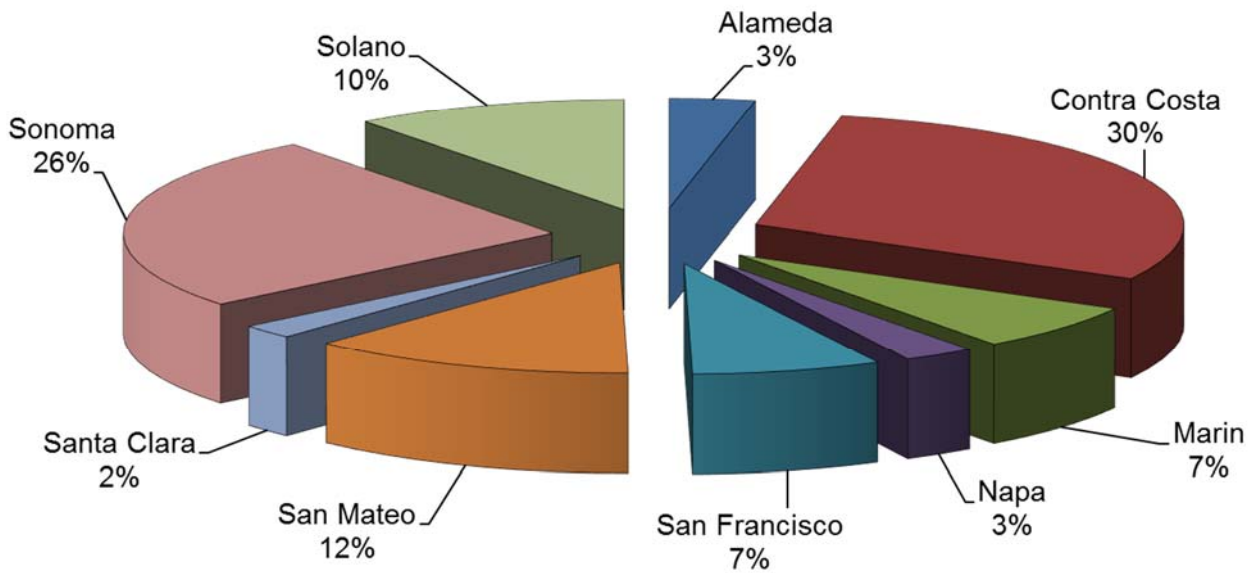


Figure 2: CMP/ MSIF Funding Distribution by County as of 4/13/16



AGENDA 4 - ATTACHMENT 3

Figure 3: CMP, MSIF, VBB and VIP funding since 2009 by equipment category

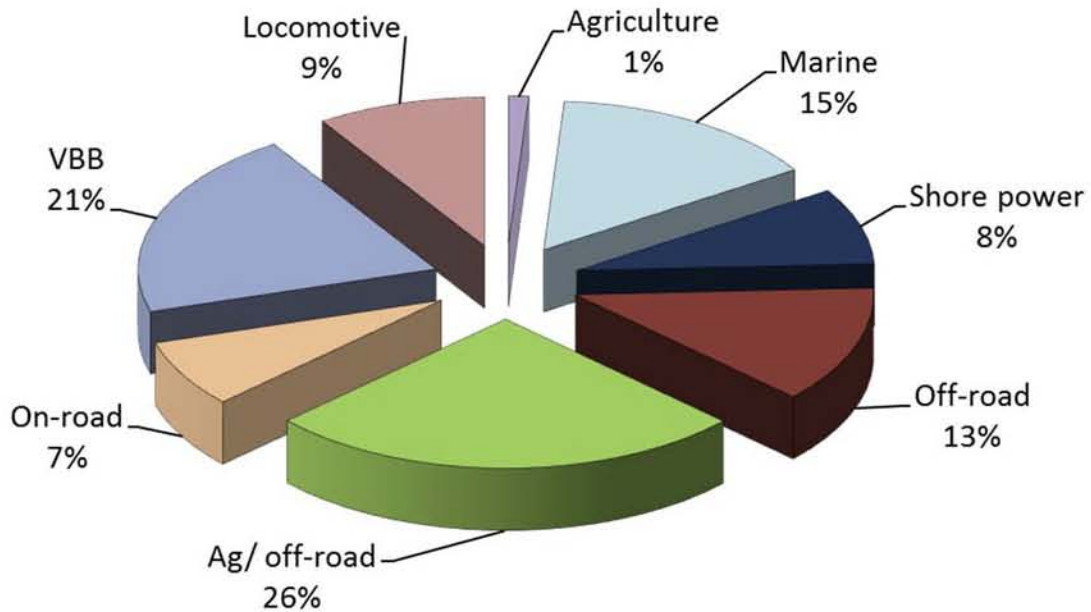
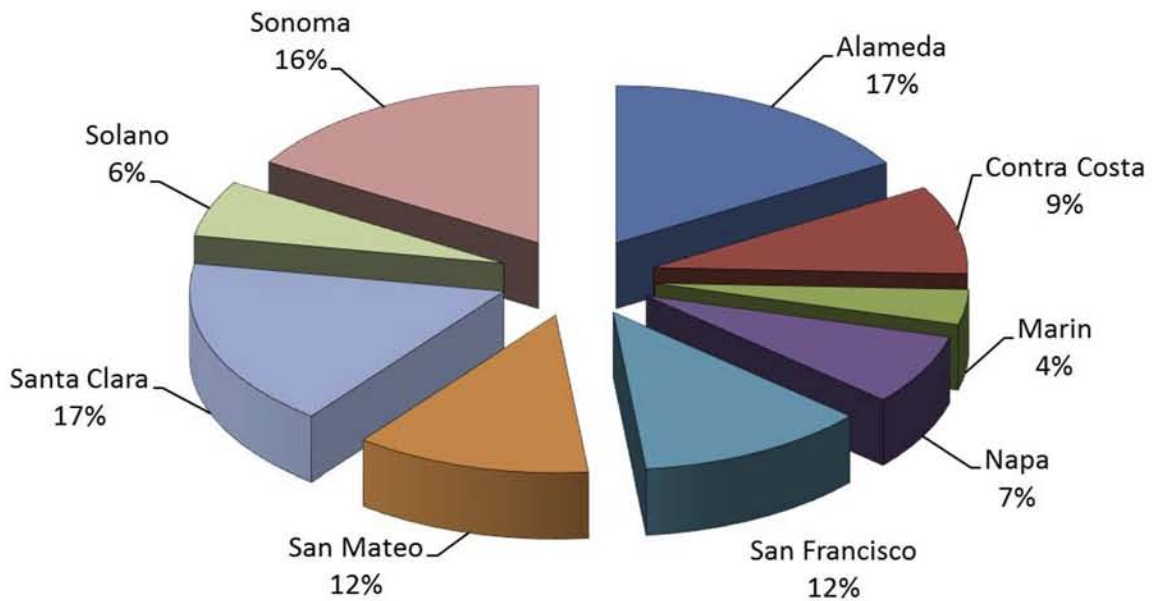


Figure 4: CMP, MSIF, VBB and VIP funding since 2009 by county



AGENDA 4 - ATTACHMENT 4

Summary of all TFCA approved and eligible projects (evaluated between 7/1/2015 and 4/13/2016)

Project #	Project Category	Project Description	Award Amount	Applicant Name	Emission Reductions (Tons per year)			Board Approval Date	CARE Area	County
					NO _x	ROG	PM			
16EV001	Plug-in Electric Vehicles (PEV)	Install 10 single-port Level 2 charging stations in San Jose	\$30,000	Car Charging, Inc.	0.008	0.010	0.001	10/5/15	Yes	Santa Clara
16EV003	PEV	Install 39 single-port Level 2 charging stations (with solar) in San Francisco	\$234,000	Powertree Services Inc.	0.030	0.039	0.004	11/18/15	Yes	San Francisco
16EV004	PEV	Install 2 dual-port Level 2 charging stations in Dublin	\$12,000	S & V, LLC	0.003	0.004	0.000	10/5/15	Yes	Alameda
16EV005	PEV	Install 3 single-port DC charging stations (with solar) in Campbell	\$22,500	DTTC Properties, LLC	0.003	0.004	0.000	12/18/15	No	Santa Clara
16EV006	PEV	Install 7 dual-port Level 2 and 2 DC fast EV charging stations (with solar) in Rohnert Park	\$187,000	Sonoma Mountain Village, LLC	0.024	0.031	0.003	2/17/16	No	Sonoma
16EV009	PEV	Install 6 single-port Level 2 charging stations in Petaluma	\$18,000	Clear Blue Commercial	0.005	0.006	0.001	12/22/15	No	Sonoma
16EV010	PEV	Install 24 single-port DC charging stations (with solar) in Palo Alto	\$120,000	Palo Alto Research Center Incorporated	0.016	0.020	0.002	2/17/16	No	Santa Clara
16EV012	PEV	Install 98 dual-port Level 2 charging stations in Santa Clara	\$338,546	Santa Clara Campus Owners' Association	0.088	0.113	0.013	12/16/15	No	Santa Clara
16EV013	PEV	Install 24 single-port DC charging stations (with solar) in Mountain View	\$116,190	Intuit Inc.	0.015	0.019	0.002	2/17/2015	No	Santa Clara
16EV015	PEV	Install 8 dual-port Level 2 charging stations in Santa Rosa and Petaluma	\$48,000	Sonoma County Junior College District	0.012	0.016	0.002	2/18/16	No	Sonoma
16EV016	PEV	Install 20 single-port Level 2 charging stations in Vallejo	\$60,000	City of Vallejo	0.016	0.020	0.002	2/18/16	Yes	Solano
16EV019	PEV	Install 2 dual-port Level 2 charging stations in Hayward	\$12,000	California State University, East Bay	0.003	0.004	0.000	12/30/15	No	Alameda
16EV021	PEV	Install 1 DC Fast and 8 dual-port Level 2 charging stations in Richmond	\$73,000	Ford Point LLC	0.019	0.024	0.003	12/31/15	Yes	Contra Costa
16EV024	PEV	Install 20 dual-port Level 2 charging stations in Palo Alto	\$240,000	City of Palo Alto	0.031	0.040	0.004	Pending	No	Santa Clara
16EV025	PEV	Install 12 dual-port Level 2 charging stations in San Mateo	\$72,000	San Mateo County Community College District	0.019	0.024	0.003	2/23/16	No	San Mateo
16EV026	PEV	Install 4 single-port Level 2 charging stations in Petaluma and Marshall	\$11,040	Straus Family Creamery	0.029	0.004	0.000	2/11/16	No	Regional
16EV027	PEV	Install 21 dual-port Level 2 charging stations (with solar) in San Jose	\$223,777	VF/UTC Service, Inc.	0.029	0.037	0.004	3/16/16	Yes	Santa Clara
16EV030	PEV	Install 4 single-port Level 2 charging stations (with solar) in Danville	\$24,000	Crow Canyon Medical Center, L.P.	0.003	0.004	0.000	3/11/16	No	Contra Costa
16EV031	PEV	Install 6 single-port DC and 3 dual-port Level 2 charging stations in San Leandro	\$48,000	Infinite Velocity Automotive Inc.	0.013	0.016	0.002	2/18/16	Yes	Alameda
16EV032	PEV	Install 9 dual-port Level 2 charging stations (with solar) in Palo Alto	\$108,000	Komuna Energy, LLC	0.014	0.018	0.002	Pending	No	Santa Clara
16EV038	PEV	Install 2 dual-port Level 2 charging stations in Santa Rosa	\$24,000	Artemedica	0.003	0.004	0.000	2/26/16	No	Sonoma
16EV040	PEV	Install 4 dual-connector Level 2 charging stations in Rohnert Park	\$14,000	Sonoma State University	0.004	0.005	0.001	4/13/16	No	Sonoma
16EV041	PEV	Install 1 dual-connector Level 2 and 2 Low kW DC fast single-port charging stations in Novato	\$13,500	Velocity Prime Automotive Inc.	0.004	0.005	0.001	4/13/16	No	Marin
16EV043	PEV	Install 1 quad-port and 1 dual-port Level 2 charging stations in San Carlos	\$10,364	Peninsula Components Inc.	0.003	0.004	0.000	3/17/16	No	San Mateo
16EV044	PEV	Install 4 single-port Level 2 charging stations in Berkeley	\$10,000	Siemens Molecular Diagnostics	0.003	0.004	0.000	4/13/16	Yes	Alameda

AGENDA 4 - ATTACHMENT 4

Summary of all TFCA approved and eligible projects (evaluated between 7/1/2015 and 4/13/2016)

Project #	Project Category	Project Description	Award Amount	Applicant Name	Emission Reductions (Tons per year)			Board Approval Date	CARE Area	County
					NO _x	ROG	PM			
16EV046	PEV	Install 5 dual-port Level 2 charging stations in San Jose	\$30,000	3901 North First, LLC	0.008	0.010	0.001	4/13/16	No	Santa Clara
16EV048	PEV	Install 4 single-port Level 2 charging stations (with solar) in Palo Alto	\$24,000	Kehilat Etz Chayim	0.003	0.004	0.000	4/11/16	No	Santa Clara
16EV049	PEV	Install 4 single-port Level 2 charging stations in San Francisco	\$10,319	One Hawethorne Owners Association	0.003	0.003	0.000	4/13/16	Yes	San Francisco
16EV054	PEV	Install 350 EV Level 2 charging stations in Cupertino	\$250,000	Apple Inc.	0.065	0.084	0.009	3/16/16	No	Santa Clara
16EV056	PEV	Install 32 dual-port Level 2 and 5 dual-connector DC charging stations in San Francisco	\$295,182	Bay Area Headquarters Authority	0.076	0.098	0.011	3/16/16	Yes	San Francisco
16EV057	PEV	Install 2 dual-port Level 2 charging stations in Atherton	\$12,000	Town of Atherton	0.003	0.004	0.000	2/11/16	No	San Mateo
16EV058	PEV	Install 4 dual-connector DC fast and 24 dual-port Level 2 charging stations in Oakland	\$244,000	City of Oakland	0.063	0.081	0.027	Pending	Yes	Alameda
16EV060	PEV	Install 2 dual-port Level 2 charging stations in Napa	\$12,000	Verasa Napa Condominium Owners Association, Inc.	0.003	0.004	0.000	4/13/16	No	Napa
16RFG01*	PEV	Install 12 dual-port Level 2 EV charging stations in Livermore and Hayward	\$65,112	Chabot Las Positas Community College District	0.019	0.024	0.003	2/17/16	Yes	Alameda
16RFG02*	PEV	Install 9 dual-port Level 2 EV charging stations in Fremont	\$81,486	City of Fremont	0.014	0.018	0.002	2/17/16	No	Alameda
16RFG08*	PEV	Install 8 dual-port Level 2 EV charging stations in Millbrae	\$78,000	City of Millbrae	0.012	0.016	0.002	2/17/16	No	San Mateo
16RFG09*	PEV	Install 1 DC fast, and 5 dual-port Level 2 EV charging stations in Oakland	\$41,000	City of Oakland	0.007	0.009	0.001	2/17/16	Yes	Alameda
16RFG11*	PEV	Install 8 DC fast EV charging stations in Moffett Field	\$307,569	The NASA Ames Exchange	0.052	0.067	0.007	2/17/16	No	Santa Clara
16RFG15*	PEV	Install 11 dual- and 2 single-port Level 2, and 3 single port Level 1 EV charging stations in Palo Alto	\$121,945	City of Palo Alto	0.020	0.026	0.003	2/17/16	No	Santa Clara
16RFG17*	PEV	Install 1 DC fast and 1 single-port Level 2 EV charging station in Richmond	\$47,511	City of Richmond	0.007	0.009	0.001	2/17/16	Yes	Contra Costa
16RFG18*	PEV	Install 18 dual- and 5 single-port Level 2 EV charging stations in Fremont	\$250,000	San Francisco Bay Area Rapid Transit District (BART)	0.032	0.041	0.005	2/17/16	Yes	Alameda
16RFG19*	PEV	Install 1 DC fast, and 7 dual-port Level 2 EV charging stations in Oakland and Hayward	\$149,610	County of Alameda	0.017	0.022	0.002	2/17/16	Yes	Alameda
16DCFC01**	PEV	Install 1 DC fast - single unit w/dual connectors charging station in Saratoga	\$35,000	City of Saratoga	0.007	0.008	0.001	Pending	No	Santa Clara
16DCFC02**	PEV	Install 1 DC fast - single unit w/dual connectors and 1 Level 2 charging station	\$43,000	Town of Colma	0.007	0.009	0.001	Pending	No	San Mateo
16DCFC03**	PEV	Install 1 dual-connector DC fast - charging station in Brisbane	\$35,000	City of Brisbane	0.007	0.008	0.001	Pending	No	San Mateo
16DCFC04**	PEV	Install 8 single-port DC fast w/dual connectors and 48 Level 2 charging stations (with solar) in 7 cities in 4 counties	\$699,950	Clean Fuel Connection	0.089	0.115	0.013	Pending	Yes	Regional
16DCFC05**	PEV	Install 7 DC fast - single units w/dual connectors and 6 Level 2 charging stations in 7 cities in 5 counties	\$292,900	NRG EV Services	0.050	0.064	0.007	Pending	No	Regional
16PEV002	PEV	Purchase one zero emissions motorcycle (ZEM)	\$2,500	Town of Colma Police Department	0.000	0.007	0.000	10/20/15	No	San Mateo
16PEV003	PEV	Purchase one ZEM	\$2,500	Pittsburg Police Department	0.000	0.007	0.000	12/23/15	No	Contra Costa

AGENDA 4 - ATTACHMENT 4

Summary of all TFCA approved and eligible projects (evaluated between 7/1/2015 and 4/13/2016)

