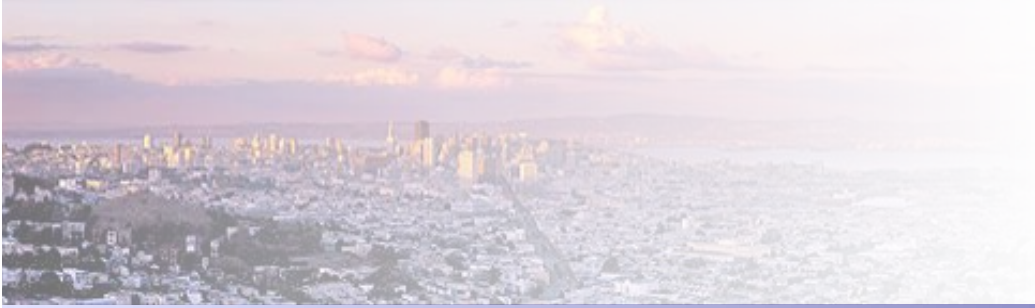




BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT



Air District Financial Overview: Anticipated Challenges in the Fiscal Year Ending (FYE) 2019 Budget

**Board of Directors Meeting
March 7, 2018**

**Jack P. Broadbent
Executive Officer/APCO**



TOPICS

- Costs for New and Enhanced Programs
- CalPERS Pension Costs and Policy
- Medical Retirement Costs and Policy



NEW AND ENHANCED PROGRAMS



NEW AND ENHANCED PROGRAMS

Resulting General Fund Expenses

Representative values – to be updated with March Draft Budget

Increases in FYE 2019 budget compared to FYE 2018

- \$6 M / Year Personnel
- \$1 M / Year Equipment
- \$1 M / Year Data Analysis



FEES: SUMMARY

- The current Cost Recovery policy is sufficient to fund the new and enhanced programs
- If State funding for AB 617 does not persist, other actions may be necessary:



CALPERS PENSION



CALPERS DISCRETIONARY FUNDING

Current Status

- **\$283 M Obligation:** 73% Funded (\$207 M)
- **Funding Policy:** 90% Funding Level (\$255 M)
 - No Target Date
 - FYE 2018 discretionary funding: \$1 M



CALPERS DISCRETIONARY FUNDING Recommendation

- **Policy Recommendation:**
 - Establish a 20 Year target to reach 90% funding
 - Use 6.5% discount rate to calculate contribution
 - Achieves 90% funding in FYE 2039
 - Results in FYE 2019 contribution of \$1 M



MEDICAL RETIREMENT (OPEB)



