



Bay Area Air Quality Management District

Report to the Cities Association Board

November 8, 2018

Rod Sinks, Liz Kniss
Cities Association Appointees
to BAAQMD

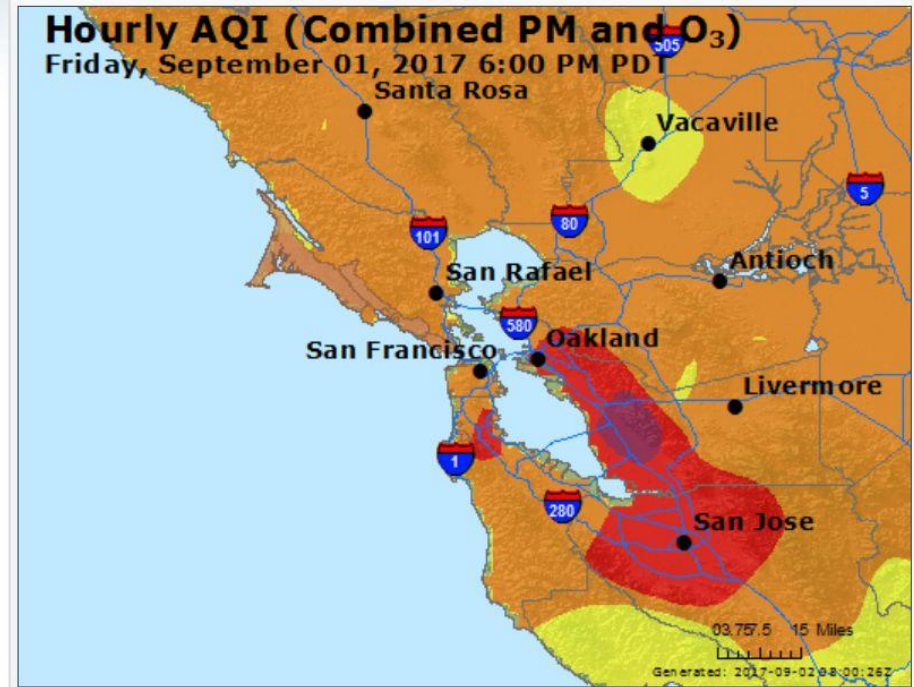


Selected Current Activities

- Evolving Tech for Air Quality Monitoring & Modeling
- Protecting Human Health
- Protecting Climate
- Mitigating South Bay Odors