Project #	Project Category	Project Description	Award Amount	Applicant Name	Emission Reductions (Tons per year)			Board Approval Date	CARE Area	County
					NO _x	ROG	PM			
16R11	Shuttle & Rideshare	511 Regional Carpool Program	\$1,000,000	Metropolitan Transportation Commission	7.079	7.568	6.862	11/18/15	Yes	Regional
16R12	Shuttle & Rideshare	SJSU Ridesharing & Trip Reduction	\$140,000	Associated Students, San Jose State University	1.832	1.784	1.579	11/18/15	Yes	Regional
16R15	Shuttle & Rideshare	Ace Shuttle 53 & 54	\$80,000	San Joaquin Regional Rail Commission	0.256	0.465	0.446	11/18/15	Yes	Alameda
16R17	Shuttle & Rideshare	PresidiGo Shuttle	\$100,000	Presidio Trust	0.376	0.375	0.348	11/18/15	Yes	San Francisco
16R18	Shuttle & Rideshare	Broadway Shuttle	\$186,500	City of Oakland	0.234	0.348	0.290	11/18/15	Yes	Alameda
16R19	Shuttle & Rideshare	Caltrain Shuttle Program	\$767,100	Peninsula Corridor Joint Powers Board	2.329	2.374	2.085	11/18/15	No	San Mateo
16R20	Shuttle & Rideshare	ACE Shuttle Bus Program	\$960,000	Santa Clara Valley Transportation Authority	3.763	3.353	3.433	11/18/15	No	Santa Clara
16R22	Bicycle Lockers	Purchase and install 1 eLocker quad and 2 eLocker doubles in Campbell	\$20,000	City of Campbell	0.011	0.012	0.012	3/9/16	Yes	Santa Clara
16R23	Bicycle Lockers	Purchase and install 10 eLocker quads in Berkeley, Pleasanton, and Union City	\$100,000	Bay Area Rapid Transit District	0.056	0.057	0.058	3/18/16	Yes	Alameda
16R24	Bicycle Lockers	Purchase and Install 4 eLocker quads in Emeryville and Santa Clara	\$40,000	Capitol Corridor Joint Powers Authority	0.022	0.023	0.023	4/13/16	Yes	Regional
16R30	Pilot Trip Reduction	Bishop Ranch Business Park Shared Autonomous Vehicle Shuttle Pilot	\$1,000,000	Contra Costa Transportation Authority	0.580	0.629	0.295	Pending	Yes	Contra Costa
16BR001	Bicycle Racks	Purchase and install 5 bike racks in San Carlos	\$3,000	San Carlos School District	0.006	0.009	0.004	12/21/15	No	San Mateo
16BR003	Bicycle Racks	Purchase and install 8 bike racks in Los Altos	\$3,840	Mountain View Los Altos Union High School District	0.008	0.011	0.005	12/31/15	No	Santa Clara
16BR004	Bicycle Racks	Purchase and install 15 bike racks in Dublin	\$1,800	Dublin Unified School District	0.004	0.005	0.002	1/26/16	Yes	Alameda
16BR005	Bicycle Racks	Purchase and install 72 bike racks in Richmond	\$11,160	City of Richmond	0.024	0.033	0.015	1/21/16	Yes	Contra Costa
16BR007	Bicycle Racks	Purchase and install 6 bike racks for in Livermore	\$2,880	Granada High School	0.006	0.009	0.004	3/23/16	Yes	Alameda
16BR008	Bicycle Racks	Purchase and install 23 bike racks in Los Gatos	\$9,000	Los Gatos Unified School District	0.019	0.027	0.012	3/22/16	No	Santa Clara
16BR009	Bicycle Racks	Purchase and install 9 bicycle racks in Los Gatos	\$4,260	Los Gatos High School	0.009	0.013	0.006	3/23/16	No	Santa Clara
16BR010	Bicycle Racks	Purchase and install 125 bicycle racks in Mountain View	\$15,000	Mountain View Whisman School District	0.032	0.044	0.020	3/15/16	No	Mountain View
16BR011	Bicycle Racks	Purchase and install 70 bike racks in Palo Alto	\$8,400	Palo Alto Unified School District	0.018	0.025	0.011	3/23/16	No	Palo Alto
16BR012	Bicycle Racks	Purchase and install 11 bike racks in Burlingame	\$3,960	Burlingame School District	0.008	0.012	0.005	3/23/16	No	San Mateo
16BR013	Bicycle Racks	Purchase and install 12 bike racks in Napa	\$1,342	Napa County	0.003	0.004	0.002	4/8/16	No	Napa

71 Projects

\$9,658,742

17.63 18.39 15.66

* Award amount for these nine projects includes a total of \$450,000 in Reformulated Gas (RFG) Settlement funds.

** Award amount for these projects include \$239,850 in California Energy Commission (CEC) funds, pending CEC approval.

AGENDA 4 - ATTACHMENT 5

Summary of FYE 2016 TFCA funds distributed by county and project category, as of 4/13/16

Figure 1: TFCA Projects Awarded in FYE2016
Distributed by Project Category

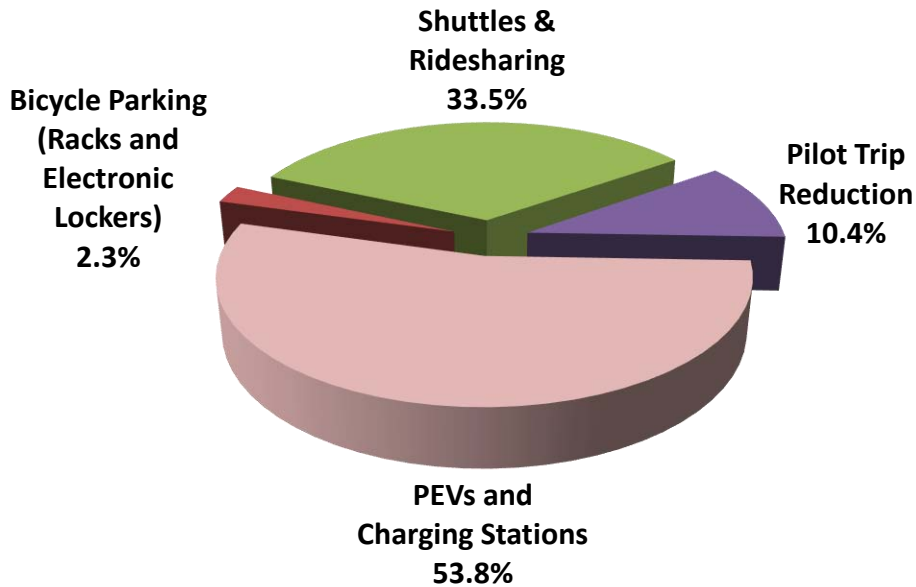
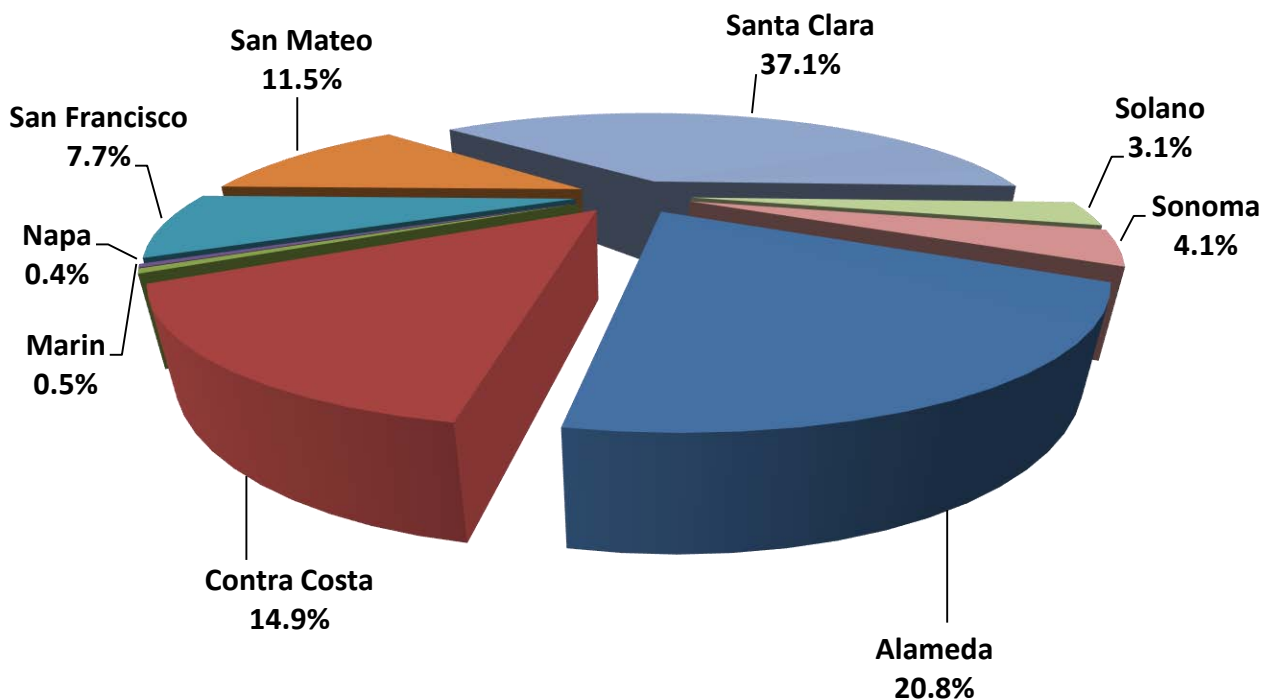


Figure 2: TFCA Projects Awarded in FYE2016
Distributed by County



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

RESOLUTION NO. 2016-_____

**A Resolution of the
Board of Directors of the Bay Area Air Quality Management District
Authorizing the Executive Officer/APCO to accept, obligate, and execute all
agreements and amendments for Congestion Mitigation and Air Quality
Improvement (“CMAQ”) grant funding for electric vehicle signage and education**

WHEREAS, the purpose of this Resolution is to authorize the Bay Area Air Quality Management District’s (“Air District”) Executive Officer/Air Pollution Control Officer to accept, obligate, and execute all agreements, required documents, and amendments for Congestion Mitigation and Air Quality Improvement (“CMAQ”) grant funding from the Metropolitan Transportation Commission (MTC) on behalf of the Air District for electric vehicle (EV) signage and education;

WHEREAS, on May 6, 2015, the Air District Board of Directors approved \$3.32 million new funding for the Air District’s EV incentive program including \$2.82 million in Transportation Fund for Clean Air funding and up to \$500,000 in CMAQ funding awarded by the MTC that will be used to provide additional funding to sponsors of plug-in electric vehicles (PEV) and charging station projects for signage, outreach initiatives aimed at increasing the visibility of EVs, and activities that implement the training for local government agencies and the public;

WHEREAS, on May 6, 2015, the Air District Board of Directors authorized the Executive Officer/APCO to execute all contracts necessary to accept, appropriate, and expend CMAQ funding awarded by the MTC;

WHEREAS, on September 23, 2015, the MTC approved the Climate Initiatives Outreach Program to direct \$400,000 in CMAQ funds to the Air District for electric vehicle signage and public education;

WHEREAS, the CMAQ Cycle 1 funds are currently programmed in the MTC agency budget for the Climate Initiatives Outreach Program and will expire on June 30, 2016. In order to extend the life of the funds the Air District would take action to obligate the funds;

WHEREAS, the Air District is eligible to receive Federal and/or State funding for certain Transportation Projects through Caltrans;

NOW, THEREFORE, BE IT RESOLVED that the Air District’s Board of Directors authorizes the Executive Officer/Air Pollution Control Officer to accept, obligate, and execute all agreements, required documents for CMAQ funding with Caltrans, and any amendments thereto.

Agenda 4 - Attachment 6: Board Resolution to accept and obligate \$400,000 in CMAQ funding

The foregoing resolution was duly and regularly introduced, passed and adopted at a regular meeting of the Board of Directors of the Bay Area Air Quality Management District on the Motion of Director _____, seconded by Director _____, on the ____ day of _____, 2016 by the following vote of the Board:

AYES:

NOES:

ABSTAIN:

ABSENT:

Eric Mar
Chair of the Board of Directors

ATTEST:

David E. Hudson
Secretary of the Board of Directors

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Scott Haggerty and Members
of the Mobile Source Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: April 20, 2016

Re: Selection of Vehicle Buy-Back Program Contractors

RECOMMENDATIONS

Recommend Board of Directors:

- 1) Approve Environmental Engineering Studies, Inc. (EES) and Pick-N-Pull Auto Dismantlers (Pick-N-Pull) as the vehicle retirement contractors and Direct Mail Center as the direct mail service contractor for the fiscal year ending (FYE) 2017 Vehicle Buy Back Program (VBB).
- 2) Authorize the Executive Officer/APCO to execute contracts for:
 - a. Vehicle scrapping and related services with EES and Pick-N-Pull, for a combined amount up to \$7 million; and
 - b. Direct mail services for the VBB Program with Direct Mail Center for up to \$129,698.
- 3) Authorize the Executive Officer/APCO to extend these services for an additional three years, at the Air District's discretion, based on contractor performance.

BACKGROUND

Since 1996, the Air District has retired more than 70,000 vehicles through the VBB program. Currently the VBB program pays \$1,000 to Bay Area vehicle owners for the retirement of eligible 1994 and older vehicles. Vehicles registered in the Bay Area can be taken to any of the 17 program dismantler locations in the region that are currently operated by either EES or Pick-N-Pull.

The VBB program is a voluntary vehicle retirement and scrapping program that takes older, higher-polluting vehicles off Bay Area roads. To implement the program, the Air District has contracted with vehicle dismantlers to pay vehicle owners for their eligible older vehicles; which are then retired by scrapping. To advertise this program, the Air District uses a direct mail campaign to inform potentially eligible vehicle owners about the VBB program. The VBB program has primarily been funded through the Air District's Mobile Source Incentive Fund (MSIF), with some support from the Transportation Fund for Clean Air (TFCA) and Carl Moyer Program (CMP).

For a vehicle to be eligible for the program it must meet operability and registration requirements - including being smog check compliant - to establish that the vehicle, if not scrapped, could continue to operate and pollute. By providing vehicle owners with a financial incentive to scrap the vehicle before it would otherwise be retired due to aging, the program captures what would have been the remaining life of the vehicle as excess emissions. This concept of excess emissions is a requirement of the funding sources for the program (CMP/MSIF guidelines) both of which are governed by California Air Resources Board - Voluntary Accelerated Light-Duty Vehicle Retirement (VAVR) Regulation.

The VBB direct mail campaign uses the California Department of Motor Vehicles' (DMV) database to contact, by mail, the owners of older light-duty vehicles that may be eligible for the program. Mailings are conducted bi-monthly with potentially eligible vehicle owners receiving notice of the program approximately three months prior to the expiration of their DMV registration.

DISCUSSION

Due to the high volume of vehicles processed through the VBB program, over 6,700 vehicles in FYE 2015, significant contractor support is necessary. The Air District issued two Request for Proposals (RFP) on February 25 and 26, 2016. One RFP sought vehicle retirement contractors and the second sought a direct mail service provider. Responses to the RFPs were due to the Air District by March 24, 2016.

Vehicle Retirement Contractor RFP

The scope of work contained in the RFP for vehicle retirement contractors conforms to the ARB-VAVR Regulation and to the CMP/MSIF guidelines. The RFP was mailed to 93 companies and posted on the Air District website. The Air District received two proposals in response to the RFP, one from EES and the other from Pick-N-Pull.

Air District staff evaluated the proposals using five criteria set forth in the RFP: cost, available resources/customer relations, coverage/availability, advertising, and responsiveness of proposal. The results of staff scoring of the proposals are summarized in Table 1 below:

Table 1 – Scoring of Vehicle Retirement Contractor Proposals

Name	Points (100 possible points)
Pick-N-Pull	86
Environmental Engineering Studies, Inc.	58

EES scored lower primarily due to its higher overhead cost. Factors contributing to their higher overhead cost are: 1) managing almost twice the number of facilities as Pick-N-Pull, 2) record low scrap metal prices, and 3) fees it pays to its subcontractors (participating dismantling yards). Staff contacted both EES and Pick-N-Pull to ask them to review their bids and present the lowest cost. In response, EES submitted a revised lower cost, which is just slightly higher than its current contract with the Air District, that would have resulted in a higher point score in the original evaluation.

As both contractors have previously successfully operated the VBB program for the Air District, and to maximize geographical distribution of buy back sites in the Bay Area, staff is recommending the approval of both EES and Pick-N-Pull as contractors for this program.

Direct Mail Contractor RFP

The proposed direct mail campaign for VBB would contact approximately 15,625 vehicle owners bimonthly, or 375,000 vehicle owners annually. The RFP was mailed to 25 companies and posted on the Air District website. The Air District received three proposals in response to the RFP.

The proposals were evaluated against five criteria set forth in the RFP: cost, technical expertise, past experience, responsiveness of the proposal and local/green business certification. The evaluation of cost included a review of quotes for data management, letter and envelope production, and standard mail bulk rate postage. Based on the review of the proposals, Direct Mail Center’s proposal scored the highest (See Table 2). Direct Mail Center is located in the City of San Francisco, California.

Table 2 – Scoring of Direct Mail Contractor Proposals

Company Name	Points (100 possible points)
Direct Mail Center	89
AdMail	87
San Jose Mailing	78

BUDGET CONSIDERATION / FINANCIAL IMPACT

None. Funds to implement the FYE 2017 VBB Program are included in the Air District’s proposed budget. Up to \$7 million will be made available to EES and Pick-N-Pull on a reimbursement basis for vehicles retired from a combination of CMP and MSIF funding, and funding for the \$129,698 contract with Direct Mail Center will be provided by the TFCA program. Staff administrative costs for VBB are covered by a combination of revenues from CMP, MSIF and TFCA funds. Additionally, each contract will include a provision that would allow the Air District, at its sole discretion, the option to extend the contract term for up to three additional years, based on contractor performance. Each contract extension will include new funding.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Joseph Steinberger
Reviewed by: Karen Schkolnick

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Scott Haggerty and Members
of the Mobile Source Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: April 15, 2016

Re: Fiscal Year Ending (FYE) 2017 Transportation Fund for Clean Air (TFCA) County
Program Manager (CPM) Expenditure Plans and Proposed Amendments to two FYE
2017 CPM Policies (Ridesharing and Shuttle/Feeder Bus Services)

RECOMMENDATIONS

Recommend Board of Directors:

1. Approve the allocation of new FYE 2017 TFCA CPM Funds listed in Table 1;
2. Authorize the Executive Officer/APCO to enter into funding agreements with the CPMs for the total funds to be programmed in FYE 2017, listed in Table 1; and
3. Approve the proposed changes to the cost-effectiveness limits set in two FYE 2017 TFCA CPM Fund Policies (Ridesharing and Shuttle/Feeder Bus Services).

BACKGROUND

In 1991, the California State Legislature authorized the Bay Area Air Quality Management District (Air District) to impose a \$4 surcharge on motor vehicles registered within the nine-county Bay Area to fund projects that reduce on-road motor vehicle emissions. The statutory authority for the TFCA and requirements of the program are set forth in California Health and Safety Code (HSC) Sections 44241 and 44242. The authorizing legislation requires the Air District Board of Directors (Board) to annually adopt policies that govern the use of TFCA funding to maximize emissions reductions and public health benefit. Policies for the upcoming FYE 2017 cycle were adopted by the Board on November 18, 2015.

By law, forty percent (40%) of these revenues are distributed to the designated CPM in each of the nine counties within the Air District's jurisdiction and the funds are distributed proportionally to the fees generated in each county.

DISCUSSION

Expenditure Plans

Every year, each CPM submits an expenditure plan application to the Air District specifying the funding available for projects and program administration for the upcoming fiscal year. The authorizing legislation allows CPMs to allocate and use up to 5% of TFCA monies they receive to fund their administrative costs and requires CPMs to allocate their available funds to eligible

projects within six months of the Boards' approval of the expenditure plan. All nine CPMs submitted compliant expenditure plan applications by the March 3, 2016 deadline.

Table 1 shows the funds that are estimated to be available to each of the nine CPMs in FYE 2017: Column A (highlighted in blue) shows the amount of new TFCA funds that are projected for each county in FYE 2017. Column B shows the amount of TFCA funds that were reported by CPMs in their expenditure plans that are available for reprogramming from projects that were completed under budget or canceled during the previous fiscal year, and interest earned in the prior year. Column C shows the sum of these two columns.

