BAY AREA AIR QUALITY

MANAGEMENT DISTRICT





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The year 2007 was a significant one for the Air District, as we continued to maintain our successful core programs—while at the same time refining and enhancing them to meet the substantial air quality challenges that face us in this first decade of the 21st century.

Climate change, along with its potential effects on air quality, remains one of the most ominous concerns for government agencies at all levels, from the international to the local. In 2007, the District continued to be a driving force for climate protection in the region, working with local government agencies to coordinate the region's strategies and solutions. In 2007, we incorporated greenhouse gas, or GHG, emissions into our rule development parameters, and also took steps to ensure that our agency's carbon footprint is neutral. We continued to develop our GHG mitigation study, and launched our 4th and 5th grade climate protection curriculum program to ensure that future generations will be well-informed and equipped to take up this cause that will be so consequential to their future quality of life.

Lastly, we approved \$3 million through our Climate Protection Grant Program to fund 53 local projects that will significantly reduce GHG emissions in the Bay Area. This is the largest single source of funding available for climate protection projects in the region, and makes the Air District one of the top funders of climate protection activities in the entire country.

In addressing this most urgent of global concerns, however, we did not lose sight of the local air quality issues affecting our neighborhoods and communities. The District's pioneering CARE program is in full-swing, and its assessment of the impacts of toxic air pollution on local communities such as West Oakland is already yielding fruitful results. In 2007, we updated the toxic emissions inventory "...each of us has an important role to play in preserving our quality of life in this beautiful region."

for the entire Bay Area, and we worked with the California Air Resources Board to conduct an important health risk assessment for West Oakland. The Air District also began a Green Ports Initiative, which is intended to reduce the health risk to port neighbors from diesel exhaust. In the years to come, the District will continue to work with cities and counties to develop more effective land use policies and toxic reduction plans.

In 2007, we also significantly expanded our efforts to address the public health impacts of fine particulates in the Bay Area. We passed a rule regulating emissions from chain-driven and under-fired commercial charbroilers at the highestemitting restaurants, and we held a series of public workshops to elicit feedback on a proposed comprehensive wood-burning regulation that would restrict the use of wood-burning devices on Spare the Air nights in the Bay Area. This rule is anticipated to be adopted in the summer of 2008.

Thanks to the combined efforts of government, local businesses, and the public, air quality in the Bay Area has improved dramatically over the past few decades. For this progress to continue, we rely on the cooperation of all Bay Area residents and on their commitment to making individual clean air choices. Air quality is truly a partnership—each of us has an important role to play in preserving our quality of life in this beautiful region.

On behalf of the Air District's dedicated employees, it is my pleasure to present our 2007 Annual Report.

Iack P. Broadbent **Executive Officer**

Air Pollution Control Officer

Joeh P. Feredley





Bay Area Air Quality

2007 EXCEEDANCES OF AIR QUALITY STANDARDS	
OZONE	
Days over National 8-Hour Standard	1
Days over California 1-Hour Standard	4
Days over California 8-Hour Standard	9
PARTICULATE MATTER	
Days over National 24-Hour PM ₁₀ Standard	0
Days over California 24-Hour PM ₁₀ Standard	4
Days over National 24-Hour PM _{2.5} Standard	14

Rulemaking Activity

2007 RULES A	ADOPTED OR AMENDED
JUNE 6	
Regulation 3:	Fees (Amended)
JULY 25	
Regulation 9:	Inorganic Gaseous Pollutants
Rule 8:	Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (Amended)
NOVEMBER 7	
Regulation 9:	Inorganic Gaseous Pollutants
Rule 6:	Nitrogen Oxides Emissions from Natural Gas-Fired Boilers and Water Heaters (Amended)
DECEMBER 5	
Regulation 6:	Particulate Matter
Rule 2:	Commercial Cooking Equipment (Adopted)
Regulation 6:	Particulate Matter
Rule 1:	General Requirements (Amended)
Regulation 3:	Fees
Schedule R:	Equipment Registration Fees (Amended)

