ANNUAL REPORT

BAY AREA AIR QUALITY MANAGEMENT DISTRICT





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The year 2008 brought both an historic presidential election and the worst financial crisis since the Great Depression, ushering in an era characterized by both hope and uncertainty. To begin with, I want to assure Bay Area residents that the Air District's financial foundation is sound and that we will continue to do our part well into the future to ensure that there is clean air for everyone in the region to breathe.

In 2008, our CARE Program continued to resolve some of the uncertainty about air quality in our local neighborhoods and communities, and to bring hope to those most affected by localized air pollution. Six impacted communities were identified to be high-priority recipients of grant funding, in efforts to reduce their exposure to diesel exhaust. Air District staff also joined local residents of West Oakland in a truck survey project designed to identify the numbers and types of trucks moving goods along their streets, as well as to establish the most heavily travelled routes, in order to plan effective mitigation measures.

The haze and smoke that blanketed the Bay Area for several days last summer, ensuing from a series of California wildfires, served to dramatically highlight the impacts of fine particulate pollution, or $PM_{2.5}$, on the region. Public health studies have confirmed that $PM_{2.5}$ is a serious concern in the wintertime, with wildfire-like high concentrations on many days leading to increased hospitalizations and even higher mortality rates. The Air District's ambitious Wood-Burning Rule was implemented in the fall, in an effort to make the air safer for us all to breathe, and especially to protect children, the elderly, and our other sensitive populations. The rule required an unprecedented outreach effort, which included an extensive advertising campaign. The U.S. EPA will soon designate the Bay Area out of attainment of the 24-hour $PM_{2.5}$ standard, and our efforts in the coming year will include development of a *Clean Air Plan* that will incorporate measures for reducing particulate matter concentrations along with ozone and other pollutants.

"...we're asking everyone to join us in a shared vision of hope for clean air in all of our neighborhoods."

Last year, the Air District continued to actively participate in the internationally based effort to address the most critical environmental challenge of our times: climate change. We take seriously our role as a preeminent local climate protection leader, and in 2008 passed a landmark rule adding fees for greenhouse gas emissions to our permitting structures. At the end of the year we published a full greenhouse gas inventory for the Bay Area, and our pioneering climate change grant program is bearing fruit in the form of tangible emission–reducing results.

In 2008, we continued to operate and refine our successful core programs, which are designed primarily to reduce emissions from stationary sources. We worked on meeting and addressing the needs of our public, focusing our attention on the most pressing public health concerns and analyzing and mitigating the risks in our local neighborhoods.

The Air District is proud of the role we've played in substantially improving air quality over the past few decades. There's no uncertainty about this progress, and it could not have been achieved without the support and efforts of individual Bay Area residents. Just as the entire nation is pulling together to meet the social challenges we may confront in years ahead, we're asking everyone to join us in a shared vision of hope for clean air in all of our neighborhoods.

On behalf of the Air District's dedicated employees, it is my pleasure to present our *2008 Annual Report*.

Joch P. Scouller

Jack P. Broadbent Executive Officer Air Pollution Control Officer

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Bay Area Air Quality

2008 EXCEEDANCES OF AIR QUALITY STANDARDS

OZONE	
Days over National 8-Hour Standard	12
Days over California 1-Hour Standard	9
Days over California 8-Hour Standard	20

PARTICULATE MATTER

Days over National 24-Hour PM ₁₀ Standard	0
Days over California 24-Hour PM ₁₀ Standard	5
Days over National 24-Hour PM _{2.5} Standard	12

2008 RULES ADOF	PTED OR AMENDED
MAY 21	
Regulation 3:	Fees (Amended)
JULY 9	
Regulation 6:	Particulate Matter
Rule 3:	Wood-Burning Devices (Adopted)
Regulation 1:	General Provisions and Definitions (Amended)
Regulation 5:	Open Burning (Amended)
JULY 30	
Regulation 9:	Inorganic Gaseous Pollutants
Rule 7:	Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional and Commercial Boilers, Steam Generators and Process Heaters (Amended)
Regulation 3:	Fees (Amended)
Manual of Procedures, Volume I, Part 5	Boiler, Steam Generator and Process Heater Tuning Procedure (Amended)
NOVEMBER 19	
Regulation 8:	Organic Compounds
Rule 20:	Graphic Arts Printing and Coating Operations (Amended)
Regulation 2:	Permits
Rule 1:	General Requirements (Amended)
Regulation 3:	Fees (Amended)
DECEMBER 3	
Regulation 8:	Organic Compounds
Rule 45:	Motor Vehicle and Mobile Equipment Coating Operations (Amended)
Regulation 3:	Fees (Amended)