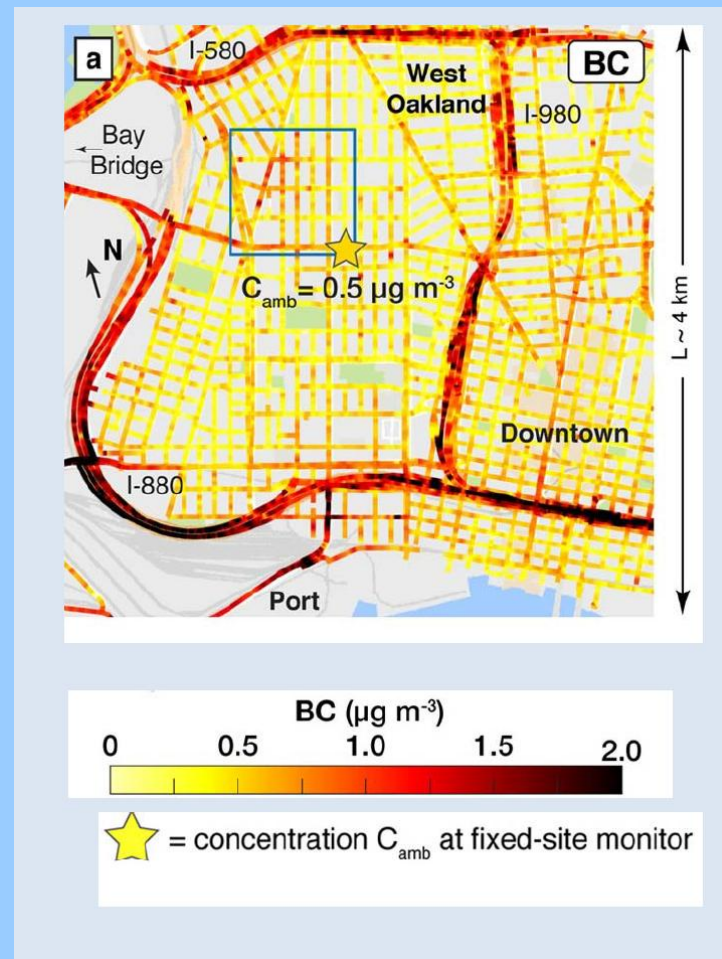
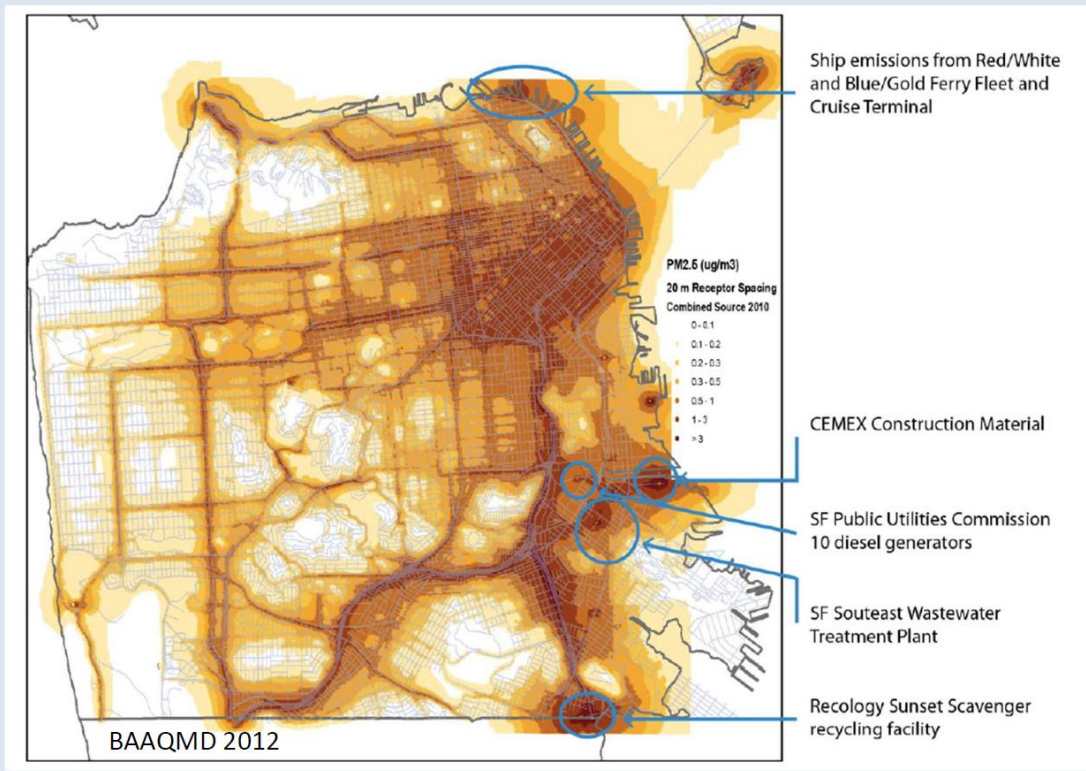
Traditional AQ Monitoring