Permitting Activity

2007 BAY AREA PERMITTED FACILITIES	
Refineries	5
Gasoline-Dispensing Facilities	2,590
Major Facilities excluding Refineries	83
Smaller Industrial Facilities	6,582
Total	9,260
2007 NEW PERMIT APPLICATIONS RECEIVED	
Major Facility Review (Title V)	88
Gasoline-Dispensing Facilities	281
Other Facilities	1,190
Total	1,559

Toxics Program Activity

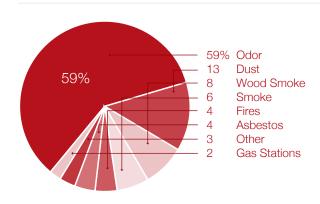
2007 HEALTH RISK SCREENING ANALYSES	
Diesel Engines	300
Gasoline-Dispensing Facilities	23
Other Commercial/Industrial	73
Total Number of Analyses	396
Total Number of Facilities	340

Compliance & Enforcement Activity

2007 COMPLIANCE INSPECTIONS	
Source Inspections	9,941
Air Pollution Complaints	2,967
Gasoline-Dispensing Facility Inspections	2,035
Asbestos Inspections	1,747
Reportable Compliance Activities	497
Total	17,187

2007 VIOLATIONS AND PENALTIES	
Violation Notices Issued	721
Civil Penalties Collected	\$5,023,231

AIR POLLUTION COMPLAINT CATEGORIES



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Source Test Activity

2007 NUMBER OF SOURCE TESTS	
Refinery Source Tests	401
Compliance Rate	96.7%
Title V Facility Source Tests	731
Compliance Rate	96.0%
Gasoline Cargo Tank Source Tests	504
Compliance Rate	94.6%
Gasoline-Dispensing Facility Source Tests	8,589
Compliance Rate	99.3%
Other Miscellaneous Source Tests	232
Compliance Rate	94.0%
Total Source Tests	10,056
Total Violations	131
Compliance Rate	98.7%

Laboratory Activity

2007 SAMPLES ANALYZED IN LAB	
PM ₁₀	1,140
PM _{2.5}	2,600
Toxic	620
Cartridge/Aldehyde	93
VOC and Speciation	29
Aldehyde	8
Metals	136
Asbestos	172
Microscopy	11
VOC	27
Misc.	38
Total	4,874





Grant and Incentive Programs

CARL MOYER PROGRAM – 2007	
Total Funds Awarded	\$21.8 M
Number of Projects Awarded Grants	300
Percent of Funding Awarded in Impacted Communities	67%
Estimated Lifetime Emissions Reduction for the Projects Fur	nded (tons)
Reactive Organic Gases (ROG)	1,225
Oxides of Nitrogen (NO _x)	9,700
Particulate Matter (PM ₁₀)	410
Total	11,335
TFCA REGIONAL FUND GRANTS – FY 2007/2008	
Total Funds Awarded	\$12.3 M
Number of Projects/Programs Awarded Grants	39
Estimated Lifetime Emissions Reduction for the Projects Fur	nded (tons)
ROG	119
NO_x	323
PM ₁₀	69
Total	511
Carbon Dioxide (CO ₂) - a Greenhouse Gas (tons)	120,640
TFCA COUNTY PROGRAM MANAGER FUND GRANTS –	FY 2007/2008
Total Funds Awarded	\$9.3 M
Number of Projects Awarded Grants	57
Estimated Emissions Reduction for the Projects Funded (ton	s)
ROG	52
NO_x	56
PM ₁₀	25
Total	133
CO_2	47,141

VEHICLE BUY BACK PROGRAM	
Number of Vehicles Scrapped in 2007	4,701
Number of Vehicles Scrapped Since Program Inception (June 1996 to end of 2007)	40,133
Estimated Emissions Reduction Since Inception (tons):	
ROG	3,367
NO_x	1,772
PM ₁₀	22
Total	5,161
MOBILE SOURCE INCENTIVE FUND – 2007	
Total Funds Awarded	\$4.1 M
Estimated Lifetime Emissions Reduction (tons)	
NO_x	1,246
PM ₁₀	71
Total	1,317
LOWER-EMISSION SCHOOL BUS PROGRAM – 2007	
Total Funds Awarded for New School Buses	\$1.4 M
Number of New School Buses Funded	Ψ1.+W1
Total Funds Awarded for Bus Retrofits	\$1.4 M
Number of Retrofits Funded	100
BICYCLE FACILITY PROGRAM – 2007	
Total Funds Awarded	\$600,000