Table 1: FYE 2017 TFCA Funding for County Program Managers

	A	B	C
County Program Manager	Estimated New TFCA Funds	TFCA Funds to be Reprogrammed*	Total FYE 2017 Funds
Alameda County Transportation Commission	\$2,057,614	\$167,055	\$2,224,669
Contra Costa Transportation Authority	\$1,476,265	\$1,732	\$1,477,997
Transportation Authority of Marin	\$362,588	\$0	\$362,588
Napa Valley Transportation Authority	\$201,615	\$1,677	\$203,292
San Francisco County Transportation Authority	\$753,824	\$256,000	\$1,009,824
San Mateo City/County Association of Governments	\$1,110,717	\$166,323	\$1,277,040
Santa Clara Valley Transportation Agency	\$2,509,435	\$549,678	\$3,059,113
Solano Transportation Authority	\$356,153	\$2,237.00	\$358,390
Sonoma County Transportation Authority	\$598,651	\$15,391	\$614,042
TOTAL	\$9,426,862	\$1,160,093	\$10,586,955

*Based on funds available for reprogramming from CPM projects that were completed under budget or canceled during the previous fiscal year and interest accrued.

Amendments to FYE 2017 TFCA CPM Fund Policies

Staff is also recommending a change to two Board-adopted FYE 2017 TFCA CPM Fund Policies: Ridesharing Projects (Policy #27) and Existing Shuttle/Feeder Bus Services (Policy #28 A-H). The new (higher) cost-effectiveness limits take into account changes in on-road motor vehicle emission factors in California Air Resources Board's EMFAC2014 model, which was approved by the U.S. Environmental Protection Agency (EPA) in December 2015.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None. TFCA CPM revenues are generated from Department of Motor Vehicles registration fees and 40% of the revenues are passed through to the CPMs.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Linda Hui
Reviewed by: Karen Schkolnick

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/Air Pollution Control Officer

Date: May 2, 2016

Re: Report of the Executive Committee Meeting of May 16, 2016

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

The Committee will meet on Thursday, May 16, 2016, and receive the following reports:

- A) Hearing Board Quarterly Report: January – March 2016
- B) Bay Area Regional Collaborative (BARC) Update
- C) Consider and Discuss Proposed Amendments to the Air District’s Administrative Code, Division II: Fiscal Policies and Procedures, Section 4.3: Contract Limitations
- D) Update on My Air Online Permitting and Compliance System Progress
- E) 2016 Planning and Rulemaking Calendar

Chairperson Eric Mar will provide an oral report of the Committee meeting.

BUDGET CONSIDERATION/FINANCIAL IMPACT

- A) None.
- B) None.
- C) None.
- D) None.
- E) None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Marcy Hiratzka
Reviewed by: Maricela Martinez

Attachment 19A: 05/16/16 – Executive Committee Meeting Agenda #4
Attachment 19B: 05/16/16 – Executive Committee Meeting Agenda #5
Attachment 19C: 05/16/16 – Executive Committee Meeting Agenda #6
Attachment 19D: 05/16/16 – Executive Committee Meeting Agenda #7
Attachment 19E: 05/16/16 – Executive Committee Meeting Agenda #8

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Executive Committee

From: Chairperson Terry Trumbull, Esq., and Members
of the Hearing Board

Date: May 4, 2016

Re: Hearing Board Quarterly Report – January through March 2016

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

During the first quarter of 2016 (January through March), the Hearing Board:

- Held one hearing on an Accusation (3683). Held one hearing on a Variance (3684);
- Processed a total of five Orders, including three Orders for Dismissal (3682, 3683, 3684) and two Emergency Variances (3681, 3685); and
- Collected a total of \$967.00 in filing fees.

Below is a detail of Hearing Board activity during the same period:

Location: Santa Clara County; City of Santa Clara

Docket: 3681 APCO v. APPLIED MATERIALS, INC – *Application for Emergency Variance*

Regulation(s): Regulation 2, Rule 1 – Section 301 and Regulation 9, Rule 8 – Section 330

Synopsis: Applicant operates a semi-conductor research and development facility and seeks a variance for two temporary backup generators which caused a power failure to the entire building.

Status: Order for Dismissal filed on January 21, 2016.

Period of Variance: October 11, 2015 – November 11, 2015

Estimated Excess Emissions: unknown at time of filing

Fees collected this quarter: n/a

Location: Santa Clara County; City of Gilroy

Docket: 3682 APCO v. HARVEY FLORES – *Accusation*

Regulation(s): Regulation 2, Rule 1 and Request for Conditional Order for Abatement

Synopsis: Applicant operates an auto body painting operation without maintaining a BAAQMD P/O; this facility has operated at least six years in violation of the above regulation. Notice of Violation (NOV) # A46599 was issued to the facility on January 28, 2014 for failure to renew its P/O.

Status: Conditional Order for Abatement filed January 5, 2016.

Period of Variance: n/a

Estimated Excess Emissions: n/a

Fees collected this quarter: n/a

Location: Sonoma County; City of Santa Rosa

Docket: 3683 APCO v. BRETT GAYNOR – *Accusation*

Regulation(s): Regulation 2, Rule 1 and Request for Conditional Order for Abatement

Synopsis: Applicant operates an auto body painting operation without maintaining an Air District P/O. Facility is currently operating without a valid P/O, and has been operating without a P/O since 2014. Notice of Violation (NOV) # A52304 was issued to the facility on July 27, 2015. Mr. Brett Gaynor, owner of American Truck Collision, continually states that he plans to relocate his business “soon” and therefore does not want to apply for an Air District P/O for the Todd Road, Santa Rosa location, as Air District permits are not transferrable to a new location.

Status: Stipulated Conditional Order of Abatement filed February 6, 2016

Period of Variance: n/a

Estimated Excess Emissions: n/a

Fees collected this quarter: n/a

Location: Alameda County; City of Newark

Docket: 3684 CARGILL SALT – *Application for Interim and Regular Variance*

Regulation(s): Regulation 2, Rule 1, Section 307

Synopsis: Cargill Salt (Cargill) operates a facility in Newark refining brine from bay water into salt. As part of the facility operations, Cargill operates a natural gas-fired Fluid Bed Salt Drier (Source 60) to dry the salt. Source testing conducted on October 27-29, 2015 indicated that the petitioner violated the S-60 CO emission limit. The test results showed that the exhaust emitted from S-60 averaged 113.1 ppm CO at 3% oxygen dry, which is more than twice the permit limit.

Status: Order for Dismissal filed March 1, 2016

Period of Variance: December 18, 2015 through October 1, 2016

Estimated Excess Emissions: 18.6 lbs. per day

Fees collected this quarter: n/a

Location: Contra Costa County; City of Martinez

Docket: 3685 TESORO REFINERY – *Application for Emergency Variance*

Regulation(s): Regulation 9, Rule 9, Section 301.1 and 301.2 / Condition No. 19528, Part 21 / Regulation 2, Rule 1, Section 307 / Regulation 2, Rule 6, Section 307

Synopsis: Operators received a low temperature alert for the GFT steam supply. Steam below 425 deg. F cannot safely be injected into the GFT because the risk of the steam condensing within the GFT increases. Introducing liquid water into the rapidly rotating GFT would cause severe damage to the GFT and could possibly result in mechanical integrity failure of the GFT. To increase steam temperature to the GFT, operators attempted to return the letdown station to service. Operators were not able to return the letdown station to service because a block valve dropped its gate and could not be re-opened. At approximately 3:04 AM on February 11, 2016, the steam temperature to the GFT dropped below 425 deg. F, triggering an automatic safety shutdown of the steam injection system.

Status: Order Denying Emergency Variance filed February 25, 2016

Period of Variance: February 11, 2016 through March 11, 2016

Estimated Excess Emissions: 266 lbs. of NOx per day

Fees collected this quarter: \$967.00

Respectfully submitted,

Terry Trumbull, Esq.
Chair, Hearing Board

Prepared by: Maricela Martinez

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Eric Mar and Members
of the Executive Committee

From: Jack P. Broadbent
Executive Officer/Air Pollution Control Officer

Date: May 3, 2016

Re: Bay Area Regional Collaborative (BARC) Update

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

The Bay Area Regional Collaborative (BARC) consists of Board/Commission representatives of the four regional agencies and provides a forum for discussing issues of regional importance.

DISCUSSION

At the upcoming Executive Committee meeting, the BARC Director, Allison Brooks, will provide an update on the activities of the BARC.

BUDGET CONSIDERATIONS/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jean Roggenkamp

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Executive Committee

From: Jack P. Broadbent
Executive Officer/Air Pollution Control Officer

Date: May 3, 2016

Re: Consider and Discuss Proposed Amendments to the Air District's Administrative
Code, Division II: Fiscal Policies and Procedures, Section 4.3: Contract Limitations

RECOMMENDED ACTION

None; receive and file.

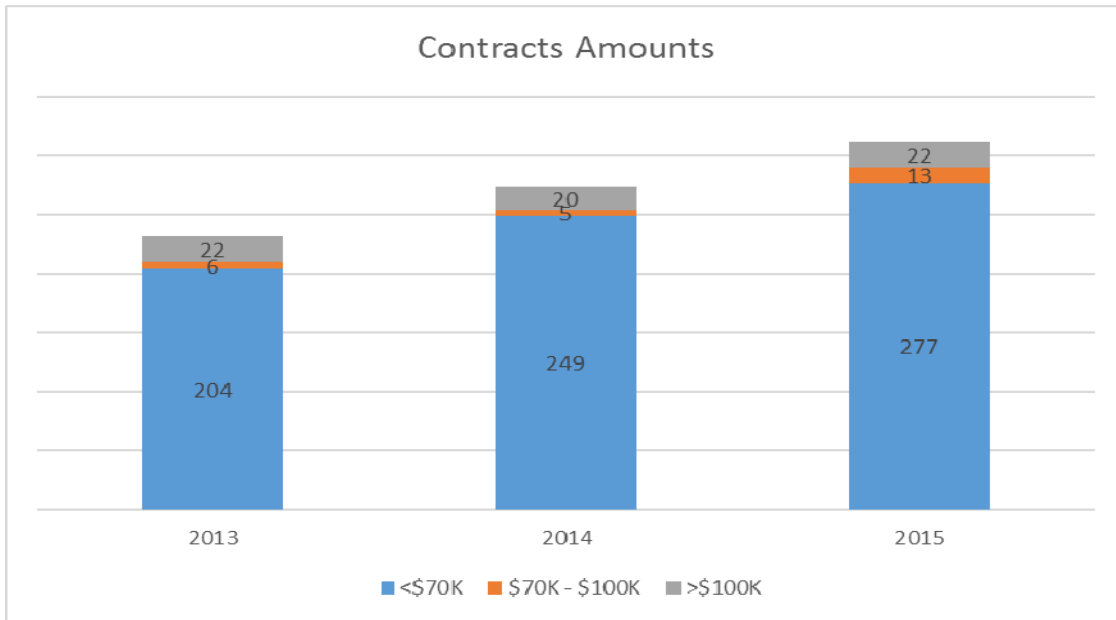
BACKGROUND

At its next regular meeting, the Board of Directors will be notified of staff recommended adoption of amendments to the Air District's Administrative Code, Division II: Fiscal Policies and Procedures, Section 4.3: Contract Limitations, to increase the Executive Officer's contract signing authority from \$70,000 to \$100,000.

DISCUSSION

The Air District contracts with hundreds of vendors for services and supplies. In 2004, the Board approved the referenced Administrative Code language providing the Executive Officer/APCO the authority to execute contracts under \$70,000. Since then, the Bay Area has sustained a steady increase in prices of goods and services. Assuming an average 2.5% inflation increase year over year, \$70,000 equals approximately \$94,000 in today's dollars.

Staff has found that the number of contracts between \$70,000 and \$100,000 have increased over time and that there is a clear break between the number of contracts below and above \$100,000 (More than 90% of contracts are below \$100,000). These contracts currently require notification to the Board on a meeting agenda and approval by a quorum of the Directors. The following graph illustrates the number of contracts and related amounts for the past three calendar years:



This change would allow for more efficient processing of contracts and purchases for the Air District and more efficiency during Board meeting business. The procedure for contracts exceeding the cost of \$100,000 will continue to be brought to the Board to be signed by either the Chairperson of the Board of Directors, or the APCO after being directed to execute such a contract by resolution of the Board of Directors.

The Administrative Code changes are proposed as follows:

Administrative Code, Section 4.3:

The APCO or designee shall execute on behalf of the Bay Area Air Quality Management District, contracts for purchase of supplies and materials and services costing not more than ~~seventy thousand dollars (\$70,000)~~ one hundred thousand dollars (\$100,000). Contracts for more than ~~seventy one hundred thousand dollars~~ shall be signed by either the Chairperson of the Board of Directors, or the APCO after being directed to execute such a contract by resolution of the Board of Directors.

For efficiency, recurring payments for routine business needs such as utilities, licenses, office supplies and the like, more than, or accumulating to more than ~~seventy one hundred thousand dollars (\$70,000)-(\$100,000)~~ shall be presented in the quarterly Financial Report.

BUDGET CONSIDERATIONS/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Satnam Hundel
Reviewed by: Rex Sanders

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Executive Committee

From: Jack P. Broadbent
Executive Officer/Air Pollution Control Officer

Date: May 8, 2016

Re: Update on My Air Online Permitting and Compliance System Progress

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

Staff will provide an update on the My Air Online program goals for the 2016 calendar year, including progress in completing small facility permitting milestones.

DISCUSSION

In the first half of the 2016 calendar year, the My Air Online Program will complete the following activities:

- Support for online permitting and mobile inspections of emergency/standby diesel engines
- Support for online processing for asbestos renovation and demolition jobs
- Migration of legacy small source registration software to newer online permitting platform
- Improved (daily) public notifications for permit applications
- Enhanced support for compliance and enforcement operations

Staff plan to complete the following items for the for the second half of the 2016 calendar year:

- Enhanced online wood smoke complaint and investigation processing
- Mobile inspections for renovation and demolition notifications
- Online stipulated abatement order agreements for small boilers
- Enhanced dispatching and mobile investigations for air quality complaints
- Enforcement action processing
- Foundation for complex facility permitting enhancements

BUDGET CONSIDERATIONS/FINANCIAL IMPACT

Funding for the vendor contracts to support these activities will be provided from the My Air Online Program (#125) FYE 2017 budget.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jaime A. Williams
Reviewed by: Damian Breen

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Eric Mar and Members
of the Executive Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 5, 2016

Re: 2016 Planning and Rulemaking Calendar

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

Staff has a number of rules and plans under development for Board of Directors action during the remainder of calendar year 2016. Each of these actions will be preceded by briefings to Stationary Source, Executive and/or Climate Protection Committees as appropriate for the rule or plan in question.

The anticipated Board hearings for the 2016 Planning and Rulemaking Calendar are shown in the table below. It is assumed that there will be no Board meetings in August.

Month	Board Action	Description
May 2016	Budget Hearing	First hearing on the FYE 2017 Budget.
	Manual of Procedures	The Manual of Procedures provides detailed technical requirements to the regulated community on methods used to comply with Air District rules. Two new procedures are required so that refineries can comply with the December 2015 amendments to Rule 11-10: Cooling Towers.
June 2016	Regulation 3: Fees (final hearing)	The second and final hearing on the rule establishing fees.
	Budget Hearing (final hearing)	The second and final hearing on the FYE 2017 Budget.
July 2016	Regulation 2, Rule 5: Toxics New Source Review (NSR)	This rule amendment will incorporate new, more protective assumptions and methodologies into the toxic air contaminant review conducted as part of new source review permitting.
Aug. 2016	n/a	
Sept. 2016	Regulation 9, Rule 13: Cement Kilns	The first step in updating the cement kiln rule that will correct a technical problem with the ammonia limit contained in the current version of the rule.

Oct. 2016	n/a	
Nov. 2016	Clean Air Plan/Regional Climate Protection Strategy	The 2016 Clean Air Plan/Regional Climate Protection Strategy (CAP/RCPS) is a roadmap for the Air District's efforts over the next few years to reduce air pollution and protect public health and the global climate.
Dec. 2016	Regulation 6 components: 6-1, General Particulate Matter Requirements 6-6: Trackout; 6-7: Asphalt; 6-8: Coke and Coal	This action includes an update of the particulate matter general regulations and three new rules to reduce particulate matter pollution from various sources including petroleum coke and coal storage and transfer facilities.

Several other rulemaking projects are underway that will be reported to various Board Committees in 2016. Board hearings for these rules are anticipated in 2017.

Project	Description
Regulation 12, Rule 16	This effort will address climate pollutants from refineries.
Toxic Hot Spots (AB2588)	This effort will incorporate new, more protective scientific approaches to evaluating the impact of toxic air contaminants into the Air District's program to manage significant sources of toxic pollution. Facilities such as refineries, cement kilns, diesel engines and gasoline stations may be impacted by this project.
Changes to permitting rules (Regulation 2, Rules 1 and 2)	This project has three goals: (1) Clarifies that significant changes in crude slate at an oil refinery requires permit review; (2) Requires Best Available Control Technology review for a broader range of new sources that emit climate pollutants; (3) Addresses US EPA technical concerns about the Air District's permitting program.
Regulation 8, Rule 37: Oil and Gas Wells	This proposed amendment will require reductions of methane, reactive organic gasses and toxic air contaminants from oil and gas wells in the Air District.
Landfills, compost facilities and Publically Owned Treatment Works (POTW)	These facilities are large sources of methane – a powerful climate pollutant. They are also significant sources of odors. They are all part of the system to manage California's green waste. This effort will reduce emissions of methane and odorous pollutants from these sources.
Additional controls at cement kilns (Regulation 9, Rule 13)	This project will address particulate matter and sulfur dioxide emissions from the cement kiln in Cupertino. Toxic emissions will be addressed as part of the Toxic Hot Spots project above.
Additional controls at Fluid Catalytic Cracking Units (Regulation 6, Rule 5)	These are the largest sources of emissions at refineries. This project follows up on Rule 6-5 (approved in December 2015) to ensure appropriate levels of particulate matter and sulfur dioxide control at these sources.
Stationary gas turbines (Regulation 9, Rule 9)	This rule will reduce nitrogen oxide emissions from large gas turbines used to generate electricity.
Refinery sulfur dioxide sources	This project will reduce sulfur dioxide emissions from refinery sources such as acid plants, sulfur recovery units and refinery fuel gas.

BUDGET CONSIDERATIONS/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Greg Nudd
Reviewed by: Eric Stevenson

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: April 26, 2016

Re: Public Hearing to Consider Adoption of Proposed Revisions to the Bay Area Air
Quality Management District Manual of Procedures

RECOMMENDED ACTION

Adoption of two new proposed procedures Volume IV, ST-40, and Volume IX, P-1, to the Bay Area Air Quality Management District Manual of Procedures (MOP).

BACKGROUND

In December 2015, the Bay Area Air Quality Management District (Air District) adopted amendments to Regulation 11, Rule 10: Emissions from Cooling Towers (Rule 11-10). As part of that rule amendment process, the staff committed to presenting for Board of Directors consideration for adoption regulatory procedures that industry must follow for certain Total Hydrocarbon (THC) leak detection methods in Rule 11-10.

