



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

ADVISORY COUNCIL PUBLIC HEALTH COMMITTEE

AGENDA

COMMITTEE MEMBERS

JANICE KIM, M.D., CHAIRPERSON
CASSANDRA ADAMS
JEFFREY BRAMLETT
STEVEN T. KMUCHA, M.D.

KAREN LICAVOLI-FARNKOPF, MPH
LINDA WEINER
BRIAN ZAMORA

WEDNESDAY
APRIL 9, 2008
1:30 P.M.

ROOM 716

1. **Call to Order – Roll Call**
2. **Public Comment Period**

Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3. The public has the opportunity to speak on any agenda item. All agendas for Committee meetings are posted at the District, 939 Ellis Street, San Francisco, at least 72 hours before a meeting. At the beginning of the meeting, an opportunity is also provided for the public to speak on any subject within the Committee's purview. Speakers are limited to five minutes each.

3. **Approval of Minutes of February 13, 2008**
4. **Review and Discussion of Final Draft Strategy for Asthma as it Relates to Indoor Air Quality**

The Committee will review and discuss the final Draft Strategy for Asthma as it relates to Indoor Air Quality for referral to the full Council.

5. **Overview of the Community Air Risk Evaluation (CARE) Program**

Phil Martien, Senior Advanced Project Advisor, will present to the Committee an update on the CARE Program and the West Oakland Health Risk Assessment.

6. Committee Member Comments/Other Business

Committee members, or staff, on their 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 on any matter or take action to direct staff to place a matter of business on a future agenda.

7. Time and Place of Next Meeting: 1:30 p.m., Wednesday, June 4, 2008, 939 Ellis Street, San Francisco, CA 94109.

8. Adjournment

CONTACT EXECUTIVE OFFICE - 939 ELLIS STREET SF, CA 94109

(415) 749-5127
FAX: (415) 928-8560
BAAQMD homepage:
www.baaqmd.gov

- To submit written comments on an agenda item in advance of the meeting.
- To request, in advance of the meeting, to be placed on the list to testify on an agenda item.
- To request special accommodations for those persons with disabilities notification to the Clerk's Office should be given in a timely manner, so that arrangements can be made accordingly.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

EXECUTIVE OFFICE:
MONTHLY CALENDAR OF DISTRICT MEETINGS

APRIL 2008

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	2	9:45 a.m.	Board Room
Advisory Council Air Quality Planning Committee <i>(Meets 1st Thursday of each even Month) – RESCHEDULED TO THURSDAY, APRIL 10, 2008</i>	Thursday	3	9:00 a.m.	Room 716
Board of Directors Executive Committee <i>(At the Call of the Chair) - CANCELLED</i>	Thursday	3	9:30 a.m.	4th Floor Conf. Room
Board of Directors Personnel Committee <i>(At the Call of the Chair)</i>	Friday	4	10:00 a.m.	4 th Floor Conf. Room
Advisory Council Technical Committee <i>- (Meets 1st Monday of each even Month)</i>	Monday	7	9:30 a.m.	Board Room
Advisory Council Public Health Committee <i>(Meets 2nd Wednesday of each even Month)</i>	Wednesday	9	1:30 p.m.	Board Room
Advisory Council Air Quality Planning Committee <i>(Meets 1st Thursday of each even Month)</i>	Thursday	10	9:00 a.m.	Room 716
Board of Directors Executive Committee <i>(At the Call of the Chair)</i>	Thursday	10	9:30 a.m.	4th Floor Conf. Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	16	9:45 a.m.	Board Room
Joint Policy Committee	Friday	18	10:00 a.m. – 12:00 p.m.	BCDC 50 California St., 26 Fl. San Francisco, CA
Board of Directors Legislative Committee <i>(Meets 4th Monday of every Month)</i>	Monday	21	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Budget & Finance Committee <i>(Meets 4th Wednesday of each month)</i>	Wednesday	23	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Mobile Source Committee <i>– (Meets 4th Thursday of each Month)</i>	Thursday	24	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Legislative Committee <i>(Meets 4th Monday of every Month) – RESCHEDULED TO MONDAY, APRIL 21, 2008</i>	Monday	28	9:30 a.m.	4 th Floor Conf. Room

