



Air Pollution Control Board
San Diego County Air Pollution Control District

GOVERNING BODY

GREG COX
First District

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Second District

DAVE ROBERTS
Third District

RON ROBERTS
Fourth District

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Fifth District

AGENDA ITEM

DATE: November 18, 2015

AP01

TO: Air Pollution Control Board

SUBJECT: NOTICED PUBLIC HEARING - 2014 AIR TOXICS "HOT SPOTS"
PROGRAM REPORT FOR SAN DIEGO COUNTY (DISTRICTS: ALL)

Overview

The California Air Toxics "Hot Spots" Information and Assessment Act (Program) was enacted in 1987 to address public concern over the release of toxic air contaminants into the environment. Under the Program, facilities emitting toxic air contaminants are required to provide the local air pollution control districts with information that identifies the sources of those contaminants at their facilities and locate the "hot spots" where they are concentrated in the community. The local air pollution control district is required to review and approve the data submitted by facilities, compile an inventory of emissions, and publish an annual program report on the region's toxic air contaminant emissions, risk assessment results, and effectiveness of control measures. The facilities, in addition to submitting the report, must notify those public members impacted by elevated toxic risks.

The 2014 Air Toxics "Hot Spots" Program Report for San Diego County (Report) is an annual report completed by the San Diego County Air Pollution Control District (District) to fulfill the requirements of the Program by summarizing the program elements, the current status of the program in San Diego County, and conclusions drawn from the program to date. The Report also includes stationary and mobile source emission estimates, results of local Health Risk Assessments (HRAs) and the current status of public notifications.

Today's requested action is to consider the 2014 Air Toxics "Hot Spots" Program Report for San Diego County and approve the report for public distribution.

Recommendation(s)

AIR POLLUTION CONTROL OFFICER

Consider the 2014 Air Toxics "Hot Spots" Program Report for San Diego County and approve the report for public distribution (Attachment A)

Fiscal Impact

There is no fiscal impact associated with this request. There will be no change in net General Fund costs and no additional staff years.

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Business Impact Statement

N/A

Advisory Board Statement

At its meeting on August 12, 2015, the San Diego County Air Pollution Control District Advisory Committee expressed support of the Air Pollution Control District's recommendation to approve the 2014 Air Toxics "Hot Spots" Program Report for San Diego County.

Background

The California Air Toxics "Hot Spots" Information and Assessment Act (Program) is a state mandated program enacted in 1987 to address public concern over toxic air contaminant emissions. The Program requires local air pollution control districts to evaluate toxic air contaminant emissions, determine which emissions present public health concerns and also requires facilities to develop strategies to reduce the potential risks of toxic air contaminants to public health. This statewide program is implemented by the local air pollution control districts using guidance developed by the State Office of Environmental Health Hazard Assessment (OEHHA), the California Air Pollution Control Officers Association, and the California Air Resources Board (CARB).

Under the Program, facilities emitting toxic air contaminants are required to provide local air pollution control districts with information that is used to achieve the objectives of the program and must update their toxic air contaminant emission inventories at least every four years. The District is then required to review and approve the data submitted by facilities, compile an inventory of emissions, and publish an annual program report on the region's toxic air contaminant emissions, risk assessment results, and effectiveness of control measures.

The Program identifies and prioritizes facilities that emit toxic air contaminants in amounts that warrant a detailed evaluation of potential public health risks through preparation of a site-specific Health Risk Assessment (HRA). Each facility is placed into one of three categories: Category A for facilities that are required to prepare and submit an HRA; Category B for facilities that may be required to conduct an HRA at a future date; and Category C for facilities that are not required to conduct an HRA.

Each facility placed in Category A must prepare and submit an HRA to the District. The HRA studies the possible public health risks posed by airborne emissions of toxic compounds and incorporates conservative pollutant dispersion estimates, human exposure assumptions, and health effects information to ensure that the final HRAs do not underestimate the risks. Each HRA is reviewed by the District and OEHHA to identify deficiencies requiring correction. The District then approves, modifies, or returns the HRA for corrections. Once an HRA has been approved, the Program requires facilities with risks over specified levels to provide public notice to all exposed persons. In addition, facilities with significant risks are required to reduce the risks to below the significant risk levels within five years. The results of all HRAs approved under the Program are included in the annual Air Toxics "Hot Spots" Program Report and are available for public review.