The Manual of Procedures (MOP) is a compilation of technical specifications for various procedures to be used by the regulated community to demonstrate compliance with Air District rules. Regulatory procedures are contained in the MOP so that the methods used are standardized and enforceable to ensure data collected using the procedures are accurate and comparable across sources tested. The MOP consists of eight volumes of required methods for Enforcement Procedures, Engineering Permitting Procedures, Laboratory Policy and Procedures, Source Test Policy and Procedures, Continuous Emission Monitoring Policy and Procedures, Air Monitoring Procedures, Guidelines for Environmental Processes, as well as Procedures for Calculating and Generating Mobile Source Emission Reduction Credits.

DISCUSSION

Due to the urgent need for new MOP procedures relating to Rule 11-10 requirements that go into effect on July 1, 2016, staff focused this MOP update on two critical items. One new procedure, the Modified El Paso Method (MEPM) which utilizes an already adopted U.S. Environmental Protection Agency (EPA) method and applies more stringent and defined requirements, will be incorporated into Volume IV of the MOP. A second new procedure for water sampling/lab analysis will be incorporated into a new section of the MOP – entitled “Volume IX.”

MOP REVISION DEVELOPMENT PROCESS

While researching and developing the Air District's MEPM procedure as well as the cooling tower water sampling/laboratory analysis procedure, staff engaged all interested stakeholders, including affected industry and other governmental agencies.

Staff conducted the following steps:

- Developed conceptual versions of the draft procedures, including description of the concepts;
- Observed refinery cooling tower hydrocarbon leak detection events using the MEPM at the Valero Refinery as part of the process of assessing the MEPM, in addition to performing testing and information-gathering on proposed methods and equipment;
- Had multiple discussions with knowledgeable staff at the EPA and State of Texas Department of Environmental Quality;
- Hosted a workshop at the Air District Office on March 21, 2016 to solicit public input and comment on the draft MOP revisions;
- Met and consulted with industry to discuss concepts and potential concerns and issues;
- Hosted an additional meeting with industry on April 19, 2016 to solicit further input and comments on the draft MOP revisions; and,
- Prepared this package for the consideration by the Air District Board of Directors.

In addition, as a result of ongoing feedback staff received from the refineries, the Western States Petroleum Association and EPA, the following changes were made to the MOP revisions:

- Changed span gas back to methane so the MOP stays consistent with the rule;
- Deleted the nitrogen purge requirement for certain situations;
- Inserted a screening requirement and explanation of purpose;
- Added clarification that the proposed MEPM has more stringent requirements than the Texas version of the MEPM and is not meant as a replacement of that version;
- Added a requirement to heat the canisters if there is a possibility of condensable or semi-volatile VOC contained in the sample;
- Clarified Tedlar® bag recovery study criteria;
- Changed the time for sample analysis from 5 days to 5 business days; and,
- Changed detection limit criteria to be performance based versus instrumentation based.

BUDGET CONSIDERATIONS/FINANCIAL IMPACTS

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Will Saltz
Reviewed by: Eric Stevenson

Attachment 20A: Staff Report Proposed Revisions to Manual of Procedures and Appendices
Appendix A: Manual of Procedures, ST-40 – Adapted Modified El Paso Method, Volume IV
Appendix B: Manual of Procedures, P-1 – Water Sampling and Laboratory Analysis, Volume IX
Appendix C: Response to Comments



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

STAFF REPORT

PROPOSED REVISIONS TO MANUAL OF PROCEDURES

VOLUME IV – ST 40 – ADAPTED MODIFIED EL PASO METHOD

VOLUME IX – WATER SAMPLING & LABORATORY ANALYSIS

Prepared by the staff of the
Bay Area Air Quality Management District

May 2016

Revisions to Manual of Procedures: Staff Report

I. EXECUTIVE SUMMARY

In December 2015, the Bay Area Air Quality Management District (Air District) adopted amendments to Regulation 11, Rule 10: Hexavalent Chromium Emissions from All Cooling Towers and Total Hydrocarbon Emissions from Petroleum Refinery Cooling Towers (Rule 11-10). As part of that rule amendment process, the Air District committed to adopting procedures that industry must follow for certain Total Hydrocarbon (THC) leak detection methods in Rule 11-10.ⁱ Those procedures are proposed for adoption into the Manual of Procedures (MOP).

One new procedure, the Modified El Paso Method (MEPM), will be incorporated into Volume IV of the MOP, while a second new procedure for water sampling/lab analysis will be incorporated into a new section of the MOP – titled Volume IX.

It should be noted that during the March 2016 workshop held for the draft MOP revisions pertaining to Rule 11-10, draft revisions for the Ground Level Monitoring (GLM) procedure in Volume VI of the MOP were also part of the MOP revision package. The reason for proposing revisions to the GLM procedure is to update guidelines to ensure that meteorological data is measured accurately and representatively, along with other changes. This change is unrelated to the procedures needed for Rule 11-10. Staff received several industry comments specific to the draft GLM revisions. As a result of the workshop comments, the proposed GLM revisions will be deferred until staff can address industry's remarks and modify the GLM procedure to be more in accordance with the requirements of the Air District's fence-line monitoring requirements in Regulation 12, Rule 15: Petroleum Refining Emissions Tracking (Rule 12-15).

II. BACKGROUND

The MOP is a compilation of technical specifications for various procedures to be used by the regulated community to demonstrate compliance with Air District rules. The document consists of eight volumes of required methods that include: Enforcement Procedures; Engineering Permitting Procedures; Laboratory Policy and Procedures; Source Test Policy and Procedures; Continuous Emission Monitoring Policy and Procedures; Air Monitoring Procedures; Guidelines for Environmental Processes; and, Procedures for Calculating and Generating Mobile Source Emission Reduction Credits.ⁱⁱ Although staff believe there are several parts of the MOP that need to be updated, due to the urgent need for new MOP procedures relating to Rule 11-10 requirements that go into effect on July 1, 2016, staff has focused this MOP update on the MEPM and sampling method currently being proposed. Other updates will be

brought to the Board for consideration once they have been fully vetted with internal technical staff, the regulated community and other stakeholders.

III. PROPOSED MOP REVISIONS

ST-40, Volume IV

Staff proposes to incorporate an adaptation of the MEPM into the MOP. This procedure will be specified as ST-40 in Volume IV of the MOP.

The MEPM is an air stripping method that was developed in Texas to sample and quantify the concentration of Highly Reactive Organic Compounds (HRVOC) in petroleum refinery cooling tower water. This method is currently used by some refineries in Texas to comply with the leak requirements in the Texas Commission on Environmental Quality (TCEQ) Chapter 115 – Control of Air Pollution from Volatile Organic Compounds, SUBCHAPTER H: HIGHLY-REACTIVE VOLATILE COMPOUNDS. The MEPM is also approved by the US Environmental Protection Agency (EPA) for use by petroleum refineries to comply with leak detection requirements in the EPA rule to control toxic emissions from cooling towers. Air District staff is concerned that the current method does not provide enough guidance and clarity to ensure that the MEPM can be completed uniformly throughout the Bay Area, and to ensure that equipment used for this procedure reduces error to the maximum extent possible. As a result, the Air District is clarifying and, where needed, modifying the MEPM to ensure repeatable, accurate results. See Appendix A of the staff report for a copy of the Air District's version of the MEPM. Refineries that choose to detect cooling tower heat exchanger leaks via the MEPM method, as provided in Section 304.3 of Rule 11-10, will be required to follow the MOP guidelines in ST-40.

ST-40 has been adapted from the version developed by the TCEQ and contains some items that are more prescriptive than the TCEQ method. As a result, this method is intended to meet the same requirements as the TCEQ method while providing information better inline with Air District needs.

P-1, Volume IX

Staff also proposes to incorporate a second new procedure into the MOP to provide requirements to petroleum refineries regarding the sampling and laboratory analysis of refinery cooling tower water to ensure representative, accurate samples for standardized analysis. The procedure will be specified as P-1 in Volume IX of the MOP and will provide methodologies to petroleum refineries regarding where and how they can take cooling tower water samples as well as guidelines for the specific laboratory analytic method required to determine THC concentrations in the water sampled. P-1 references existing regulatory methods for grabbing and analyzing water matrix samples for hydrocarbon content. See Appendix B for a copy of the P-1 procedure.

IV. EMISSIONS AND EMISSION REDUCTIONS

This report concerns the adoption of proposed revisions to the MOP as opposed to the adoption or amendment of an air district regulation. There are no emissions and anticipated emission reductions associated with this proposal.

V. ECONOMIC IMPACTS

The Air District is required to perform a socioeconomic analysis under Health and Safety Code section 40728.5 for a rule that will significantly affect air quality or emissions. It is also required to perform an incremental cost analysis under H&SC section 40920.6 for rules that impose best retrofit control technology. Neither requirement applies to these proposed revisions to the MOP, which are concerned only with test methods. Costs associated with the implementation of the new petroleum refinery cooling tower leak detection requirements in Rule 11-10, which employ these test methods, were addressed when the rule was amended by the Air District's Board of Directors in December 2015.

VI. ENVIRONMENTAL IMPACTS

The amendments to the MOP that constitute this project involve the means for determining compliance with Air District rules for which an environmental analysis has already been conducted. The methods are administrative in nature and neither establish new standards nor amend existing standards. They result in no changes to refinery process equipment or operation of refinery process equipment for which the methods are used. As a result, the amendments to the MOP can be seen with certainty to have no possibility for causing a significant effect on the environment and are therefore exempt from CEQA pursuant to CEQA Guidelines § 15061, subd. (b)(3).

VII. REGULATORY IMPACTS

Section 40727.2 of the Health and Safety Code requires an air district, in adopting, amending, or repealing an air district regulation, to identify existing federal and district air pollution control requirements for the equipment or source type affected by the proposed change in district rules. The district must then note any differences between these existing requirements and the requirements imposed by the proposed change. Test methods are among the requirements that must be analyzed. These proposed amendments to the MOP add a new Method ST-40 to the MOP. The method is a variant of the Modified El Paso Method and is in the process of being reviewed by EPA. The differences between the MEPM and ST-40 are discussed in Section III above.

VIII. MOP REVISIONS AND PUBLIC CONSULTATION PROCESS

While researching and developing the new MEPM procedure as well as the cooling tower water sampling/laboratory analysis procedure, staff endeavored to engage all interested stakeholders, including affected industry and other governmental agencies. Staff:

- Developed conceptual versions of the draft procedures, including description of the concepts;
- Observed a refinery cooling tower hydrocarbon leak detection event using the MEPM at the Valero Refinery as part of the process of assessing the MEPM, in addition to performing testing and information-gathering on proposed methods and equipment;
- Had discussions with knowledgeable staff at the EPA and State of Texas Department of Environmental Quality;
- Hosted a workshop at the Air District Office on March 21, 2016 to solicit public input and comment on the draft MOP revisions;
- Met and consulted with industry to discuss concepts and potential concerns and issues; and,
- Prepared this package for the consideration of the Air District Board of Directors.

In addition, as a result of ongoing feedback staff received from the refineries and WSPA, the following changes were made to the the MOP revisions:

- Changed span gas back to methane so the method is consistent with the rule;
- Inserted a screening requirement and explanation of purpose;
- Added clarification that ST-40 is an adaptation of the MEPM and is more prescriptive;
- Pressurization information for canisters was re-inserted so that a pump would not be required to adequately collect samples;
- Added a requirement to heat canisters if there is a possibility of condensables could form after sampling and before analysis;
- Clarified Tedlar back recovery study criteria; and,
- Changed the time for sample analysis from 5 days to 5 business days.

IX. CONCLUSION

Pursuant to Section 40727 of the California Health and Safety Code, proposed new rules must meet findings of necessity, authority, clarity, consistency, non-duplication, and reference. The proposed MOP amendments are:

- Required to enforce provisions of previously adopted amendments to Regulation 11, Rule 10;
- Authorized by California Health and Safety Code sections 40000, 40001, 40702, and 40725 through 40728;

- Clear, in that the methods are written so that they can be understood by persons affected by them;
- Consistent with other Air District rules and test methods, and not in conflict with any state or federal law;
- Non-duplicative of other statutes, rules, or regulations; and
- Are implementing, interpreting, or making specific the provisions of California Health and Safety Code sections 40000 and 40702.

The proposed MOP revisions have met all legal noticing requirements, have been discussed with the regulated community, and reflects consideration of the input and comments of affected and interested parties. Air District staff recommends adoption of the proposed revisions to the MOP.

APPENDICES

Appendix A: MOP, ST-40, Volume IV

Appendix B: MOP, P-1, Volume IX

ⁱ <http://www.baaqmd.gov/~media/files/planning-and-research/rules-and-regs/reg-11/rg11110.pdf?la=en>

ⁱⁱ Bay Area Air Quality Management District Manual of Procedures:
<http://www.baaqmd.gov/publications/manual-of-procedures>.

The following Air District staff contributed to this report:

Project Leader:	William T. Saltz	Air Quality Specialist/Rule Developer
Vol. IV Method Author:	Elaine Ko	Source Test Engineer
Vol. IX Procedure Author:	Elaine Ko	Source Test Engineer
Contributor:	Eric Stevenson	Director of Meteorology, Measurement and Rules Division
Contributor:	Gregory H. Nudd	Air Program Manager
Contributor:	Robert Bartley	Air Program Manager
Contributor:	William Guy	Assistant Air District Counsel

SOURCE TEST PROCEDURE ST- 40

STRIPPABLE VOLATILE ORGANIC COMPOUNDS

REF: Regulation 11-10

1. APPLICABILITY

- 1.1 This procedure is used to quantify the concentration of volatile organic compounds stripped from cooling tower water by air. It is an adapted version of the Texas Commission on Environmental Quality (TCEQ) Air Stripping Method (Modified El Paso Method) for Determination of Volatile Organic Compound Emissions from Water Sources. This procedure includes requirements that should be used in addition to the TCEQ Modified El Paso Method and is not an alternative.
- 1.2 The use of a flame ionization detector (FID) analyzer for measurement of organic compounds is not allowed if the compound response factors are greater than 2, relative to methane. In order to confirm that compound response factors are less than 2, relative to methane and this is the appropriate measurement technique for specific systems, an initial screening of the process water must be performed and the results reported to the Source Test Manager prior to using a FID analyzer.
- 1.3 This procedure may be used for the measurement of volatile organic compounds with boiling points below 140°F. Procedures for the measurement of volatile organic compounds with boiling points of 140°F or greater must be approved by the Source Test Manager.
- 1.4 Any changes to the procedure that require BAAQMD Source Test and/or Lab Manager approval must also be approved by U.S. EPA if data is submitted for compliance with federal regulations.

2. PRINCIPLE

- 2.1 A continuous sample of cooling tower water is passed through a packed column. Air is passed through the column with countercurrent flow, stripping the volatile organic compounds from the water. The stripping air is analyzed for volatile organic compound concentration. Air and water input and output points have a direct interface to prevent volatile compound loss from vaporization in ambient air.
- 2.2 FID Direct Measurement: Stripping air is connected to a FID analyzer with a direct interface. The sample is analyzed for total volatile organic compounds.

- 2.3 Integrated Sample: Stripping air is routed at a constant, measured flow into an evacuated stainless steel canister or Tedlar® bag. The sample is analyzed for total volatile organic compounds by FID. Alternatively, the sample may be speciated by gas chromatography (GC) or an equivalent methodology approved by the Source Test Manager.

3. RANGE AND SENSITIVITY

- 3.1 The minimum measurable concentration of volatile organic compounds by a FID analyzer is 1 ppmv when interferences are not present. For the FID analyzer, the minimum detection limit should be 0.3 ppmv as methane. The minimum precision should be the larger of 0.3 ppmv or 5% of reading as methane. The minimum sensitivity should be 2% of full scale as methane.
- 3.2 The minimum measurable concentration of volatile organic compounds by GC is 0.5 ppmv.

4. INTERFERENCES

- 4.1 FID Analysis: Response factors vary amongst hydrocarbons. A FID should not be used on compounds with response factor multipliers greater than 2, relative to methane. Use of an alternative span gas or detection method must be approved by the Source Test Manager.
- 4.2 FID analyzers that use air from the sample or ambient sampling environment can have an elevated baseline. Analyzers using those air sources should be calibrated in the same location as sampling.
- 4.3 Rubber and drying agents can absorb volatile organic compounds. Use of those materials is prohibited.
- 4.4 The pressure drop across the rotameter control valve can cause gas bubble formation in the water rotameter and affect the flow measurement.
- 4.5 Temperature changes affect compound vapor pressures and can alter results.

5. APPARATUS

- 5.1 Clear, heavy walled glass column, 36 in long with an internal diameter of 3 in.
- 5.2 Packing material. Use 6 mm – 8 mm beryl saddles and pack the column to a depth of 26 in.

- 5.3 Neoprene stoppers.
- 5.4 Securing clamps.
- 5.5 Stainless steel or Teflon tubing, ¼ in diameter and no longer than 50 ft.
- 5.6 Air rotameter with $\pm 2\%$ accuracy. Rotameter should be calibrated according to TCEQ Modified El Paso Method specifications.
- 5.7 Water rotameter with $\pm 2\%$ accuracy. Rotameter should be calibrated according to TCEQ Modified El Paso Method specifications.
- 5.8 Type K temperature probe. Temperature probe should be calibrated according to TCEQ Modified El Paso Method specifications.
- 5.9 Clear glass flasks – 250 ml. Leave one flask empty for moisture knockout and fill one flask with water to act as a bubbler. The bubbler shows that there is sufficient flow out of the system and no external air being drawn in.
- 5.10 Flame ionization detector analyzer or gas chromatograph with appropriate detectors for sample compounds.
- 5.11 Tedlar® bags. Use bags that are a minimum of 20 L.
- 5.12 Evacuated stainless steel canisters. Sample canisters should meet all requirements in the U.S. EPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Compendium Method TO-14A.
- 5.13 Zero-gas. Air is used for calibration and stripping. It should be certified to contain less than or equal to 0.1 ppmv total hydrocarbon (THC).
- 5.14 High-level calibration gas. Sample concentration should be between 10-100% of the high-level gas concentration. Calibration gas should be certified and within 2% of the stated concentration. Methane should be used unless a surrogate is approved by the Source Test Manager.
- 5.15 Mid-level calibration gas. Concentration should be 20-50% of the high-level calibration gas concentration and certified within 2% of the stated concentration. Methane should be used unless a surrogate is approved by the Source Test Manager.
- 5.16 Orifice plate, mass flow controller, or needle valve.
- 5.17 For more detail and diagrams of the apparatus, refer to Figures 1 and 2 in the TCEQ Modified El Paso Method.