MAY 2008

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Public Outreach Committee <i>(Meets 1st Thursday every other Month)</i> - CANCELLED	Thursday	1	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Public Outreach Committee <i>(Meets 1st Thursday every other Month)</i>	Monday	5	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	7	9:45 a.m.	Board Room
Advisory Council Regular Meeting <i>(Meets 2nd Wednesday of every odd Month) –</i> RESCHEDULED TO THURSDAY, MAY 15, 2008	Wednesday	14	10:00 a.m.	Board Room
Advisory Council Regular Meeting <i>(Meets 2nd Wednesday of every odd Month)</i>	Thursday	15	9:00 a.m.	Board Room
Advisory Council Executive Committee <i>(Meets 2nd Wednesday of every odd Month)</i>	Wednesday	15	Immediately Following the Advisory Council Regular Meeting	Room 716
Board of Directors Climate Protection Committee <i>(Meets 3rd Thursday every other Month)</i>	Thursday	15	9:30 a.m.	4 th Floor Conf. Room
Joint Policy Committee	Friday	16	10:00 a.m. – 12:00 p.m.	MTC 101 - 8 th Street Oakland, CA 94607
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	21	9:45 a.m.	Board Room
Board of Directors Mobile Source Committee – <i>(Meets 4th Thursday of each Month)</i>	Thursday	22	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Budget & Finance Committee <i>(Meets 4th Wednesday of each month)</i>	Wednesday	28	9:30 a.m.	4 th Floor Conf. Room

JUNE 2008

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Advisory Council Technical Committee <i>(Meets 1st Monday of every even Month)</i>	Monday	2	9:30 a.m.	Board Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	4	9:45 a.m.	Board Room
Advisory Council Public Health Committee <i>(Meets 2nd Wednesday of every even Month)</i>	Wednesday	4	1:30 a.m.	Room 716
Advisory Council Air Quality Planning Committee <i>(Meets 1st Thursday of every even Month)</i>	Thursday	5	9:00 a.m.	Room 716
Board of Directors Stationary Source Committee <i>(Meets 3rd Monday quarterly)</i>	Monday	16	9:30 a.m.	Board Room

JUNE 2008

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	18	9:45 a.m.	Board Room
Board of Directors Legislative Committee <i>(Meets 4th Monday of every Month)</i>	Monday	23	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Budget & Finance Committee <i>(Meets 4th Wednesday of each month)</i>	Wednesday	25	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Mobile Source Committee <i>– (Meets 4th Thursday of each Month)</i>	Thursday	26	9:30 a.m.	4 th Floor Conf. Room

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4/2/08 (9:10 a.m.)
P/Library/Forms/Calendar/Calendar/Moncal

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109

DRAFT MINUTES

Advisory Council Public Health Committee
1:30 p.m., Wednesday, February 13, 2008

1. **Call to Order:** Chairperson Kim called the meeting to order at 1:38 p.m.

Roll Call: Janice Kim, M.D., Ph.D., Chairperson, Cassandra Adams, Jeffrey Bramlett, Steven Kmucha, M.D., Linda Weiner, and Brian Zamora.

Absent: Karen Licavoli-Farnkopf, MPH

2. **Public Comment Period:** There were none.

3. **Approval of Minutes of December 12, 2007:** Mr. Zamora moved approval of the minutes, seconded by Ms. Adams, carried unanimously.

4. **Review and Discussion of Final Draft Strategy for Asthma as it Relates to Indoor Air Quality:** Chairperson Kim opened discussion of the ongoing topic from outgoing Chairperson Bramlett. Ms. Adams suggested adding within the Recommendations a group of resources for people with asthma who have no health insurance. Ms. Weiner would like to add the Asthma Coalition to that list – the Regional and Local Asthma Coalition to number one; because she felt they gear themselves toward those residents who are most impacted. Dr. Kim asked if staff had a recommendation about local health departments being an important resource referral. The proposal was made to move the draft recommendation to the Full Council. Ms. Adams moved approval of that proposal. Ms. Weiner seconded. The motion carried unanimously.

5. **Update on the Proposed Regulation 6, Rule 3: Woodburning Devices**

Janet Glasgow, Air Quality Program Manager, Compliance and Enforcement division presented the group with an update on the rule.