It is also noteworthy that since inception of the Program in 1987, the San Diego Air Pollution Control District has developed toxic emission inventory reporting procedures that

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streamline the process by:

- Customizing inventory forms based upon site-specific equipment information.
- Calculating emissions based on process information supplied by the facility operator.
- Crafting industry-specific reporting forms to allow small businesses to meet inventory requirements more cost-effectively.
- Standardizing and automating many computational and record keeping tasks that reduce the workload for affected businesses.
- Merging multiple required reports to eliminate duplicate data requests.
- Collaborating with CARB, OEHHA, and other air agencies to develop universal health risk assessments for gas stations, dry cleaners and auto body shops to assess industry-wide impacts.

Results

Approximately 3,000 San Diego facilities are required to comply with the Program. These include 1,750 diesel engine facilities, 368 auto body shops, 683 gasoline stations and 117 dry cleaners. In 2014, 75 new inventory reports were approved by the District, bringing the historical number of reports to over 4,100. The District also approved one HRA in 2014, bringing the historical number of HRAs approved to 90 (Attachment A, Table 4 of the report).

Since 1989 in San Diego County, industrial toxic air contaminant emissions have been reduced by approximately 88.1% - a decrease of about 11 million pounds. Since 2009, industrial toxic air contaminant emissions have been reduced by approximately 22.8%, or approximately 440,000 pounds, in San Diego County. The declining emission trends for industrial toxic air contaminants are paralleled by declining health risks associated with the data collected at the El Cajon and Chula Vista ambient air monitoring stations. It should be noted that these risks are based on ambient monitoring data for 25 air pollutants and do not include the risk from diesel particulate matter.

To estimate the risk from diesel particulate matter, measurements of elemental carbon were taken at El Cajon, Escondido and Downtown San Diego between August 2008 and June 2010. These measurements indicate that diesel particulate matter may currently contribute an additional cancer risk of 354 in one million to the measured air toxics risk levels of 116 in one million (Chula Vista) and 141 in one million (El Cajon). Nevertheless, the risk from diesel particulate matter alone has declined by 50% in San Diego County since 1990.

Public notifications and health risk reductions are required for the Program. Regulated facilities with estimated cancer risks above ten in one million, or non-cancer risks above levels recommended by OEHHA, must provide direct mail notices to impacted residents, businesses, schools and other specified locations. Facilities with estimated cancer risks above 100 in one million, or with significant non-cancer risks, must reduce risks to below these levels, generally within five years.

Health & Safety Code Section 44344 requires emission inventories to be updated every four years. The 2014 Air Toxics “Hot Spots” Program Report covers information from 2010-2013. Since the Program’s beginning in 1989, toxic air contaminant emissions have been

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inventoried at least five times for each of the approximately 3,000 facilities subject to the program. Also included in the report are 29 HRA results for facilities that were required to conduct risk reductions and/or public notifications. Of those 29 HRAs:

- Five facilities have more recent health risk assessments that place them below the required public notification levels.
- Seven facilities have implemented significant changes to reduce risk below public notification levels.
- Five facilities are not required to conduct public notification because they have non-cancer hazard indices below 5.
- Six facilities are notifying the public of potential risks on a biennial schedule.

To complement the Hot Spots Program, District Rule 1200 was adopted by the Board on June 12, 1996 (1), and regulates potential public health risks from new and expanded business operations. In 2014, the District reviewed 224 applications that were subject to Rule 1200, which brings the historical number of Rule 1200 HRAs reviewed by the District to approximately 4,000. Out of the 224 applications, 160 had a maximum potential cancer risk below one in one million, requiring no further action. The remaining applications demonstrated risks between one and ten in one million, and were required to use Toxics Best Available Control Technology.

The Rule 1200 air toxics program, in concert with the Air Toxics "Hot Spots" Program, will continue to protect air quality and public health as we improve the information we have about toxic air contaminants, processes, and facilities that are potentially causing significant risks to human health.

On June 26, 2015, the District held a public workshop to discuss and receive comments on the 2014 program report. A report of the results of that workshop is provided in Attachment B.

Upon approval by the Board, the 2014 Air Toxics "Hot Spots" Program Report will be distributed to city councils, local health officials and other stakeholders as required by State law, and will be made available on the District's Web site.