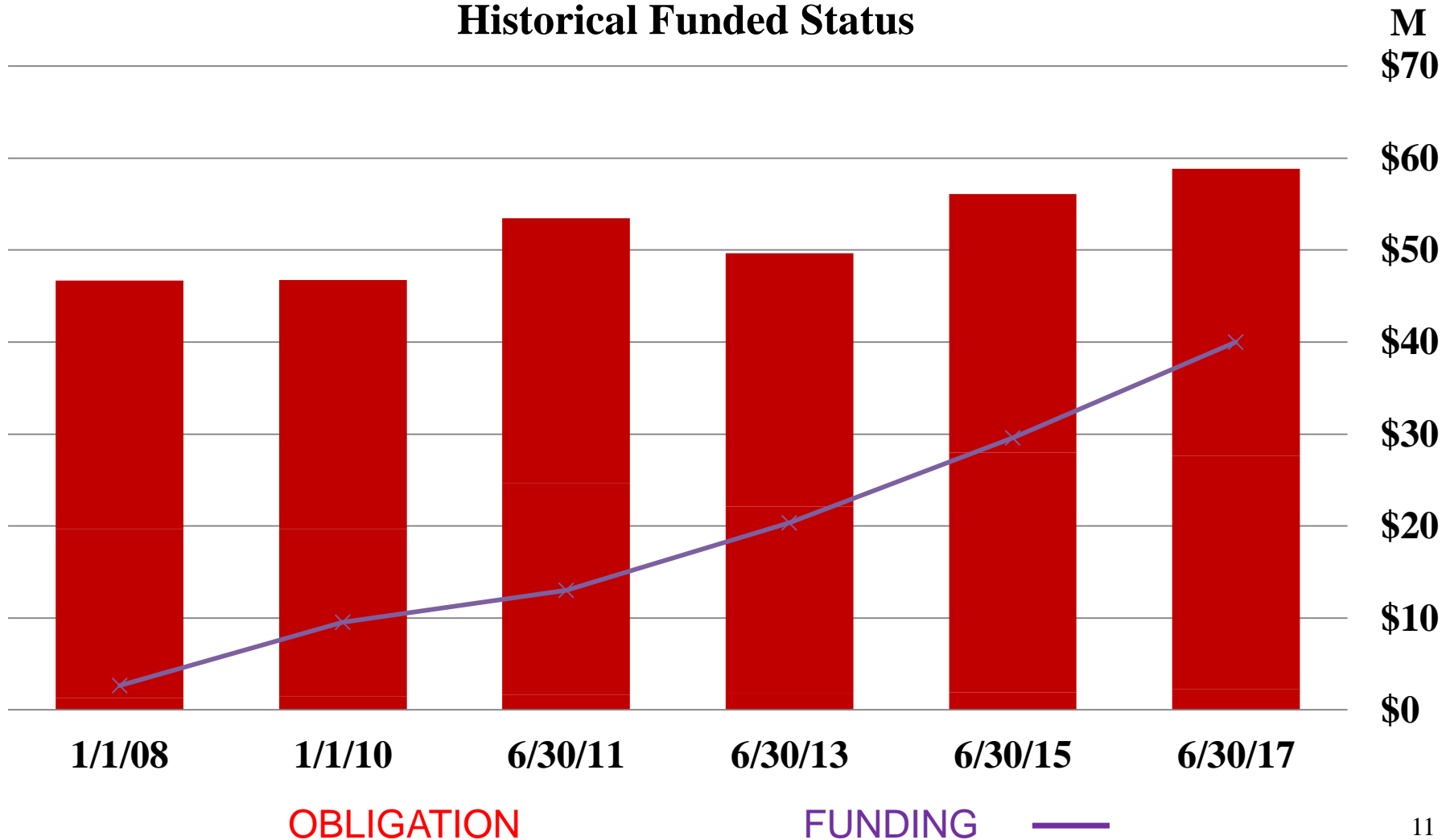
OPEB DISCRETIONARY FUNDING

Current Status

- **\$59 M Obligation:** 68% Funded (\$40 M)
- **Funding Policy:** 90% Funding Level (\$53 M)
 - No Target Date
 - FYE 2018 pre-fund: \$4 M

MEDICAL RETIREMENT (OPEB)

Historical Funded Status





OPEB DISCRETIONARY FUNDING Recommendation

- Continue with annual \$4 M prefund
- Allows annual \$4 M to be reallocated to CalPERS required contributions in approximately 3 years



SUMMARY

- Costs for New and Enhanced Programs
- CalPERS Pension Costs and Policy
- Medical Retirement Costs and Policy