Figure 40-1

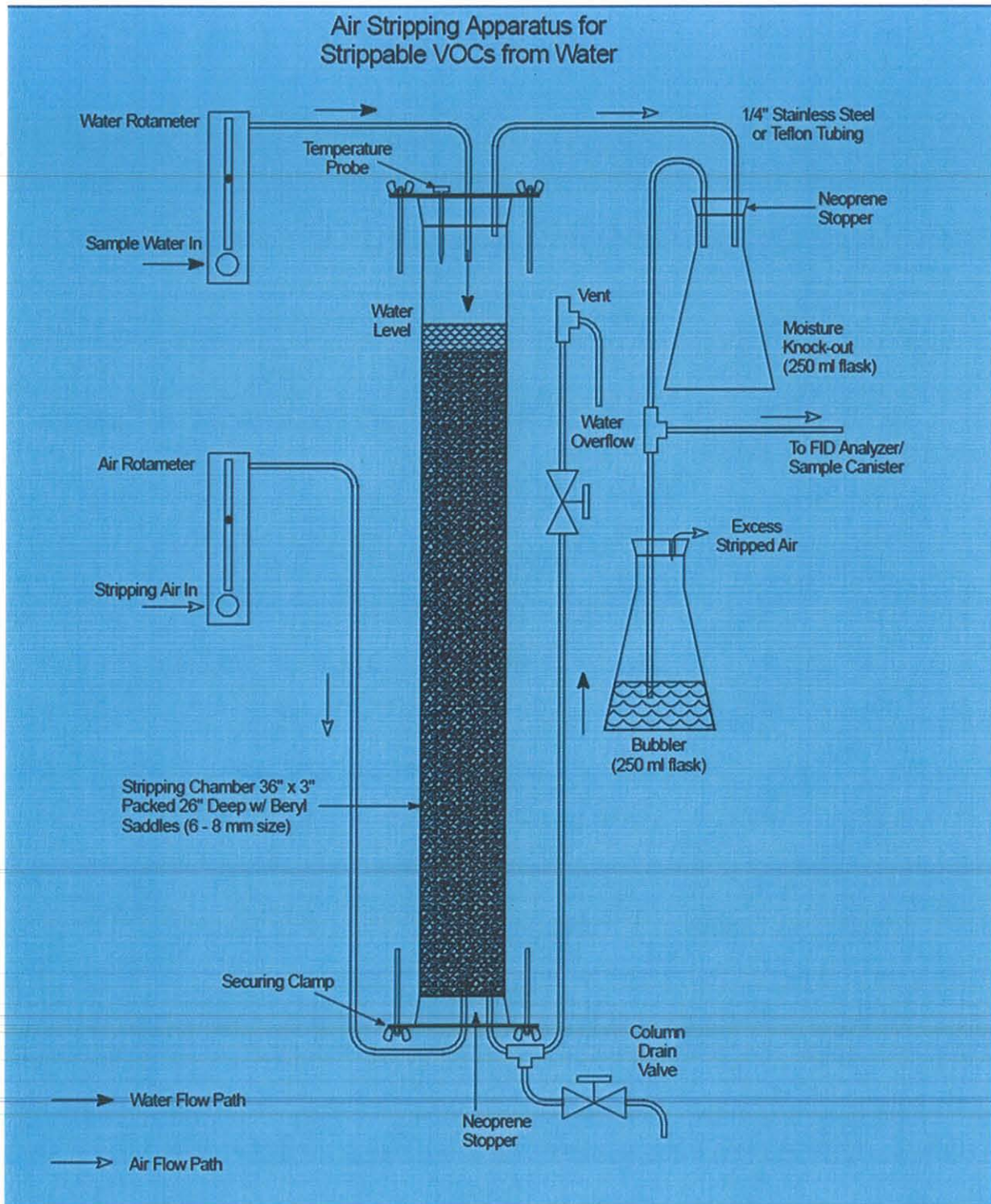
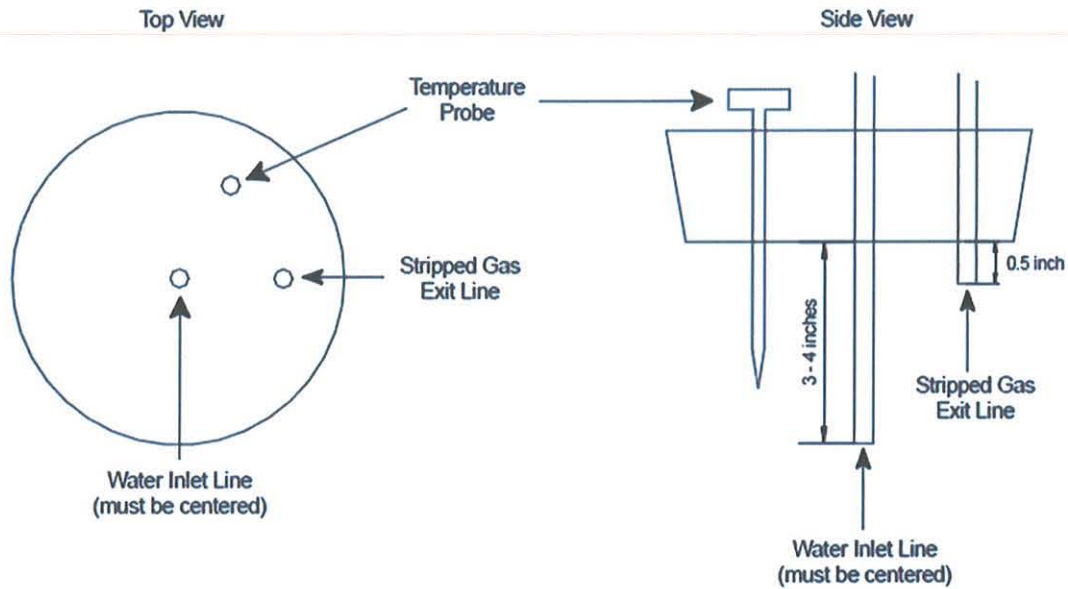


Figure 1 from the TCEQ Modified El Paso Method.

Figure 40-2

Air Stripping Apparatus
Stripping Chamber End Cap Design

Stripping Chamber Top



Stripping Chamber Bottom

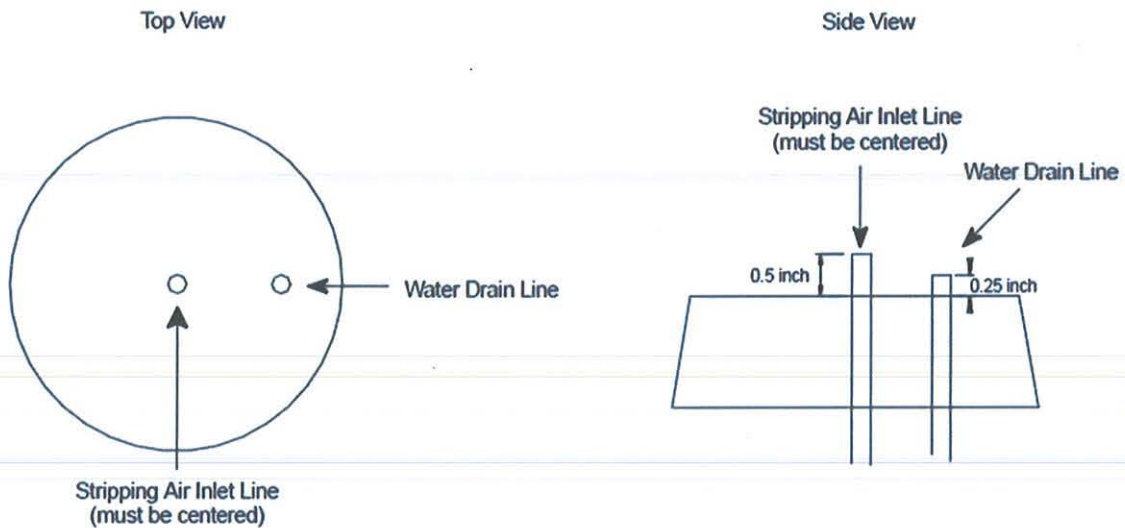


Figure 2 from the TCEQ Modified El Paso Method.

6. PRE-TEST PROCEDURES

- 6.1 Select a sampling point that meets the site criteria outlined in the TCEQ Modified El Paso Method. Choose a point in the return line header prior to distribution to different cells and release to atmosphere. Water should be under pressure and drawn from the vertical section near the base of the riser pipe or from the top of the horizontal section prior to the riser.
- 6.2 Assemble the sampling system as shown in Figure 40-1 and Figure 40-2.
- 6.3 Cleaning procedures should follow those outlined in the TCEQ Modified El Paso Method.
- 6.4 Leak test the sampling system by introducing zero-air into the system at a flow rate of 2500 ml/min and spraying Snoop solution or equivalent onto connections. No bubbling should be observed before proceeding.
- 6.5 Allow sample water to flush through the sample line for a minimum of five sample line volumes before connecting the water line to the apparatus. Make sure there are no air bubbles in the water rotameter.
- 6.6 Level the apparatus to prevent channeling.
- 6.7 Warm up the instruments according to manufacturers' instructions.
- 6.8 Introduce zero-air and span-gas into the analyzers and calibrate the instruments according to manufacturers' instructions. The analyzer should read 0.0 ± 0.2 ppmv with zero-air as the input and within $\pm 5.0\%$ of the high-level and mid-level calibration gas certified values. The mid-level calibration gas is optional if the VOC emissions are determined by GC or GC/MS speciation.

7. SAMPLING

- 7.1 Set the air flow rate to 2500 ml/min.
- 7.2 Fill the column with water to the top of the beryl saddle packing. Set the water flow rate to 125 ml/min.
- 7.3 Allow the apparatus to stabilize for at least ten minutes. Record the stabilization time, barometric pressure, ambient temperature, and cooling tower process water flow rate.
- 7.4 Attach the FID analyzer to the air outlet via direct interface and ensure the sample air outlet does not make contact with ambient air. Sample for at least 10 minutes. Record the air flow rate, the water flow rate, and the chamber temperature every 2 minutes.

- 7.5 Alternatively, a sample canister may be attached to the air outlet. A critical orifice, needle valve, or mass flow controller should be used to control the flow into the canister. Set flow to 1/10th of the canister volume per minute or less. Open the canister valve.
- 7.6 Sample for at least 10 minutes. Record the air flow rate, the water flow rate, the chamber temperature, and the canister vacuum every 2 minutes.
- 7.7 When finished, close the canister valve. Record the final sample canister vacuum, sample collection time, and sample ID. Analyze stainless steel canister samples within 5 business days of sample collection.
- 7.8 Before analysis, record the sample canister vacuum to determine if leaking has occurred. Pressurize the canister according to specifications in U.S. EPA Compendium Method TO-14A. If condensables have the possibility of existing in the canister, heat the canister above the stripping chamber temperature. Connect the canister to the FID analyzer and open the valve. The sample flow rate should be the same flow rate used for calibration and be held constant throughout the analysis. Ensure that there is enough sample to reach a stable output.
- 7.9 Tedlar® bags may be used if quality assurance and quality control guidelines are followed as described in Title 40, Code of Federal Regulations, Part 60, Appendix A, Method 18 for all target compounds. The recovery study outlined in Method 18, Section 8.4.2 must be performed and results must be corrected for percent recoveries. Tedlar® bags must be new, unused, and checked for leaks and contamination. Control the flow rate going into the bag by attaching a needle valve to the bubbler outlet and controlling the bypass. Set the bypass so that flow to the Tedlar® bag is between 500 ml/min and 1000 ml/min. Analyze Tedlar® bag samples within 72 hours of sample collection.
- 7.10 Alternatively, the canister or Tedlar® bag may be sent to a lab for analysis by U.S. EPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Compendium Method TO-14A or U.S. EPA Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography. Results from analysis shall be reported in THC concentration if under the limit in BAAQMD Regulation 11-10-304. When speciation is required, results shall be reported for individual compound concentrations.

8. AUXILIARY TESTS

Auxiliary tests provide supplementary or additional information that may be necessary to complete required calculations or the test procedure.

- 8.1 Volatile organic compound speciation and concentration. Use U.S. EPA Compendium of Methods for the Determination of Toxic Organic Compounds in

Ambient Air, Compendium Method TO-14A or U.S. EPA Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography to determine VOC speciation and concentration if any compounds have a response factor greater than 2, relative to methane.

9. CALCULATIONS

- 9.1 Use Equation 1 to calculate the concentration of air strippable compounds in the sample water matrix.

$$C = \frac{M \times (P \times 0.03342) \times b \times c}{R \times (T + 273) \times a} \quad (1)$$

C = Concentration of air strippable volatile organic compounds in the water matrix, ppmw.

M = Molecular weight of the compound, g/mol.

P = Pressure in the column, in Hg. Typically assumed the same as atmospheric pressure.

b = Stripping air flow rate, ml/min.

c = Concentration of volatile organic compounds in the stripped air, ppmv.

a = Sample water flow rate, ml/min.

R = Gas Constant, 82.054 ml-atm/mol-K.

T = Column temperature, °C.

0.03342 = Conversion from in. Hg to atm, atm/in Hg.

273 = Conversion from Celsius to Kelvin.

- 9.2 Use Equation 2 to calculate the mass emission rate of volatile organic compounds.

$$E = \frac{C \times F \times 60 \times 8.329}{1,000,000} \quad (2)$$

E = Mass emission rate of volatile organic compounds, lb/hr.

C = Concentration of air strippable volatile organic compounds in the water
matrix, ppmw.

F = Water circulation rate of source, gal/min.

60 = Conversion from minutes to hours, min/hr.

8.329 = Specific weight of water at 70°F, lb/gal.

1,000,000 = Conversion from ppm, ppm.

10. REPORTING

Figure 10.1

Distribution: Firm Permit Services Requester	BAY AREA AIR QUALITY MANAGEMENT DISTRICT 375 Beale Street, Suite 600 San Francisco, California 94105 (415) 771-6000 SUMMARY OF SOURCE TEST RESULTS	Report No. _____ Test Date: _____ <u>Test Times:</u> Run A: _____
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Source Information		BAAQMD Representatives
Firm Name and Address:	Firm Representative and Title:	Source Test Team:
	Phone No.	
Permit Conditions:	Source(s):	Permit Services / Enforcement
	Site No Facility ID Operates	Permit Con. No Hr./Day Day/Yr.

Operating Parameters:

Applicable Regulations:	VN Recommended:
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Source Test Results and Comments:

<u>METHOD</u>	<u>PARAMETER</u>	<u>OUTLET</u>	<u>LIMITS</u>
		<u>RESULTS</u>	<u>REGULATION PERMIT</u>

ST - 40 Strippable Volatile Organic Compounds, ppmv

NO COMMERCIAL USE OF THESE RESULTS IS AUTHORIZED

Air Quality Engineer	Date	Supervising Air Quality Engineer	Date	Air Quality Engineering Manager	Date

11. REFERENCES

- 11.1 Texas Commission on Environmental Quality Method "Air Stripping Method (Modified El Paso Method) for Determination of Volatile Organic Compound Emissions from Water Sources," Sampling Procedures Manual, Appendix P, January 2003.
- 11.2 United States Environmental Protection Agency Method 18 "Measurement of Gaseous Organic Compound Emissions by Gas Chromatography," Code of Federal Regulations, Title 40, Part 60, Appendix A, as amended through February 4, 2016.
- 11.3 United States Environmental Protection Agency Compendium Method TO-14A "Determination of Volatile Organic Compounds (VOCs) in Ambient Air Using Specially Prepared Canisters with Subsequent Analysis by Gas Chromatography," Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, U.S. EPA Document Number 625/R96/010b, January 1999.

PROCEDURE - 1

ORGANIC COMPOUNDS WATER SAMPLING**REF: Regulation 11-10****1. APPLICABILITY**

- 1.1 This procedure is used to sample cooling tower water for the quantification of hydrocarbon concentration. After sampling, the appropriate analytical water methods are selected based on process stream content.

2. PRINCIPLE

- 2.1 A continuous sample of cooling tower water is passed through a water collection system. The sample vial or bottle is purged with an inert gas before water is diverted into it. Water input and output points have a direct interface to prevent volatile compound loss from vaporization in ambient air. The sample is transported to a lab for hydrocarbon analysis.

3. RANGE AND SENSITIVITY

- 3.1 Range and sensitivity are determined by lab analysis methodology and instrumentation.

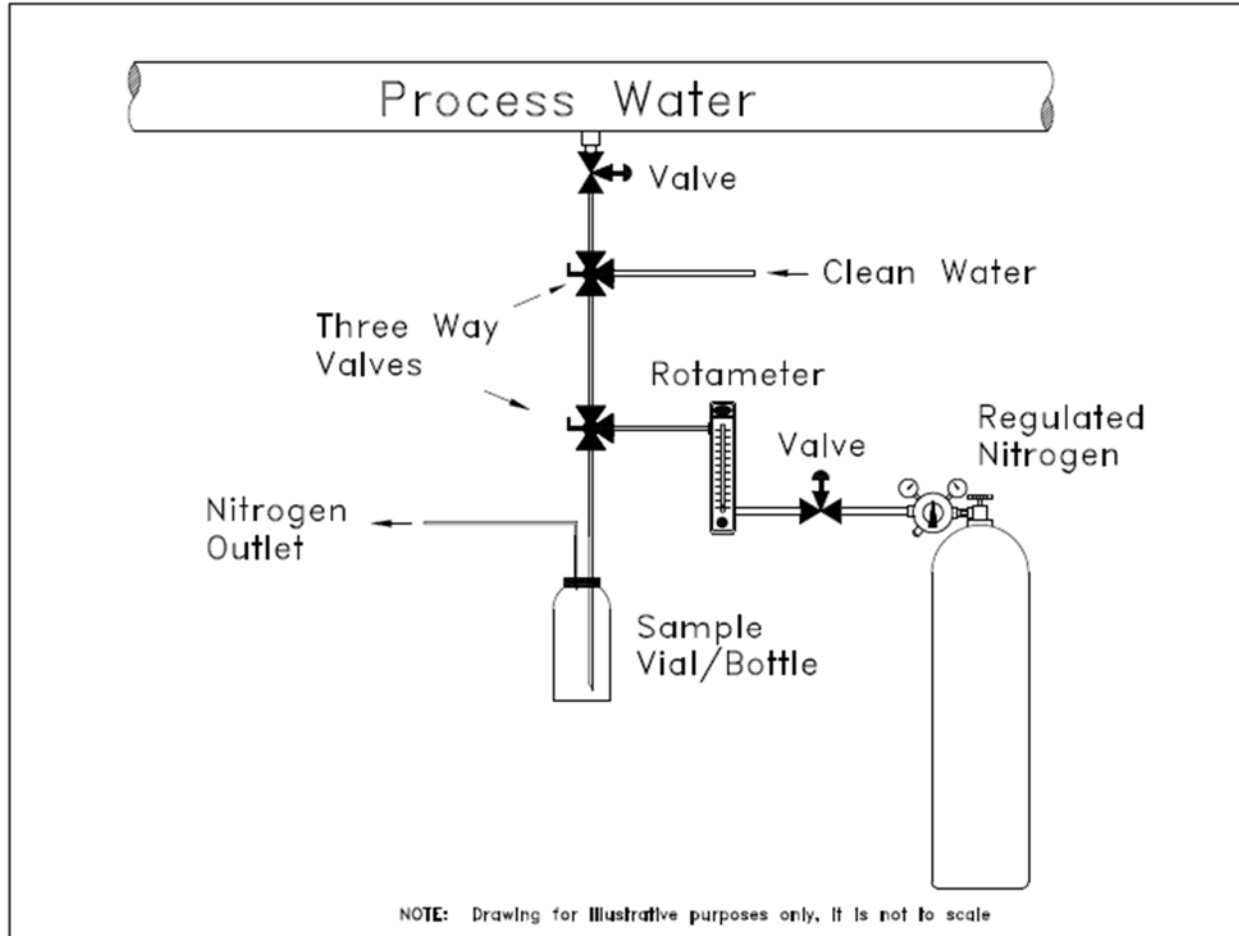
4. INTERFERENCES

- 4.1 The water collection system and sample vials/bottles should be kept clean to prevent contamination. Sample vials/bottles should only be opened immediately before usage and capped immediately after.
- 4.2 Headspace in the sample vials/bottles and exposure to the environment should be minimized to prevent vaporization and loss of volatile organic compounds.
- 4.3 Rubber can absorb volatile organic compounds. Use of that material is prohibited.
- 4.4 Temperature changes affect compound vapor pressures and can alter results. Keep samples in a temperature environment of 0 - 6°C or less and monitor temperature until lab analysis to prevent loss of volatile organic compounds.