- Ms. Glasgow gave an overview on the Air District's Regulation 6, Rule 3: Woodburning Devices, and reviewed the Advisory Council's role in the current process. An update with what is happening in other key Districts regarding wood smoke, and a review of proposed Regulation 6, Rule 3, and issues that came out of workshops was provided. Finally, next steps were covered.
- In December 2006, the EPA lowered the 24-Hour standard for PM_{2.5} from 65 micrograms per cubic meter to 35 micrograms per cubic meter. The Bay Area exceeds that standard on average 20-30 days per year, although this winter's Spare The Air Tonight season just ended on Monday, February 11, 2008, and only two exceedences have been recorded so far. The measurement of monitor stations

does take several weeks; there will be more being analyzed in the next couple of weeks. The largest contributor to wintertime PM is wood smoke. Wood smoke is the largest fraction of PM_{2.5} within the Bay Area, and it is logical to focus our regulatory development and financial resources on such a large piece of the PM_{2.5} pie. In addition, this large contribution occurs primarily during the wintertime, and therefore this is the timeframe during which our rule will focus.

- This committee took the initiative two years ago to research what other districts were doing at that time.
 - The Puget Sound Clean Air Agency and the San Joaquin Valley Unified Air Pollution Control District sent representatives to speak before the committee and work with District staff to share their experiences. Based on those committee meetings and recommendations, the full Advisory Council recommended a multi-pronged effort, specifically phased in over several years, to include rule development, increase public outreach and a District-wide incentivized wood stove replacement program. Following Board approval, staff began work in 2007 on these three approaches. Staff has continued to keep in touch with the two districts which had curtailment programs in place. Many other districts throughout California and the West had woodburning device control measures on the sale and installation end, but only these two listed districts had an actual ban or curtailment on wood burning at that time. Puget Sound has had almost 15 years of enforcement of their two-stage program. Stage I prohibits burning in fireplaces or of uncertified woodstoves at 35 micrograms per cubic meter. Stage II prohibits any burning at 60 micrograms per cubic meter, as forecast, unless it is the only source of heat for that household. Its enforcement program has several options as shown, if they find residents in violation of its rule, they do require enforcement action. They will waive the fine if a noncertified stove is replaced with a certified device.
 - San Joaquin Unified is in its fifth year of enforcing a mandatory curtailment. They utilize the Air Quality Index and use a one-stage approach, as the curtailment portion only is enforceable at one stage. They have a voluntary curtailment, which they call at 100 aqi for PM, and the mandatory curtailment is imposed at 150 aqi. Last winter they had 39 mandatory curtailments, and had up to 50 voluntary curtailments, because they call it by county, it varies across the district, depending upon which county you are looking at. Its curtailment is also based PM₁₀, because they have had it in place before the new standard went into effect for PM_{2.5}.
 - Sacramento Metropolitan AQMD did adopt a mandatory episodic curtailment rule in October 2007, with two different curtailment levels, on top of a voluntary level.
 - South Coast AQMD has been in rule development for over a year. They propose a mandatory curtailment, but only beginning in the year 2013, and it would be only targeted to areas where they have exceedences.

Ms. Glasgow reviewed the provision in Regulation 6, Rule 3:

- Curtailment – no burning – in any woodburning device would be required when PM_{2.5} is forecast to reach unhealthy levels, indoor and outdoor, which is under Regulation 5 at present. Recreational fire was basically defined, not to include food cooking.
 - Exemptions for sole source of heat
 - Exemption for unavailability of natural gas
- Visual limit will be 20% opacity. District inspectors are certified to read the plumes.
- Exemption for startup of a new fire for a period of 20 minutes within any 4-hour period.
- Sale of new or used devices require devices to be
 - EPA Phase II certificated
 - Pellet fuel
 - Masonry heater
 - Approved in writing by the Air District and meet low-mass fireplace emission targets
- Any new construction involving installation would have to meet the same criteria as the sale of any device
- Prohibition of garbage burning, and burning of inappropriate materials, such as:
 - Chemically treated wood
 - Non-seasoned wood
 - Plastic
 - Paint
 - Particle board
 - Pallets
 - Any other material not intended for use in a woodburning device
- Requirement for sale of wood intended for home fire use, to have a moisture content of 20% or less by weigh, with labeling to that effect; and a public awareness statement on that label about curtailment, contact information for curtailment notifications, and health effects of wood smoke.
- Regulations 1 and 5 need amendments for indoor and outdoor residential burning residential heating and recreational fires.