2017-18 Winter Spare the Air Program Overview



Wayne Kino

March 7, 2018

Board of Directors Meeting

Presentation Outline

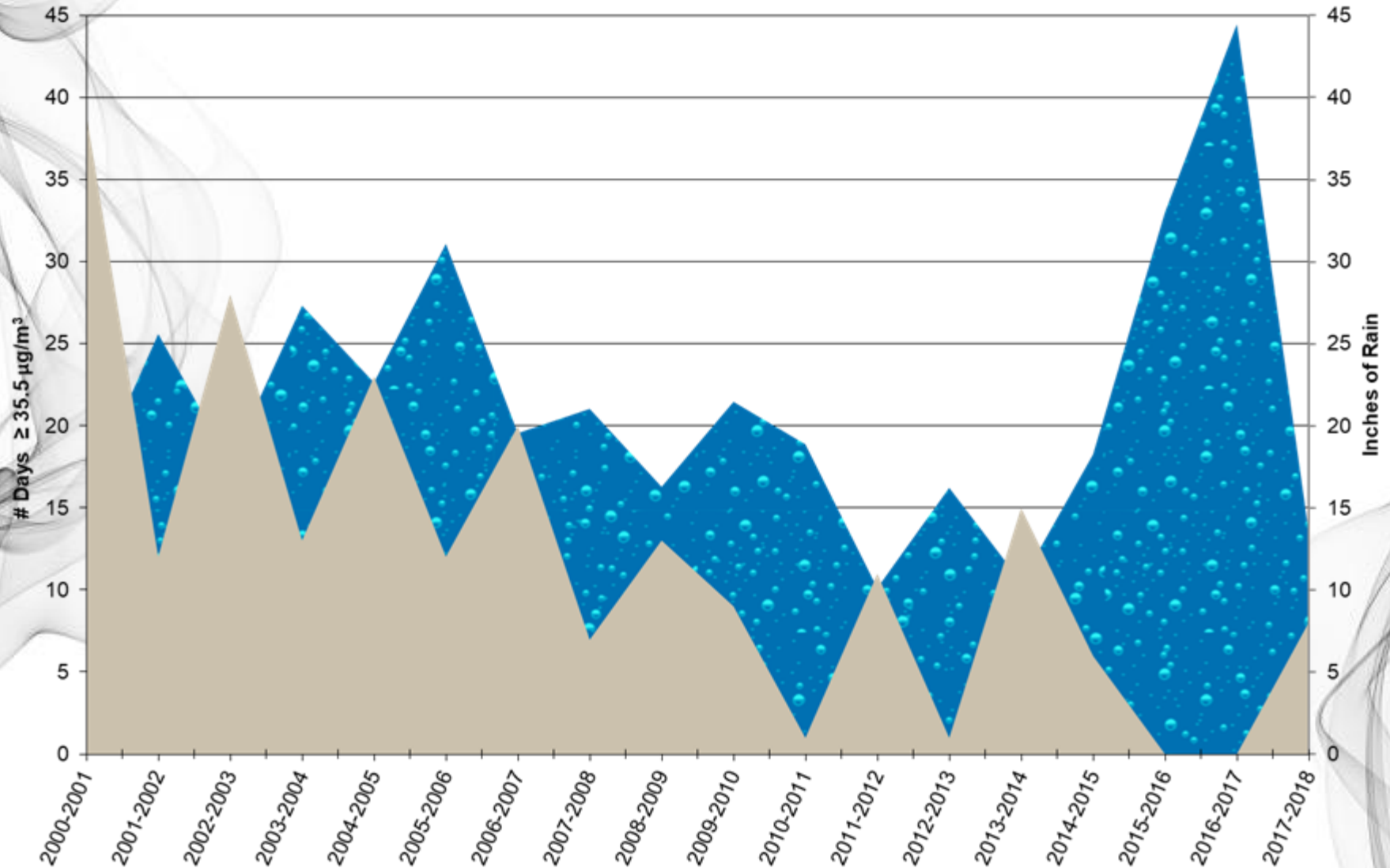
- General Information
- Enforcement
- Outreach
- Wood Smoke Reduction Incentive Program
- Summary and Next Steps

Winter PM2.5 Seasons

Year	Days > 35 $\mu\text{g}/\text{m}^3$	Winter Spare the Air Alerts
2011/2012	11	15
2012/2013	1	10
2013/2014	15	30
2014/2015	6	23
2015/2016	0	1
2016/2017	0	7
2017/2018	8	19

Less Rainfall = More PM Pollution

(18 winter seasons 2000-01 thru 2017-18)