- 4.5 Proper preservatives should be used to prevent the oxidation or volatilization of compounds before sampling. The sample vial or bottle should not be overfilled to avoid washing out the preservative.
- 4.6 A field blank or trip blank is taken to demonstrate that no diffusion of hydrocarbons through the septum seal or threaded screw top seal occurs.

5. APPARATUS

- 5.1 High purity nitrogen gas for purging. It should be certified to contain less than or equal to 0.1 ppmv total hydrocarbon (THC).
- 5.2 Amber glass sample vials or bottles and Teflon lined screw caps or screw caps with Teflon faced silicon septum. Vials should be a minimum of 25 mL and bottles should be 1 L or 1 qt. Wash with phosphate-free detergent, rinse with tap and then distilled water, and dry at 105°C. Preprocessed vials/bottles that meet conditions in SW-846, Chapter 4 are also acceptable. Clear glass sample vials may be used in conjunction with an opaque travel container. Minimize light exposure to the sample to the extent possible.
- 5.3 ¼ inch and ⅛ inch stainless steel or Teflon tubing. Tubing length should be minimized.
- 5.4 Stainless steel ball valves.
- 5.5 Stainless steel 3-way valves.
- 5.6 Rotameter with $\pm 2\%$ accuracy.
- 5.7 Temperature data logger.
- 5.8 Organic-free reagent water. The water should be as defined in SW-846, Chapter 1.

Figure 1

6. PRE-TEST PROCEDURES

- 6.1 Select a sampling point that meets the site criteria outlined in the TCEQ Modified El Paso Method. Choose a point in the return line header prior to distribution to different cells and release to atmosphere. Water should be under pressure and drawn from the vertical section near the base of the riser pipe or from the top of the horizontal section prior to the riser.
- 6.2 Assemble the sampling system as shown in Figure 1. Use $\frac{1}{8}$ inch tubing for the nitrogen purge outlet and $\frac{1}{4}$ inch tubing for all other sections. The tubing should extend into the bottle cap or septum. Inlet tubing should extend 80% down the length of the sample vial/bottle. An alternate sampling apparatus may also be acceptable upon approval by the Source Test Manager. Source Test should be supplied a detailed written description along with a diagram.

- 6.3 Once every 30 days take a field blank sample. Flush organic-free reagent water through the system for a minimum of five sample line volumes before stopping the flow of water. Remove external surface residuals and use organic-free reagent water to thoroughly rinse the external side of tubing at and below the cap level and the cap itself if using a reusable Teflon or glass one. Connect a sample vial or bottle and fill it with organic-free reagent water going through the system. Label the field blank with site ID, date, time, and sample type information. The organic-free reagent water flush is not necessary unless taking a field blank sample. The system may be exempt from the organics free reagent water flushes upon system design submittal and approval by the Source Test Manager. Field blanks will then be replaced with trip blanks.
- 6.4 Allow sample water to flush through the sample line for a minimum of five sample line volumes. Stop the flow of water and connect the sample vial or bottle. If the field blanks do not meet QC requirements in the lab analysis methods, the system should be disassembled and cleaned with a dilute phosphate-free detergent solution, rinsed with tap and then distilled water, and air dried. If the trip blanks do not meet QC requirements in the lab analysis methods, the sample transportation containers and sample vial, cap, and septa type must be reassessed. All samples collected from the last passing field or trip blank shall be reviewed to ensure that contamination did not negatively affect results, the review documented, and the rationale for the determination noted. These records shall be made available upon request.

7. SAMPLING

- 7.1 Preservatives should be added prior to sampling. If the sample contains residual chlorine, neutralize with sodium thiosulfate. If the sample contains aromatic compounds with a tendency to degrade like benzene, toluene, and ethyl benzene, acidify to less than pH 2 with 1:1 HCl. If the sample requires both preservatives be used, follow the sampling directions for aqueous samples with residual chlorine in SW-846, Chapter 4 instead of this procedure.
- 7.2 Purge the sample vial or bottle with a minimum of 2 sample vial/bottle volumes of nitrogen.
- 7.3 Switch the 3-way valves to direct process water into the sample vial/bottle. When the vial/bottle is full, remove the cap and tubing from the sample vial/bottle and continue to fill the volume previously displaced by tubing. Fill to the top of the vial/bottle to form a meniscus. Rinse the inside of the cap and septum with process water.
- 7.4 Close the vial/bottle with a Teflon lined screw cap or unpunctured septum and screw cap. Alternatively, VOA vials that come precleaned according to EPA

specifications and packaged with preservative may be used. Invert the vial to ensure that there is no head space. If bubbles are visible the sample should be discarded and a new sample should be taken.

- 7.5 Label the sample with site ID, date, time, preservation method if applicable, and sample type information.
- 7.6 Refrigerate immediately to keep the samples in a temperature environment of 0 - 6°C during transport to the laboratory. Set the temperature logger to take a minimum of one measurement per minute. Keep the temperature data logger with the samples and upload the log to ensure the temperature does not deviate. The sample should not be opened until laboratory analysis. Analyze the sample within 5 business days.

8. AUXILIARY TESTS

Auxiliary tests provide supplementary or additional information that may be necessary to complete required calculations or the test procedure.

- 8.1 Organics speciation and concentration. Use the methodology referenced in BAAQMD Regulation 11-10-603 in conjunction with EPA Method 5030 or 5035. Alternate analytical methods may be approved by the Laboratory Services Manager. Results from analysis shall be reported in total hydrocarbon concentration if under the limit in BAAQMD Regulation 11-10-304. When speciation is required, results shall be reported for individual compound concentrations.
- 8.2 Residual chlorine measurement. EPA Method 330.4, Total Residual Chlorine by Titration or EPA Method 330.5, Chlorine, Total Residual (Spectrophotometric, DPD).

9. REFERENCES

- 9.1 Texas Commission on Environmental Quality Method "Air Stripping Method (Modified El Paso Method) for Determination of Volatile Organic Compound Emissions from Water Sources," Sampling Procedures Manual, Appendix P, January 2003.
- 9.2 Washington State Department of Health Procedure "Volatile Organic Chemical (VOC) Sampling Procedure," DOH PUB #331-220.
- 9.3 U.S. Geological Survey Guide "Field Guide for Collecting Samples for Analysis of Volatile Organic Compounds in Stream Water for the National Water-Quality Assessment Program," Open-File Report 97-401, 1997.

- 9.4 United States Environmental Protection Agency Method 624 “Purgeables,” Part 136 Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, Appendix A, 1984.
- 9.5 United States Environmental Protection Agency Method 625, “Base/Neutrals and Acids,” Part 136 Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, Appendix A, 1984.
- 9.6 United States Environmental Protection Agency SW-846 Compendium “Organic Analytes,” Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, Chapter 4, Revision 5, July 2014.

BAAQMD Response to
WSPA Comments Regarding
Proposed MOP Revisions Proposed
On March 21, 2016 Workshop

Comment 1:

Several of the District's proposed changes are very significant and there is not sufficient time to implement them by the July 1, 2016 deadline specified in Regulation 11-10-304. The July 1, deadline is too ambitious to have an apparatus in place for the P-1 procedure.

Several of the proposed changes are either contradictory to rule language or represent new requirements for which formal rulemaking is necessary rather than just a change to the Manual of Procedures (MOP). With regard to the leak action level, Regulation 11-10 identifies standards of 42-84 ppbw for total hydrocarbons (in industrial cooling tower water) that are orders of magnitude more stringent than Federal drinking water standards for individual hydrocarbons and is not based on any evaluations of associated health risk. That value corresponds to Federal requirements, which identify an action level of 6.2 ppmC1 of strippable hydrocarbons in air – measured using portable handheld analyzers and the Modified El Paso Method – and when back calculated corresponds to approximately 84 ppbw of strippable hydrocarbons in the cooling tower water. While consistency is always desirable, there is no basis for requiring these severely elevated levels of precision.

The Maximum Contaminant Levels (MCLs) for the following contaminants in drinking water are as follows: ethylbenzene, 700 ppbw; styrene, 100 ppbw; toluene, 1,000 ppbw; xylenes, 10,000 ppbw. As such, the District's claim that hydrocarbon concentrations above 42-84 ppbw are "significant" is not understandable. Furthermore, the District's persistence on targeting all hydrocarbons regardless of whether or not they "strip" out of the water into the air (as identified in the draft MOP Volume XI, Procedure 1) is not technically justified and the District's jurisdiction is questionable.¹

¹BAAQMD, Refinery Emission Reduction Rules Response to Comments, Response to Comment #23 (p. 54). With regard to targeting all hydrocarbons, the District identifies that "it is more protective of public health to presume that all hydrocarbons in the cooling tower water are eventually emitted to the atmosphere", but this is not a realistic presumption for larger hydrocarbons; emissions reductions based on such a presumption are not actual reductions in air emissions.

WSPA (04-01-16) P1, p2; WSPA (04-29-16)** P1, p's 4 – 6, P3, p5.*

Response:

The Air District respectfully disagrees. Staff believes there is sufficient time for refineries to test, prepare staff and implement the cooling tower leak detection methods of their choice and were provided several testing methodologies to choose from. This MOP revision proposal does not have the authority to change the effective date of Rule 11-10. Doing so would amend Rule 11-10 which is not possible via a MOP proposal. Refineries that believe they have legitimate extenuating circumstances beyond their reasonable

control effecting their ability to meet the timelines set forth in Rule 11-10, and can substantiate the reason/s requiring a delay in implementation of Rule 11-10 requirements, may contact the Air District's Compliance and Enforcement Division to seek an Enforcement Agreement.

In order to be consistent with the current U.S. Environmental Protection Agency (EPA) guidance in MACT CC, staff set the leak action levels to 84 parts per billion by weight (ppbw) for water samples and 6.2 parts per million by volume (ppmv) for adapted Modified El Paso Method samples. The proposal adds analyzer detection and precision limits in order to ensure that refineries generate repeatable and accurate data from their cooling tower Total Hydrocarbon (THC) leak detection methods. The compounds identified in these comments as allowable in drinking water are considered volatile and would affect any of the EPA methods outlined above. In addition, these comments are contained in the rule language itself and were addressed in Response to Comments for Regulation 11, Rule 10 (Rule 11-10).

Comment 2:

The comments regarding timing and implementation of new procedures were made previously by WSPA, in written comments submitted on November 23, 2015. WSPA recognizes that Section 11-10-304 of Regulation 11-10 includes three different compliance options; however, draft MOP includes several significant changes for two of them (ST-40 and the Volume IX Water Sampling Procedure) and for the third (continuous analyzers) the District has still not provided any guidance with regard to what would or would not be approvable technology, so the problem of timing and implementation is still present.

WSPA (04-01-16) P2, p1.

Response:

Industry must choose which of the three methods they prefer to use to detect cooling tower THC leaks.

The Air District does not view the adaptation of the Texas Commission on Environmental Quality (TCEQ) MEPM as having significant changes and has worked with EPA to ensure method comparability. The new sampling procedure has been developed specifically to support the requirements of Rule 11-10 as opposed to the requirements for the Federal MACT CC or the TCEQ heat exchanger rules. Differences between the TCEQ and the proposed method were made specifically to address accuracy, repeatability and clarity issues, and were discussed with EPA.

Water sampling methods were developed based on current standards and methods currently in use at refineries, with specific methodologies outlined to ensure consistent and accurate results.

Continuous analyzers are one of several potential choices for the third measurement option (11-10-304.3), which is an alternative APCO-approved method. It is up to industry to research and find options other than 11-10-304.1 or 11-10-304.2, although staff is

aware of a number of potential options that might meet the measurement goal. This continuous measurement option provided in Rule 11-10 was developed specifically to provide refineries flexibility in selecting an alternative THC leak detection method, should refineries identify a method or technology that meets the goal of early and accurate cooling tower leak detection. As an APCO-approved method, each proposal is handled on a case-by-case basis, making guidance unnecessary. It is up to the refineries to present new methods as possible procedures for 11-10-304.3 for consideration of APCO approval.

Comment 3:

Because the implementation deadline for 11-10 (July 1, 2016) is imminent, WSPA reiterates our request at the March 21 workshop to separate and prioritize the changes related to 11-10 compliance, and address the draft Volume VI Air Monitoring Procedure separately. Our understanding from the workshop is that the District will include these into guidelines regarding fence-line monitoring.

WSPA (04-01-16) P2, p2.

Response:

The Air District has taken this request into consideration and has put all proposed revisions to Volume VI Air Monitoring Procedures on hold until a later date.

Comment 4:

The proposed changes are technically detailed and as a result our comments are also detailed; we have itemized them in the following attachments. Based on the changes proposed, it seems that the District is focusing on minutiae that are more pertinent to laboratory research than for monitoring for leak detection in the field.

WSPA (04-01-16) P2, p3; WSPA (4-29-16) P1, p3.

Response:

The Air District has made adjustments to minimize some of the “minutiae” based on the workshop discussions and subsequent comments, as appropriate. Those that remain in the proposed procedures are necessary in order to ensure that refineries generate repeatable and accurate data from their cooling tower THC leak detection methods.

Comment 5:

BAAQMD’s proposed procedure ST-40 does not provide minor modifications and clarifications to the federally required Modified El Paso Method (MEPM) as indicated by the Workshop Report. District staff has instead completely rewritten the method. While some portions either cross-reference the MEPM or include information in the MEPM, other portions include contradictions to MEPM, which would require several of the refineries to purchase or fabricate new equipment in addition to their existing MEPM equipment,² and would require retraining of personnel who collect samples (as well as possibly the analytical laboratories).

²MEPM is required by Federal regulation. Therefore, if BAAQMD’s proposed procedure is inconsistent with it (as opposed to simply a refinement that is still consistent), and BAAQMD has not obtained approval of

their method as an alternative to the Federally required method from US EPA, this requires refineries to sample the strippable hydrocarbons using both methods.

*WSPA (04-01-16) P3, p1; Tesoro P1, p4 and P2, p2***.*

Response:

Staff disagrees. ST-40 is not a complete revamping of the TCEQ MEPM. ST-40 adheres to the original method and has provided clarity to ensure repeatable accurate results. Staff characterizes ST-40 as an adaptation of the TCEQ MEPM and has worked with EPA staff to maintain adherence to MEPM's original intent.

There is no change to the sampling column/apparatus that would require fabrication. As stated previously, the major change involves performance standards for measurement equipment that can be met by instrumentation currently available on the market that will provide more accurate, repeatable results.

Comment 6:

The District has not identified the rationale or justification for all of the proposed changes and there is insufficient time to make these changes within the timeframe required by the Regulation. WSPA was given very little time to review and comment on the proposed procedure (the Workshop Report was published March 16 for a workshop on March 21 and comments due on March 28), and therefore these comments may not be exhaustive; however, some of the most significant issues include the following:

BAAQMD is proposing to require propane calibration gases in an unidentified diluent (ST-40 Sections 4.1, 5.14 and 5.15), which (a) conflicts with the federal requirements (Appendix P Sections 3.3.2 and 3.3.3) to use methane in air (a Flame Ionization Detector monitoring instrument (FID) cannot be simultaneously calibrated with both methane and propane) and (b) is inconsistent with the fact that Regulation 11-10 (11-10-204.2) specifies the standard is expressed "as methane". The rationale given in ST-40 Section 4.1 is that "propane used as a span gas minimizes...variability" but this is inconsistent with the fact that the District has promulgated other rules requiring FIDs calibrated with methane (including Regulation 8-18); furthermore, requiring that propane be used to determine compliance with a standard "as methane" and only identifying a specification with regard to response factors relative to methane (rather than propane) has the potential to significantly decrease the repeatability and accuracy of results (contrary to the objective identified in the Workshop Report), as described in more detail below. When propane is used as a calibration gas, the response factors relative to propane are the ones that are technically relevant (and they are generally less available from manufacturers), not response factors relative to methane (as specified in Sections 1.2 and 4.1 of ST-40).

This issue was also discussed in the March 21 workshop. One key issue is that the term "response factor" in both the MOP and MEPM should be clearly defined. For example, for handheld analyzers (which are used throughout most if not all of the country for complying with MEPM requirements), EPA Method 21 Section 3.6 defines "response factor" as "the ratio of the known concentration of a VOC compound to the observed meter reading when measured using an instrument calibrated with the reference compound".

However, for EPA Method 25A (which is applicable to the type of rack-mounted analyzer that the District is proposing to require), the interpretation of “response factor” is different, because the method includes a correction for the number of carbon atoms in molecules (i.e., the K value in Section 25A-1), and in the March 21 workshop, District staff indicated that they intended to use the K value to correct concentrations measured with a propane-calibrated analyzer to a methane basis.

The District’s proposed method of using propane calibration gas and the K value can significantly bias results relative to the situation where methane is used as a calibration gas. Given that even for rack-mounted Method 25A analyzers, the true correction for methane relative to propane can differ significantly from three (the ratio of the K values for the two molecules),³ particularly when air is the diluent rather than nitrogen.

In addition, additional error and variability can be introduced by the fact that response factors are typically not multiplicative: i.e., it is often not the case that the response factor for compound x relative to methane is equal to the response factor for compound x relative to propane multiplied by the response factor for propane relative to methane.

³See, for example, Tamura, T.M., “Devils in the Details: Air Emissions of Volatile Organic Compounds”, Air & Waste Management Association *EM* journal, March 2001, pp. 26-31.

WSPA (04-01-16) P3, p’s 2 - 4; P4, p’s 1 - 2; Tesoro P2, p’s 2 - 3.

Response:

Staff has addressed the timing issue in previous responses. This MOP revision proposal does not have the authority to change the effective date of Rule 11-10. Doing so would amend Rule 11-10 which is not possible via a MOP proposal. Refineries that believe they have legitimate extenuating circumstances beyond their reasonable control effecting their ability to meet the timelines set forth in Rule 11-10, and can substantiate the reason/s requiring a delay in implementation of Rule 11-10 requirements, may contact the Air District’s Compliance and Enforcement Division to seek an Enforcement Agreement.

The diluent is intentionally undefined. It is not necessary to define the diluent as long as the analyzer meets performance specifications.

The span gas has been changed from propane to methane to be consistent with Rule 11-10 language. However, staff has never seen the use of propane nor use of nitrogen as a calibration gas diluent as a problem in the field.

Regarding EPA Method 25A and the interpretation of response factors, the whole idea of ST-40 is to improve accuracy, repeatability and clarity of MEPM. Staff have proposed stricter analyzer performance requirements in order to achieve the Air District’s goals; especially when trying to detect low concentrations. In addition, staff incorporated feedback from EPA regarding determination of response factors to compounds in the proposed method.