Permitting Activity

2008 BAY AREA PERMITTED FACILITIES	
Refineries	5
Gasoline-Dispensing Facilities	2,588
Major Facilities excluding Refineries	93
Smaller Industrial Facilities	7,522
Total	10,208

Major Facility Review (Title V)	107
Gasoline-Dispensing Facilities	1,065
Other Facilities	1,129
Total	2,301

Toxics Program Activity

2008 HEALTH RISK SCREENING ANALYSES	
Diesel Engines	313
Gasoline-Dispensing Facilities	14
Other Commercial/Industrial	72
Total Number of Analyses	399
Total Number of Facilities	363

Compliance & Enforcement Activity

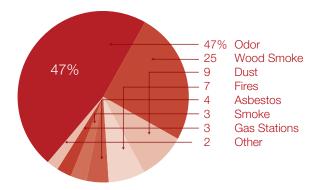
2008 COMPLIANCE INSPECTIONS

Source Inspections	7,076
Air Pollution Complaints	3,682
Gasoline-Dispensing Facility Inspections	1,470
Asbestos Inspections	2,026
Reportable Compliance Activities	596
Total	14,850

2008 VIOLATIONS AND PENALTIES

Violation Notices Issued	691
Civil Penalties Collected	\$3,206,347

AIR POLLUTION COMPLAINT CATEGORIES



Source Test Activity

2008 NUMBER OF SOURCE TESTS

Refinery Source Tests	372
Compliance Rate	98.4%
Title V Facility Source Tests (excluding Refineries)	301
Compliance Rate	97.6%
Gasoline Cargo Tank Source Tests	424
Compliance Rate	98.1%
Gasoline-Dispensing Facility Source Tests	12,245
Compliance Rate	99.4%
Other Miscellaneous Source Tests	301
Compliance Rate	96.4%
Total Source Tests	13,643
Total Violations	112
Compliance Rate	99.2%

Laboratory Activity

2008 SAMPLES ANALYZED IN LAB	
PM ₁₀	880
PM _{2.5}	2,660
Toxics	638
Cartridge/Aldehyde	113
VOC and Speciation	24
Aldehyde	6
Metals	168
Asbestos	130
Microscopy	36
VOC	35
Misc.	45
Total	4,735



Grant and Incentive Programs

CARL MOYER PROGRAM/MOBILE SOURCE INCENT	IVE FUND – 2008
Total Funds Awarded	\$20.7 M
Number of Engines Covered by Grant Projects	360
Percent of Funding Awarded to Projects in Impacted Communities	90%
Estimated Lifetime Emissions Reduction for the Projects	Funded (tons)
Reactive Organic Gases (ROG)	113
Oxides of Nitrogen (NO _x)	1,133
Particulate Matter (PM ₁₀)	45
Total	1,291

TFCA REGIONAL FUND GRANTS - FY 2008/2009	
Total Funds Awarded	\$19.9 M
Number of Projects/Programs Awarded Grants	55

Estimated Lifetime Emissions Reduction for the Projects Funded (tons)
ROG 194
NO_x 363
PM₁₀ 77

Total	634
Carbon Dioxide (CO ₂) - a Greenhouse Gas (tons)	108,000

TFCA COUNTY PROGRAM MANAGER FUND GRANTS - FY 2008/2009	
Total Funds Awarded	\$10.3 M
Number of Projects Awarded Grants	47

Estimated Emissions Reduction for the Projects Funded (tons)

ROG	163
NO _x	167
PM ₁₀	80
Total	410
CO ₂	182,000

	HICLE BUY BACK PROGRAM – 2008
4,494	Imber of Vehicles Scrapped in 2008
42,810	Imber of Vehicles Scrapped Since Program Inception Ine 1996 to end of 2008)
	timated Emissions Reduction Since Inception (tons):
3,826	DG
1,986) _x
25	Л ₁₀
5,837	tal
	CYCLE FACILITY PROGRAM – 2008
00,000	tal Funds Awarded
9	imber of Projects Awarded Grants
	Imber of Projects Awarded Grants

WOOD SMOKE REDUCTION REBATE PROGRAM – 2008	
Number of Conversions	530



Public Outreach Activities

2008 SPARE THE AIR PROGRAM	
Spare the Air Days	13
AirAlert Registrations	92,645
Employers Registered	1,927
Schools Registered	58
Winter Spare the Air Alerts	6
2008 SMOKING VEHICLE PROGRAM	
Vehicles Reported	11,239
Estimated Emission Reductions	30 tons per year
2008 COMMUNITY OUTREACH MEETINGS/EVENTS	
Local Community Meetings	64
	04
Impacted Communities/CARE Program/Goods Movement	51
Impacted Communities/CARE Program/Goods	• ·
Impacted Communities/CARE Program/Goods Movement	51
Impacted Communities/CARE Program/Goods Movement Youth Outreach/Events	51
Impacted Communities/CARE Program/Goods Movement Youth Outreach/Events Community Grants and Climate Change	51 25 22