Ms. Glasgow reviewed the Public Workshops that were held, media, and public responses. The concerns reached from these workshops were as follows

- EPA certified woodburning devices and pellet stoves should be allowed to burn during any curtailment period.
- Smaller curtailment areas within the District, similar to San Joaquin's District
- Sole source of heat exemption needs clarification
- Consider a low income exemption related to sole source

- Curtailment threshold needs to be explicit
- How will curtailment be enforced?
- How will the public know when to burn and when not to?
- Could the District require distribution of public outreach information on wood that is sold?
- The labeling requirement for this District would be too costly
- Was the mandatory curtailment provision constitutional?

Next steps, Ms. Glasgow stated that the Technical, Legal, Planning and Engineering staff was evaluating the comments received to find what could be incorporated and what would not. This was expected to be done shortly, as was revisions to the draft regulation; after that, a socio-economic study and CEQA review were anticipated, as was a full EIR, with refinery flare minimization and the toxics new source review rule as precedents. Focus on the EIR for this rule would be on the generation of greenhouse gases resulting from regulating indoor woodburning. An enforcement plan was being developed, as well as outreach for notification purposes and education, in future workshops.

Ms. Weiner asked if there was any language addressing management of rental units' responsibility for enforcement, for low income renters who want to comply, but cannot afford to fix the fireplace in their apartment. Ms. Glasgow responded that more specific exemption provisions were being put into the rule. Dr. Kim inquired whether the public comment period was closed, to which Ms. Glasgow responded that it was. In response to a question from Dr. Kim, Ms. Glasgow stated the regulation would be enforced during the wintertime, as PM_{2.5} exceedances had not occurred outside of that period; however, the visible emission standard would apply all year round.

Ms. Adams inquired what percentage of the 20% limit for off-road would be for construction equipment; Ms. Glasgow indicated she would provide that information, as well as agricultural burning. Ms. Adams asked what the sources were for Ammonium Nitrate and Ammonium Sulfate, to which Ms. Glasgow and Planning Department Director Henry Hilken replied that they are "NO_x" emissions from refineries, feedlots, sewage treatment plants, marshes and industrial sources. The District has contracted to get a specific inventory for the Bay Area for Ammonium, for PM modeling.

Discussion ensued regarding public comments and reporting to Advisory Council in advance of the rule adoption.

Mr. Zamora asked about enforcement being complaint-driven. Wayne Kino was referred to by Ms. Glasgow as the person working on a plan addressing this; Mr. Kino referenced a method of using infrared technology for reading, with a step-by-step approach to enforcement, and noted night-certified inspectors as well.

Dr. Kim asked about opportunities for a hotline to alert inspectors. Mr. Kino responded that some combination would include areas to survey with complaint traffic to alert inspectors. Ms. Glasgow added that enforcement had moved from strictly complaint-based to a hybrid model, incorporating surveillance, in use by other districts more recently.

Mr. Zamora suggested the announcements regarding workshops, if forwarded could be put up on websites.

Mr. Bramlett asked if low income exemptions take into consideration ambient health hazards posed to neighbors. Ms. Glasgow responded that the sole-source exemption originally proposed was misconstrued by many people, and indicated it was being re-written to address the meaning of “sole-source” of heat, and every other consideration would be spelled out individually.

Dr. Kim thanked Ms. Glasgow for her work.

7. Discussion for Possible Topics/Guest Speakers for Future Meetings

A discussion regarding assignments commenced, including the following points:

- CARE report; gather perspective from different stakeholders in anticipation of the report coming out sometime this year.
- Briefing from staff on the CARE program could be scheduled
- Air Resources Board is working on Health Risk Assessment for West Oakland, scheduled for March 2008
- Update in April to the Committee on ARB’s HRA
- Possibility of Health Officer from Alameda County to speak to the Air Quality issues in West Oakland and what the Air District can do
- The Port’s perspective

8. Committee Member Comments/Other Business

Committee members or staff made comments and announcements and asked questions.

6. Time and place of next meeting: 1:30p.m., Wednesday, April 9, 2008, Room 716, 939 Ellis Street, San Francisco, CA 94109.

7. Adjournment: The meeting adjourned at 2:40 p.m.

Jean Marie Mink
Temporary Executive Secretary

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, California

[Date]

To: Advisory Council Public Health Committee
From: Janice Kim, M.D.
Subject: Strategy for Asthma as it Relates to Indoor Air Quality

Topic

Recommendations to the Bay Area Air Quality Management District (District) regarding its role and how it can interface with the public, Local Health Departments, County Health Officers, state and federal governments, and non-governmental organizations on asthma as it relates to indoor air quality.