Highest Air Quality Readings

November 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			61	58	52	47
48	52	51	49	40	53	56
59	43	45	40	38	52	64
63	78	70	74	68	57	64
50	41	58	52	60		

December 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					67	75
45	37	52	73	73	92	92
78	74	73	91	91	122	56
49	76	69	48	55	83	96
115	99	71	76	75	88	119
130						

January 2018						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	107	103	142	145	58	53
77	52	32	46	61	59	64
91	91	71	81	68	54	62
56	48	57	53	48	53	47
53	76	63	62			

February 2018						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				61	63	64
67	63	52	69	95	60	51
45	34	41	63	52	75	56
43	58	47	51	54	58	53
48	33	36	41			

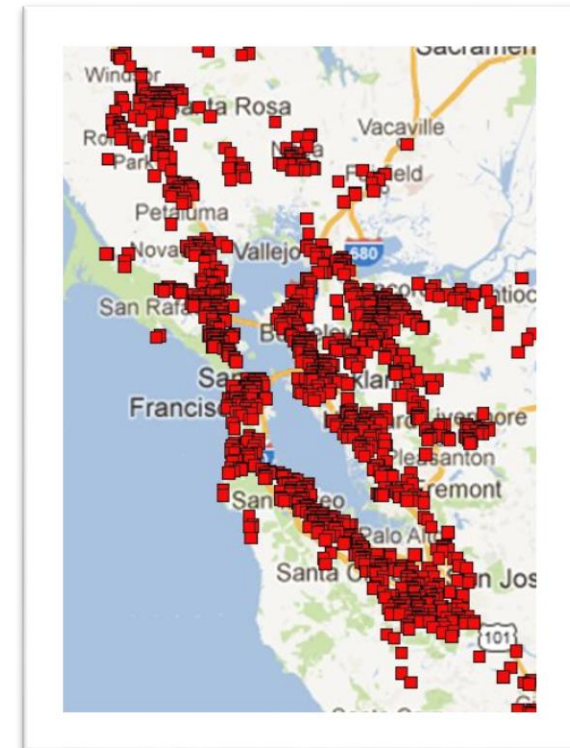
AQI Key	
Air Quality Index (AQI) Values	Levels of Health Concern
0-50	Good
51-100	Moderate
101-150	Unhealthy for Sensitive Groups
151-200	Unhealthy
201-300	Very Unhealthy

Wood Smoke Enforcement

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
WSTA Alerts	4	15	10	30	23	1	7	19
PM_{2.5} Excesses	1	11	1	15	6	0	0	8
Complaints	1,373	3,777	2,316	5,091	3,834	1,302	1,564	2,177
Info Packets	592	11,476	3,720	1,768	2,029	577	577	1,206
Violations	61	359	178	267	155	1	91	128
Exemptions	49	76	91	150	193 + 23 Seasonal	215 + 1 Seasonal	116 + 1 Seasonal	132 + 4 Seasonal

Enforcement Information

- **Violations: 128**
 - **126** - 1st NOV Wood Smoke Awareness Course or \$100 penalty
 - **2** - 2nd NOV \$500
 - **136** Total Exemptions
 - **132** registered EPA Certified Devices,
 - **4** temporary exemptions for broken heaters
- **Complaints: 2,177**
 - **44** addresses with 5 or more complaints
 - **18** addresses with 10 or more complaints
 - **2** address with 20 or more complaints



Advertising

Wood smoke is secondhand smoke
1-877-4NO-BURN SpareTheAir.org

Has your home taken up smoking this winter?
Breathing wood smoke is unhealthy.



It's Your Air, Protect It.
1-877-4NO-BURN SpareTheAir.org

¿Ha empezado su hogar a fumar este invierno?
Respirar humo de madera es dañino.