CARE Program

2008 MAJOR ACCOMPLISHMENTS

- Identified six impacted communities within the Bay Area—based on air toxics emissions and vulnerable populations—warranting focused risk reduction activities through the CARE Mitigation Action Plan.
- Worked with the Air District's Strategic Incentives Division staff to target incentive funds in the six impacted communities.
- Conducted twelve community outreach meetings within the impacted communities.
- In participation with the California Air Resources Board and the Port of Oakland, released draft and final versions of a Health Risk Assessment for West Oakland, which revealed that residents of West Oakland have about three times the cancer risk from diesel PM emissions compared to the Bay Area average. Most of the risk was shown to be due to on-road trucks on local streets and freeways.
- Conducted a survey of diesel truck activity in West Oakland, in cooperation with community groups, in order to more accurately identify local truck traffic in the area.
- Participated in on-going meetings of the Cumulative Impacts and Precautionary Approaches Work Group Meeting, an external stakeholder group created by Cal/EPA for the purpose of providing advice on the development of guidance to assess cumulative impacts from environmental pollutants and precautionary approaches to environmental decision-making.
- Met with community and industry groups to develop a resolution on cumulative impacts of air pollution and on continuing to reduce air contaminants in impacted communities. The Air District's Board of Directors adopted the resolution on July 30, 2008.

2008 Legislative Summary

The Air District formally adopted positions on 11 bills during 2008. The 2008 legislative year was heavily influenced by California's fiscal crisis, and very few measures that had significant costs were passed by the Legislature.

Both bills that the Air District opposed were amended to address the agency's concerns by removing the problematic sections. The following seven measures supported by the Air District were passed by the Legislature:

- AB 2094 (DeSaulnier), which adds the San Francisco Bay Conservation and Development Commission to the Joint Policy Committee.
- AB 2241 (Saldana), which closes the smog check loophole that allows registration without required smog check.
- AB 2922 (DeSaulnier), which adds non-vehicle violations to CARB's civil penalty authority.
- AB 2991 (Nunez), which adds climate change experts to CARB's Research Screening Committee.
- AJR 53 (Huffman), which urges Congress to pass legislation allowing California to implement its greenhouse gas standards for new vehicles.
- SB 375 (Steinberg), which makes changes to transportation and land use planning process to reduce vehicle miles traveled.
- SB 974 (Lowenthal), which establishes a container fee at the Los Angeles, Long Beach, and Oakland ports.

All of these were signed into law by the Governor, except for SB 974, which was very heavily opposed by a wide variety of business and trade organizations, and which he chose to veto.

Executive Management Staff

Jack P. Broadbent Executive Officer / Air Pollution Control Officer

Brian C. Bunger District Counsel

Jeff McKay Jean Roggenkamp Deputy Air Pollution Control Officers

Mary Ann Goodley Executive Office Manager

Division Directors

Brian Bateman Engineering

John Chiladakis Information Systems

Jack M. Colbourn Strategic Incentives

Lisa Fasano Communications and Outreach

Henry Hilken Planning, Rules and Research

Gary Kendall Technical Services

Kelly Wee Compliance and Enforcement

2008 Board of Directors

Alameda County

Tom Bates Scott Haggerty Janet Lockhart Nate Miley

Contra Costa County John Gioia Mark Ross Michael Shimansky Gayle B. Uilkema

Marin County Harold C. Brown, Jr.

Napa County Brad Wagenknecht, Secretary

San Francisco County Chris Daly Jake McGoldrick Gavin Newsom

San Mateo County Jerry Hill, Chairperson Carol L. Klatt

Santa Clara County Erin Garner Yoriko Kishimoto Liz Kniss Ken Yeager

Solano County John F. Silva

Sonoma County Tim Smith Pamela Torliatt, Vice Chairperson



Websites www.baaqmd.gov www.sparetheair.org

Daily Air Quality Forecasts

- Spare the Air Advisories
- Agricultural Burn Days

• Informational Materials (800) HELP AIR (435-7247)

Report Smoking Vehicles (800) EXHAUST (394-2878) www.800exhaust.org



Air Pollution Complaints (800) 334-ODOR (6367)



Winter Spare the Air Alerts (877) 4-NO-BURN (466-2876)



General Business (415) 771-6000 Public Information (415) 749-4900 Compliance Assistance (415) 749-4999 Engineering Services (415) 749-4990 Vehicle Buy Back Program (888) 690-2274



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