



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Update of Completed Fiscal Year Ending (FYE) 2016 James Cary Smith Community Grant Projects

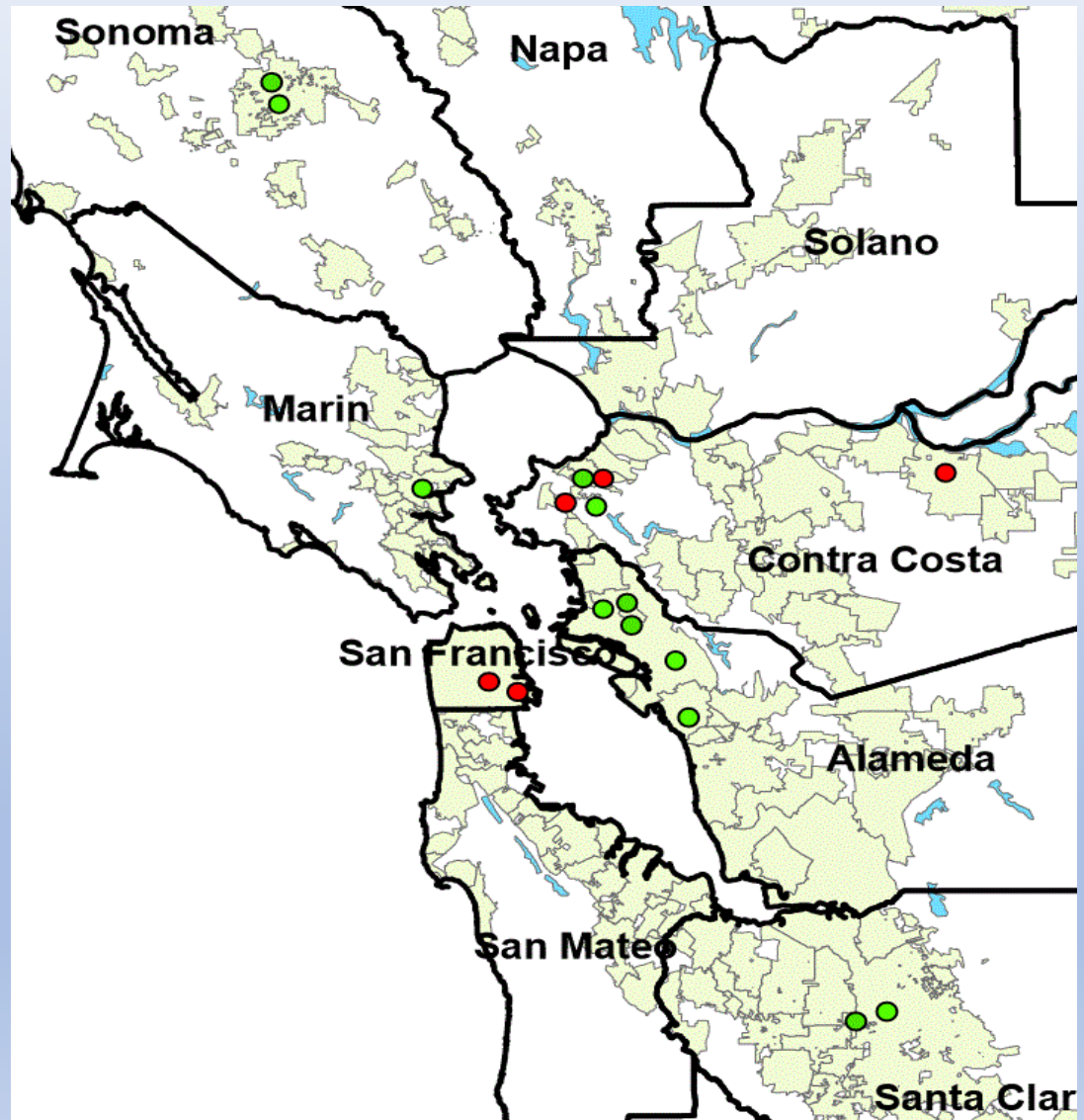
David Ralston
Community Engagement Manager

August 2, 2017
Board of Directors Regular Meeting

Map of Grant Awardees

Red dots = Community-based organizations grant partners

Green dots = School partners



**BAY AREA AIR QUALITY
MANAGEMENT DISTRICT**

A HEALTHY BREATHING ENVIRONMENT FOR EVERY BAY AREA RESIDENT

Center for Climate Protection Eco2school Youth Leadership Development



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Rails-to-Trails Conservancy

Richmond Rides! Celebrating Biking, BART, Buses, & Breathing



Air Pollution and Public Health

Bay Area During the summer months, ozone pollution (also known as smog) can become a health problem in the Bay Area.