Es su aire, protéjalo.
1-877-466-2876 SpareTheAirNow.org

Q Search

TROPICAL MORNING

PLAYLIST Tropical M


We begin with tropical house
Created by: Spotify - 69 songs, 4 hr

PAUSE FOLLOW

Filter

TITLE	ARTIST
+ I Bet My Life - Alex Adair Remix	Imagin
+ Rivers	Thom
+ Show Me Love	Sam F
+ Been A While	Sam F
+ Breathin' (feat. Cara Hughes)	Borth
+ Seve - Radio Edit	Tez C
+ Wicked Games - Radio Edit	Parra
+ Don't You Know	Kung

Has your home taken up smoking this winter?
Breathing wood smoke is unhealthy.



Your Air, Protect It.
1-877-4NO-BURN SpareTheAir.org

Sports: QB Garoppolo's first start for 49ers will be a homecoming. C1

Eye: Radio station blockbuster ho

tax plan trigger. A4

The newspaper of Silicon Valley

The Mercury News

THURSDAY, NOVEMBER 30, 2017

24/7 COVERAGE. MERCURYNEWS.COM • \$1.50

611

今年冬天您家中是否煙霧瀰漫？
呼吸燒木材的煙非常不健康。

您的空氣，一定得保護。
1-877-466-2876 SpareTheAirNow.org



12:17 PM 45%

DAILY NEWS LIFESTYLE

Health Food Viva Games

1-877-4NO-BURN SpareTheAir.org

Air pollution can worsen osteoporosis: study

BY CONSTANCE GIBBS FOLLOW

NEW YORK DAILY NEWS Friday, November 10, 2017, 4:38 PM

f t e

ADVERTISEMENT SpareTheAir.org

Has your home taken up smoking this winter?
Breathing wood smoke is unhealthy.



It's Your Air, Protect It.
1-877-4NO-BURN SpareTheAir.org

SpareTheAir.org
SpareTheAir.org

WSTA 2017-18

REGIONWIDE (Includes multi-cultural)

