

ANNUAL REPORT

BAY AREA
**AIR
QUALITY**
MANAGEMENT
DISTRICT

2009



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

WWW.BAAQMD.GOV

Jack P. Broadbent
Executive Officer
Air Pollution Control Officer



In 2009, the Air District continued to take a flexible and multifaceted approach in our efforts to improve air quality in the region.

Last year, we concentrated many of our resources at the local level, as we worked to ensure that all Bay Area residents, regardless of economic circumstance, have clean air to breathe. As part of our Clean Air Communities Initiative, we identified six communities that are especially impacted by toxic air contaminants. In these communities, the Air District will conduct enhanced air monitoring, provide grants and incentives, and offer assistance to local jurisdictions to encourage community-wide approaches to solving air pollution problems.

High levels of particulate matter pollution have been linked to a range of health problems, from chronic bronchitis and high blood pressure to heart attacks and increased overall mortality rates. In West Oakland, diesel particulate pollution contributes to a cancer risk from ambient air pollution that is three times the regional average. Our \$22 million port truck program enabled the retrofit or replacement of 1,100 dirty truck engines, thereby significantly reducing the pollution burden in that community.

In the wintertime, we continued to educate the public about the hazards of particle pollution from fireplaces and woodstoves. Air District public opinion surveys showed that seasonal wood-burning has dropped more than 50 percent since our wood-burning regulation was passed in 2008.

We strengthened and enhanced our core programs in the past year, revising rules such as the Toxics New Source Review regulation. The new rule amendments increased the rigor of our permitting requirements by a factor of two to three, making it especially protective of infants and children.

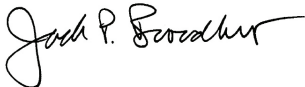
“...we will continue to pursue
our vision of providing a healthy
breathing environment for every
Bay Area resident.”

In 2009, we began work on our *2010 Clean Air Plan*, which for the first time will consider strategies for reducing ozone, particulate matter, air toxics, and greenhouse gases all together in a comprehensive and integrated manner. In conjunction with that effort, the Air District continued revising our *CEQA Guidelines*, which will help local cities and counties identify and reduce potential air quality impacts from development projects over which they have decision-making authority. Both documents are tools that will help local jurisdictions in their planning efforts as California's SB 375 land use legislation goes into effect.

Throughout the year, the Air District worked to incorporate climate protection into our traditional programs. In May, we hosted a Climate Action Leadership Summit for local government agencies. In December, the Air District's Deputy Air Pollution Control Officer traveled to Copenhagen to take her place on a panel at the international United Nations Climate Change Conference. Since climate change is arguably the greatest global air quality challenge of our time, it is important for local agencies like us to do our part to control our regional greenhouse gas impacts.

The Bay Area Air District is proud of our 55-year history of air quality success, but as the region continues to grow, there is still more work to be done. In the years to come, we will continue to pursue our vision of providing a healthy breathing environment for every Bay Area resident. Working together with the state, cities and counties in our region, and the public, we are confident we can achieve this goal.

On behalf of the Air District's dedicated employees, it is my pleasure to present our 2009 Annual Report.



Jack P. Broadbent
Executive Officer
Air Pollution Control Officer



Bay Area Air Quality

2009 EXCEEDANCES OF AIR QUALITY STANDARDS

OZONE

Days over National 8-Hour Standard	8
Days over California 1-Hour Standard	11
Days over California 8-Hour Standard	13

PARTICULATE MATTER

Days over National 24-Hour PM ₁₀ Standard	0
Days over California 24-Hour PM ₁₀ Standard	1
Days over National 24-Hour PM _{2.5} Standard	11

Rulemaking Activity

2009 RULES ADOPTED OR AMENDED

MARCH 4

Regulation 11: Hazardous Pollutants

Rule 16: Perchloroethylene and Synthetic Solvent Dry Cleaning Operations (Amended)

Regulation 8: Organic Compounds

Rule 17: Non-Halogenated Solvent Dry Cleaning Operations (Amended)

Regulation 8: Organic Compounds

Rule 27: Synthetic Solvent Dry Cleaning Operations (Deleted)

Regulation 2: Permits

Rule 1: General Provisions (Amended)

APRIL 15

Regulation 8: Organic Compounds

Rule 33: Gasoline Bulk Terminals and Gasoline Cargo Tanks (Amended)

Regulation 8: Organic Compounds

Rule 39: Gasoline Bulk Plants and Gasoline Cargo Tanks (Amended)

MAY 20

Regulation 3: Fees (Amended)

JULY 1

Regulation 8: Organic Compounds

Rule 3: Architectural Coatings (Amended)

AUGUST 5

Regulation 8: Organic Compounds

Rule 32: Wood Products Coatings (Amended)

Manual of Procedures, Volume I, Part 6 Emissions Averaging Procedure (Amended)

DECEMBER 2

Regulation 8: Organic Compounds

Rule 50: Polyester Resin Operations (Amended)

Permitting Activity

2009 BAY AREA PERMITTED FACILITIES

Refineries	5
Gasoline-Dispensing Facilities	2,562
Major Facilities Excluding Refineries	87
Smaller Industrial Facilities	7,628
Total	10,282

