



SCAQMD

Port Area Air Quality Monitoring

Status Update

**ARB Harbor Communities Monitoring Study
Meeting**

April 17 2008

Sumner Wilson

**Principal Air Quality Instrument Specialist
Special Monitoring**

Status:

- **Sampling initiated**

- **February 2007 at**

- **Long Beach - 3648 N. Long Beach Blvd. Long Beach**
 - **Wilmington – 1903 Santa Fe Ave. Long Beach**
 - **Hudson – 2425 Webster St. Long Beach**
 - **Del Amo – 21228 Water St. Carson**

- **June 2007 at**

- **Downtown Long Beach - 910 W. Anaheim St. Long Beach**
 - **S. Wilmington – 207 N. Fries. Wilmington**

- **November 2007 at**

- **San Pedro – 2201 Barrywood Ave. San Pedro**

- **Sampling and Lab Analysis protocols follows the MATES III and Ambient Network procedures, sampling schedule for non-continuous instrumentation (VOC and Particulates) is USEPA 1-in-6 day schedule.**

Pollutants Monitored

Table 1. Gas-Phase Air Toxics		
Benzene	Carbon Tetrachloride	Chloroform
1,3-Butadiene	Propylene Dichloride	Trichloroethylene, TCE
Methylene Chloride	Tetrachloroethylene & Perchloroethylene (PERC)	Acetaldehyde
Vinyl Chloride	Formaldehyde	Methyl Bromide

Table 2. Gas-Phase Criteria Pollutants		
Ozone	Volatile Organic Compounds (VOC)	Oxides of Nitrogen (NO_x)
Sulfur Dioxide (SO₂)	CO	

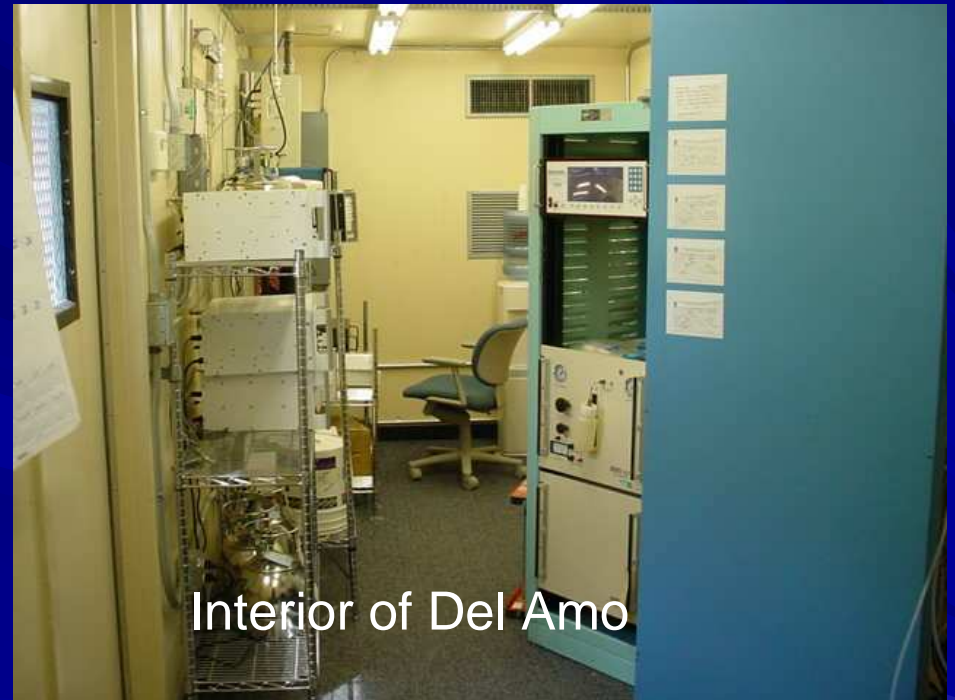
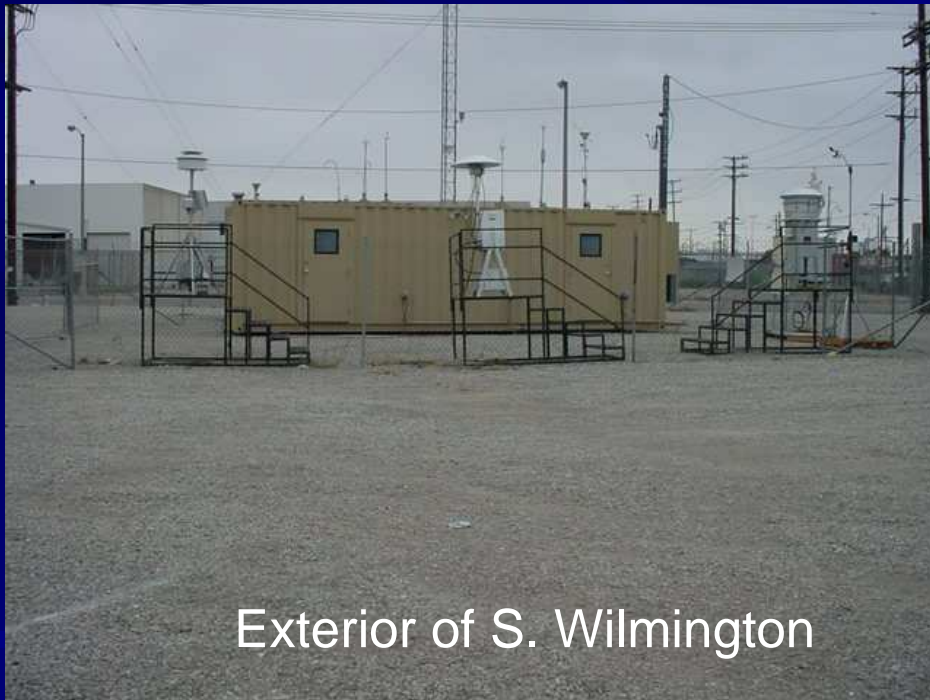
Table 3. Particle-Phase Species		
PM_{2.5} (24-hour)	PM₁₀ (24-hour)	Ultrafine Particles
Total Carbon	Organic Carbon	Elemental Carbon
Nitrate	Sulfate	Ammonium
Vanadium	Other Metals	

Plus wind speed, wind direction, temperature, and relative humidity

Sampling Locations



Site Pictures



Status of Supplemental Monitoring

- **Augmentation of Port sampling site at St. Peter and Paul School in Wilmington to include Air Toxics and Black Carbon (Aethalometer).**
- **Exploring funding options and scope for Port Workers' exposure study**
- **710 monitoring project, we are working with SCE to locate the sampling station adjacent to the 710 freeway on the SCE right-of-way (near the Long Beach Blvd exit), map Below.**

Possible 710 site