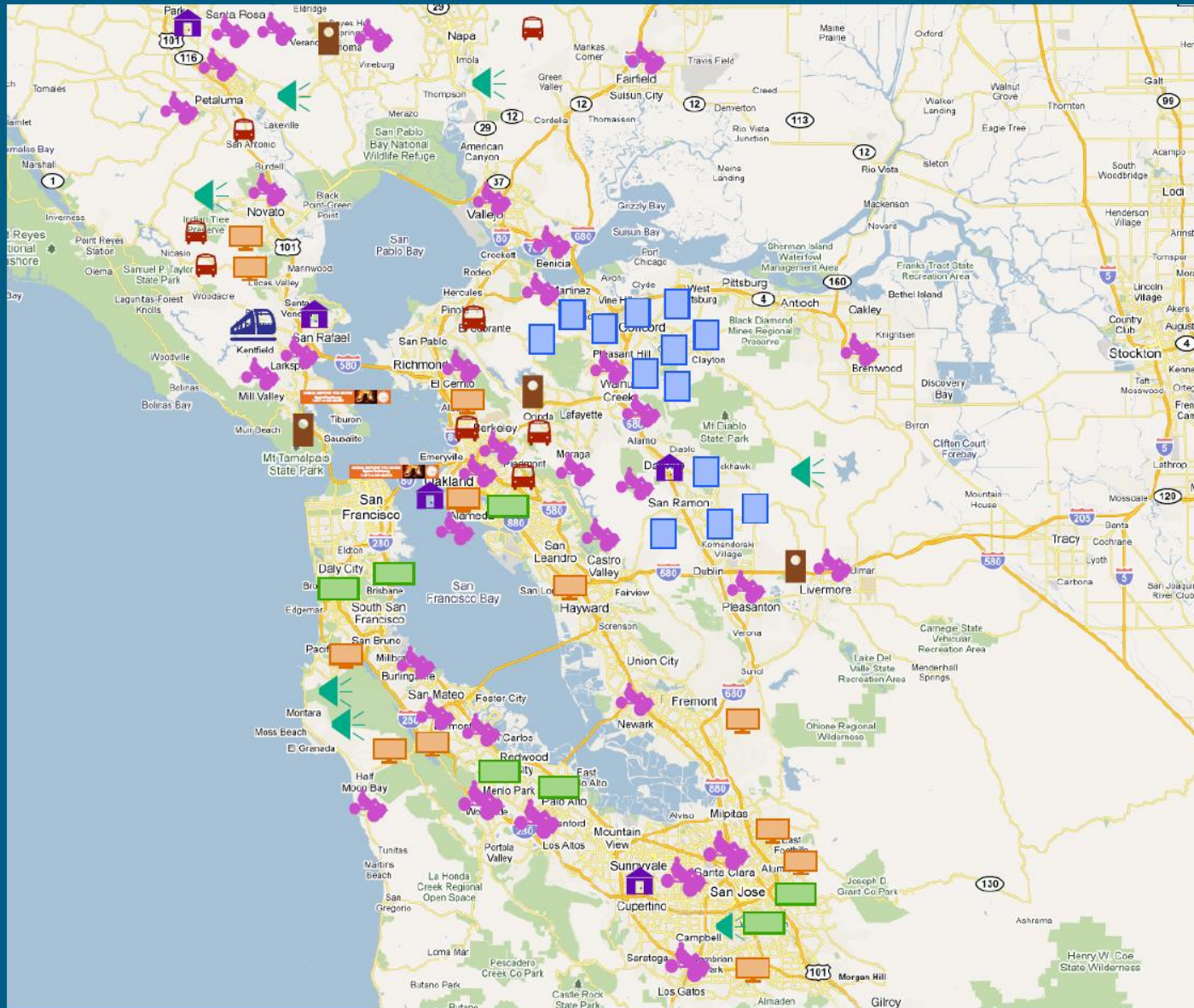
- BROADCAST TV
- CABLE TV
- HULU
- MOBILE
- ONLINE
- PANDORA
- PRINT
- RADIO
- SPOTIFY

TARGETED

-  OUTDOOR BANNER
-  DOOR-TO-DOOR
-  DOORHANGER
-  SMARTTRAIN
-  BICYCLE
-  BILLBOARDS
-  TRANSIT SHELTERS
-  ZONED COMCAST
-  ZONED RADIO

BUS ROUTES

-  GOLDEN GATE TRANSIT
- MARIN/SONOMA COUNTIES
- WESTCAT
- WESTERN CONTRA COSTA TRANSIT AUTHORITY
- AC TRANSIT
- EAST BAY



Media

- \$25 million in publicity value
- 2,855 stories
 - 2,539 broadcast
 - 277 online
 - 39 print



Winter Spare the Air Alerts Issued For Monday and Tuesday, Prohibiting Wood Burning

By Bay City News
Published at 5:00 AM PDT on Dec 25, 2017 | Updated at 8:51 PM PDT on Dec 25, 2017



Officials from the Bay Area Air Quality Management District have issued Winter Spare the Air alerts for Monday and Tuesday.

WEATHER FORECAST



NEWS

Winter 'Spare the Air' season starts Wednesday

The Bay Area Air Quality Management District's Winter Spare the Air season starts Wednesday, Nov. 1.

During the season, air district officials issue Winter Spare the Air alerts that make it illegal to burn wood, manufactured fire logs or other solid fuel indoors and outdoors for the upcoming day.

