



Bay Area Air Quality Management District

Report to the
Cities Association Board
August 8, 2019

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Cities Association Appointees
to BAAQMD



Selected Current Activities

- Better Air Quality Monitoring
- Protecting Human Health & Climate
 - Recent Rulemaking
 - Wildfire Smoke
 - US EPA on Particulate Matter
 - Incentives
- Issues of Local Concern
 - South Bay Odors
 - Lehigh Cement Plant



Traditional Air Quality Monitoring





NEW

Mapping Localized Impacts

Sample air while driving every Bay Area roadway ~20 times



Air quality data from Google / Aclima

Google Earth



Aerial Detection





Health – Recent Rulemaking

- **Toxins: Regulation 11 Rule 18**
 - 10x risk reduction
 - Phase 1 implementation underway
- **Particulate Matter: Regulation 6**
 - 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



Health – US EPA on Particulate Matter



Draft PM ISA

Health Effects: Causality Determinations

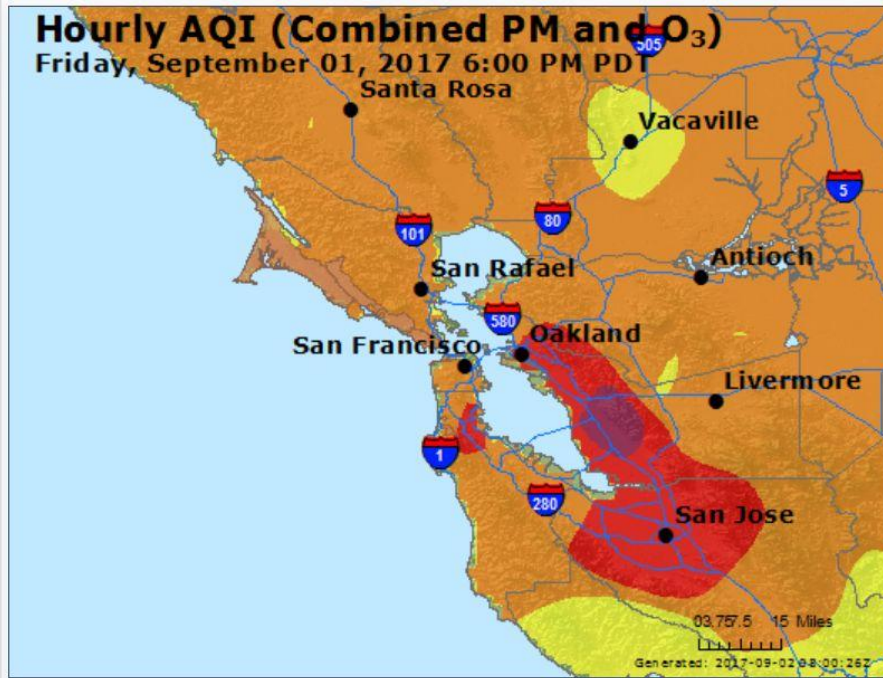
| HUMAN HEALTH EFFECTS | | | | | | |
|----------------------|----------------|--|------------------------------|----------------------|-----|--|
| | | ISA | Current PM Draft ISA | | | |
| | | Indicator | PM _{2.5} | PM _{10-2.5} | UFP | |
| Health Outcome | Respiratory | Short-term exposure | | | | |
| | | Long-term exposure | | | | |
| | Cardiovascular | Short-term exposure | | | | |
| | | Long-term exposure | | * | | |
| | Metabolic | Short-term exposure | * | * | * | |
| | | Long-term exposure | * | * | * | |
| | Nervous System | Short-term exposure | * | | * | |
| | | Long-term exposure | | * | | |
| | Reproductive | Male/Female Reproduction and Fertility | Long-term exposure | | | |
| | | | Pregnancy and Birth Outcomes | | | |
| | Cancer | Long-term exposure | | * | | |
| | Mortality | Short-term exposure | | | | |
| | | Long-term exposure | | * | | |

Causal
 Likely causal
 Suggestive
 Inadequate

* = new determination or change in causality determination from 2009 PM ISA



Health - Wildfire Smoke



**BAAQMD-sponsored bill: AB-836 (Wicks/ Kalra/ Chiu)
Wildfire Smoke Clean Air Centers for
Vulnerable Populations Incentive Program**



Health & Climate - Incentives

Projected New Grant Revenues for FYE 2019 \$137 (in Millions)



Carl Moyer Category Includes Funding From:

- CMP Year 20
- CMP Statewide Funds
- FARMER (agriculture only)
- LCFS - Low Carbon Fuel Standard

Other Funding Sources:

- EFMP – Enhanced Fleet Modernization Program
- RFG – Reformulated Gasoline Settlement Fund
- DERA – Diesel Emissions Reduction Act
- Zero-Emission Hydrogen Ferry Demonstration Project
- Carbon Offset Fund

*Total Volkswagen (VW) funding is \$423M statewide, which will be dispersed over ~5 year period. Staff projects that as much as 33% of funding could go to projects located in the Bay Area.