2009 NEW PERMIT APPLICATIONS RECEIVED

Major Facility Review (Title V)	53
Gasoline-Dispensing Facilities	905
Other Facilities	1,014
Total	1,972

Toxics Program Activity

2009 HEALTH RISK SCREENING ANALYSES

Diesel Engines	284
Gasoline-Dispensing Facilities	13
Other Commercial/Industrial	40
Total Number of Analyses	337
Total Number of Facilities	309

Compliance & Enforcement Activity

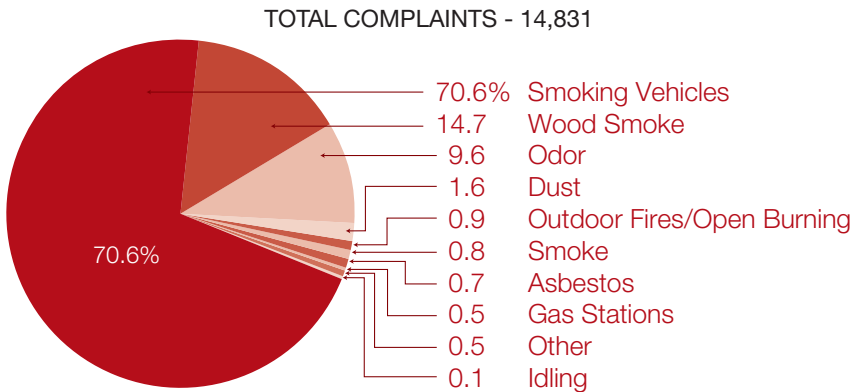
2009 COMPLIANCE INSPECTIONS

Source Inspections	8,336
Air Pollution Complaints (Excluding Smoking Vehicles)	4,367
Gasoline-Dispensing Facility Inspections	447
Asbestos Inspections	1,620
Reportable Compliance Activities	577
Diesel Compliance and Grant Inspections	2,575
Total	17,922

2009 VIOLATIONS AND PENALTIES

Violations Resolved	643
Civil Penalties Collected	\$1,814,848

AIR POLLUTION COMPLAINT CATEGORIES



Source Test Activity

2009 NUMBER OF SOURCE TESTS

Refinery Source Tests	407
Compliance Rate	99.3%
Title V Facility Source Tests (excluding Refineries)	347
Compliance Rate	97.4%
Gasoline Cargo Tank Source Tests	412
Compliance Rate	97.1%
Gasoline-Dispensing Facility Source Tests	12,741
Compliance Rate	99.6%
Other Miscellaneous Source Tests	245
Compliance Rate	94.3%
Total Source Tests	14,152
Total Violations	84
Compliance Rate	99.4%

Laboratory Activity

2009 SAMPLES ANALYZED IN LAB*

PM ₁₀	686
PM _{2.5}	2,432
Toxics	663
Cartridge/Aldehyde	145
VOC and Speciation	36
Aldehyde	26
Metals	23
Asbestos	44
Microscopy	13
VOC	39
Misc.	37
Total	4,144

*The lab was partially shut down for renovation in November and December.





Grant and Incentive Programs

CARL MOYER PROGRAM / MOBILE SOURCE INCENTIVE FUND – 2009

Total Funds Awarded	\$21.9 M
Number of Engines Covered by Grant Projects	239
Percent of Funding Awarded to Projects in Impacted Communities	75
Estimated Lifetime Emissions Reduction for the Projects Funded (tons)	
Reactive Organic Gases (ROG)	56
Oxides of Nitrogen (NO _x)	1,416
Particulate Matter (PM ₁₀)	88
Total	1,560

GOODS MOVEMENT PROGRAM – 2009

Total Funds Awarded	\$6.9 M
Number of Engines Covered by Grant Projects	423
Percent of Funding Awarded to Projects in Impacted Communities	100
Estimated Lifetime Emissions Reduction for the Projects Funded (tons)	
Oxides of Nitrogen (NO _x)	14
Particulate Matter (PM ₁₀)	43
Total	57

TFCA REGIONAL FUND GRANTS – 2009

Total Funds Awarded	\$3.8 M
Number of Projects/Programs Awarded Grants	10
Estimated Lifetime Emissions Reduction for the Projects Funded (tons)	
ROG	37
NO _x	40
PM ₁₀	24
Total	101
Carbon Dioxide (CO ₂) - a Greenhouse Gas (tons)	47,629

TFCA COUNTY PROGRAM MANAGER FUND GRANTS – FY 2009/2010

Total Funds Awarded	\$8.5 M
Number of Projects Awarded Grants	60
Estimated Emissions Reduction for the Projects Funded (tons)	
ROG	94
NO _x	127
PM ₁₀	46
Total	267
CO ₂	103,000

VEHICLE BUY BACK PROGRAM – 2009

Number of Vehicles Scrapped in 2009	6,616
Estimated Emissions Reduction (tons):	
ROG	437
NO _x	304
PM ₁₀	4
Total	745
Number of Vehicles Scrapped since Program Inception (June 1996 to end of 2009)	49,426