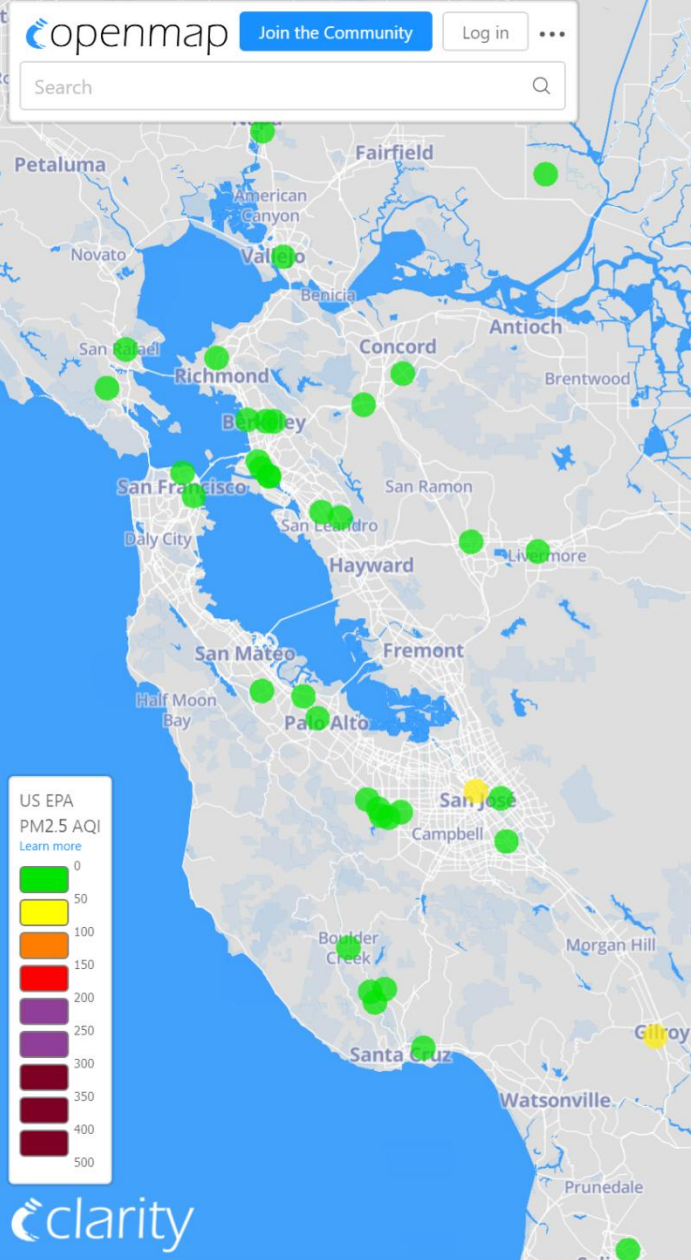




Modeling & Mobile AQ Monitoring

Modeled PM_{2.5} Contribution from Multiple Sources in San Francisco





Consumer AQ Monitoring

Join the Community OpenMap About

Clarity Node - Community Edition

\$229.00

Node Wifi 1 **ADD TO CART**

The Clarity Node is a new generation air pollution sensor that accurately monitors the level of ultra-fine dust (PM2.5) in the air. This Community Edition is designed for community air monitoring and data sharing on [OpenMap](#), Clarity's open data portal with air quality measurements from all over the world. The small, rugged device measures PM2.5, temperature, and relative humidity, taking less than 10 minutes to set up and start uploading air quality measurements to Clarity OpenMap.

Features:

- Real-time PM2.5, Temperature, & Relative Humidity data
- Durable and weatherproof: rated IPX3, UV resistant, & FCC certified
- Automatically uploads data to Clarity OpenMap via WiFi
- Sensor dashboard to monitor device activity
- Externally powered via adapter (Type A plug included)

We encourage you to submit suggestions and feature requests through the [OpenMap contact form](#).

If you are interested in a solar powered/cellular device measuring more pollutants (NO2, PM1, PM10, etc.) or Smart City applications (hotspot detection, policy assessment, etc.), please visit our main website at [clarity.io](#) or contact us [here](#).

Find the right product for you. Compare our monitoring services [here](#).



Protecting Human Health

- **Toxins: Regulation 11 Rule 18** (adopted Nov '17)
 - Will reduce cancer risk mitigation threshold from all Bay Area stationary sources from 100 to 10 excess cancers per million people
- **Particulate Matter: Regulation 6** (adopted Aug '18)
 - Key driver of cardio-vascular health
 - New requirements for dust mitigation from industrial and construction sites
 - Framework for further mitigation of industrial sources of particulate matter



Protecting Human Health

**DIESEL
FREE BY '33**

Sign the Statement of Purpose (SOP) to commit to adopting policies to reduce diesel emissions in your communities.

Sign the SOP Worldwide Commitments Diesel Free Event

The Bay Area Air District is asking mayors, city and county government officials, and leaders of industry and business from all over the world to commit to going diesel free by signing the Statement of Purpose to cut diesel use to zero by the end of 2033.