Environmental Statement

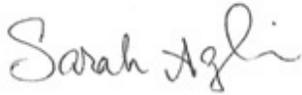
Pursuant to Section 15060(c)(2) of the California Environmental Quality Act (CEQA) Guidelines, CEQA applies only to government actions that will result in a direct or reasonably foreseeable indirect physical change in the environment. The consideration and approval for dissemination of the 2014 Air Toxics “Hot Spots” Program Report for San Diego County is not a project subject to CEQA; CEQA does not apply to this action.

Linkage to the County of San Diego Strategic Plan

Today's proposed action to consider the 2014 Air Toxics “Hot Spots” Program Report for San Diego County supports the Sustainable Environments Initiative in the County of San Diego's 2015-2020 Strategic Plan with an objective to enhance the quality of the environment by focusing on sustainability, pollution prevention and strategic planning. Approval and distribution of the 2014 Air Toxics “Hot Spots” Program Report for San Diego County will help ensure public awareness and participation in the program.

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Respectfully submitted,



SARAH E. AGHASSI
Deputy Chief Administrative Officer



ROBERT J. KARD
Air Pollution Control Officer

ATTACHMENT(S)

Attachment A - 2014 Toxics "Hot Spots" Report for San Diego County
Attachment B - Workshop Report

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AGENDA ITEM INFORMATION SHEET

REQUIRES FOUR VOTES: Yes No

WRITTEN DISCLOSURE PER COUNTY CHARTER SECTION 1000.1 REQUIRED
 Yes No

PREVIOUS RELEVANT BOARD ACTIONS:

October 29, 2014 (APCB #1), Approved the 2013 Air Toxics “Hot Spots” Program Report;
December 4, 2013 (APCB #1), Approved the 2012 Air Toxics “Hot Spots” Program Report;
December 5, 2012 (APCB #2), Approved the 2011 Air Toxics “Hot Spots” Program Report;
September 28, 2011 (APCB #1), Approved the 2010 Air Toxics “Hot Spots” Program Report;
December 8, 2010 (APCB #1), Approved the 2009 Air Toxics “Hot Spots” Program Report;
September 23, 2009 (APCB #1), Approved the 2008 Air Toxics “Hot Spots” Program Report;
December 10, 2008 (APCB #1), Approved the 2007 Air Toxics “Hot Spots” Program Report;
December 12, 2007 (APCB #1), Approved the 2006 Air Toxics “Hot Spots” Program Report;
December 13, 2006 (APCB #1), Approved the 2005 Air Toxics “Hot Spots” Program Report;
December 14, 2005 (APCB #1), Approved the 2004 Air Toxics “Hot Spots” Program Report;
December 15, 2004 (APCB #1), Approved the 2003 Air Toxics “Hot Spots” Program Report;
December 10, 2003 (APCB #1), Approved the 2002 Air Toxics “Hot Spots” Program Report;
October 9, 2002 (APCB #1), Approved the 2001 Air Toxics “Hot Spots” Program Report;
October 17, 2001 (APCB #4), Approved the 2000 Air Toxics “Hot Spots” Program Report;
October 25, 2000 (APCB #4), Approved the 1999 Air Toxics “Hot Spots” Program Report;
December 15, 1999 (APCB #1), Approved the 1998 Air Toxics “Hot Spots” Program Report;
September 23, 1998 (APCB #3), Approved the 1997 Air Toxics “Hot Spots” Program Report;
October 22, 1997 (APCB #1), Approved the 1996 Air Toxics “Hot Spots” Program Report;
June 12, 1996 (APCB #2), Adoption of New Rule 1210 Toxic Air Contaminant Public Health Risks – Public Notification and Risk Reduction; June 12, 1996 (APCB #1), Adoption of New Rule 1200 Toxic Air Contaminants – New source Review.

BOARD POLICIES APPLICABLE:

N/A

BOARD POLICY STATEMENTS:

N/A

MANDATORY COMPLIANCE:

N/A

ORACLE AWARD NUMBER(S) AND CONTRACT AND/OR REQUISITION NUMBER(S):

N/A

ORIGINATING DEPARTMENT: AIR POLLUTION CONTROL DISTRICT

OTHER CONCURRENCES(S): N/A

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