Grant and Incentive Programs Continued

OTHER PROJECTS ADMINISTERED IN 2007	
Shore-Side Power Demonstration Project	\$250,000
Plug-In Hybrid School Bus Project	\$100,000
CLIMATE PROTECTION GRANT PROGRAM	
Total Funds Awarded	\$3 M
Number of Projects Awarded Grants	53
Estimated Greenhouse Gas Emission Reductions (tons)	350,000
SANTA CLARA WOODSTOVE REBATE PROGRAM (CO	NCLUDED 2007):
Number of Conversions (since 2004)	2,033
Emission Reductions (since 2004)	17 tons per year



Public Outreach Activities

2007 SPARE THE AIR PROGRAM	
Spare the Air Days	2
AirAlert Registrations	53,750
Employers Registered	1,798
Schools Registered	576
Free Commute Days	2
Vehicle Miles Reduced	4 Million
Trips Eliminated	538,205
Reduced Emissions	29 tons
Spare the Air Tonight Episodes	23
2007 SMOKING VEHICLE PROGRAM	
Vehicles Reported	19,755
Estimated Emission Reductions	61 tons per year
2007 COMMUNITY OUTREACH MEETINGS/EVENTS	
2007 COMMUNITY OUTREACH MEETINGS/EVENTS Local Community Meetings	61
	61 47
Local Community Meetings Impacted Communities/CARE Program/Goods	
Local Community Meetings Impacted Communities/CARE Program/Goods Movement	47
Local Community Meetings Impacted Communities/CARE Program/Goods Movement Youth Outreach/Events	47

CARE Program

2007 MAJOR ACCOMPLISHMENTS

- Acquired new and updated health indicators data to identify sensitive populations
- Updated the CARE toxic emissions estimates from year 2000 to 2005
- Completed preliminary modeling of toxic compounds on a regional basis, including diesel PM and acrolein
- Developed emissions estimates from truck-related businesses and construction in the West Oakland community for input into the health risk assessment being developed for that area
- Developed maps of emissions and sensitive populations within the Bay Area to help focus funding from the Carl Moyer Grant Program
- Supported the Air District's Green Ports Initiative, which is intended to reduce diesel emissions associated with port activities

2007 Legislative Summary

The Air District formally adopted positions on 13 bills during 2007. Five of these were opposed by the District, and none of these were passed by the Legislature.

The most significant air quality measure signed into law was AB 118 (Nunez). This bill provides funding for an enhanced state vehicle scrapping program, for the Alternative and Renewable Fuel and Vehicle Program, and for the Air Quality Improvement Program. Over the next eight years, this bill will generate over \$210 million annually. Funding for this bill comes from an increase in vehicle fees, such as the annual registration fee, driver's license fees, and the smog check exemption fee that new vehicles pay.

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

Michael Rich

Human Resources Officer

Mary Ann Goodley

Executive Office Manager

Division Directors

Brian Bateman

Engineering

Jack M. Colbourn

Administration and Incentives

Lisa Fasano

Communications

Henry Hilken

Planning, Rules and Research

Gary Kendall

Technical Services

Kelly Wee

Compliance and Enforcement

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Contra Costa County

John Gioia Mark Ross, Chairperson Michael Shimansky Gayle B. Uilkema

Marin County

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Napa County

Brad Wagenknecht

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Santa Clara County

Erin Garner Yoriko Kishimoto Liz Kniss Patrick Kwok

Solano County

John F. Silva

Sonoma County

Tim Smith Pamela Torliatt, Secretary



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)



General Business (415) 771-6000

(415) 749-4900 **Compliance Assistance** (415) 749-4999

Engineering Services (415) 749-4990

Vehicle Buy Back Program (888) 690-2274

