

Update on Other CARE Activities



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CARE Task Force Meeting

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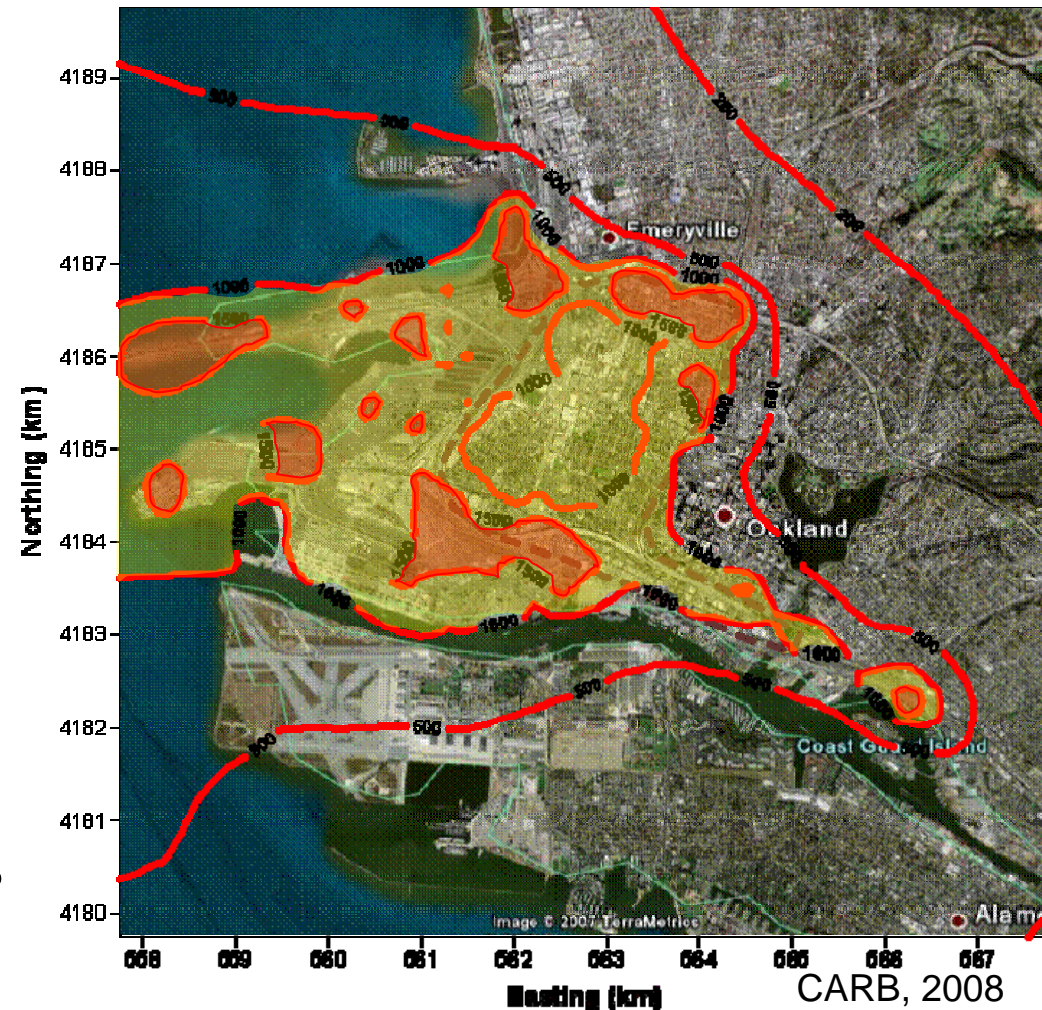
Overview

- West Oakland Studies Update
 - Health Risk Assessment (California Air Resources Board, Port of Oakland, Air District)
 - Truck Traffic Survey
 - Measurement Study
- Mobile Sampling Van

West Oakland Health Risk Assessment

- Local-scale modeling assessment focused on diesel PM
- Based on emissions in 2005
- Estimates the potential lifetime cancer risk and other health impacts based on modeled concentrations of diesel PM
- Draft summary released in March, 2008
- Final report expected this fall

Potential Cancer Risk in West Oakland from All Sources



Key Findings, Uncertainties

- The West Oakland community is exposed to diesel PM concentrations that are almost three times the estimated background diesel PM concentrations in the Bay Area
- On-road heavy-duty trucks result in the largest contribution to the overall air-related health risk in the West Oakland community
- There is significant uncertainty in the number of trucks on local streets and the proportion of trucks that are associated with Port activity



West Oakland Truck Traffic Survey

- District collaboration with community
- West Oakland Environmental Indicators staff, community surveyors, Air District staff, and Sonoma Technologies, Inc., counted trucks at over 30 locations for two weeks: Aug. 18th – 29th
- Surveyors recorded
 - Number of trucks
 - Truck movements
 - Truck types (axles, Port vs. non-Port)
 - License numbers
- Automatic counters were deployed at high to medium traffic locations
- To be completed
 - Truck idling survey & observations
 - Freeway monitoring



West Oakland Measurement Study

- Study goals:
 - Determine spatial variations of toxic air contaminants in West Oakland
 - Examine day-of-week variations
 - Estimate source contributions of diesel PM to ambient PM levels
 - Compare measurements to model-based health risk analysis
- Contract with Desert Research Institute
- Air District funding 2008/2009 winter measurements
- Additional seasons depend on EPA funding
- Next step: Design/test sampling van; prepare field study plan



AirMetric Minivol Aerosol Sampler: particle collection for speciation and analysis



Radiello passive samplers for VOC, aldehydes and H₂S (size of a roll of pennies)

Mobile Sampling Van

- Purpose/Goals
 - Assist with data collection in West Oakland study
 - Collect local-scale air quality samples in other communities
 - Assess air quality between regional monitoring stations
- Nitric oxide, ozone, VOC, particle sampling
- The Air District purchased a mobile sampling van and the monitoring equipment
- Next steps:
 - Install racks/equipment
 - Develop field survey plan
 - Conduct measurements