The alerts are issued when air quality is unhealthy due to fine particulate pollution, which is mainly from wood smoke and is



TOP BLOGS

- Palo Alto: Brown rice sushi restaurant replaces Komma's**
By Elena Kadavya | 1 comment | 1,607 views
- Couples: The ABCs of Love**
By Chandrama Anderson | 0 comments | 1,389 views

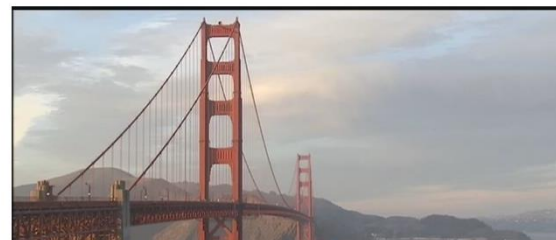
View all local blogs

CAMP CONNECTION

2018 guide to summer camps



Spare the Air alert issued for New Year's Day



Outreach Results

- Survey results indicate program has high recognition & compliance
- In-language surveys were conducted in Spanish & Chinese
- Support for the wood smoke rule strong at 73%
- 57% heard, read or saw media stories about the Winter Spare the Air program
- 76% think there are negative health effects associated with breathing wood smoke

Winter 2017/2018

Wood Smoke Reduction Incentive Program



\$750 to Decommission



\$1,000 for natural gas device



\$3,500 for electric heat pump

- The Board allocated \$3 Million for this program back in 2016.
- Funded approximately 1300 projects.

Program Information

Devices replaced:

- 81% Open-hearth fireplace
- 10 % fireplace with wood-burning insert
- 9% Free-standing wood-stove

Replacement project distribution:

- 93% Natural gas
- 4% Electric heat pump
- 3% Decommission

Summary and Next Steps

- Continue Forecasting and Enforcement Program.
- Award a new Spare the Air & Winter Spare the Air campaign contract (3-year contract) which includes:
 - Advertising
 - Media Relations
 - Social Media
 - Employer Program
 - Public Opinion Surveys
- Evaluate the effectiveness of the Wood Smoke Reduction Incentive Program.

AB617 Protecting Community Health

2018 Community Outreach

Board of Directors Meeting
March 7, 2018

Greg Nudd
Deputy Air Pollution Control Officer

AB 617 Status

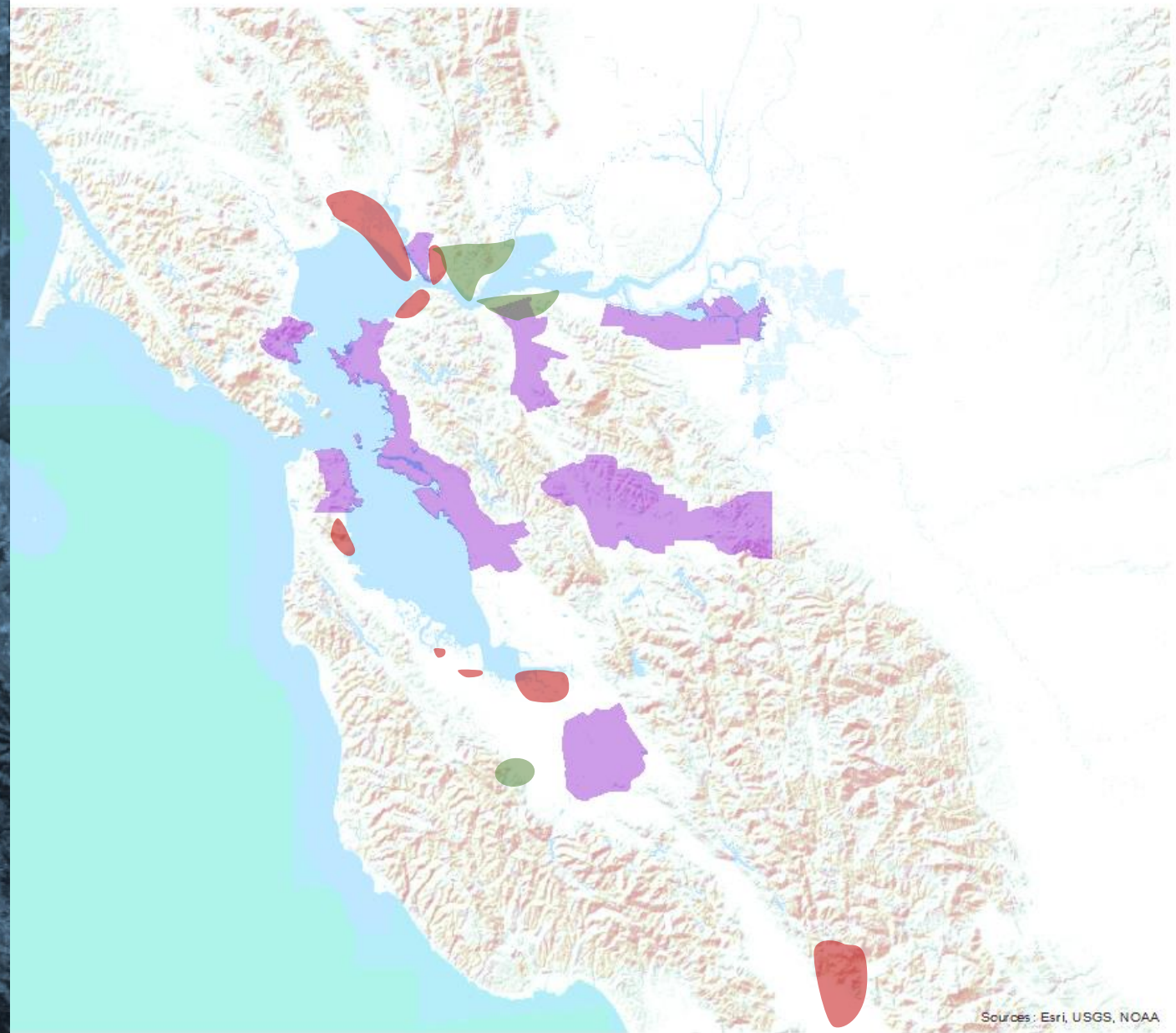
- Completed Regional Meeting on January 31, 2018
- Participated in joint meetings with Air Resources Board (ARB) in February 2018
- Beginning West Oakland Action Plan development
- Preliminary work on Richmond Monitoring Campaign