In the summer months, 75% of the Bay Area's air pollution is caused by cars and light duty trucks.

Contra Costa County 47% of total annual CO2 emissions in Contra Costa County is from on-road transportation.

Carbon Dioxide (CO2) emissions in our atmosphere are responsible for changing our climate and harming our air quality.

Your Health Smog is linked to asthma, premature mortality, heart failure, lung failure, increased hospital and emergency room visits.

Air pollution is responsible for one million school absences annually in California.

Ways to reduce Air Pollution

COMMUTING BY BIKE

Environmental Benefits:

1. Bicycling uses no fuel.
2. Bicycling takes a lot less energy to make than a car.
3. Bikes don't require toxic batteries or motor oil.

Biking to BART Benefit

The typical commuter who rides BART instead of driving a million car trips saving 48 lbs of pollutants per day from their vehicle into the air.

WALKING

TAKING BART

TAKING THE BUS

Additional Resources

BART Bikes on BART

Visit: <http://www.bart.gov/guide/bikes>

Bikes on Buses

Visit: <http://www.actransit.org/guide/bikes-on-buses>

Air Quality Health Effects

YES Conference

Youth for the Environment and Sustainability

Save the Date: YES Conference 02.25.2017

Learn more: <http://www.sparetheairyouth.org/2016-yes-conference/>

RICHMOND RIDES!

Celebrating Biking, BART, Buses, and Breathing

Funded by the Bay Area Air Quality Management District

Celebrating Trails Spring 2017

Rich City Rides and Rails-to-Trails Conservancy present 4 weeks of bike rides in preparation for Opening Day for Trails!

Celebrating Trails in the Bay Area

Self-Care Sunday Rides 9-1:00 pm March 12 March 19 March 26 April 2	5th Annual National Opening Day for Trails Saturday, April 8th 2017 10-1:00 pm
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All rides start at:
 Rich City Rides Bike Shop
 1500 Macdonald Ave.
 Richmond, CA 94801
 (Across the street from the Richmond BART Station)

For more information contact: nakanyon@richcityrides.org
<http://www.richcityrides.org/events/opening-day-for-trails-2/>



Our Power April 8th Saturday

Opening Day for Trails
 celebrate free trails 10am - 1pm

ride: RICHMOND & OAKLAND

Transformative Visions
 Spoken Word, Arts & Jazz
 2pm - 6pm

ride: OAKLAND & RICHMOND

Rhythm in Rich City
 dance party
 7:30pm - 10pm

American Canyon High School/Teacher Grant Quest to Save the Earth



Science

American Canyon students assess Napa Valley's contribution to global warming

NOEL BRINKERHOFF nbrinkerhoff@americancanyoneagle.com May 12, 2017



Physics teacher Daniel Rosales shows off a modified Raspberry Pi computer that someday may measure greenhouse gases in the Napa Valley.

[BUY NOW](#)

Noel Brinkerhoff, Eagle

Breathe California of the Bay Area Youth for a Cool Earth



Breathe California of the Bay Area at John Baldwin Elementary.

June 8 at 4:06pm · 🌐

Congratulations to our Youth for a Cool Earth students at John Baldwin Elementary who graduated from our 10 week environmental education program! 🌱🌿🍃

Here they are presenting their #CallToAction posters to family, teachers, and peers during the end of the year open house. 😊



Did you know that after Chevron's Richmond Refinery fire, 15,000 people couldn't breathe and were hospitalized?

SB 691 aims to **dramatically increase the penalties** faced by industries that violate air quality regulations, compelling them to practice thorough maintenance in order to prevent similar disasters.