Importance/Implications

In 2004 and 2005, the Council considered the District's role in IAQ and made recommendations including organizing a regional IAQ Workshop, establishing a graduate student Investigator to research impacts of regional air pollution on indoor environments, and developing general information for the public with an initial focus on residences and schools. (provide dates recommendations were made & recorded).

In 2007, the District asked the Advisory Council to provide additional guidance on IAQ and Asthma.

Over the past two decades, the prevalence of asthma in both children and adults has increased dramatically in the United States. Asthma is a chronic inflammatory disease of the airways that affects more than 22 million Americans with 2,761,404 children and adults in California having asthma.^{1,2} In the Bay Area alone, almost 525,000 people suffer from this condition.²

The reason for the increase in asthma is complex and an area of very active research. Although genetics is a major factor in the development of asthma, new studies suggest that environmental exposures at critical periods can influence the development and progression of airway inflammation that can lead to clinical asthma.³ It is likely that multiple determinants including environmental exposures may contribute to the development and the severity of asthma in a given individual.

Outdoor pollutants, including ozone, particulate matter (soot), and wood smoke can exacerbate asthma. Outdoor pollutants can penetrate indoors to varying degrees; the ratio of the indoor to outdoor concentration of pollutant depends on the nature of the

pollutant, building characteristics including whether windows/doors remain open, and whether there are other sources of the pollutant indoors.⁴

Factors in the indoor environment, including indoor air pollution may also play a role in the increasing asthma problem.⁵

District staff report that they receive frequent calls from people who express concern about odors and indoor air pollution as sources causing asthma attacks. Currently, staff responds to inquiries by recommending the caller seek medical evaluation and contact their county health organization. The frequency of these calls has reached a level that prompted staff's request for guidance on their role in this area and how to enhance current response efforts.

Key Issues

Confirming asthma is a concern:

District staff report that people, with increasing frequency, have been contacting the district because they believe they have asthma. Staff also reported that they believed caller's are aware that the incidence of asthma has increased over the last few years and that certain geographic regions and locations report a greater prevalence of asthma. Committee members noted that some callers may not have been diagnosed with asthma or may not be discussing their symptoms with their health care provider

Indoor environmental exposures related to asthma:

The Institute of Medicine has conducted a comprehensive review of the scientific studies on asthma and indoor air exposures. Indoor exposures to biological materials e.g. animal dander, house dust mite, cockroach products, molds spores and environmental tobacco smoke have been linked to the development and exacerbation of asthma.⁵

Respiratory irritants can affect healthy individuals, and asthmatics can be especially sensitive. Respiratory irritants commonly found indoor settings include (1) combustion by-products (e.g. fine particulates, nitrogen dioxide and other gases), (2) volatile organic compounds (VOCs) including formaldehyde and (3) harsh volatile inorganic chemicals that can a noxious odor and cause respiratory irritation (e.g. bleach).⁶ Although many respiratory irritants have been linked to exacerbations of asthma, their role in causing asthma is less clear.^{5,6}

Common indoor sources of combustion products include tobacco smoke, fireplaces, wood-burning stoves, and unvented gas or kerosene space heaters, gas stoves and other poorly vented gas appliances. Common sources of formaldehyde indoors include furnishings and building materials made of particle board, plywood, medium density fiberboard (MDF). Common indoor sources of other VOCs, include solvents, paints, adhesives, new carpets, household cleaning products, pesticides, fragrances, and air fresheners.⁶

Additionally, reactive pollutants such as ozone can combine with emissions from with cleaning compounds to form potentially harmful products. Cleaning a large surface area in a small room can lead to levels that may cause symptoms.⁷

Asthma management guidelines (2007) by the National Institutes of Health recommend control of environmental factors that affect asthma, including “avoid(ing) exposure to environmental tobacco smoke and other respiratory irritants, including smoke from wood-burning stoves and fireplaces and if possible, substances with strong odors.”³

The US Environmental Protection Agency (US EPA) has an indoor air program with emphasis on outreach and education. A California Air Resources Board (CARB) report to the legislature on Indoor Air Quality in 2005 stated that “there is no systematic program (in California) to improve indoor air quality, and there are relatively few regulations or standards to address individual indoor air quality problems.”⁷ CARB has since adopted two measures that will improve indoor air quality: (1) limitations on ozone emissions from air cleaning devices and (2) implementation of airborne toxic control measures to reduce formaldehyde emissions from composite wood and also furniture and other finished products made with composite wood products. Although emissions of chemicals from consumer products are largely unregulated, the California EPA (CalEPA) in collaboration with other agencies are developing emissions standards for materials and furnishings for California High Performance Schools and state office buildings.