BICYCLE FACILITY PROGRAM – FY 2009/2010

Total Funds Awarded	\$601,500
Number of Projects Awarded Grants	13

WOOD SMOKE REDUCTION REBATE PROGRAM – 2009

Number of Conversions	158
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Public Outreach Activities

2009 SPARE THE AIR PROGRAM

Spare the Air Days	14
AirAlert Registrations	97,974
Employers Registered	2,025
Schools Registered	58
Winter Spare the Air Alerts	9

2009 SMOKING VEHICLE PROGRAM

Vehicles Reported	10,464
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2009 COMMUNITY OUTREACH MEETINGS/EVENTS

Local Community Meetings	35
Impacted Communities/CARE Program/Goods Movement	44
Youth Outreach/Events	15
Community Grants and Climate Change	5
Fairs and Events	71
Total	170



CARE Program

2009 MAJOR ACCOMPLISHMENTS

- Worked with the Air District's Engineering Division staff and the Cumulative Impacts Working Group to consider and propose updates to the District's *Regulation 5, Rule 2, Toxics New Source Review* (which was amended on January 6, 2010).
 - Worked with the Air District's Strategic Incentives Division staff to target incentive funds in the six impacted communities identified through the CARE program.
 - In partnership with the Desert Research Institute, conducted community-scale saturation monitoring in West Oakland with dozens of air quality measurement sites supplementing a central monitor. Mobile sampling was begun with the Air District's Mobile Sampling Laboratory, a van that supports fast-response instruments for both gaseous and particulate pollutants, including black carbon. The supplemental monitoring will be used to map pollutant gradients, compare them with the recently completed West Oakland Health Risk Assessment, and help quantify the risk from on-road trucks and other sources of diesel PM.
 - Worked with the Air District's Technical Services Division to monitor for fine particulate metals at multiple locations upwind and downwind of a metal melting and recycling facility in West Oakland. The data will be analyzed, compared with a health risk assessment for the facility, and used to address community concerns and support development of a draft regulation for metal melting facilities.
 - Developed a proposed set of air quality thresholds of significance for toxic compounds and fine particulate matter for California Environmental Quality Act, or CEQA, analyses within the Air District's jurisdiction. The proposed thresholds for local risks and hazards are documented in the *Revised Draft Options and Justification Report – California Environmental Quality Act Thresholds of Significance* (Draft Options Report; BAAQMD; October 2009).
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2009 Legislative Summary

The Air District formally adopted positions on 21 bills during 2009. Last year, California's fiscal crisis outweighed all other issues in Sacramento, and very few measures that had significant costs were passed by the Legislature, including measures that would reduce air pollution.

None of the seven bills the Air District opposed moved past their first policy committee, let alone became law. The following seven measures supported by the Air District were passed by the Legislature:

- AB 96 (Ruskin), which makes changes to the gasoline underground storage tank grant program.
- AB 318 (Emmerson), which cleans up smog check amnesty qualification requirements.
- AB 892 (Furutani), which allows simpler reallocation of Prop 1B Goods Movement air quality projects.
- AB 1527 (Lieu), which would allow a single motor vehicle emission reduction project to be funded from multiple grant programs.
- SB 406 (DeSaulnier), which would allow increases of \$1 or \$2 in vehicle registration fees to implement SB 375.
- SB 728 (Lowenthal), which allows cities, counties, and air districts to enforce existing parking cash-out law.
- SB 811 (DeSaulnier), which would require specially constructed vehicles from out-of-state to meet emissions requirements for their year of manufacture.

Four of these bills were signed into law by the Governor. The Governor vetoed AB 1527, SB 406, and SB 811.

In addition, the Air District sponsored AB 1431 by Assemblyman Jerry Hill, which would require the Port of Oakland to have a more stringent emissions reduction program. Strongly opposed by the Port and business interests, the measure failed to advance past the Assembly Transportation Committee.

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

Jennifer Chicconi

Manager, Executive Operations

Division Directors

Brian Bateman

Engineering

Damian Breen

Strategic Incentives

John Chiladakis

Information Systems Services

Jack M. Colbourn

Administrative Services

Lisa Fasano

Communications and Outreach

Henry Hilken

Planning, Rules and Research

Eric Stevenson

Technical Services

Kelly Wee

Compliance and Enforcement

2009 Board of Directors

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Tom Bates, Secretary
Scott Haggerty
Jennifer Hosterman
Nate Miley

Contra Costa County

John Gioia
Mark Ross
Michael Shimansky
Gayle B. Uilkema

Marin County

Harold C. Brown, Jr.

Napa County

Brad Wagenknecht, Vice Chair

San Francisco County

Chris Daly
Eric Mar
Gavin Newsom

San Mateo County

Carole Groom
Carol L. Klatt

Santa Clara County

Susan Garner
Yoriko Kishimoto
Liz Kniss
Ken Yeager

Solano County

James Spring

Sonoma County

Pamela Torliatt, Chair
Shirlee Zane



Websites

www.baaqmd.gov
www.sparetheair.org
www.twitter.com/@sparetheair
www.facebook.com/pages/Spare-the-Air-Bay-Area/47318701051



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.1800exhaust.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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