Let's make sure to get this bill on the Assembly docket in April: Sign up for our e-news, and you'll receive an invite soon to become a **Breathe California e-Advocate**. It will be an easy way to support SB 691 as well as future clean air legislation!

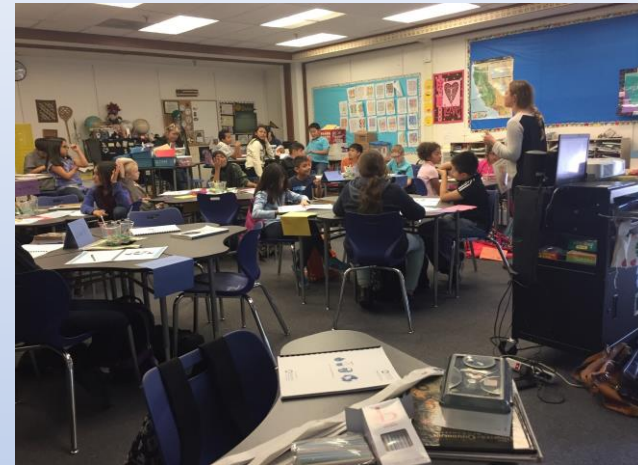
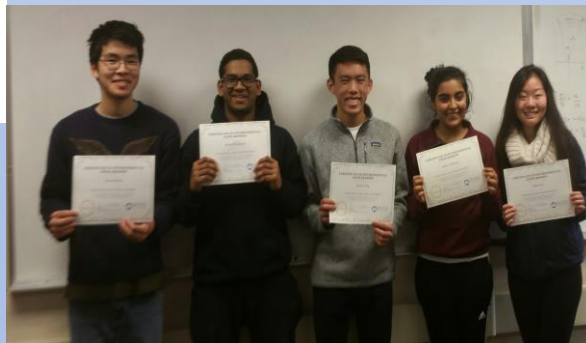
Follow this link to join our e-Advocacy network:
<http://bit.ly/VaUla3>

 **BREATHE CALIFORNIA**

 **BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

 Breathe California and the Bay Area Air Quality Management District are co-sponsoring legislation introduced by Senator Loni Hancock (left) and Assemblymember Nancy Skinner (right).





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Strategic Energy Innovations (SEI)

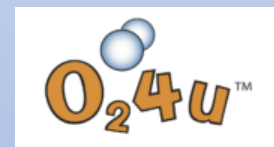
Air Quality Education & Improvement Program



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Breathe CA Golden Gate Public Health Partnership O24u Air Quality Improvement Education Program



National Public Health Week with



A HEALTHY BREATHING ENVIRONMENT FOR EVERY BAY AREA RESIDENT

Earth Team

Zero Carbon Schools: Sustainable Youth Internships



Richmond Air Quality Interns Conduct Transportation Surveys

March 17, 2017



The Transportation Action Plan (TAP)

Earth Team interns worked diligently in the data collection for the TAP calculator which, in short, calculates the pounds of CO₂ emitted per week by forms of transportation. Interns are focusing on collecting data in order to create, lead, and implement a plan that will reduce CO₂ emissions by persuading and...



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Hunters Point Family The People's Harvest



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La Clinica de la Raza

Pittsburg Air Quality Community Advocates



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SF Bicycle Coalition Education Foundation Community Bike Builds



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Rose Foundation

Collaborative Air Quality Leadership Development



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IntegrArte

Pancho Sotenible's House & Ciudad Clea Sustainability Education Tools



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BAY AREA
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DISTRICT

Update on Cap and Trade and Related Legislation

Jack P. Broadbent

Executive Officer/Air Pollution Control Officer

Board of Directors Regular Meeting

August 2, 2017

Overview

- Assembly Bill 398 Summary
- Air District GHG Regulatory Authority
- Assembly Bill 617 Summary
- Key Information
- Next Steps – Rulemaking
- Next Steps – Develop Work Plan for AB 617 Implementation
- Priorities



Assembly Bill 398

- Extends Cap and Trade Program through 2030
- Half of offsets must be generated in California
- Price ceiling to guard against price shocks
- Preempts local air districts from regulating CO2 from sources under Cap and Trade
- Restricts CARB from direct emission reduction measures for refineries and oil/gas industry
- Effective immediately