Upcoming CARB Deadlines

- April 30, 2018: Initial List of Candidate Communities
- July 31, 2018: Final Candidate Community Submittal
 - Year 1 communities
 - Year 2-5 communities
 - Years 6+ communities
 - Prioritization criteria

Potential AB 617 Communities

-  CARE Areas
-  Additional Health Impact Areas
-  Other Large Sources



Goals of 2018 Community Outreach

- Inform residents about AB 617
- Provide information about what we already know about the nearby communities:
 - Current monitoring data
 - Types of air pollution sources in the area
 - Proportion of mobile source vs. stationary sources in the area

Goals of 2018 Community Outreach - Continued

- Solicit input regarding community selection and prioritization criteria
- Gain better understanding of health conditions [or challenges] in local communities
- Solicit input regarding Carl Moyer grant funding and future funding needs

Initial Outreach Plan (1/2)

Location	Date	AB 617 Communities Invited
San Leandro	March 28	San Leandro, Hayward, East Oakland
Vallejo	April (?)	Vallejo, Benicia, Crockett
Pittsburg	April (?)	Pittsburg, Bay Point, Antioch, Brentwood, Oakley
Pleasant Hill	April (?)	Pleasant Hill, Martinez, Concord, Pacheco, Walnut Creek
San Pablo	May (?)	Richmond, North Richmond, San Pablo, Pinole, Hercules, Rodeo
Tri Valley	May (?)	Livermore, Pleasanton, Dublin, San Ramon

Initial Outreach Plan (2/2)

Location	Date	AB 617 Communities Invited
San Jose	May (?)	San Jose, Alviso, Redwood City, East Palo Alto, Cupertino, Milpitas, Fremont, Gilroy
Oakland	June (?)	Oakland, Alameda, Albany, Berkeley, Emeryville
San Francisco	June (?)	San Francisco, South San Francisco, San Rafael