Regarding significant fluctuations in the true correction for methane relative to propane, bench FID analyzers utilize an air source to keep the flame lit regardless, therefore, the presence of air versus N₂ in the sample does not bias results significantly. Using N₂ as a diluent makes the span gas more stable.

Comment 7:

BAAQMD identified in the March 21 workshop that their intent is to require the purchase of a completely new rack-mounted temperature-controlled FID analyzer, but (a) this detail is completely unnecessary given that Regulation 11-10's criteria for strippable hydrocarbons is 6 ppmv as methane (the Federal criteria of 6.2 ppmv as methane) and the District has previously proposed the use of handheld FIDs to measure hydrocarbon concentrations of 2.5 ppmv as methane,⁴ and (b) this is not feasible to accomplish prior to the July 1, 2016 compliance deadline.

With regard to the proposed ST-40, we see that specifications were substantially changed in the April 28 version of the procedure, but it is still unclear whether or not the District acknowledges that no commercially available handheld/portable analyzer is acceptable (as staff identified previously) or whether the changes allow for the traditional commercially available handheld/portable analyzers to be used.

The April 28 version of ST-40 also includes new text stating that,

"In order to confirm that compound response factors are less than 2, relative to ethane and this is the appropriate measurement technique for specific systems, an initial screening of the process water must be performed and the results reported to the Source Test Manager prior to using a FID analyzer."

It is unclear how to interpret this requirement given that the initial screening is likely to find little or no material present to judge response factors with. We also note that several of our previous ST-40 comments still have not been addressed. Those are,

- The statement that "response factors" are defined differently for Method 21 handheld/portable analyzers (which have traditionally been used for this procedure) than Method 25A rack-mounted analyzers that the District has identified that they would like to see used, and the District should define the term clearly for ST-40.
- Specifying, procuring, installing, and operating rack-mounted analyzers by July 1 is not feasible.
- Requiring minor changes to constants in regulatory changes is meaningless minutiae that simply add to confusion and the generation of different values for 11-10 compliance than for compliance with Federal requirements.

⁴BAAQMD, "Draft Sampling Study Protocol: Fugitive Emissions from Petroleum Refinery Equipment in Heavy Liquid Service", December 2015.

WSPA (04-01-16) P4, p3; WSPA (04-29-16) P4, p's 4 – 5, P5, p2; Tesoro P1, p's 4-5.

Response:

Staff developed performance-based requirements based on the need to measure compounds accurately and reproducibly at the levels required. Refineries may use whatever device they wish as long as it meets these performance requirements.

Staff has incorporated input from EPA in order to ensure collected samples adhere to response factor requirements.

Staff has addressed timing issues previously. This MOP revision proposal does not have the authority to change the effective date of Rule 11-10. Doing so would amend Rule 11-10 which is not possible via a MOP proposal. Refineries that believe they have legitimate extenuating circumstances beyond their reasonable control effecting their ability to meet the timelines set forth in Rule 11-10, and can substantiate the reason/s requiring a delay in implementation of Rule 11-10 requirements, may contact the Air District's Compliance and Enforcement Division to seek an Enforcement Agreement.

Staff is maintaining consistence with other constants used throughout Air District methodologies. Standard pressure is typically 29.92 inches of mercury (or equivalent), while standard temperature may be 20° C, 60° F or 70° F depending on the defining agency. All Air District methods use the same standard pressure (29.92 inches of mercury) and temperature (70° F) conditions throughout Air District testing methodologies.

Comment 8:

BAAQMD is proposing to require that analytical laboratories pressure canisters to 20 psig with nitrogen prior to analysis (ST-40 Section 7.8). However, TO-14A (Section 10.4.1.3) specifically states that:

"If pressure is <83 kPa (<12 psig), the user may wish to pressurize the canisters, as an option, with zero grade nitrogen up to 137 kPa (20 psig) to ensure that enough sample is available for analysis. However, pressurizing the canister can introduce additional error, increase the minimum detection limit (MDL), and is time consuming. The user should weigh these limitations as part of his program objectives before pressurizing." [emphasis added]

WSPA believes that BAAQMD should simply reference the language of TO-14A and leave it up to analytical laboratories' judgment as to whether the pressure is low enough that pressurization (of "up to" 20 psig) makes sense; the District identified in the March 21 workshop that they are amenable to such a change.

WSPA (04-01-16) P 4, p4.

Response:

Staff agrees with this assessment and have made changes to the proposed method. Post sample pressurization should only be used if absolutely necessary. Staff agrees that the analyst's discretion is key.

Comment 9:

ST-40 should clearly identify that the "Auxiliary Tests" (ST-40 Section 8) are optional (as identified by District staff in the March 21 workshop), not mandatory.

The draft version of ST-40 (Sections 8 and 11.1) cross-references the 2008 "BAAQMD Standard Operating Procedure for the Analysis of Hydrocarbons in Gaseous Samples (Hydrocarbons by GC)" but as mentioned in the March 21 workshop, the BAAQMD has not released a copy of that SOP for review. WSPA's understanding from the March 21 workshop is that staff will make that SOP available to WSPA and its members so that we comprehensively review proposed procedures. This is an action item from the workshop that the District committed to provide.

WSPA (04-01-16) P5, p's 2 - 3.

Response:

Staff agrees. This change has been made.

Comment 10:

In Section 9, BAAQMD largely incorporated equations in MEPM; however, a few constants were changed. For example, ST-40 Equation 9.2 looks similar to MEPM Equation 7-2; however, the MEPM equation constant for the specific weight of water (8.337 lb/gal) was changed to 8.329 lb/gal in ST-40 Equation 9.2. These types of changes are meaningless minutiae that simply add to confusion and the generation of "two sets of numbers", with no benefit. We request that calculation constants remain same as Appendix P unless meaningful justification can be provided.

WSPA (04-01-16) P5, p4.

Response:

These changes are based on what is defined as standard conditions, which vary depending on the definition of "standard". Standard pressure is typically 29.92 inches of mercury (or equivalent), while standard temperature may be 20° C, 60° F or 70° F depending on the defining agency. All Air District methods use the same standard pressure (29.92 inches of mercury) and temperature (70° F) conditions throughout Air District testing methodologies.

Comment 11:

Section 10 is not explained but appears to require a specific format for the summary of source test results that implies a requirement for triplicate tests ("Run A", "Run B", and "Run C"). In the March 21 workshop, District personnel identified that this was not intended; the form should be edited to avoid confusion.

WSPA (04-01-16) P5, p5.

Response:

Staff agrees. The suggested change has been made.

Comment 12:

BAAQMD's proposed "Procedure 1 – Organic Compounds Water Sampling" is inconsistent with what is specified in Regulation 11-10 and has no clear basis for many of its requirements.

The District has previously included a requirement for water sampling in at least one refinery's permit, and District engineers have relied upon and approved what that refinery has done in the past, yet the proposed Procedure 1 includes many more burdensome requirements without any statement of a clear basis and remains ambiguous with respect to important details.

In most cases it appears that it would require fabrication of new sampling apparatus and retraining of personnel who collect samples (as well as possibly the analytical laboratories). The District has not identified the rationale for all of the proposed changes and there is insufficient time to make these changes within the timeframe required by the Regulation.

WSPA (04-01-16) P6, p's 1 – 3; Tesoro P2, p's 5 - 6.

Response:

Staff have developed the proposed sampling methodology to ensure accurate, repeatable results. Staff have been clear about the biases and potential errors the sampling method is meant to address and has provided alternatives based on the chemical content of the cooling water.

Comment 13:

WSPA was given very little time to review and comment on the proposed procedure (the Workshop Report was published March 16 for a workshop on March 21 and comments due on March 28), and therefore these comments may not be exhaustive; however, some of the most significant issues include the following:

BAAQMD's proposal specifies a complex sampling apparatus (Figure 1 of Procedure 1) that requires a source of "clean water" (typically not feasible in the field), a cylinder of nitrogen gas, and a series of valves and other equipment that needs to be used everywhere that there is a requisite sampling point per Regulation 11-10.

WSPA's understanding from the March 21 workshop is that the District is amenable to removing the requirement for the Figure 1 apparatus, specifying clean VOA vials, and referring to the US EPA SW-846 requirements mentioned in our comments below. There is insufficient time to both fabricate equipment and train personnel by the Regulation 11-10 compliance deadline of July 1, 2016.

More importantly, however, this apparatus is not necessary. During the workshop it was discussed that accurate water sampling methodology is routinely used by the facilities,

and as explained in the March 21 workshop, purging with nitrogen and flushing with “clean water” to purge the sample lines is not necessary given that daily sampling will be sufficient to keep sample lines free of buildup.

In addition, because the method requires the sample to be introduced into the container, taken off the sampling apparatus, and then having sodium thiosulfate added to dechlorinate, the sample would be open to atmosphere, allowing degassing of the sample before it is transferred to vials where pH adjustments is made (further exposing the sample to atmosphere); any effects of the nitrogen purge would be lost. Requiring connection of the sample container to the sample line is counterintuitive to best management practice of not allowing the sample container to contact the sample line, minimizing external contamination; a BMP of opening the sample line and allowing sufficient time to purge the volume of the sample line before taking a sample would be preferable.

WSPA requests that if Procedure – 1 still requires the apparatus shown in Figure 1 of that Procedure, that the MOP specify that refineries are allowed to use alternative procedures – i.e., the methodologies that the District has allowed to be used prior to these MOP revisions – until December 31, 2016 to allow time to implement these new methods.

The District did post a new version of Procedure – 1 on the afternoon of April 28, which modified Section 7.1 to state:

“If the sample requires both preservatives be used, follow the sampling directions for aqueous samples with residual chlorine in SW – 846, chapter 4 instead of this procedure.”

However, it is unclear whether the District is directing that both preservatives are required and therefore the apparatus in Figure 1 and the rest of Procedure – 1 can be disregarded, or not?

WSPA believes it would be better to simply reference Chapter 4 of EPA’s SW-846 publication (the widely used standard), which is also referenced by EPA Method 8015D (identified in Reg. 11-10), Section 8.0.

WSPA (04-01-16) P6, p’s 4 - 8; P7, p1; WSPA (04-29-16) P2, p’s 3 – 4; Tesoro P2, p4, p’s 6-8, P3, p1.

Response:

Industry was granted three weeks beyond the comment deadline to provide additional comments. Staff has met twice with WSPA and the refineries after the comment deadline to allow additional comments in person and in writing to resolve several of the outstanding issues. Staff have incorporated many of the suggestions made by participants, based on staff’s desire to make the methods more accurate, repeatable and clear. This MOP revision proposal does not have the authority to change the effective date of Rule 11-10. Doing so would amend Rule 11-10 which is not possible via a MOP proposal. Refineries that believe they have legitimate extenuating circumstances beyond their reasonable control effecting their ability to meet the timelines set forth in Rule 11-10, and can

substantiate the reason/s requiring a delay in implementation of Rule 11-10 requirements, may contact the Air District's Compliance and Enforcement Division to seek an Enforcement Agreement.

Regarding the comment pertaining to the requirement for a sampling apparatus, all Bay Area refineries maintain CEM systems far more complex than what we are proposing in ST-40 and P-1, and do so 24/7. The use of the sampling apparatus is to minimize the amount of highly volatile hydrocarbons from being lost during sampling. It is staff's experience that these losses can be significant, however, if the refineries wish to offer alternatives and/or data that show that losses can be minimized without the apparatus, staff will incorporate that information into the next version of the method.

Procedure 1 was developed to minimize loss of highly volatile compounds, where possible, necessitating the use of nitrogen (N₂). Nevertheless, as stated in the previous response, samples that have residual chlorine utilize a dual stage process and will not require the N₂ purge step for samples with residual chlorine. Staff will provide additional guidance in its implementation plan to provide clarity on this issue.

Chapter 4 of SW846, only requires the dual stage, sodium thiosulfate preservative step if the sample contains residual chlorine. If samples do not have residual chlorine, and, do not need to add sodium thiosulfate, then the samples do not need to do a dual stage pouring from one container to the other. Thus, the argument that "the effects of the purge are lost" is moot. If samples do need both preservatives, then our Procedure-1 states refineries may use the Resource Conservation and Recovery Act (RCRA) sampling directions instead.

Language was kept general to allow for pre-certified VOA vials.

Comment 14:

Section 7 of proposed Procedure-1 requires a temperature data logger to record sample temperatures during transport to the laboratory with the requirement that the samples are kept at 0 to 4 degrees C every minute.

As identified in the March 21 workshop, it may take many hours to cool the samples down to this temperature; therefore, this requirement does not make sense and therefore WSPA requests that Sections 4.4 and 5.7 be removed. Best Management Practices (BMPs) involve transporting the sample on ice, and for the laboratory to make sure that the samples are sufficiently cool prior to analysis (which they are already accustomed to doing).

In the workshop, District staff identified that they would address this concern. As with the comment above, WSPA believes that the District should simply cross-reference the SW 846 specifications (0-6 °C) that contract laboratories are familiar with rather than identifying new specifications.

The Procedure-1 apparatus is particularly important because it is mandatory per Regulation 11-10-305.1, not simply an “option” as was portrayed in the Staff Report:

i.e., even facilities that opt to install continuous monitors or use the ST-40 method under 11-10-304 are required to follow the Procedure-1 requirements per 11-10-305.1.

During our April 19th meeting, District staff indicated a lack of awareness regarding the procedures which must be followed regarding the installation of new equipment in a refinery, being connected to process lines, and the associated timing.

Procedures vary from refinery to refinery, but overall, they involve the following steps regarding the complexity of the equipment:

1. Request for support from the refinery’s engineers to develop scope for the project, including specification of materials, metallurgy evaluations, process review, etc.
2. Document Management of change (MOC) for the project. This is required by Process Safety Management (PSM) regulations: evaluation of inherently safe aspects, process review, metallurgy review, health and safety review, environmental review, human factors analysis, process hazard analysis, etc.; sing-offs by relevant personnel, and possible kick-back by a reviewing personnel back to Step for scope of change.
3. Develop budgetary estimate for the construction of the apparatus, and connections to “clean water” and sample point, and request funding approval.
4. Engineering design for the project, and requests for proposal (by internal or external entities).
5. Initiate construction.

These procedures are in addition to any needs for potentially modifying equipment, obtaining District approval of those modifications, and training refinery personnel with regard to the use of the new equipment. We are measurably concerned that the degree of detail will likely require contractor monitoring specialists to be hired.

In the case of Procedure-1, the District has provided a drawing and identification of some materials, but refineries have their own space limitations for this apparatus as well.

The requirement for compressed nitrogen will involve safety requirements that have to be implemented as well: e.g., laying concrete for the path on which the cylinders will have to be rolled via the cart.

In the case of ST-40 (which is an optional compliance method under 11-10-304), the District has identified a minimum detection limit specification for a new FID analyzer, but it is up to the facility to determine where such an analyzer could be located, how to provide power and temperature control for it, how to provide for redundancy in case of equipment failure (since the District is now requiring daily sampling), and other issues.

The primary concerns with Procedure-1 that we identified in our previous comment letter still remain: the July 1, deadline is too ambitious to have the apparatus in place; in addition, we do not understand the technical basis for the nitrogen purge that is being required.

In our April 19th meeting it was our understanding that staff might entertain the idea of a research project to determine whether using the sampling apparatus described in Procedure-1 has any impact at all relative to current methods, but this idea has not been incorporated into the procedure either.

WSPA repeats its requests from our April 19th meeting to identify whether the District intends to use “TPH” analytical results to comply with 11-10-304 “total hydrocarbon” requirement (or if not, what conversion factor needs to be applied), and to identify which species need to be targeted with respect to 11-10-305 analytical requirements (taking into account the fact that there are a limited number of analytical laboratories that conduct EAP Method 8015D and these may not be capable of analyzing for every analyte listed in Table 2-5-1).

WSPA is also requesting that Section 7.4 of Procedure-1 be amended so that if there is some minor amount of headspace present that the sample be topped off, rather than completely discarding it (as the latter is unnecessarily wasteful).

WSPA (04-01-16) P7, p’s 2 – 4; WSPA (04-29-16) P2, p’s 9 – 11, P3, p’s 1-6, P4, p’s 1-3.

Response:

Temperature requirements state that samples must be stored in temperatures between 0 and 6° C.

Should a leak be identified using any of the methods allowed in Rule 11-10, a sample must be collected for speciation of hydrocarbons. This will require the use of Procedure 1.

Staff have addressed the need for N₂, and timing in previous responses. The Air District does not mandate how an instrument must be installed, and provides performance specifications to meet to ensure accuracy and repeatability.

Air District staff believe the requirements of the MOP for THC are consistent with the requirements of Rule 11-10. Appropriate analytical methods must be used to make these identifications and are more appropriately determined by information regarding the process stream and the laboratory capabilities and process.

Samples with headspace could result in loss of hydrocarbon concentrations and would no longer be representative. As a result, these vials should not be used for quantification.

Staff believes that this does not deviate from our original proposal significantly, and is a reasonable compromise.

Comment 15:

The proposed Procedure-1 (Section 9) requires the use of EPA Methods 8260 (for volatiles) and/or 8270 (for semi-volatiles) for analysis, which is inconsistent with the THC FID alternative identified in Section 2.2 and the EPA Method 8015D that is specified in Regulation 11-10 (11-10-603) and which the District identified in comments as “the right [method]”.⁵

The Procedure needs to be changed to be consistent with the rule language. Method 8015D is sufficient for purposes of the daily sampling required by 11-10-304.1; if the District’s intent was to specify that 8260/8270 need to be used to satisfy the speciation requirements in 11-10-305, this should be clearly stated.

⁵BAAQMD, Refinery Emission Reduction Rules Response to Comments, Response to Comment #33 (p. 61).

Other Procedure-1 comments in the March 31 comment letter that not have yet been addressed include:

- The analytical 8015D allows many different options regarding sampling procedures, and the District needs to be more specific with regard to which one it would like to see used.
- The District should allow facilities that monitor upstream and downstream of the cooling tower to look at different concentrations (i.e. realizing that some substances may not volatize) in order to speciate and quantify for toxics.¹

¹BAAQMD, Refinery Emission Reduction Rules Response to Comments, Response to Comment #23 (p. 54). With regard to targeting all hydrocarbons, the District identifies that “it is more protective of public health to presume that all hydrocarbons in the cooling tower water are eventually emitted to the atmosphere”, but this is not a realistic presumption for larger hydrocarbons; emission reductions based on such a presumption are not actual reductions in air emissions.

WSPA (04-01-16) P7, p’s 5 – 6; WSPA (04-29-16) P4, p3; Tesoro P3, p’s 6 - 7.

Response:

Again, staff believes this was done not to be “inconsistent”, but to give refineries alternatives for analysis; especially since cooling water composition will vary greatly based on processes that may be contributing to leaks. The preferred method has been changed to be consistent with the regulation and sampling methods are defined in Procedure 1.

Guidelines for the speciation of toxics will be addressed in the Rule 11-10 Implementation Plan.