Air District GHG Regulatory Authority

- Preempted from requiring CO2 reductions from sources under Cap and Trade Program
- Retain authority to regulate methane & other non-CO2 emissions from sources under Cap & Trade Program
- Retain authority to regulate all GHG emissions from sources not subject to Cap & Trade



Assembly Bill 617

- Increase penalty ceilings for stationary source violations
- Requires local air districts to expedite BARCT requirements
- Prioritize existing sources without recent BARCT requirements
- Requires community and fenceline monitoring in high priority locations
- Requires community emission reduction programs in high cumulative impacts areas
- Requires uniform emissions reporting for sources subject to Cap and Trade Program
- Effective January 1, 2018



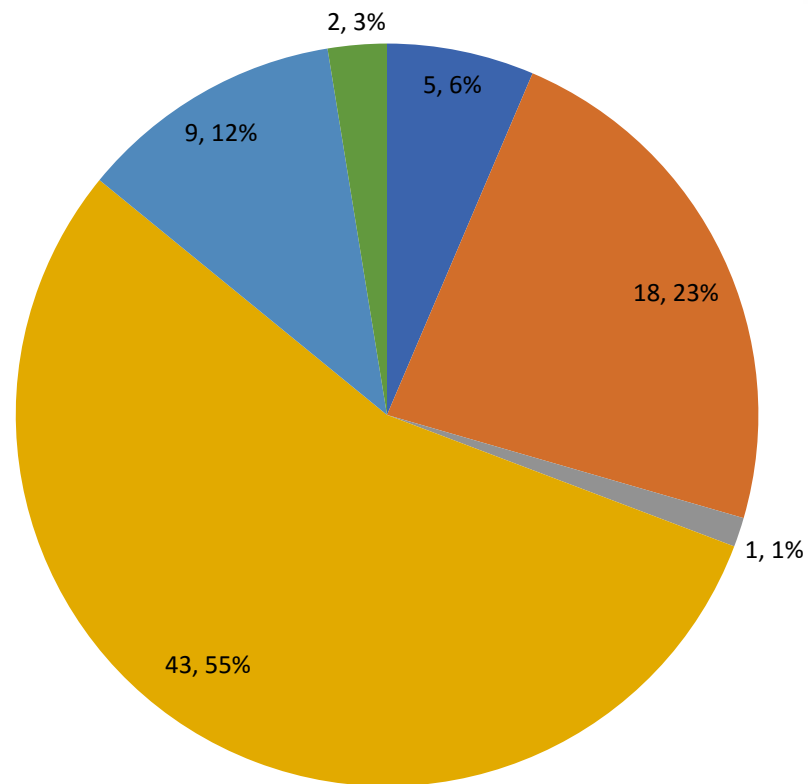
Key Information

Bay Area Facilities Under Cap and Trade Program

- 78 facilities
- 137 source categories
- 7,310 individual sources



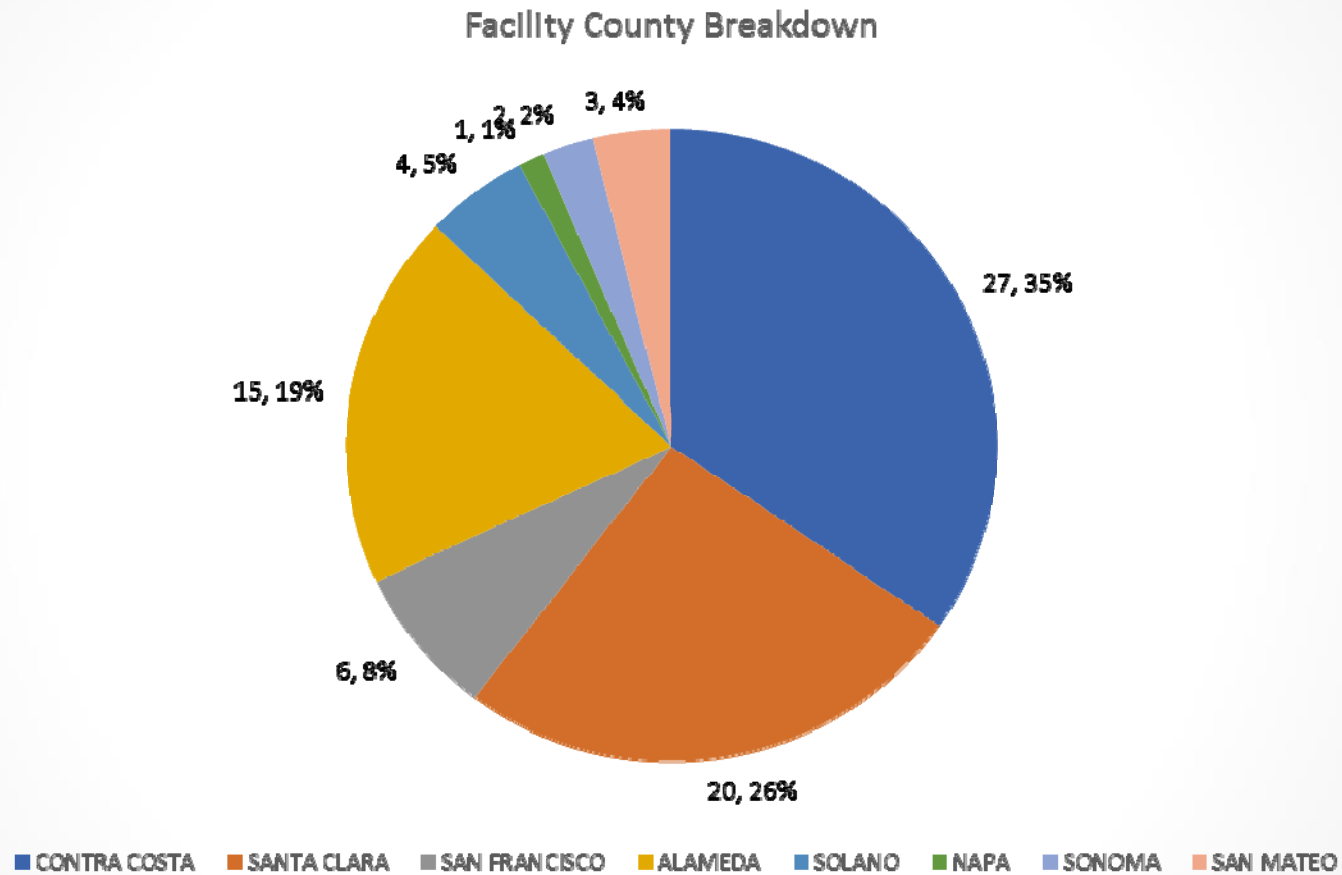
Facility Sector Breakdown



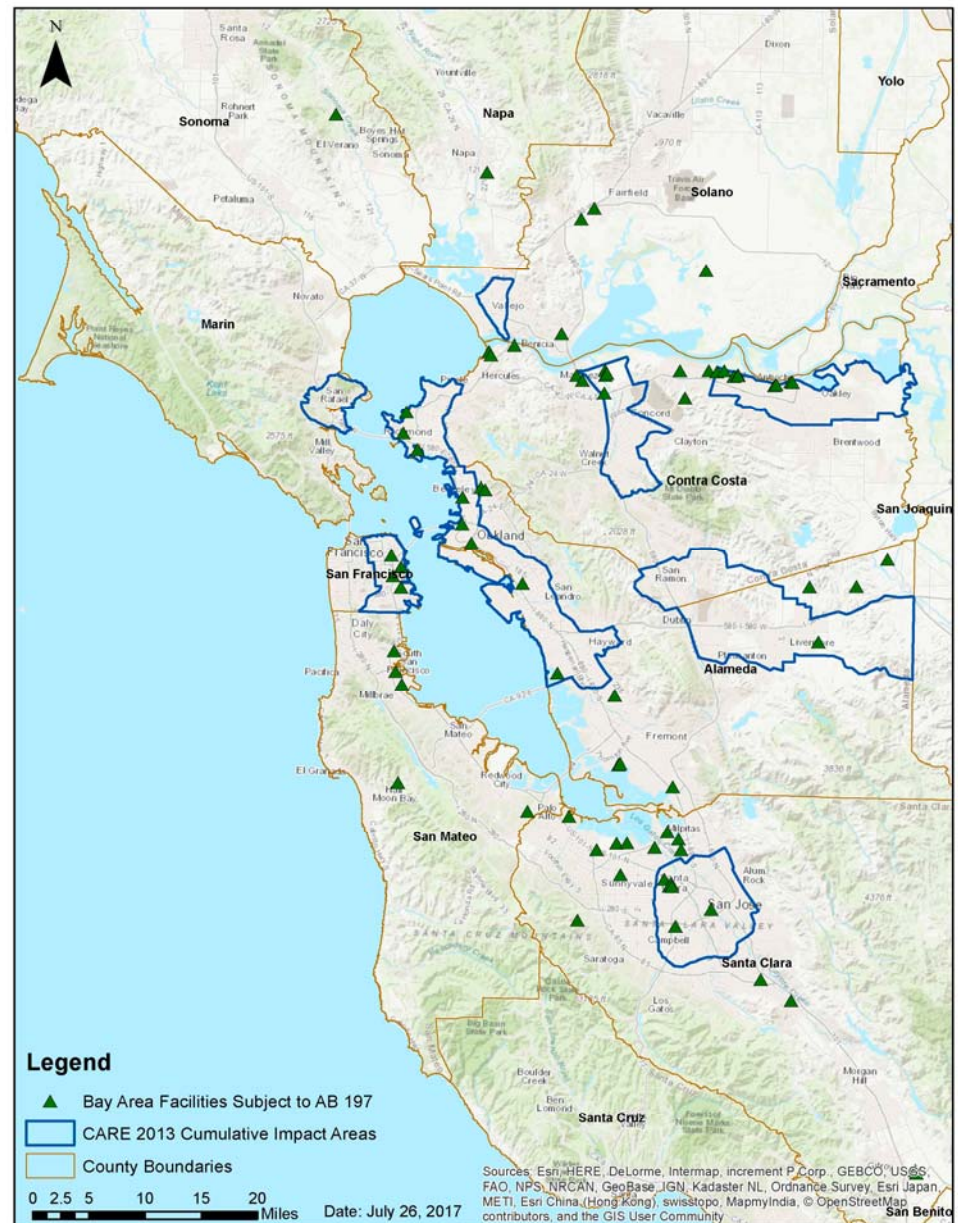
■ Refinery ■ Electricity Generation ■ Cement Plant
■ Other Combustion Source ■ Cogeneration ■ Hydrogen Plant