Recommendations

1. Develop a program on Indoor Air Quality and Asthma with the objective of aiding callers in more efficiently addressing their concerns by referring callers more accurately to the correct resource (Local Health Departments, non-governmental organizations, and federal and state programs). District staff should also encourage the callers to discuss their symptoms with their health care provider since there are many triggers of asthma.
 - a. Consider having a designated staff member participate in the quarterly meetings of the California Interagency Working Group on Indoor Air Quality (<http://www.cal-iaq.org>). This will enable BAAQMD program staff to keep informed on current indoor air quality issues and policy and interact regularly with experts in the field.
 - b. Callers who do not have a healthcare provider should be referred to the County Medical Associations and lack medical insurance should be referred to their county health department for assistance. Contact information for local health departments, Bay Area Asthma Coalitions and County Medical Associations are provided (see attachments).
2. Consider focusing the program on organizing and facilitating the provision of existing information to callers.

3. Consider expanding the District's webpage on Indoor Air and consider the development of the District's own print material. District should consider including in this material at least the following areas:
 - a. Recommendation to callers that they work with health professionals and organizations that provide asthma outreach and education to obtain an accurate diagnosis and receive optimal medical management of their asthma, including identification of asthma triggers and best practices to remove or control asthma triggers.
 - b. Highlights of the work the District is already proactively addressing (CARE, ozone, particulate matter, wood burning control) and the controls related to these programs that callers can implement.
 - c. A brief discussion about air cleaners including avoidance of ozone generators and referring callers to additional materials provided by the California Air Resources Board and US EPA
 - d. A list of external resources for staff and callers
4. Consider the inclusion of program measures to track the volume and kinds of calls, type of referral made, and number of inspections made, if applicable.

References

1. National Center for Health Statistics. Centers for Disease Control www.cdc.gov/nchs/fastats/asthma.htm Accessed on March 31, 2008.
2. American Lung Association's State of the Air Report, 2007, www.californialung.org accessed on October 26, 2007.
3. National Heart Lung Blood Institute, National Institutes of Health. Guidelines for the Diagnosis and Management of Asthma (EPR-3) <http://www.nhlbi.nih.gov/guidelines/asthma/index.htm> accessed on March 31, 2008.
4. CS Mitchell et al. Current State of the Science: Health Effects and Indoor Environmental Quality. 2007. Environ Health Persp 115:958-964,
5. Institute of Medicine Report. Clearing the Air: Asthma and Indoor Air Exposures, 2000.
6. American Academy of Pediatrics, Pediatric Environmental Health Handbook, 2nd edition, 200x. Chapter x Indoor Air.
7. California Air Resources Board, Indoor Air Chemistry, Cleaning Agents, Ozone and Toxic Air Contaminants, W. W. Nazaroff, UC Berkeley, April 2006. <http://www.arb.ca.gov/research/abstracts/01-336.htm>
8. California Air Resources Board, AB 1173 Indoor Air Quality Report <http://www.arb.ca.gov/research/indoor/ab1173/ab1173.htm>

Information Considered

Members considered reports to the Committee from:

Jack Colbourn, Director, Outreach and Incentives Division, BAAQMD

Jami Aggers, Compliance Manager, Compliance Division, San Joaquin Valley Unified Air Pollution Control District

Janet Glasgow, Air Quality Program Manager, Compliance and Enforcement Division, BAAQMD

Jenny Bard, Communications Director, American Lung Association of California

Jim Nolan, Director of Compliance, Puget Sound Clean Air Agency

John Crouch, Director of Affairs, Hearth, Patio and Barbecue Association (HPBA)

Judy Goldblatt, Public Information Officer, Outreach and Incentives Division, BAAQMD