<http://dieselfree33.baaqmd.gov/>



Protecting Climate

Mission: Scale up emerging technologies that reduce greenhouse gas emissions



Connect Emerging Technologies



and

Customers

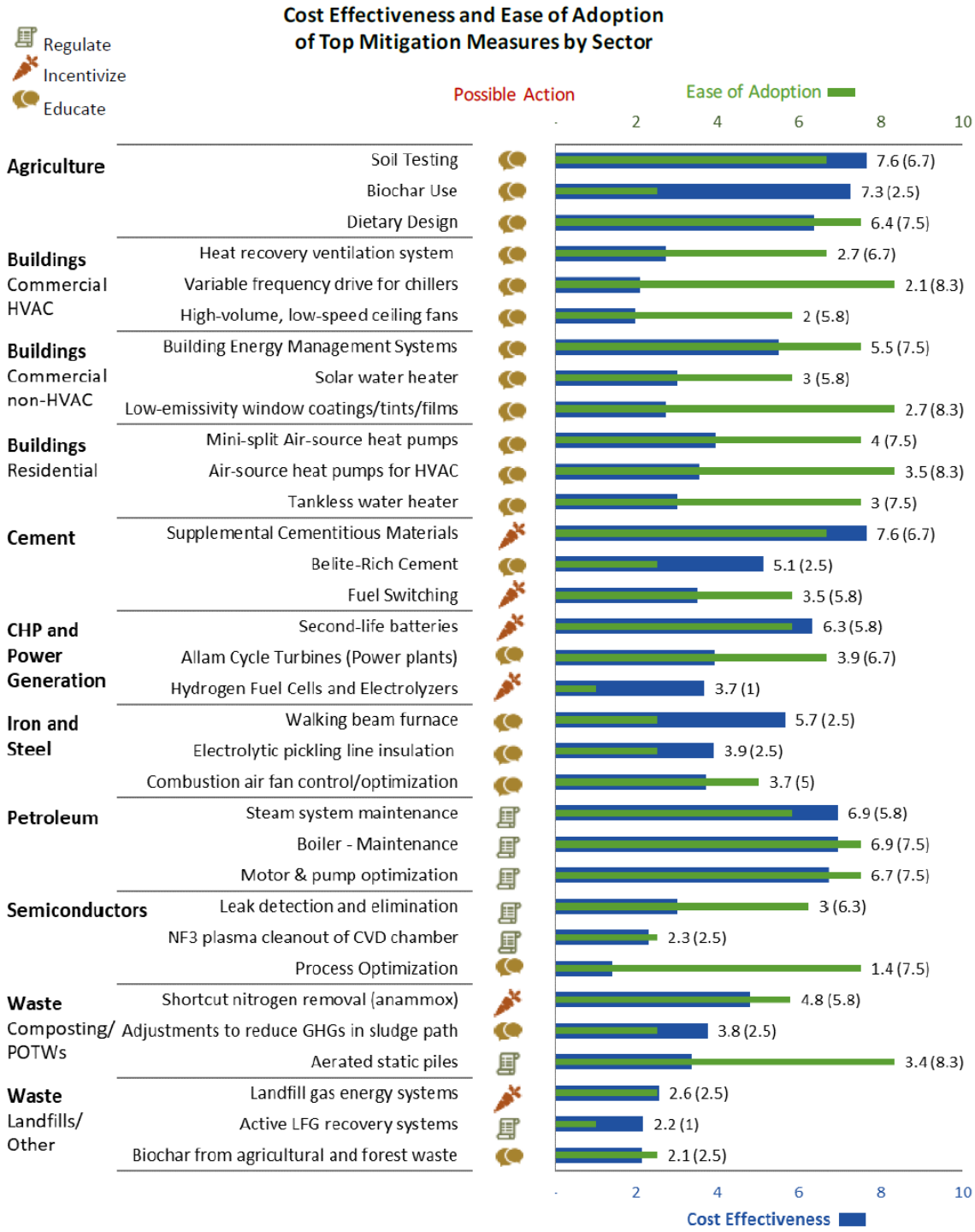


- Evaluate benefits and costs of emerging technologies, identify technologies with high-potential for impact and scale
- Educate customers and offer matchmaking services
- Loans, loan guarantees, grants and financing partnerships



Protecting Climate

Climate Technology Review: An Assessment of Opportunities to Reduce Greenhouse Gas Emissions at Stationary Sources in the Bay Area October 2018 (report available at baaqmd.gov/ctf)