Health & Climate - Incentives

Funds Recommended & Awarded by Project Category Since July 2018

Total = ~\$69M

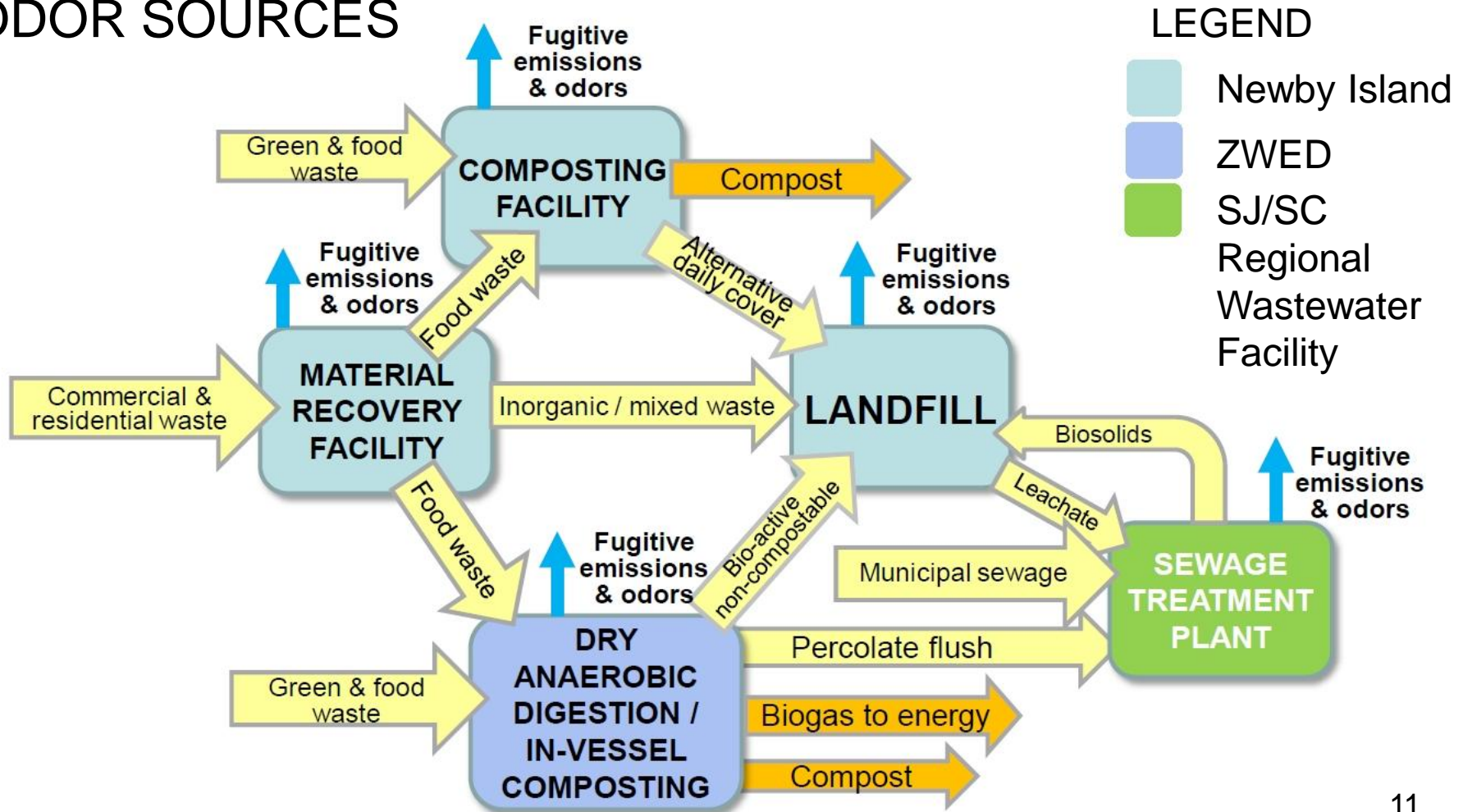
List of projects is shown in Attachments 2 and 3

| | | | | | |
|--|---|---|--|---|---|
|  |  |  |  |  |  |
| Light-duty Cars & Infrastructure | On-road Trucks & Buses | School Buses | Off-road | Off-road Marine & Locomotive | Trip Reduction |
| \$8.9M | \$4.6M | \$18.0M | Ag: \$4.4M Non-Ag: \$5.9M | \$16.1M | \$11.3M |



South Bay Odors

ODOR SOURCES





Mitigating South Bay Odors

- BAAQMD Odor Study
- New Rulemaking in Development
 - 13-1 Significant Methane Releases
 - 13-2 Organic Material Handling & Composting
 - 13-3 Composting Operations
 - 13-4 Sewage Treatment & Anaerobic Digestion
- Increased Participation in South Bay Odor Stakeholders Group meetings
- Board Stationary Source Committee Meeting
 - Milpitas City Hall
 - September 16, 2019, 10AM



Lehigh Cement Plant & Quarry

- New plan filed with County would
 - Open new pit & haul road to adjacent facility
 - Allow import of 33 million cubic yards of fill
(City est. 600 trucks/day, 300 days/yr for 30 years)
- Air quality concerns include
 - Condensable PM, Dust, Toxins
 - Diesel PM from Trucks
- BAAQMD Community Meeting
 - Cupertino City Hall
 - September 16, 2019, 6:30-8:30PM