Kathy Hayes, Government Affairs Director, North Bay Association of Realtors

Peggy Jenkins, CARB Indoor Exposure Assessment Section Research Division

Peter Hess, BAAQMD

Jed Waldman Ph.D., Chief, Indoor Air Quality Section, CDHS

Elinor Blake, Chair Public Health Committee and Chair Advisory Council

Barbara Spark, Indoor Air Program Coordinator, US EPA Region IX

Dr. Manuel Pastor,

Robert Sawyer, Ph.D, Chairperson, CARB

D. Fairley, , , BAAQMD

D. Vintze, ,BAAQMD

Richard Jackson, MD MPH

Deborah Jordan, Air Division Director, US EPA Region IX

Bart Ostro

Deliberative Process

The Public Health Committee was asked to consider this topic by the Council as part of its work starting in 2007. The Committee met on October 10 and December 12, 2006, February 14, June 13, and October 10, 2007, to receive and discuss presentations on the issues. The Committee unanimously arrived at its recommendation for forwarding to and consideration by the full Advisory Council. A chronology of the Committee's deliberations, and the presentations received on this matter, are available upon request.

Attachment 1: Bay Area Asthma Coalitions

DRAFT

BAY AREA ASTHMA COALITIONS

more information at www.rampasthma.org

***Alameda County:**

Oakland Berkeley Asthma Coalition, Oakland

Contact: Lynn Dailey

ldailey@ci.berkeley.ca.us

Elizabeth Edwards

eedward@alamedaalliance.org

Oakland Berkeley CAFA Project

(CAFA: California Action to Fight Asthma)

Contact: Mindy Landmark, Coordinator

Ethnic Health Institute

510. 869-8226, landmam@sutterhealth.org

Oakland Kicks Asthma, Emeryville

Contact: Adam Davis, Program Director

American Lung Association of California

510. 893-5474, x304, adavis@alaebay.org

West Oakland Asthma Coalition, Oakland

Contact: Valerie Allums, Outreach Coordinator

510. 763-1880, vallums@yahoo.com

Ethnic Health Institute, Oakland

Asthma Sub-Committee

Contact: Mindy Landmark, Coordinator

510. 869-8226, landmam@sutterhealth.org

***Contra Costa County:**

Contra Costa County Asthma Coalition

Cedrita Claiborne, MPH, Coalition Coordinator

Contra Costa Health Services

Contact: Carol Shenon, Operations Coordinator

Ccac-admin@hotmail.com

***San Francisco County**

San Francisco Asthma Task Force
Contact: Anjali Nath, MPH, Advocacy Coordinator
Breathe California, GG Public Health Partnership
650. 994-5868, anjali@ggbreathe.org

***San Mateo County**

San Mateo Asthma Task Force
Contact: Dorothy Vura-Weis, MD, MPH
Dvura-weis@co.sanmateo.ca.us
Angela Sujuthi, asajuthi@sanmateo.ca.us

***Solano County**

Solano Asthma Coalition, Fairfield
Contact: Susan White, Program Coordinator
707. 434-9685 susan@solanoasthma.com

***Sonoma County**

Sonoma County Asthma Coalition, Santa Rosa
Contact: Shan Magnuson, Director; Barbara Young, Asst. Program Director
American Lung Association of California
smagnuson@alac.org, byoung@alac.org
707. 527-5864

***Santa Clara County**

East Palo Alto Asthma Task Force
Contact: Janine Bishop, Chair
jbishop@stanford.edu

Attachment 2: List of County Associations

San Francisco Medical Society, 415-561-0850
Medical Executive: Mary Lou Licwinko

San Mateo County Medical Association
Medical Executive: Sue Malone
Env and Pub Hlth Committee Chair: Michelle Caughey MD

Santa Clara County Medical Association, 408-998-8850
Medical Executive: Bill Parrish
Env and Pub Hlth Committee Chair: Cindy Russell MD

Alameda-Contra Costa Medical Association, 510-654-5383
Medical Executive: Bill Guertin

Marin Medical Society, 415-924-3891

Napa County Medical Society, 707-255-3622
Medical Executive: MaryAnn Eckhout

Solano County Medical Society, 707-425-7267
Medical Executive: MaryAnn Eckhout (this is not a typo)

Sonoma County Medical Association, 707-525-4359

California Medical Association Foundation, 916-551-2550
CEO: Carol Lee
VP Community Health Programs: Elissa Maas

Attachment 3: List of County Health Departments for general medical assistance and information on asthma

DRAFT