Climate Tech Marketplace

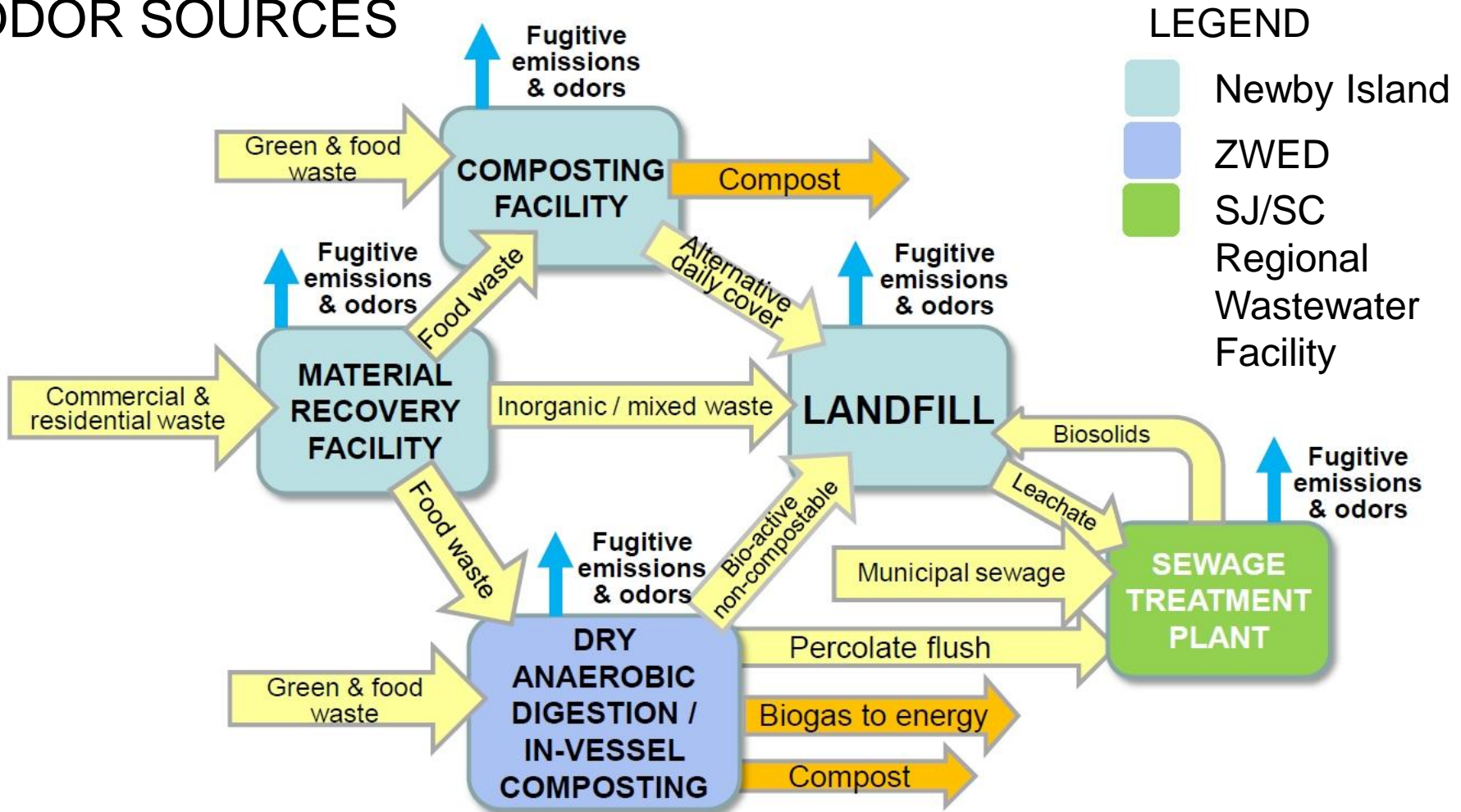
September 13, 2018





Mitigating South Bay Odors

ODOR SOURCES





Mitigating South Bay Odors



Enforcement Actions

International Disposal Corp of CA (Newby Island)

- 12 Public Nuisance violations for garbage odors at Material Recovery Facility (MRF)
- 1 Public Nuisance violation for biosolids odor
- 7 violations for Reg 8-34, landfill surface & component leaks
- 3 permit violations
- 2 source test violations

Zero Waste Energy Development (ZWED)

- 17 permit violations

San Jose Santa Clara Regional Wastewater Facility

- 1 Public Nuisance violation for biosolids odor
- 2 permit violations



Mitigating South Bay Odors



Next Steps

- Continue Air District Enforcement & Engineering efforts in coordination with LEA to ensure compliance of operations
- Update Complaint Policy & Procedures
- Rule Development Work:
 - Amend Regulation 7, Odorous Substances
 - Develop Rule 13-2, Organic Materials Handling
 - Develop Rule 13-3, Composting Operations