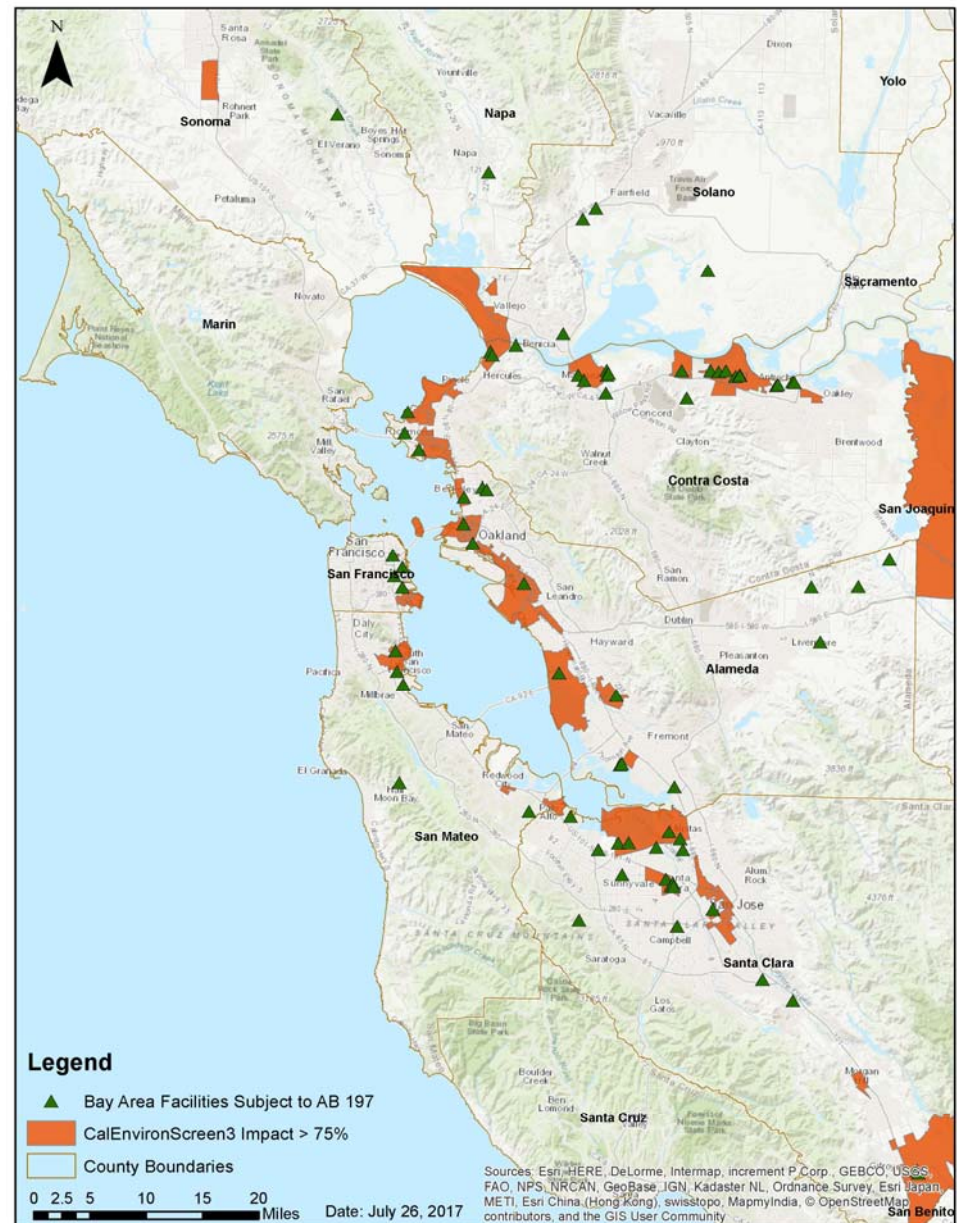
Facility County Breakdown



Map of Facilities and Care Communities



Map of Facilities and CalEnviroscreen Communities



Next Steps - Rulemaking

- Regulation 2 - Permit Requirements Amendments (October 2017)
- Rule 11-18 – Toxics Risk Cap (November 2017)
- Regulation 6 rules – Particulate Matter (February 2018)
- BARCT rules to implement AB 617 (2018-2023)
- Refinery Emission Reduction Strategy (20% by 2020) rules (2018)
- Regulation 13 rules – Methane Emission Reductions (2018)



Next Steps – Develop Work Plan for AB 617 Implementation

- BARCT Analysis
- BARCT Rule-making Schedule
- Community Air Monitoring
- Community Emission Reduction Programs
- Emission Inventory Upgrades
- Interagency collaboration
- Community Engagement
- Timeline
- Costs



Priorities

- Real, substantive health benefits for Bay Area communities
- Develop and implement PM Stationary Plan
- Toxics Cap (Rule 11-18)
- Undifferentiated PM REL(s)
- Secure appropriate funding
- BARCT




Summary of Ozone Seasons

Year	National 8-Hour	State 1-Hour	State 8-Hour
2014*	5	3	10
2015*	5	4	11
2016	15	5	15
2017	0	1	0

Spare the Air Alerts: 5/3/2017, 5/22/2017, 6/18/2017, 6/22/2017, 6/23/2017, 8/1/2017

Days > 0.070 ppm 8-hour NAAQS:

***Based on NAAQS of 0.075 ppm that was in place during those years**



Winter PM_{2.5} Seasons

Year	Days > 35 μg/m ³	Winter Spare the Air Alerts
2013/2014	15	30
2014/2015	6	23
2015/2016	0	1
2016/2017	0	7

- **Spare the Air Alert Called for:** 12/19/16, 12/20/16, 12/21/16, 12/22/16, 1/17/17, 1/30/2017, 2/1/2017
- **Days > 35 μg/m³ 24-hr NAAQS:**