Regarding the comment on allowing refineries to monitor and compare THC concentrations upstream and downstream of cooling towers, the cooling tower water monitoring requirements in Section 304.1 in Rule 11-10 is based on 63.654 (c) in the

MACT CC. Section 304.1 in Rule 11-10 is more conservative than comparing THC concentrations between the cooling water return line versus the supply line. Thus, section 304.1 is tailored along the lines of the MACT CC.

Comment 16:

With regard to sample preparation, proposed Procedure-1 is vague, saying (in Section 9) that the analysis should “utiliz[e] the appropriate and applicable EPA (SW-846) sample preparation method(s) (5000, 5030, 5031, 5032, and/or 5035)”.

Given that there is still some subjectivity and judgment associated with sample preparation method selection, the District should clearly specify which method complies with the District’s procedure. We also request deleting the sentence “*Analysis will identify and calculate ppb-w concentration for compounds from C1 up to C15 having the potential to be found in the associated process stream*”. Speciation is not necessary for daily samples, and when speciation is required, laboratories are accustomed to analyzing in accordance with methods (which typically do not cover all compounds from C1 up to C15). (Also, as mentioned in the workshop, compounds as heavy as C15 will not volatilize appreciably, even at cooling water temperatures, and District staff acknowledged this.)
WSPA (04-01-16) P7, p’s 7 – 8; Tesoro P3, p2.

Response:

Staff has provided this to allow for flexibility, as contained in the EPA guidance, however. EPA methods 5030 and 5035 have specifically been recommended in the Auxiliary Tests section. Speciation analysis is only required when a leak has been identified as defined in Rule 11-10.

Comment 17:

Procedure 1 does not identify a range or sensitivity, only that “range and sensitivity are determined by lab analysis methodology and instrumentation”. At a minimum, assumedly, the procedure needs to be sensitive enough to detect concentrations of 42- 84 ppbw (as methane) in the sample, given that these are the standards identified in Regulation 11-10 (11-10-204.1).

WSPA (04-01-16) P8, p’s 1 - 2.

Response:

This language was developed by staff to provide method flexibility. As this is a sampling procedure and not a quantification methodology, this is outside the scope of Procedure-1.

Comment 18:

Given that the District’s standard of 42 ppbw of total hydrocarbons (in industrial cooling tower water) for new or modified cooling towers is orders of magnitude more stringent than federal drinking water standards for individual hydrocarbons, the District should first conduct a field validation to confirm whether the proposed procedure is even capable of accurately detecting the hydrocarbons at this concentration, especially given that the District is proposing an extensive amount of sample handling prior to analysis:

- Section 4.5 implies the field addition of preservatives;
- Section 7 requires a purge with nitrogen gas that is typically certified to contain no more than 100 ppbv total hydrocarbons;
- Possible neutralization with sodium thiosulfate and possible acidification with hydrochloric acid, both of which could contain trace hydrocarbons;
- Flushing with “clean” water, which could possibly contain trace hydrocarbons; etc.)

If the District has evaluated the accuracy and feasibility of this requirement, WSPA requests that the details of this evaluation be provided. Tesoro understands that the District is willing to propose side by side sampling results to validate the water sampling process.

WSPA (04-01-16) P8, p’s 2 – 3; WSPA (04-29-16); Tesoro P3, p’s cost3 and 5.

Response:

As stated previously, the standards provided are based on EPA requirements, as a result, staff are basing their requirements on previously developed detection requirements.

Response to first bullet – Staff have made it clear that preservatives can be added prior to sampling, if there are no adverse chemical reactions that may occur between preservatives.

Response to second bullet - The nitrogen purge is required to minimize volatile hydrocarbon loss. Staff has modified the nitrogen purging requirement so that it must be conducted only under certain circumstances.

Response to the third bullet - This issue can be solved by ensuring an appropriate grade of purity of the preservative and an appropriate quality control/quality assurance (QC/QA) program.

Response to the fourth bullet - The flushing step has been modified to specify the use of “organics-free reagent water” as defined in SW-846, Chapter 1.

This is consistent with references, including SW-846, Chapter 4.

The Air District proposed to observe side by side water sampling. Staff observed water sampling at the Valero refinery. In staff’s opinion, there were aspects of the process that could lead to inaccurate results and instances where method clarity led to potential errors.

Comment 19:

Proposed Procedure 1 requires that all VOA vials be amber; however, this will be confusing to laboratory personnel, which use clear HCL-preserved vials and clear vials for analyses of volatiles, but amber vials for analyses of semi-volatiles. Cross-referencing SW-846 will eliminate the need to have to specify vial colors in Procedure 1.

WSPA (04-01-16) P8, p4.

Response:

The method has been modified to address this issue.

Comment 20:

During the March 21 workshop, the District also clarified that there only needs to be one sample blank per set of samples sent to the laboratory. This should be clearly identified in the Procedure.

WSPA (04-01-16) P8, p5.

Response:

The method has been modified to provide more clarity.

Comment 21:

With regard to sample turnaround times identified in Reg. 11-10—i.e., the requirement in 11-10-304.1 to “every sample and analyze...at least once calendar day” and the requirement in 11-10-305 to “speciate and quantify...within one calendar day of discovering the leak”, the District clarified in the March 21 workshop that this meant that laboratory results needed to be analyzed/quantified by the refineries within one calendar day of receiving the lab results, not that the laboratories need to run samples and turn around QA/QC’d results within less than 24 hours of receiving samples.

This language should be included in Procedure 1 (or possibly in a Compliance Advisory) to avoid confusion/ambiguity. The 7-day laboratory turnaround time identified in Section 7.5 of Procedure 1 is reasonable.

WSPA (04-01-16) P8, p6; P9, p1.

Response:

Staff modified the method to allow for a 5 business-day turnaround. However, samples must be collected and shipped for analysis on a daily basis.

Comment 22:

When a leak is detected, BAAQMD should allow for the difference between return and supply line sampling results to speciate and quantify toxics required in 11-10-305.

WSPA previously commented that the District should apply the leak action level to the difference between the return line to the cooling water tower from the process units and the water exiting the cooling water tower—i.e., the strippable hydrocarbons, which is the origin of the action levels of 84 ppbw in the water and 6 ppmv C1 in the air—rather than just the return line to the tower, since in some cases the hydrocarbons will not strip into the air and the concentration in the line exiting the cooling water tower provides an indication of this.

The District responded in December that “staff has determined that leaks are more accurately detected via the required method in Regulation 11, Rule 10”; however, this response is inconsistent with the District’s determination of the action level, and the District has not adequately evaluated the feasibility or cost of applying this action level to all hydrocarbon measured in the water even the non-strippable hydrocarbon.

WSPA (04-01-16) P9, p’s 2 – 4; Tesoro P3, p7; P4, p1.

Response:

See response to comment #15. The reason the Air District is not allowing refineries to compare THC concentrations upstream and downstream of cooling towers in Section 11-10-304.1 is because of Section 63.654 (c) in the MACT CC. Since section 11-10-304.1 is more conservative than comparing THC concentrations between cooling water supply and return lines, it is similar to Section 63.654 (c) in the MACT CC.

Comment 23:

The Reg. 11-10 staff report assumed \$0 capital cost for the daily sampling and analysis option (Page C-9). The costs used for the cost-effectiveness calculations in the staff report should be consistent with the expected costs to be in compliance with this MOP procedure. There should not be additional requirements added in the MOP that were not considered while the rule was being developed (e.g., the capital cost to install a complicated sampling apparatus).

WSPA (04-01-16) P9, p5; Tesoro P4, p2.

Response:

Costs were adequately addressed in the socioeconomic analysis for Rule 11-10. While it is true that capital costs were not anticipated for the revised MEPM those capital costs are quite modest and well within the worst-case cost scenarios analyzed in the socioeconomic analysis for Rule 11-10. Staff estimates that it would cost less than \$15,000 to purchase the equipment needed to comply with the MEPM proposed. In the most extreme and unlikely case given the options contained in the methodology, where Tesoro would have to purchase 14 separate equipment package (one for each cooling tower at the facility), it would result in a cost of \$210,000. Using the Air District's standard assumptions of useful life and cost of capital, this translates into an additional \$28,560 per year. This would raise the cost of compliance using the revised MEPM from \$85,000 per year to \$113,560 per year at Tesoro, which is the most impacted facility. For comparison, this larger number is approximately 0.0025% of annual profits at Tesoro. This is a much lower annual cost than some other scenarios (such as daily sampling) that the Air District analyzed and determined had an insignificant economic impact on these facilities.

Comment 24:

Per our discussion at the Workshop and per BAAQMD's suggestion, WSPA requests the proposed MOP amendment be combined with the Air Monitoring Guidelines that are part of Reg. 12-15 Fenceline Monitoring due to significant overlap.

BAAQMD is proposing to change the MOP to:

- Require new monitoring instrumentation (i.e., collocated meteorological monitors for GLM monitors established after December 31, 2016) (Section 1.2),
- Require control of shelter temperature to be between 20 °C and 30 °C, and to monitor the temperature every minute (Section 1.2),

- To conduct daily checks (Section 1.6), and
- To require that refineries provide and maintain an FTP site, post data to it every 24 hours, and (within 6 months after the effective date of the MOP modification) make “a real-time web-display of all monitored data...available to the public”.

WSPA (04-01-16) P10, p’s 1 - 2.

Response:

This proposed revision is being deferred until a later date.

Comment 25:

WSPA requests that the district provide the technical basis for the proposed shelter temperature range. One of the WSPA members had a BAAQMD audit conducted while the shelter temp was 18°C and it passed the audit. In addition, not all WSPA members have the capability to provide continuous temperature information.

WSPA (04-01-16) P 10, p3.

Response:

This proposed revision is being deferred until a later date.

Comment 26:

The measurement frequency should accommodate short-term temperature fluctuations due to opening shelter doors, etc.; this clarification should be incorporated into these procedures. WSPA also recommends including some allowance for when heaters/air conditioners need to undergo maintenance.

WSPA (04-01-16) P10, p4.

Response:

This proposed revision is being deferred until a later date.

Comment 27:

Currently, Regulation 1-540 requires examination of the GLM data at “intervals no greater than seven days”. The proposal in the MOP to conduct daily checks directly conflicts with the Regulation. In order to change from once every 7 days to once per day, the Regulation would need to be changed and this increase in monitoring frequency would need to be justified. With regard to the requirement for “daily checks” and FTP data uploads, subject matter experts are typically not available on weekends and holidays.

WSPA (04-01-16) P10, p5.

Response:

This proposed revision is being deferred until a later date.

Comment 28:

The development of a web-display of all monitored data will take time to implement to address firewall and cyber-security concerns as well as potentially developing communication methods for any erratic data such as calibration “spikes” or power failures.

A requirement for web-display is better addressed alongside Reg. 12-15 fence-line monitoring data requirements.

WSPA (04-01-16) P10, p6.

Response:

This proposed revision is being deferred until a later date.

Comment 29:

Per the discussion in the March 21 workshop, the updates to the air monitoring MOP are substantive proposed amendments that may have unintended implications that require further discussion. It would be helpful to have written documentation of the District's intent, as there has been no written justification for any of the proposed amendments.

WSPA (04-01-16) P11, p1.

Response:

This proposed revision is being deferred until a later date.

Comment 30:

Some of the proposed amendments incur substantial costs, substantial ongoing maintenance and technical manpower conditions, contain new potential compliance criteria, include step-changes to historical emissions monitoring and reporting, and require time for implementation. Some of the proposed types of changes amount to "underground rulemaking" and should more appropriately be proposed through the rulemaking process following requirements in the Health and Safety Code.

WSPA (04-01-16) P11, p2.

Response:

This proposed revision is being deferred until a later date.

Comment 31:

Tesoro views the proposed changes to the MOP as overly complex and not necessary. Tesoro urges the District to consider the challenges of deviating from well understood EPA testing methodologies which can be adapted with little to no change. If the District opts to completely or largely ignore the comments below and require the refineries who choose either water sampling or el Paso methodologies and to install either the water sampling apparatus and/or equipment to conduct revamped the Modified El Paso Method, then Tesoro requests that the compliance date for the testing provisions in 11-10 be changed to January 1, 2017. In order to sample per District requirements the refinery will have to engineer changes, procure equipment, train personnel and then go through an appropriate Management of Change to implement the requirements safely. Without knowing specifically what the requirements will be, there is very little progress that can be made in meeting the requirements. By not finalizing these changes any earlier than May 18, 2016, the district has effectively removed 5 months of time from the refinery to come into compliance.

Tesoro P1, p's 2 - 3.

Response:

This MOP revision proposal does not have the authority to change the effective date of Rule 11-10. Doing so would amend Rule 11-10 which is not possible via a MOP proposal. Refineries that believe they have legitimate extenuating circumstances beyond their reasonable control effecting their ability to meet the timelines set forth in Rule 11-10, and can substantiate the reason/s requiring a delay in implementation of Rule 11-10 requirements, may contact the Air District's Compliance and Enforcement Division to seek an Enforcement Agreement.

Comment 32:

ST-40 shows the requirement for a detection limit of 0.05 ppmv with a sensitivity of 2% of full scale for the continuous analyzer, which will require rack-mounted analyzers in laboratory condition. This effectively removes the ST-40 method as a monitoring option that can be put in place by July 1, and increases the cost substantially.

More importantly, however, this apparatus is not necessary. During both the meetings with District staff, it was discussed that accurate water sampling methodology is routinely used by the facilities, and resulting analysis is used by the District in special conditions of Title 5 permits. As explained in the March 21st and April 19th workshop, purging with nitrogen and flushing with "clean water" to purge the sample lines is not necessary given that daily sampling will be sufficient to keep sample lines free of buildup.

Also, requiring connection of the sample container to the sample line is counterintuitive to best management practice of not allowing the sample container to contact the sample line, minimizing external contamination; a BMP of opening the sample line and allowing sufficient time to purge the volume of the sample line before taking a sample would be preferable.

Tesoro P2, p's 1, 6 and 8.

Response:

Staff modified detection limits in response to comments. The requirements are performance based and not instrument based. The stripping column and requirements for when stainless steel canisters or Tedlar bags are needed is the same as the TCEQ MEPM.

Clean water has been changed to organic-free reagent water as defined and referenced in SW-846. Other requirements contained in the sampling method reduce the potential loss of highly volatile hydrocarbons (N₂ purge- not required when this step will not produce the desired result,), and are there to reduce the potential for cross-contamination and proper sampling handling (field cleaning step and use of blanks).

Comment 33:

Tesoro believes it would be better to simply reference Chapter 4 of EPA's SW-846 publication (the widely used standard), which is also referenced by EPA Method 8015D (identified in Reg. 11-10), Section 8.0.

Tesoro P3, p1.

Response:

If specific conditions are met, Chapter 4 of EPA's SW-846 is the default procedure.

Comment 34:

Speciation is not necessary for daily samples; rather Method 8015D can be used as a screening tool (for both volatile and semivolatile organics) to obtain semiquantitative data as an indication of hydrocarbon leaks from exchangers. When speciation is required, laboratories are accustomed to analyzing in accordance with methods (which typically do not cover all compounds from C1 up to C15). (Also, as mentioned in the workshop, compounds as heavy as C15 will not volatilize appreciably, even at cooling water temperatures, and District staff acknowledged this.)

Tesoro P3, p2.

Response:

Staff is developing reporting details and will include them in the Implementation Plan for Rule 11-10. Reporting of individual compound concentrations will not be required unless the leak detection limit is attained for a given sample.

Regarding the comment to conduct a field validation study, this is a sampling procedure only. No quantification occurs with this procedure.

Regarding the comment on Section 4.5, it implies the presence of preservatives within the sampling vials, not the addition of preservatives in the field. VOA vials with preservatives already added are referenced in the procedure as suitable for use.

Regarding the comment with respect to "clean water", this was changed to "organic-free reagent water" as referenced and defined in SW-846.

Comment 35:

The District has not provided the following guidance:

- The acceptability of the standard TPH range of the method.
- The approved conversion from TPH (DRO+GRO) from the analysis to Total Hydrocarbon (as methane) for limit check.

- The acceptability of the laboratory reporting limits greater than the 84 ppbw "leak action level". (Each method has a minimum value that can be reported with confidence which is the "Limit of Quantitation" or "Reporting Limit". This is typically the lowest concentration used in the calibration curve used for quantitation. There is also an estimated (J) value range that can be "detected" that is above the Method Detection Limit, but below the LOQ.)

Tesoro P3, p4.

Response:

Regarding the first two bulleted comments, testing labs should be able to perform this conversion.

The method defines the analytical method to be used. In communications staff had with various contract labs, refineries will be able to adequately detect compounds as outlined. Staff will consider whether this requires additional clarification to ensure laboratories apply the specified method appropriately and, if so, will address it in an implementation plan.

Comment 36:

Tesoro urges the BAAQMD to make our recommended revisions so that emissions from cooling towers can be assessed in a cost effective manner. Establishing requirements that will mandate the use of new, unnecessary, and expensive equipment for no emission measurement or reduction benefit is contrary to District cost effectiveness policy. We urge District staff to incorporate our requested changes.

Tesoro, P4, p3.

Response:

The Air District has made revisions to the proposed procedures based on input from WSPA and the individual refineries as well as EPA and the TCEQ. The whole purpose of Rule 11-10 and the associated MOP procedures is to ensure that emissions from cooling towers can be detected consistently and accurately in a cost efficient manner.

* Refers to WSPA comments received on 4-1-16

** Refers to WSPA comments received on 4-29-16

*** Refers to Tesoro Refinery comments received on 5-2-16

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Eric Mar and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: May 4, 2016

Re: Planning Healthy Places

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

Although air pollution levels throughout the region have decreased in recent decades, some communities in the Bay Area still experience higher levels of air pollution and therefore higher incidences of adverse health effects than others. The CARE Program and Clean Air Communities Initiative have sought to identify these disproportionately impacted areas and reduce local emissions and exposures. However, air pollutant concentrations remain elevated in close proximity to major air pollution sources, such as freeways and large industrial facilities. Often, these areas with higher levels of air pollution are located in cities where infill development is planned to occur. High density, mixed-use and transit-oriented development is critical in order to reduce air pollution emissions from on-road vehicles, and for the region overall to attain health based ambient air quality standards and to reduce greenhouse gas emissions. However, potential exposure of sensitive populations to air pollution in these areas should be addressed early in the planning process to ensure that healthy infill development is planned appropriately in these communities.

DISCUSSION

To address the issue of “healthy infill development”, Air District staff lead an effort to prepare a guidance document entitled, *Planning Healthy Places*. The document includes recommended feasible and effective “best practices” to minimize exposure and emissions in local communities. In addition, staff created an online mapping tool which shows locations throughout the region with estimated elevated levels of air pollution. *Planning Healthy Places* provides information for local governments to address and minimize potential air quality issues early in the land use planning process. The purpose of this effort is to support infill development – which is vital to reducing VMT and the associated air pollutant and GHG emissions – while minimizing exposures and promoting clean, healthy air for existing and future residents. In developing *Planning Healthy Places*, staff convened extensive discussions with local planning directors,

regional agency staff, and numerous stakeholders. The final document reflects input received. Staff will provide the Board of Directors with a summary of *Planning Healthy Places*.

BUDGET CONSIDERATION/FINANCIAL IMPACT

Resources to support and implement *Planning Healthy Places* are included in the proposed Fiscal Year Ending (FYE) 2017 budget.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

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